



CITTA' DI TORINO



**CLICC**  
Climate City Contract

# Climate City Contract

## Città di Torino

# 2030 Climate Neutrality Action Plan

**Protocol**

**NET ZERO CITIES**

**EU MISSION PLATFORM | CLIMATE NEUTRAL AND SMART  
CITIES**



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This Action Plan has been adapted to incorporate the vision for striving toward climate neutrality developed by the Città di Torino and to fit with the peculiar context of the city.

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# Climate City Contract Città di Torino

## 2030 Climate Neutrality Action Plan

**Protocol**  
NET ZERO CITIES  
EU MISSION PLATFORM | CLIMATE NEUTRAL AND SMART CITIES

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# Summary

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<sup>1</sup> Città di Torino is the institutional name of the Città di Torino.

<sup>2</sup> See <https://www.torinocambia.it/>

As stated in the Commitments, the vision of a sustainable and resilient city is realized through a diverse array of activities, including emissions mitigation and climate change adaptation, among others. The Climate City Contract (CCC) of the Città di Torino<sup>1</sup> stems from a general vision that steers the ecological transition of the city with an in-house dynamic and multilayer model. In parallel with the framework of activities encompassed in the "Torino Vivibile" webpage (mentioned in the Commitments, Section 1), which focuses on sustainability, the current Administration, under the motto "Torino Cambia"<sup>2</sup>, has implemented an initiative to collect and carry out over 300 actions for the regeneration of the urban fabric. These actions are diverse, physical and immaterial, and occur at various scales. The "Torino Cambia" initiatives are supported by the National Recovery and Resilience Plan, European funds, and national funds.

In the framework of the CCC implementation, we have developed a work process based on **three pillars**: ① a **process governance** for managing the transition process; ② a City's **actors involvement process**, for a coordinated engagement of the heterogeneous players (Municipality, utilities, research institutions, industrial and financial companies, and organizations, citizens) in the road towards climate neutrality; ③ a **science-based support** to the City's policy decision-making, for quantitatively assessing ex-ante and "in silico" (through ad hoc models and IT tools) the costs/to identify the most appropriate ones.

In particular, the proposed vision aims at being: **integrated**, i.e. based on analyses of the interrelationships between the GHG emission sources and the different domains involved (environmental, social, economic); **science-based**, i.e. based on scientific approaches, models and tools, quantitatively describing the urban systems and the other intertwined domains, comparing (through scenario analyses) the impacts of possible alternative strategic choices; **dynamic**, i.e. able to consider and track the evolutionary trajectory of the urban systems and to compare it with the ideal trajectory to be followed for reaching the set targets, thus identifying the possible differences and allowing

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3 Città di Torino (2023) PAESC – Piano d’Azione per l’Energia Sostenibile e per il Clima. Available at [http://www.comune.torino.it/ambiente/bm~doc/piano\\_azione\\_energia\\_sostenibile\\_clima\\_paesc.pdf](http://www.comune.torino.it/ambiente/bm~doc/piano_azione_energia_sostenibile_clima_paesc.pdf)

4 Città di Torino (2021) TAPE – Torino Action Plan for Energy. Terzo Rapporto di Monitoraggio. Available at [http://www.comune.torino.it/ambiente/bm~doc/report\\_terzo\\_monitoraggio\\_ecl.pdf](http://www.comune.torino.it/ambiente/bm~doc/report_terzo_monitoraggio_ecl.pdf)

5 Città di Torino (2012) PRIC – Piano Regolatore per l’Illuminazione Comunale. Available at <http://www.comune.torino.it/canaleambiente/pric/>

6 Città Metropolitana di Torino (2023) PUMS – Piano Urbano della Mobilità Sostenibile della Città Metropolitana di Torino. Available at [http://www.cittametropolitana.torino.it/cms/risorse/trasporti-mobilita-sostenibile/dwd/pums/DEL\\_CONS-42-2022-TESTO\\_ATTO.pdf](http://www.cittametropolitana.torino.it/cms/risorse/trasporti-mobilita-sostenibile/dwd/pums/DEL_CONS-42-2022-TESTO_ATTO.pdf)

7 Città di Torino (2020) Piano Strategico dell’Infrastruttura Verde. Available at [http://comune.torino.it/torinosostenibile/documenti/piano\\_strategico\\_infrastruttura\\_verde\\_2021.pdf](http://comune.torino.it/torinosostenibile/documenti/piano_strategico_infrastruttura_verde_2021.pdf)

for interventions on policy actions in order to realign them; **quantitative**, i.e. able to quantify, by means of indicators and Key Performance Indicators (KPIs), the current status of the urban systems and its evolution over time, thus monitoring the energy transition trend with respect to the set targets; **inclusive**, i.e. able to create a dialogue with the social fabric of the city, involving the citizens and making them aware of the cost/benefit ratio of the energy transition; **transversal**, i.e. integrating the communication with the players and stakeholders, and synthesizing visions and competencies in different domains.

In 2019 (chosen as reference year for the CCC as the most recent one for which data are available, leaving aside 2020 to exclude anomalous trends associated with the COVID-19 pandemic, against which to quantify the impacts of the designed policy strategies for decarbonization and climate neutrality), the **CO<sub>2</sub> emission inventory of Torino** accounted for **2.4 Mt/y**, mainly due (about 82%) to **residential, tertiary, industry** and **private transport** in terms of sectors and to **natural gas** (33%) and **refined petroleum products** (25%) in terms of energy commodities.

To reduce this value, in coherence with the European and national environmental sustainability goals and by the targets of the New Covenant of Mayors for Climate and Energy that the Città di Torino signed in 2019, the Municipality already implemented several policy actions, like those included in the **Piano d’Azione per l’Energia Sostenibile e il Clima** (PAESC – Sustainable Energy and Climate Action Plan, by 2023)<sup>3</sup>; the **Torino Action Plan for Energy** (TAPE, by 2010 with a Third Monitoring Report in 2021)<sup>4</sup>, identifying public and private buildings and transport as priority areas of intervention; the **Piano Regolatore per l’Illuminazione Comunale** (PRIC – Regulatory Plan for Municipal Public Lighting, by 2012)<sup>5</sup>; the **Piano Urbano per la Mobilità Sostenibile** (PUMS – Urban Plan for Sustainable Mobility, by 2022)<sup>6</sup>; the **Piano Strategico dell’Infrastruttura Verde** (Strategic Plan for Green Infrastructure, by 2020).<sup>7</sup> These plans already contribute to improving urban sustainability, as demonstrated by the continuous reduction trend in the city’s historical series of emission inventory.

The inclusion of Torino in the set of cities of the "EU Mission: Climate Neutral and Smart Cities" represents a unique opportunity for significantly **boosting** this **decarbonization process** and building an integrated sustainability strategy involving all the actors of the city system.

The three pillars have been concretely implemented with a structured set of activities.

As for the governance, an integrated **Mission Team** – with the goal of managing the definition of the decarbonization pathways of Torino, their impacts and costs, and the monitoring of the evolutionary trajectories of the city itself towards the set goals – has been created, merging two working groups: ① the **Transition Team of the Municipality of Torino**, in turn involving two different Departments (the Dipartimento Ambiente e Transizione Ecologica - Department of Environment and Ecological Transition and the Dipartimento Fondi Europei e PNRR - European Funds and PNNR Department), supported by the **Interdepartmental Working Group "Climate Change"**, composed of internal technical representatives with expertise in the fields of action of the CCC; ② the working group established at the **Energy Center of the Politecnico di Torino** under the scientific coordination of the **EST@energycenter Lab** – a multidisciplinary team involving different competencies in the energy, environmental and architectural domains, with expertise in modelling and analysis of energy systems at different spatial and time scales, assessment of the environmental impacts of alternative policy scenarios, quantification of GHG skinks due to urban green infrastructures, modelling of building physics, urban morphology and regulations.

Concerning the involvement of the City’s actors, a **co-design process** with local stakeholders has been set up, also exploiting the experience already carried out through three "framework initiatives" under way, i.e. Torino City Lab, CTE Next, Torino Social Impact (described in Section 5), gradually including an increasingly large number of public and private subjects, to engage them as active participants in the challenge. In particular, the **local "ecosystem"** involved encompasses multilevel players: **institutional bodies** besides the Municipality of Torino (namely, the Regione Piemonte and the Città Metropolitana di Torino<sup>8</sup>, which enables a vertical multi-level external governance), **public multi-utility companies**, the private sector (corporate, banking system, trade associations), the **Third Sector Entities** and non-profit organizations, the **academic world** and the **citizens**, with a specific focus on the younger generations and vulnerable targets. The **involvement of the local ecosystem** has been implemented through various instruments, including: ① **working tables** with the territory’s leading actors, aiming at informing on the Mission and promoting a common action perspective for the climate

8 The Città Metropolitana di Torino (Metropolitan Città di Torino) as an administrative territorial entity has replaced the Province of Torino in 2015.

transition; ② **a cycle of workshops** with thematic stakeholders (business world, Third Sector Entities, investee companies) to co-create the framework of knowledge on the City's carbon footprint and to initiate the co-design of the portfolio of actions and the engagement for the implementation of initiatives; ③ **meetings addressed to young people and youth associations**, aiming at raising awareness of the challenges that the City will have to face to achieve the 2030 targets and at building a dialogue between young people and the City Administration; ④ **activities to engage vulnerable subjects**.

Eventually, for what concerns the science-based support to the City's policy decision-making, the proposed vision has been implemented along a sequence of steps.

First, a **data management approach** has been defined for systematically collecting, polishing, validating, and updating all the existing data that characterize the various sectors and sub-sectors forming the urban system. In this framework, the design of an "Energy & Transition Data Room," located at the Energy Center of the Politecnico di Torino, intended as a "research mirror" for hosting a copy of all the relevant data of the City, is currently in phase of implementation. The Data Room is conceptually based on the coupling of a data lakehouse approach, which allows for storing and managing structured, semi-structured, and unstructured data, and a distributed database approach, which allows for higher resilience (because data are not stored on a single physical machine, but distributed across multiple nodes physically located in different machines and replicated in such a way as to ensure redundancy) and performance (for balancing the workload across different servers, even in the presence of numerous simultaneous queries) concerning traditional databases. This infrastructure is based on an hyperconverged cluster and a distributed architecture with five nodes (and three copies of all the data distributed on these nodes).

Secondly, the design and implementation of a **web-based IT platform CLICC** (CLimate City Contract) have provided the means to assess ex-ante and "in silico" the impacts, in terms of CO<sub>2</sub> emissions avoided and related costs, of different possible policy actions and strategies, based on ad hoc models and algorithms, thus permitting the City's decision makers to verify and compare them quantitatively and objectively. The platform also makes it possible to compile the various sections of the CCC itself automatically. Furthermore, this tool – fed by the

data of the Energy & Transition Data Room to be built – will allow for tracking the evolution of the urban systems and the related emissions, for checking the coherence between them and what is expected by the Torino's CCC, and for implementing (when needed) corrective actions for realigning the evolutionary trajectory with the one requested for reaching the set targets.

This approach has made it possible to define a **set of macro-actions** (presented in this Action Plan, in Part B). These macro-actions are not intended as specific punctual interventions, with a limited area of application and consequent limited impacts in terms of contribution to the reduction of CO<sub>2</sub> emissions in the city. Instead, they are **wide-scale actions able to impact the overall urban system significantly**, leading to relevant effects on Torino's emission inventory. The macro-actions cover all the macro-areas emitting CO<sub>2</sub>, namely **stationary energy** (including municipal buildings, public lighting, residential, tertiary, and industrial sectors), **transport** (including municipal fleet, private and public transport), **waste** (including landfill, wastes, and wastewater treatment), and the **AFOLU - Agriculture, Forestry and Other Land Uses** (including the urban green infrastructure that acts as a CO<sub>2</sub> sink). A set of **30 macro-actions** has been defined. They include interventions of energy requalification of buildings (residential, tertiary, industrial and municipal); expansion of the district heating network; electrification of a part of the heating systems through heat pumps; creation of Renewable Energy Communities; efficiency improvement of the industrial processes; increase in efficiency of public lighting; enhancement of the share of photovoltaic (PV) electricity production; electrification of the private vehicles fleet, of the buses for public transport and the municipal fleet; implementation of zones with limitations to private traffic; promotion of alternative mobility modes (bicycles, carsharing, carpooling); construction of a second metro line; reduction in waste generation and increase in separate waste collection; installation of Carbon Capture and Storage (CCS) systems on the waste-to-energy plant and district heating generation plants; increase in urban forestry and development of green roofs.

For each **macro-action**, related **co-benefits** have been identified in various fields, from improving air quality to combating energy poverty and social inequalities to positive effects on health.

Moreover, a mapping (portfolio) of 227 micro-actions already in progress or to be developed in the City has been created,

associating them with the different fields of action and collecting them under the related macro-actions domain (see Annex I to this Action Plan). All the micro-actions have been uploaded to the CLICC web platform to monitor their evolution.

The overall effect of implementing the macro-actions has been quantified to a reduction of 2 Mt/y of CO<sub>2</sub> emissions (-85.2%) concerning the reference year (2019) value of 2.4 Mt/y. The associated investment cost is estimated at 27.1 G€, as detailed in Torino's CCC's investment plan.

The vision and the methodological approach defined and implemented for the preparation of the Climate City Contract of Torino aim at constituting a sort of "Torino Model" for the science-based support to Cities in the energy/environmental policy decision-making field, which could be made available and reproducible, in a scalable way, in other national and international contexts.

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# Glossary of Terms

<b>ABI</b>	Associazione Bancaria Italiana Italian Bank Association
<b>ACI</b>	Automobile Club Italia Automobile Club Italy
<b>AFOLU</b>	Agriculture, Forestry and Other Land Use
<b>AMP</b>	Agenzia della Mobilità Piemontese Piedmont Mobility Agency
<b>AMSvS</b>	Agenda per lo Sviluppo sostenibile della città Metropolitana di Torino Agenda for the Sustainable Development of the Metropolitan Città di Torino
<b>ANCE</b>	Associazione Nazionale Costruttori Edili National Builders' Association
<b>ARPA Piemonte</b>	Agenzia Regionale per la Protezione Ambientale
<b>ATC</b>	Agenzia Territoriale per la Casa Territorial Agency for Housing
<b>ATECUE</b>	Attività Economica delle Utenze Elettriche Economic Activity of Electric Utilities
<b>ATOR</b>	Associazione d'ambito Torinese per il governo dei Rifiuti Torino Area Association for Waste Management
<b>BICIPLAN</b>	Piano della Mobilità Ciclistica Cycling Mobility Plan
<b>CAI</b>	Club Alpino Italiano Italian Alpine Club
<b>CCC</b>	Climate City Contract
<b>CCS</b>	Carbon Capture and Storage
<b>CDP</b>	Cassa Depositi e Prestiti
<b>DH</b>	District Heating
<b>ETS</b>	Emission Trading System
<b>FAI</b>	Fondo per l'Ambiente Italiano
<b>FENEE</b>	Fattore di Emissione Nazionale per l'Energia Elettrica National Emission Factor for Electricity
<b>FUA</b>	Funcional Urban Areas

<b>GTT</b>	Gruppo Torinese Trasporti
<b>GVW</b>	Gross Vehicle Weight
<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>IPPU</b>	Industrial Processes and Product Use
<b>IRES</b>	Istituto di Ricerche Economico Sociali del Piemonte Institute for Socio-Economic Research of Piemonte
<b>ISPRA</b>	Monitoring Reporting Verification
<b>ISTAT</b>	Istituto Nazionale di Statistica Italian National Statistical Institute
<b>MSP</b>	Metropolitan Strategic Plan
<b>PAESC</b>	Piano d'Azione per l'Energia Sostenibile ed il Clima Action Plan on Sustainable Energy and Climate
<b>PEAR</b>	Piano Energetico Ambientale Regionale
<b>PENCO</b>	Piano ENergetico Comunale Municipal Energy Plan
<b>PMI</b>	Piccole e Medie Imprese Small and Medium Enterprises
<b>PNIEC</b>	Piano Nazionale Integrato per l'Energia e il Clima Integrated National Energy and Climate Plan
<b>PNRR</b>	Piano Nazionale Ripresa e Resilienza National Recovery and Resilience Plan
<b>PPR</b>	Piano Paesaggistico Regionale Regional Landscape Plan
<b>PRG</b>	Piano Regolatore Generale General Urban Development Plan
<b>PRIC</b>	Piano Regolatore di Illuminazione Pubblica Comunale Municipal Public Lighting Plan
<b>PRQUA</b>	Piano Regionale di Qualità dell'aria Regional Air Quality Plan
<b>PTA</b>	Piano Tutela delle Acque Water Protection Plan
<b>PUMS</b>	Piano Urbano per la Mobilità Sostenibile Sustainable Urban Mobility Plan
<b>PV</b>	Photovoltaic
<b>SAGAT</b>	Società Ordinaria e Gestione Aeroporto Torino Torino Airport Ordinary and Management Company
<b>SMAT</b>	Società Metropolitana Acque Torino Torino Metropolitan Water Company

<b>SRSvs</b>	Strategia Regionale per lo Sviluppo Sostenibile Regional Strategy for Sustainable Development
<b>TAPE</b>	Torino Action Plan for Energy
<b>TEST</b>	Torino Energy Strategy
<b>TRM</b>	Trattamento Rifiuti Metropolitan <i>Metropolitan Waste Treatment</i>
<b>UNESCO</b>	United Nations Educational, Scientific and Cultural Organization

# I. Introduction

Torino, the capital of the Regione Piemonte and the Città Metropolitana of the same name, boasts a population of 860,973 inhabitants (as of December 31, 2023) and covers an area of 130 km<sup>2</sup>, divided into eight districts (Figure I-1.1). It stands as the fourth-largest economic and productive complex in Italy and serves as a pivotal hub for industry, universities, arts, tourism, sciences, and culture.

With an ancient history dating back to the 3rd century, Turin was transformed into a Roman colony, known as *Lulia Augusta Taurinorum*, in the 1st century B.C. It has played a significant role in the history of Italy, serving as its capital between 1861 and 1865.

Torino's territory encompasses significant historical sites, including those listed in the UNESCO World Heritage List as part of the Savoy Dynasty residences in Piedmont, as well as the natural ecosystem formed by the collinear areas surrounding the Po River, designated as a biosphere reserve.

Throughout its recent history, Torino has hosted numerous cultural and sporting events, such as the Universal Exposition in 1911 and the 20th Winter Olympic Games in 2006. Additionally, it serves as the epicenter of Italy's automobile industry and is a vital hub for publishing, banking, insurance, information technology, cinema, food and wine, aerospace, industrial design, sports, fashion, and artificial intelligence.

The city's growing importance on the international stage has earned it the status of a global city, placing it as the third-largest Italian city after Milano and Roma in the Gamma category of the GaWC 2020 classification.

## Demographics and employment

Torino has undergone significant economic and demographic changes in recent decades, with the effects further compounded by the COVID-19 pandemic.

Since its peak in 2012, the resident population has been on a decline, with figures standing at 860,973 as of December 31,

2023. This trend is mirrored in the Città Metropolitana and at the regional level, with a 4% decrease in the overall population. The demographic makeup remains fairly balanced, with 446,947 females and 414,026 males. However, analysis by age group reveals an aging population, characterized by a decline in the younger demographic and an increase in the elderly population (65 years and older).

In 2022, employment in Torino experienced a 2% increase from the previous year, reaching 361,000 employed individuals. This growth surpassed that of Milano and Genova, largely attributed to the contributions of the city's female workforce. However, a comparison with 2019, the last pre-COVID year, reveals a persistent negative gap (-3.1%), indicating only partial recovery and unfavorable demographic trends.

## Education

In the 25-39 age group, the proportion of graduates in Torino stands at 30%, surpassing the Italian average of 27%. However, this figure is relatively lower compared to other metropolitan areas in Northern Italy, such as Bologna (41%) and Milano (40%). Despite this, enrollments in Torino's universities are on the rise, indicating strong appeal both nationally and internationally. In 2021, the Università di Torino boasted 77,000 enrolled students, while the Politecnico di Torino had 34,000 students.

## Manufacturing

The process of deindustrialization, which has affected Torino and other European cities with a history of industrialization in recent decades, has had significant impacts on various manufacturing supply chains. This has led to negative repercussions in terms of employment, which, only now, appear to have been partially but not entirely absorbed by other sectors, resulting in a structural change in the city's economic landscape.

Nevertheless, compared to other European metropolitan cities, Torino's manufacturing sector still holds significant importance, with a total of 8,978 activities (7,399 headquarters and 1,579 local offices). The entrepreneurial system in Torino is heavily characterized by small and micro-enterprises. However, the relatively low presence of medium and large enterprises complicates both technology transfer processes and the retention of local human capital created by the network of local academic institutions.

### Political-administrative directions: a metropolitan Green Deal

The current municipal administration, led by Mayor Stefano Lo Russo, was elected in 2021 from among center-left forces.

Recently, Torino has committed to embarking on the path towards ecological and related transitions, including energy, digital and IT, economic-productive, and socio-cultural transitions. Specifically, the city is evaluating strategies to promote and oversee the urban energy transition. The urgency of the energy transition is highlighted by the significant presence of fossil fuels in the city's energy mix, encompassing buildings, equipment, facilities, and transportation. This reliance on fossil fuels has notable implications for greenhouse gas (GHG) emissions and air pollutants.

As of 2019, fossil fuels, including natural gas and refined petroleum products, accounted for over 60% of Torino's final energy consumption. Fossil fuels also played a substantial role in the generation mix of electricity and heat for the city's district heating network. The emission factors for electricity generation and district heating were estimated at 0.245 tCO<sub>2</sub>/MWh and 0.161 tCO<sub>2</sub>/MWh, respectively. Torino's district heating network, established in 1982, is one of Europe's most extensive systems, consisting of a double line of pipelines spanning over 700 km and serving nearly 500,000 inhabitants.

As outlined in the City's Guidelines, environmental sustainability and ecological transition are explicitly recognized as top priorities, serving as essential tools to propel the city, in collaboration with municipalities in the metropolitan area, towards a new phase of growth.

Key aspects related to achieving environmental objectives include energy production from renewable sources, fostering energy communities, implementing measures for energy reduction and upgrading of both public and private building stocks, promoting separate waste collection, and reducing emissions.

Addressing air quality and environmental emergencies stands at the forefront of structural policies, particularly concerning the energy conversion of buildings and public and private transportation vehicles.

Investee companies are also integral to this effort, and their role must be reinforced to function effectively as a network within the

metropolitan area. Collaboration among these entities is essential for advancing environmental sustainability goals across the entire metropolitan territory.

The administration is committed to embracing the challenge posed by the Green New Deal, initiated by the European Commission in 2020, aimed at reducing CO<sub>2</sub> emissions and achieving climate neutrality. This involves supporting innovation in industry, transportation, and heating systems, with a focus on investing in electric mobility and enhancing energy efficiency.

To this end, there are plans to develop a comprehensive strategic plan, in collaboration with all municipalities in the Città Metropolitana, to facilitate the ecological and energy transition. This metropolitan Green Deal will encompass initiatives related to the management and implementation of green infrastructure, as well as the execution of large-scale urban reforestation projects.

Furthermore, a key aspect of territorial development involves bolstering measures for hydrogeological risk mitigation through increased investment. This proactive approach aims to enhance the resilience of the metropolitan territory against potential hydrogeological hazards.

In addition, the administration has identified, among the objectives to be pursued, the preparation of a definitive protection and enhancement plan for city rivers to improve their environmental conditions, encourage navigation, and develop sports and recreational activities.

Addressing air pollution reduction is of utmost importance, especially considering the frequent exceedance levels observed. To combat this issue, coordinated efforts are underway to reduce traffic emissions across the entire metropolitan area. Additionally, incentives are being provided for the replacement of the most polluting vehicles.

Furthermore, energy efficiency initiatives targeting both public and private buildings are being prioritized, along with tax incentive policies aimed at promoting the widespread adoption of renewable energy sources.

**Table I-1.1** outlines the various macro-areas of the urban system considered in the development of the current Action Plan, categorized according to different emission scopes. This provides a comprehensive overview of the scope of analysis conducted to identify strategic pathways for the city towards achieving the 2030 target of climate neutrality.

**Table I-1.1 Targets for climate neutrality by 2030**

Macro-areas	Scope 1	Scope 2	Scope 3
Stationary energy	Included	Included	-
	Only CO <sub>2</sub> is considered	Only CO <sub>2</sub> is considered	-
Transport	Included	Included	-
	Only CO <sub>2</sub> is considered	Only CO <sub>2</sub> is considered	-
Waste/wastewater	Not applicable	Not applicable	Included
	CO <sub>2</sub> equivalent is considered	Not applicable	CO <sub>2</sub> equivalent is considered
IPPU	Excluded	Not applicable	-
	-	Not applicable	-
AFOLU	Included	Not applicable	-
	Only CO <sub>2</sub> absorption from existing green areas and trees is considered	Not applicable	-
Other	-	-	-
Geographical boundary	Same as city administrative boundary	Smaller than city administrative boundary	Larger than city administrative boundary
(Tick correct option)	X		
Specify excluded/additional areas	-	-	-



**Figure 1.1: Map of Torino**

# 2. Work Process

The work process adopted for defining the CCC's Action Plan is rooted in the Vision outlined in the Section 4 of the CCC Commitments. This approach integrates interdisciplinary methods and closely intertwines a science-based approach with governance strategies. The focus lies on assessing the city's environmental sustainability, specifically in terms of greenhouse gas (GHG) emissions, limited to CO2 for the purposes of the Action Plan.

The implementation of the Vision revolves around three conceptual pillars outlined in the Summary. These pillars underpin the creation and formalization of the work process, guiding the city through its transition towards sustainability. They are translated into a series of actions, which are graphically synthesized in **Figure 3.1**.

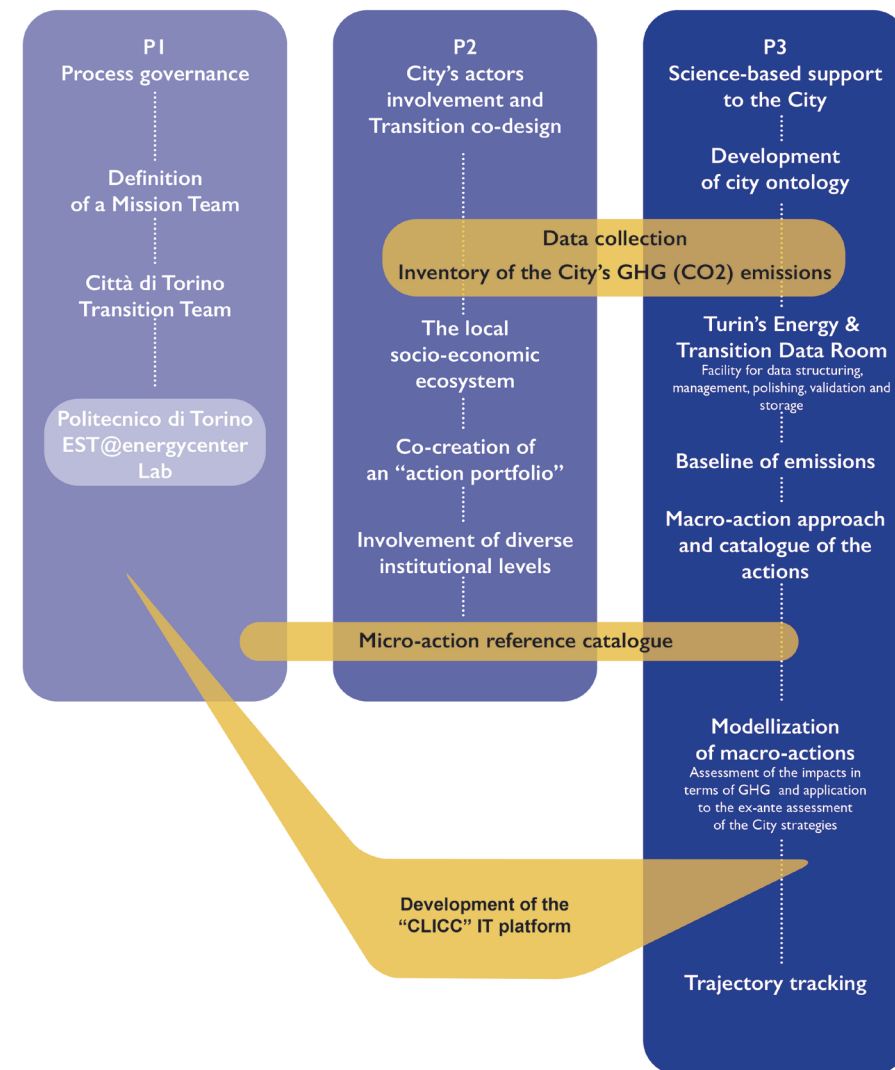


Figure 2.1 – The structure of the work process.

In particular, we consider the following three flows that encapsulate and organize the work process:

P1) **Process governance:** defining structured groups and a network of responsibility and interrelations to manage the governance process supporting the Action Plan.

P2) **City's actors' involvement and Transition co-design:** coordinated engagement of all the actors and stakeholders of the city involved in the transition process towards climate neutrality project at different levels and roles (municipality, utilities, research and educational institutions, industrial and financial companies, and institution, citizens association and individuals).

P3) **Science-based support to the city:** definition of a "data lakehouse" for collecting, storing, and managing the data that characterize the urban system and mathematical modeling and algorithms for assessing/monitoring the status and the evolution of the city in terms of GHG – evaluating ex-ante and "in silico" the impacts and cost/benefit ratio of the actions in a strategy and pinpointing the most appropriate ones.

These three pillars are intertwined: their actions proceed in parallel, but some sections (Inventory of the City's GHG emissions, micro-action reference catalog, creation of the CLICC platform) are transversal and represent a common link in the work process: they are pivotal sections of convergence between governance, city actor involvement and science-based support.

## P1 – Process governance

### Definition of a "Mission Team"

The process undertaken by the Città di Torino in building the CCC and achieving climate neutrality by 2030 starts with the definition of a Mission Team. The Mission Team is an integrated bilateral working group formed by the City's in-house operational core (Transition Team) and the Politecnico di Torino interdisciplinary group at the EST@energycenter Lab.

The main goal of the Mission Team is to ensure a systemic and synergetic approach to governing climate action. It engages, with a different level of involvement, 45 people from the Città di Torino and 25 from the EST@energycenter Lab.

The **Transition Team** is the Mission Team component within the City Administration. It is composed of ① Department for Ecological and Digital Transition, Innovation, Mobility and

Transport (which coordinates, on the political side, the different departments involved in the Mission's activities); ② Referees of the Environment and Ecological Transition Department and the European Funds and NRP Department. The Team operates under the guidance of the General Management of the Città di Torino, the competent Councillor, and the Mayor and ensures the full involvement of all cross-functional skills within the administration through the activation of the Interdepartmental Working Group "Climate Change" composed of technical representatives of the different City Services – that works at the construction and updating of the common framework of actors, networks, barriers and main levers towards climate neutrality.

The Città di Torino has activated the "Climate Change" working group to overcome internal governance barriers with an integrated multidisciplinary approach. Under the leadership of the Environment and Ecological Transition Department, it involves all the components whose activities may influence the pathway to climate neutrality.

The working group of the **EST@energycenter** Lab has been established at the Energy Center of the Politecnico di Torino. It involves a multidisciplinary team merging different energy, environmental, and architectural competencies.

The team embodies the operational convergence and cultural diversity of three departments of the Politecnico di Torino: the **Department of Architecture and Design (DAD)**, the **Department of Energy (DENERG)**, and the **Department of Environment, Territorial and Infrastructure Engineering (DIATI)**.

The expertise of the team ranges from the modelling and analysis of the energy systems at different spatial scales (urban, national, supranational, global) and over different time horizons (short, medium, and long term) to the assessment of the environmental impacts associated to the various energy mixes, alternative policy scenarios, and the quantification of the GHG sinks due to urban forestation, to the modeling of building physics, to the evaluation of the role played by urban morphology and regulations in the effective implementation of decarbonization policies.

The working group supports the Municipality of Torino in guaranteeing the scientific validity of the initial knowledge framework and of the actions/measures defined within the general strategy to contrast greenhouse gas emissions – building ad hoc models and IT tools for assessing their effects and tracking



the evolution of the city energy system over time.

The EST@energycenter Lab also represents a physical space: it is the venue where the Mission Team can meet and work together, with the possibility of directly sharing knowledge and competencies in different domains – jointly defining targets and methodologies in designing strategies, pathways, and actions for the transition of Torino towards the climate neutrality.

The close synergy between the Città di Torino and the EST@energycenter Lab allows a better understanding of the urban energy balance's starting conditions (data, relationships, and barriers) and related emissions – thus building the basis for the subsequent strategy definition and monitoring phases.

### Mission Team Goals Toward 2030

In particular, from an operational point of view, the Mission Team is in charge of coordinating the governance activity of the transition phase of the City towards climate neutrality. In this framework, several specific activities are encompassed, including preparing and drafting the CCC in the following phases, in terms of future further revisions/integrations of the contract itself to follow the implementation of the various decarbonization actions of the City coherently with what defined in the CCC, also detecting the possible barriers to their implementation (and, therefore, to the achievement of the target) and evaluating the possible options for decreasing them, and identifying the main levers of change that support the transition process; to define ad hoc Key Performance Indicators and track the evolutionary trajectory of the system; to monitor the financial aspects related to the implementation of the various actions; to manage the strategies for the involvement of the different City's actors.

In the phase following the signing of the CCC, in particular, the Mission Team will continue its activity of coordinating and monitoring the actions necessary for the achievement of climate neutrality, continuing to ensure (and, where possible, to strengthen) the moments and spaces for periodic discussions between representatives of the **Transition Team** and **EST@energycenter Lab Team**.

Meetings with citizens and stakeholders, progressively identified by the City to support the path to climate neutrality, will also continue.

Finally, the Mission Team will be tasked with offering periodic

reports to the Mayor and the Council to ensure the most comprehensive sharing of data on the progress of planned actions toward full implementation of the CCC. Through the construction of this dual channel of communication, to the outside world and civil society, on the one hand, and to the inside and the local government, on the other, the political and administrative leadership of the Entity will benefit from all the data necessary to keep the guidance toward climate neutrality firmly in place and adopt corrections where necessary.

### P2 – City's actors' involvement and Transition co-design

Along with the Mission Team, an articulated system of actors in the territory, internal and external to the Administration, is engaged in the contract.

#### The local socio-economic ecosystem

A systemic and multi-level approach involves the entire local ecosystem, composed of the city's different public and private actors, down to individual citizens (see Section 5).

The path outlined by the Città di Torino envisages different levels of involvement and is based on network governance. In particular, it was decided to gradually and transversally embrace the local ecosystem, stemming from an initial group (the "Core Team") – made up of actors pooled together in networks already involved in other processes and with a high potential in terms of direct/indirect effects on the reduction of climate-changing gas emissions –, up to individual citizens and fragile/vulnerable subjects.<sup>9</sup>

Specifically, the local ecosystem currently includes multi-level institutional actors: public authorities-companies, the private sector (corporate, banking system, trade associations, etc.), the Third Sector and associative world, the academic world and citizens, with a specific focus on the younger generations and fragile/vulnerable subjects.

The involvement of the local ecosystem is being implemented through different approaches: ① Meetings of the Interdepartmental Working Group on Climate Change; ② Targeted meetings with the services/offices within the municipal Administration; ③ Working tables with the territory's leading actors, participated companies and thematic stakeholders, representative spheres of action of the Climate City Contract; ④ Workshops with thematic stakeholders to co-design a "portfolio

<sup>9</sup> In this document, the notion of "fragile/vulnerable subjects" broadly refers to social groups that are marginalized and/or exposed to inequalities/obstacles that jeopardize them to being granted full socio-economic status (e.g., people in energy poverty, young people and foreigners).

of actions" – implementing the knowledge on the city's carbon footprint, and the identification of initial strategies towards climate neutrality by 2030 and beyond; ⑤ Meetings addressed to young people and youth associations with the aim of promoting the dialogue between young people and the city; ⑥ Activities to engage fragile/vulnerable subjects; ⑦ involvement of the private sector through the support of the Management Department of the University of Torino – in cooperation with other institutions, productive entities and the Third Sector.

This initial core is set to gradually grow through the reinforcement of engagement initiatives, information, and communication activities involving targets identified in barriers (see Section 3) and levers for change and the actors' mapping (see Section 5) – to promote, support, and broadening the active involvement of the local ecosystem.

The CCC will be gradually enriched by co-creating new actions and alliances. New opportunities will stem from confrontation, co-design with the territory, and integration with other ongoing policies and projects. "Widespread territorial workshops" will be set up as an opportunity to reflect on the most suitable solutions. At the same time, meetings addressed to young people and youth associations will consolidate the relationship between the younger generations and the municipal Administration.

### Co-creation of a portfolio of actions

For the drafting of the CCC, the Città di Torino has started a co-design process with local stakeholders, gradually involving an increasingly large number of public and private subjects as active participants in the challenge undertaken by the city.

The first phase of the process involved about 16 representatives of public entities, 40 participants from private companies, 35 participants from non-profit organizations, and also 20 associations for vulnerable people to arrive at a joint definition of the actions and investments that could be activated in the short, medium and long term to achieve the Mission's goals.

Also, thanks to the dialogue with the different stakeholders of the city and to the inputs received from them, according to a co-creation approach, a set of macro-actions (wide-scale actions able to significantly impact the overall urban system and leading to relevant effects on the emission inventory), covering all the sectors was set. For each macro-action, possible co-benefits

were identified in the various fields, from improving air quality to contrasting energy poverty and social inequalities to critical positive effects on health (see Section 4).

A portfolio of all the "micro-actions" already in progress or to be developed in the city<sup>10</sup> was then created, associating them with the different fields of action and collecting them under the related macro-actions domain (See Annex I).

### Involvement of other institutional levels

Within the framework of the local coalition, the involvement of the Regione Piemonte and the Torino Città Metropolitana is crucial in defining a vertical multi-level external governance that allows for the development of actions both in coordination with the regional strategies and in full connection with a supra-local scale.

Such an interaction has made it possible to systemize the reconstruction of the baseline emission framework and the potential impact of future strategies. The interaction with the Città Metropolitana has deepened the effect on the municipal territory of policies promoting accessible, safe, and less polluting mobility towards environmental, economic, and social sustainability, such as the **Piano Urbano per la Mobilità Sostenibile (PUMS – Urban Plan for Sustainable Mobility)** issued in 2022 (see Section 3 – Part A). In a regional framework, the interaction with the Regione Piemonte was an opportunity to explore the interlocking of Municipal and Regional paths towards climate neutrality. In this sense, the definition of the Regional Climate Change Strategy in 2022<sup>11</sup> aims to direct regional administrative and political actions to counter climate change along a double-edged trajectory: on the one side, by adopting mitigation strategies to reduce climate-altering gas emissions; on the other, by increasing both resilience and adaptation approaches<sup>12</sup> to prepare the territory and its inhabitants to face the inevitable consequences of global warming.

Supra-local cooperation expands nationally by launching working tables and agreements with ministries involved in the energy transition. In 2022, a Memorandum of Understanding was signed between the Ministero delle Infrastrutture e delle Mobilità Sostenibili (Ministry of Infrastructure and Sustainable Mobility) and nine Italian cities involved in the path towards climate neutrality – which sees Torino as part of an expanded network sharing potentials and barriers in the path towards climate neutrality, but also methodologies for engagement, data collection/sharing,

10 The PAESC issued in 2023 had already systematised actions and projects initiated and/or financed and to be implemented by 2030, mainly triggered by the municipal administration and the investee companies that manage the main local public services.

11 The first draft was approved in February 2022.

12 In this document, we refer to the notion of "resilience" as the ability to survive and elaborate prompt recovery strategies from extreme weather/meteorological/natural events due to climate change; and to "adaptation" as the capacity urban societies to ensure the city's functioning in an environmentally sustainable, energy efficient and economically affordable manner in the face of mutations in the environmental setting as a result of ongoing climate change.

and the definition of new financial instruments to support the achievement of the objective. In this framework, the Let's GOv project, launched on 1 June 2023 with a duration of 24 months and in which the Città di Torino is a consortium partner and the EST@energycenter Lab is a scientific partner (see Section 6), represents an opportunity for the nine Italian cities (which jointly applied to the related call) to share good practices and projects – to create a knowledge base to other municipalities, public administrations or public bodies to move more quickly and efficiently towards the goals of the Mission of the Cities.<sup>13</sup>

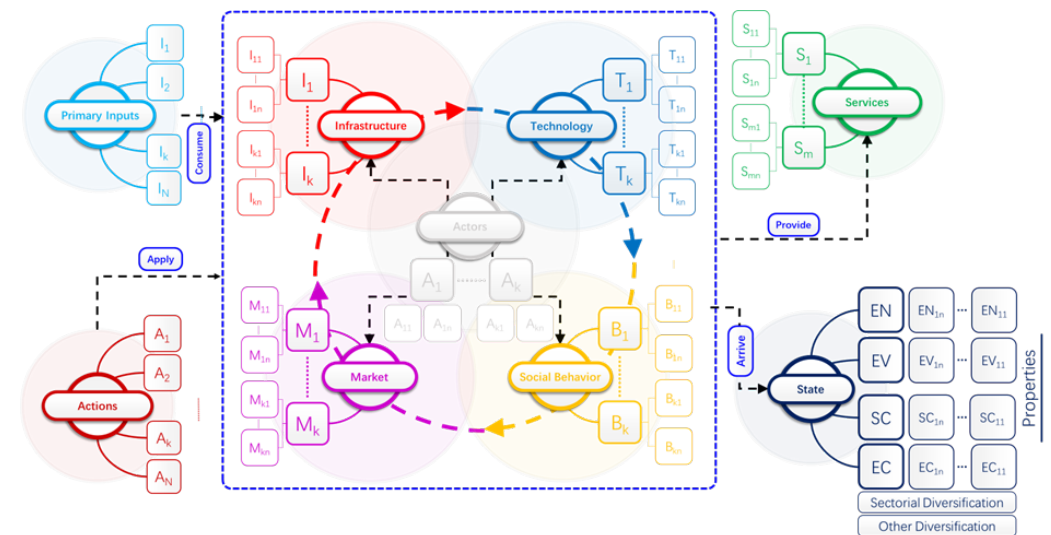
**P3 – Science-based support to the city**

The science-based approach provided by EST@energycenter Lab of the Politecnico di Torino to the city supports the first two pillars of the work process in quantitatively assessing – ex-ante and in silico, through ad hoc models and IT tools – policy actions and overall strategies towards carbon neutrality. Such cooperation is essential to building a shared vision, creating an operational approach, implementing concrete and measurable actions, and accompanying the city along the transition trajectory.

**Developing a City Ontology**

The overarching action upstream of the P-3 structure is the creation of a "City Ontology." The City Ontology allows the formalization of several correlations and interactions among the domains participating in Torino's energy transition. The ontology conceptualized by the EST@energycenter Lab of the Politecnico di Torino comprises classes and relationships, including individuals, classes, attributes, relations, functions, terms, restrictions, rules, axioms, and events. The Ontology is the basis of the definition of the single actions and, consequently, is preparatory to implementing a "what if" analysis scenario.

13 See <https://netzerocities.eu/italys-pilot-activity-letsgov-governing-the-transition-through-pilot-actions/>



**Fig.2.2 – Scheme of the City Ontology**

14 Considering the complexity of managing widely heterogeneous data, the evolution of data management is leading to the migration from traditional data warehouses to more flexible and scalable solutions like data lakes, and to the new approach of data lakehouses. With the increasing volume, variety, and velocity of data, in fact, data warehouses face limitations in handling unstructured and raw data. Data lakes provide, instead, a scalable solution for storing vast amounts of both structured and unstructured data in its native format. They offer advantages such as flexible schema, support for real-time and batch processing, and the ability to incorporate new data sources seamlessly. Due to the need for bridging the gap between data storage and data analytics, the concept of a data lakehouse has thus emerged – combining the benefits of both data warehouses and data lakes, and providing a unified platform that enables data storage, data processing, and analytics in a single architecture.

15 As of 31 December 2019.

16 Città di Torino (2023) PAESC – Piano d'Azione per l'Energia Sostenibile e per il Clima. <http://www.comune.torino.it/ambiente/>

### Data collection and data lakehouse

Systematized data collection and classification are pivotal to creating cognitive and decision-making value through open-source data intelligence. Data and information that characterize the city are organized and stored in a data lakehouse,<sup>14</sup> gathering and managing structured, partially structured, and completely unstructured data. The data lakehouse ensures a shared data hub for hosting all the relevant data of the city, which helps manage the energy transition and the sustainability process to feed the models for scenario analyses and allow for the evolutive tracking of the urban system.

### Inventory of the City's GHG (CO<sub>2</sub>) emissions

The Greenhouse Gas Emissions Baseline is the "zero degree" of the decarbonization process of the urban system towards climate neutrality – indicating the amount of greenhouse gas emissions to be removed from the urban energy system by 2030 to reach the climate neutrality condition.

The reference year for constructing the Greenhouse Gas Emission Baseline Inventory is 2019,<sup>15</sup> corresponding to the PAESC (Piano di Azione per l'Energia Sostenibile e il Clima – Sustainable Energy and Climate Action Plan)<sup>16</sup> and the Third Monitoring Report of the TAPE – Torino Action Plan for Energy.<sup>17</sup> Also, 2019 is considered by the European Commission as an acceptable reference year for all cities that have joined the NetZeroCities protocol.

The definition of the Baseline Inventory mirrors and encapsulates the peculiarities of the local situation and conditions characterizing the Città di Torino. Therefore, the PAESC and the Third Monitoring Report of the TAPE represent the primary reference documents; to overcome the limitation in the available data, however, the information retrieved from TAPE and PAESC has been validated and integrated with further ad-hoc analysis. In particular, concerning the assessment of the energy consumption and emissions data for the industrial sector, which is not available in the PAESC, only non-ETS (Emissions Trading System) industries have been considered.<sup>18</sup> The electricity consumption has been evaluated starting from the consumption data provided by the IRETI S.p.A. company<sup>19</sup> (belonging to the Iren Multi-utility company and devoted to the management of the urban electricity distribution network) via the Regione Piemonte and filtering and aggregating them according to a clustering of the different industrial facilities based on the ATECUE code (that identifies

and allows to classify the all the various economic and productive activities). Concerning natural gas, data have been provided by the Regione Piemonte (based on data from SNAM and Italgas companies<sup>20</sup>), classified according to the intended use. From them, the industrial component has been first extracted, and the consumption of the ETS industry (obtained through a direct request to the industries classified as ETS) has been subtracted from this component to get the non-ETS industrial consumption only. Therefore, the related emissions have been calculated by multiplying the electricity and natural gas consumption values by the related emissions factors adopted by the PAESC.

The division of the Baseline into Scopes, Macro-areas, and Sectors follows the guidelines developed by the *Global Protocol for Community-Scale Greenhouse Gas Inventories V.1.1*.<sup>21</sup> The categorization into Scope 1, Scope 2, and Scope 3 refers to the geographical location of energy consumption and emissions, using the administrative boundaries of the Città di Torino as a reference.<sup>22</sup>

In particular, the following macro-areas and sectors have been considered:

- ① Stationary energy (sectors: residential, tertiary, industrial and municipal buildings, industrial processes, waste-to-energy plant, and public lighting)
- ② Transport (sectors: municipal vehicles, private transport, and public transport)
- ③ Waste (sectors: landfill, waste and wastewater treatment systems)
- ④ Industrial Processes and Product Use (IPPU)
- ⑤ Agriculture, Forestry, and Other Land Use (AFOLU)

The commodities considered in the calculation are electricity, district heating, natural gas, refined petroleum products (GPL, fuel oil, diesel, petrol for internal combustion engines), biomass, solar thermal, and municipal solid waste.

### Implementation of a facility for structuring & management, polishing & validation, and data storage (Torino's Energy & Transition Data Room – ETDR)

The data lakehouse is implemented by developing ad hoc web crawler systems for collecting and constantly updating the stored data and coding functions for data association among different

[bm~doc/piano\\_azione\\_energia\\_sostenibile\\_clima\\_paesc.pdf](#)

17 Città di Torino (2021) TAPE – Torino Action Plan for Energy. Terzo Rapporto di Monitoraggio. Available at [http://www.comune.torino.it/ambiente/bm~doc/report\\_terzo\\_monitoraggio\\_ecl.pdf](http://www.comune.torino.it/ambiente/bm~doc/report_terzo_monitoraggio_ecl.pdf)

18 ETS industries are those that participates to the Emission Trading System (ETS) of the European Union. The ETS is a cap & trade mechanism, setting the overall maximum value (cap) on the emissions permitted on European territory in the sectors covered by the ETS scheme, which corresponds to an equivalent number of allowances (1 ton of CO<sub>2</sub>eq. = 1 allowance) that can be purchased/sold on a specific market (trade). Each industrial operator active in the sectors covered by the scheme must compensate its actual annual emissions with a corresponding quantity of allowances. As requested in the Guidelines, only ETS industries have been considered for the calculation of the baseline.

19 IRETI SpA is a company belonging to the IREN Group that manages the distribution of electricity in Torino's Municipality. See <https://www.ireti.it/home>

20 SNAM is an energy infrastructure company that manages transportation, storage and regasification of natural gas; Italgas is a company specialized in gas distribution.

21 World Resources Institute, C40 Cities Climate Leadership Group and ICLEI – Local Governments for Sustainability (2016) Global Protocol for Community-Scale Greenhouse Gas Inventories. An Accounting and Reporting Standard for Cities V.1.1. [https://ghgprotocol.org/sites/default/files/standards/GPC\\_Full\\_MASTER\\_RW\\_v7.pdf](https://ghgprotocol.org/sites/default/files/standards/GPC_Full_MASTER_RW_v7.pdf)

22 Scope 1 accounts for direct consumption and emissions within the metropolitan boundaries; Scope 2 accounts for indirect consumption and emissions related to electricity and heating supply within the metropolitan boundaries; finally, Scope 3 accounts for energy consumption and emissions outside the metropolitan boundaries as a result of activities within the administrative boundaries.

datasets in different data sources. Contextually, data validation algorithms are developed – aiming to test the data's consistency and make any anomalies apparent to the users. Data are then validated and polished, when necessary, through dedicated software. The objective is the creation of an "Energy & Transition DataBase" of Torino – relational, integrated, and multi-domain – that allows data to be hosted on dedicated servers, validated, and made available for consultation or as input to both the models for scenario and impact assessment analyses and to the tracking of the evolutionary trajectory of the urban system. A prototype database version is already available and will be further developed.

In this framework, a "Torino's Energy & Transition Data Room" and visualization center (intended as a "research mirror" for hosting a copy of all the most relevant data of the city), which will be hosted at the EST@energycenter Lab of the Politecnico di Torino, has been designed and is currently in the implementation phase, with specific hardware and software equipment and 24-hour dedicated servers (for online calculation, database management, pre-and post-calculation support, visualization). In this perspective, the data lakehouse approach is coupled with the distributed database approach, which allows for higher resilience (since data are not stored on a single physical machine but distributed across multiple nodes physically located in different machines and replicated in such a way as to ensure redundancy) and performances (as through proper load balancers it is possible to balance the workload between different servers, even in the presence of numerous simultaneous queries) in comparison with traditional databases. This infrastructure will be based on a hyper-converged cluster and a distributed architecture with five nodes (and three copies of all the data distributed on these nodes).

### Macro-action approach and catalog of the actions

The setting up of a data lakehouse and the calculation of the Baseline is preparatory to the definition of the actions to be implemented for reaching the 2030 decarbonization goal: for each sector and subsector, one or more macro-actions were defined.

The Action Plan for the Climate City Contract for Torino defines a set of 30 macro-actions (See Section 4, Part B). Macro-actions constitute both conceptual and operational scaffolding. Conceiving a strategy for decarbonizing the city implies an integrated and cross-sectoral vision of all macro-areas, sectors, and scopes

covered by the Baseline. This synoptic vision aims to identify the different types of interventions possible in each industry, assessing their potential impact on the city in quantitative (GHG reduction) and qualitative (co-benefits) terms. This approach makes it possible to define macro-areas of intervention, thus setting strategies and defining policies to achieve the city's 2030 target.

They are not punctual interventions, with limited application area (e.g., a single building, a small stock of public vehicles) and limited impacts on GHG emissions reduction. Instead, they are intended as a broader taxonomy of actions (e.g., heat pumps, PV systems) targeting macro-areas and sectors (e.g., buildings, transport, lighting) – able to impact the overall urban system significantly and leading to relevant effects on the emission inventory of Torino. These wide-scale actions thus represent the general reference framework in which all the already ongoing/planned policies and the possible future interventions must be collocated.

Along the macro-actions, different sets of micro-actions targeting punctual elements of the sectors (e.g., a single municipal building, a school) have also been considered concerning the macro-area they belong to exemplify the macro-actions and account for the already implemented activities for sustainability.

### Models and algorithm for impact assessment

For the different macro-actions, ad hoc in-house models were developed and documented to quantify – before and after the implementation of each action – the impact in terms of energy commodity consumption and GHG emissions associated with the consumption of the various commodities. The mathematical functions implementing the models are formalized and implemented through scripts coded in Python, translating the algorithms and JSON files to define their parameters.

The functions are then incorporated into the CLICC IT platform – which can elaborate the simultaneous combination of different types of actions for the estimation of their impacts in terms of GHG emissions avoided and the assessment of the related costs, providing a pre-compiled template for the documents (i.e., commitment, action and investment plans of the CCC).

### **Development of an ad hoc IT platform for CCC definition and formalization in the framework of a more general digital twin tool for the city**

For supporting the definition and drafting phases of the CCC, the CLICC platform was specifically designed and implemented to quantitatively assess the impacts of actions and pathways in terms of GHG emission reduction and the related costs, allowing the City decision-makers to test in silico, interactively, different policy options and identifying the combination of them that mainly fits with their strategies for reaching the climate neutrality.

The CLICC platform is the initial stepping stone of a broader strategic framework in which Torino is developing a digital twin of the city (currently under construction), intended to: ① provide a comprehensive and synoptic view of the urban system ② elaborate integrated multi-level and multi-sector urban models – comprising environmental models, models of the city building stock, transport models, models of urban energy infrastructures, models of waste treatment and circular economy and including stakeholders/social interactions and behavioral models; ③ assessing, in a multidimensional way, the impacts of the possible energy transition pathways of the city.

The CLICC platform is able to explore different "what if?" scenario analyses and impact assessments of diverse implementable sustainability pathways and track the system's evolution concerning the set targets.

Through a continuous interaction between the Municipality and the EST@energycenter Lab, the IT tool is translated in a user-friendly interface: a web platform supporting the policy decision-maker in exploring and comparing different strategies and policies related to the definition of the CCC and to the quantitative tracking of evolution along time the city system with respect to the set sustainability goals – selecting the preferred one based on his/her preferences in a user-friendly environment.

Furthermore, once defined the set of actions and the pathway, the platform allows for an automatic complying of the various sections of the CCC itself.

The CLICC platform is intended for several types of users: technical staff, in charge of the system management and operation; officers and administrators of the City, which can access to and exploit all the functions of the platform; utilities, which can create and test a

set of own actions; citizens, which can access to general evolutive tracking of the urban system towards the transition goals.

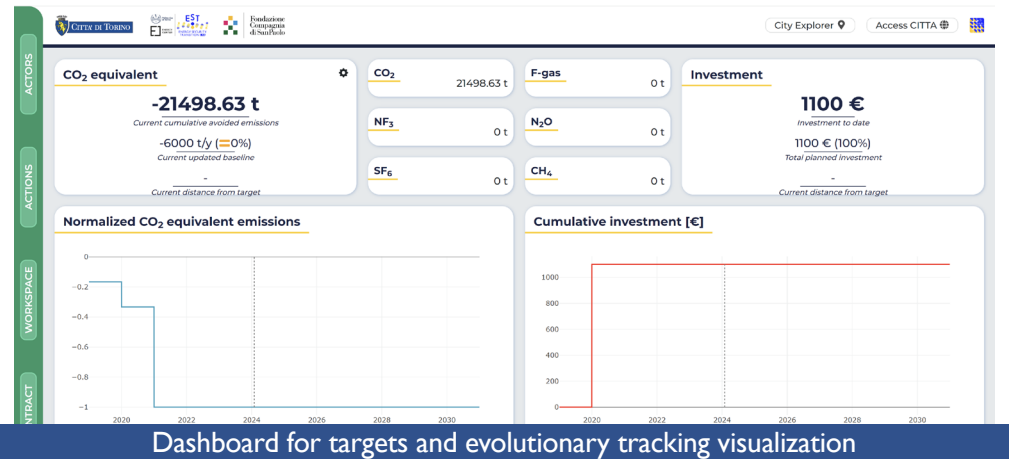


Accessibility to d Online ifferent types of users with login credential

#	Action name	Period	Macro Area	Sector	Actor name	Action type	Investment	CO2 eq. avoided
64	TEST GROUP ACTION 3	2019-01-01 - 2019-12-31				DE (0%)	1.000 (0%) (3.38%)	
63	TEST GROUP ACTION 2	2020-01-01 - 2020-12-31				DE (0%)	1.000€ (100%)	2.000 (0%) (2.75%)
62	TEST GROUP ACTION 1	2023-01-01 - //				DE (0%)		8.000 (0%) (8.25%)
61	[F33-Sol Treatment] Trattamento del so...	2019-01-01 - //	AFOLU			DE (0%)	0 (0%)	0 (0%) (0%)
60	[F32-Green Roof] Sviluppo di aree ver...	2019-01-01 - //	AFOLU			DE (0%)	0 (0%)	0 (0%) (0%)
59	[F31-Planted Trees] Aumento di alberi p...	2019-01-01 - //	AFOLU			DE (0%)	0 (0%)	0 (0%) (0%)
58	[F30-Wastewater Treatment] Copertura...	2019-01-01 - //	Waste	Trattamento acque reflue		DE (0%)	0 (0%)	0 (0%) (0%)
57	[F29-Waste Treatment] Riduzione gene...	2019-01-01 - //	Waste	Trattamento rifiuti differenziati		DE (0%)	0 (0%)	0 (0%) (0%)
56	[F28-Landfill Reducti] Insediamento ver...	2019-01-01 - //	Waste	Emissioni metano discarica		DE (0%)	0 (0%)	0 (0%) (0%)
55	[F28-Metro L2] Realizzazione della linea	2019-01-01 - //	Transport	Trasporto pubblico		DE (0%)	0 (0%)	0 (0%) (0%)
54	[F27-GTT Bus Renewal] Rinnovo linea	2019-01-01 - //	Transport	Trasporto pubblico		DE (0%)	0 (0%)	0 (0%) (0%)
53	[F26-Carsharing Promotion] Politiche di...	2019-01-01 - //	Transport	Trasporto privato		DE (0%)	0 (0%)	0 (0%) (0%)
52	[F25-Bicycle Promotion] Promozione di...	2019-01-01 - //	Transport	Trasporto privato		DE (0%)	0 (0%)	0 (0%) (0%)
51	[F24-Electrification Private Cars] Sostit...	2019-01-01 - //	Transport	Trasporto privato		DE (0%)	0 (0%)	0 (0%) (0%)
50	[F23-Ticket Pricing] Creazione di aree co...	2019-01-01 - //	Transport	Trasporto privato		DE (0%)	0 (0%)	0 (0%) (0%)
49	[F22-LEV Zones] Estensione e creazione c...	2019-01-01 - //	Transport	Trasporto privato		DE (0%)	0 (0%)	0 (0%) (0%)
48	[F21-Municipal Vehicles] Sostituzione ve...	2019-01-01 - //	Transport	Veicoli comunali		DE (0%)	0 (0%)	0 (0%) (0%)
47	[F16-PS16 Public Lighting] Illuminazione p...	2019-01-01 - //	Stationary Energy	Illuminazione		DE (0%)	0 (0%)	0 (0%) (0%)
46	[F15-CCS Waste Appl] Applicazione CC...	2019-01-01 - //	Stationary Energy	Termovalorizzatore		DE (0%)	0 (0%)	0 (0%) (0%)
45	[F14-Waste Reduction] Riduzione rifiu...	2019-01-01 - //	Stationary Energy	Termovalorizzatore		DE (0%)	0 (0%)	0 (0%) (0%)
44	[F13-Industrial Processes] Efficienza en...	2019-01-01 - //	Stationary Energy	Industriale		DE (0%)	0 (0%)	0 (0%) (0%)
43	[F13-Optimize Energy District] Politiche...	2019-01-01 - //	Stationary Energy	Industriale		DE (0%)	0 (0%)	0 (0%) (0%)
42	[F13-Optimize Energy District] Politiche...	2019-01-01 - //	Stationary Energy	Industriale		DE (0%)	0 (0%)	0 (0%) (0%)
41	[F13-Optimize Energy District] Politiche...	2019-01-01 - //	Stationary Energy	Industriale		DE (0%)	0 (0%)	0 (0%) (0%)

List of all the actions for CO<sub>2</sub> reduction in the city and creation of pathways with computation of emissions reduction and related cost

44

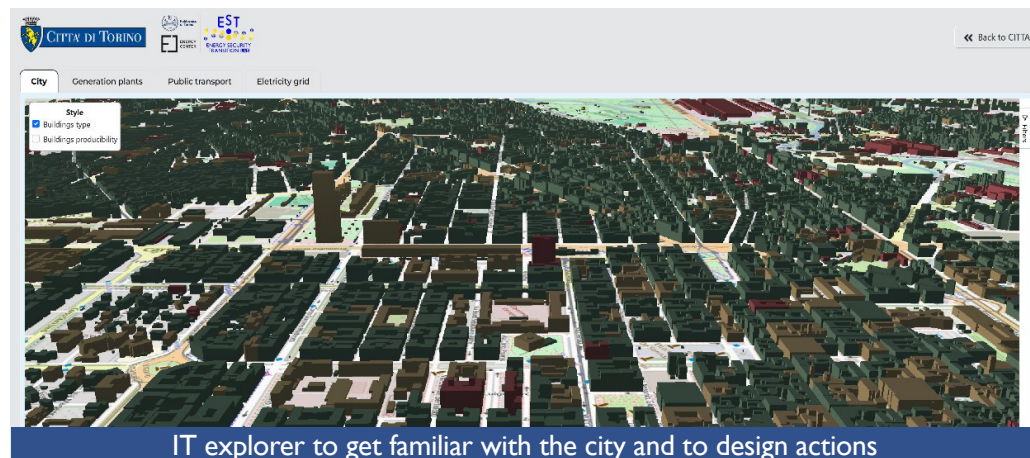


Dashboard for targets and evolutionary tracking visualization

45

Identificator	Description	Area	Riscaldamento	Ergo
16259	residenziale non com...	120.252		
16260	servizi - situazione	318.477		
16262	residenziale	103.259		
16269	commerciale - terziario	43.641.2		
16275	residenziale	71.890		
16279	residenziale industriali	31.257		
16289	servizi - sede di cop...	107.205		
16290	servizi - sede di cop...	107.249		
16292	servizi - sede di cop...	82.248		
16298	residenziale	436.539		
16307	residenziale	395.958		
16312	residenziale	158.871		
16313	residenziale	45.678		
16318	servizio pubblico	1402.89		
16322	residenziale	134.876		
16316	residenziale	32.495		

Open environment to easily include existing and new actions with ad hoc mathematical models coded in Python/Julia language (no simple .xlsx files)



IT explorer to get familiar with the city and to design actions

(Please fill out according to the Action Plan Guidance)

## 2 Work Process

This section should list the working steps carried out, for example along the NZC Climate Transition Map, or related steps planned as well as outline timeline and milestones for future iterations for the continuous development of the Action Plan.

**Work Process - combination of textual and visual elements**

(Please fill out according to the Action Plan Guidance)

## 3 Part A – Current State of Climate Action

Part A "Current State of Climate Action" describes the point of departure of the city towards climate neutrality, including commitments and strategies of key local businesses, and informs the subsequent modules and the outlined pathways to accelerated climate action.

### 3.1 Module A-1 Greenhouse Gas Emissions Baseline Inventory

Module A-1 "Greenhouse Gas Emissions Baseline Inventory" should detail and describe the city's latest GHG inventory to establish the emission baseline and to establish the emissions

Automatic filling of the CCC documents (Commitments, Action Plan, Investment Plan)

Fig. 2.3 - Functioning of the CLICC IT Platform

## 3. PART A

### The starting point for Torino: current state of emissions and climate actions

## 3.1 Module A-I : Greenhouse Gas Emissions Baseline Inventory

As mentioned in Section 2, the division of the Baseline into Scopes, Macro-areas and sectors follows the guidelines developed by the Global Protocol for Community-Scale Greenhouse Gas Inventories. The categorization into Scope 1, Scope 2 and Scope 3 refers to the geographical location of energy consumption and emissions, using the administrative boundaries of the city as a reference. Scope 1 accounts for direct consumption and emissions related to fuels and other energy sources within the city boundaries; Scope 2 accounts for indirect consumption and emissions related to electricity and heating supply within the city boundaries; finally, Scope 3 accounts for energy consumption and emissions that occur outside the city boundaries as a result of activities within the administrative boundaries.

In particular, the following macro-areas and subsectors have been considered (see Figure 3.1.1):

- ① Stationary energy (sectors: residential buildings, tertiary buildings, industrial buildings and municipal buildings, industrial processes, waste-to-energy plant and public lighting)<sup>23</sup>
- ② Transport (sectors: municipal vehicles, private transport and public transport)
- ③ Waste (sectors: landfill, waste and wastewater treatment systems)
- ④ Industrial Processes and Product Use (IPPU)
- ⑤ Agriculture, Forestry and Other Land Use (AFOLU)

<sup>23</sup> Henceforth, in the text, we will refer to the different sectors for brevity without repeating the word "buildings".

<sup>24</sup> See <https://www.gruppoinen.it/it/i-nostri-servizi/produzione-energia/impianti-di-cogenerazione.html>



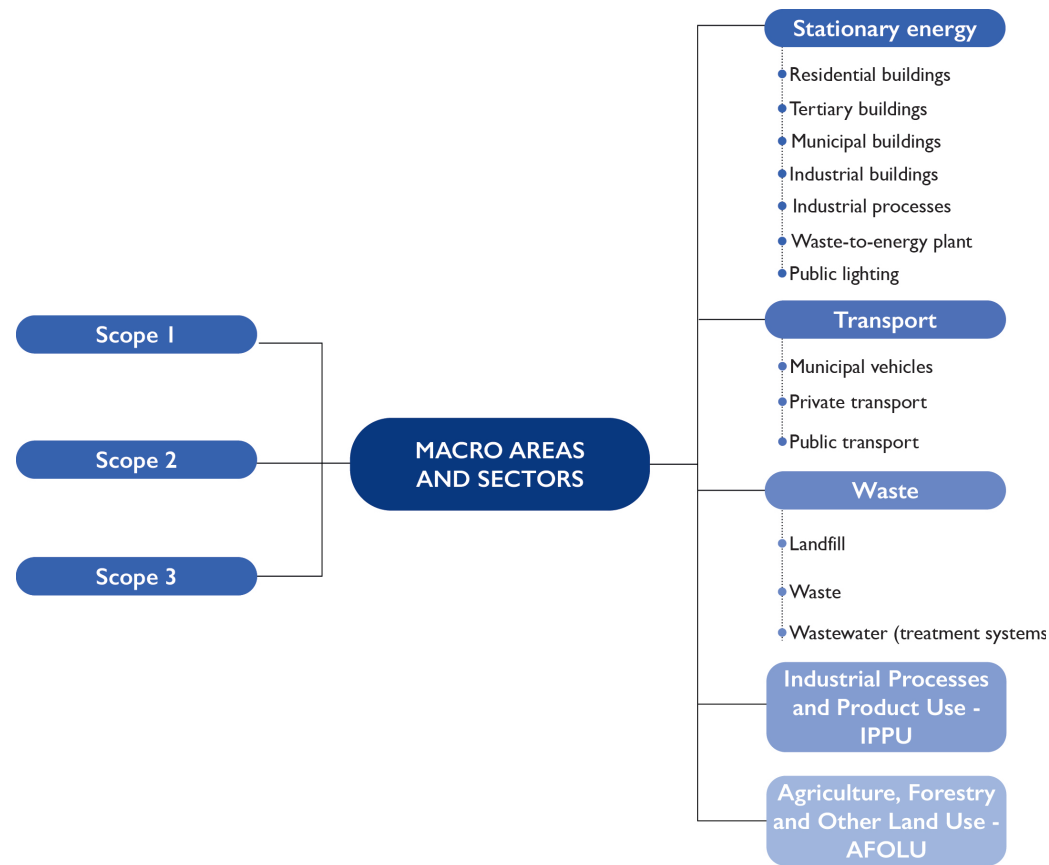


Figure 3.1.1 - Division in Macro-areas and Sectors

In the definition of the Baseline some assumptions have been adopted, for some specific subsectors, in computing the CO<sub>2</sub> emissions:

**A1) Electricity generation and Waste-to-Energy (WtE) Power Plant:** In the Città di Torino, the power station “Centrale Torino Nord”<sup>24</sup> (which is an ETS plant), operated by the multi-utility company Iren and connected to the urban district heating network, is the prevailing source of GHG emissions related to the electricity and thermal energy generation within the city’s boundaries. In any case, according to the *EU Mission Info Kit for Cities and the Global Protocol for Community-Scale Greenhouse Gas Inventories V.1.1* all the emissions related to the consumption of electricity and heat for district heating are accounted under the Scope 2.

Consistent with the *Global Protocol for Community-Scale Greenhouse Gas Inventories V.1.1*,<sup>25</sup> the emissions from waste-to-energy were accounted for in the Stationary Energy macro-area. The emission data of the waste-to-energy plant were obtained through the data indicated in 2022 Environmental Statement of the Torino Gerbido Waste-to-energy Plant<sup>26</sup>, reduced in order to consider an average percentage of biogenic carbon of 60%.<sup>27,28</sup> This emission factor was applied to the data of urban waste flows of 2019 provided by ISPRA (Istituto Superiore per la Sostenibilità Ambientale - Institute for Environmental Sustainability),<sup>29</sup> AMIAT (Azienda Multiservizi Igiene Ambientale Torino - Multiservice Company Environmental Hygiene Torino),<sup>30</sup> Città Metropolitana di Torino and ATOR (Associazione d’Ambito Torinese per il Governo dei Rifiuti - Torino Area Association for Waste Management).<sup>31</sup>

**A2) Industrial Sector:** The emissions and consumption of the industrial sector have been included in the macro-area “Stationary Energy”. This is also in coherence with Deliverable 2.5 “Identified climate impact indicators based on existing indicators review” of the NetZeroCities project, which reports within the definition of “Stationary Energy”, the entry “Energy industries: All emissions from energy production and energy use in energy industries”.

According to the European Commission, contributions from industrial sectors that fall under the ETS are not considered; only those from non-ETS industries are relevant in the balance. The TAPE, which is based on data retrieved from the “IoComune” portal, is the main source of information on consumption and

25 World Resources Institute, C40 Cities Climate Leadership Group and ICLEI – Local Governments for Sustainability (2016) Global Protocol for Community-Scale Greenhouse Gas Inventories. An Accounting and Reporting Standard for Cities V.1.1. [https://ghgprotocol.org/sites/default/files/standards/GPC\\_Full\\_MASTER\\_RW\\_v7.pdf](https://ghgprotocol.org/sites/default/files/standards/GPC_Full_MASTER_RW_v7.pdf)

26 Torino Gerbido Waste-to-Energy Plant (2022) Environmental Statement.

27 JRC (2019) Best Available Techniques (BAT) Reference Document for Waste Incineration. [https://eippcb.jrc.ec.europa.eu/sites/default/files/2020-01/JRC118637\\_WI\\_Bref\\_2019\\_published\\_0.pdf](https://eippcb.jrc.ec.europa.eu/sites/default/files/2020-01/JRC118637_WI_Bref_2019_published_0.pdf)

28 IFEU, Tool for calculating Greenhouse Gases (GHG) in Solid Waste Management (SWM). See <https://www.ifeu.de/en/project/tool-for-calculating-greenhouse-gases-ghg-in-solid-waste-management-swm>

29 See <https://www.catasto-rifiuti.isprambiente.it/index.rino&cerca=cerca&&p=1>

30 AMIAT S.p.a. is a company controlled by the Iren Group that manages soil hygiene, waste collection and disposal services. See <https://www.amiat.it>

emissions of electricity and natural gas for the industrial sector classified as non-ETS.

**A3) Waste sector:** The waste sector is not included in the PAESC and TAPE reports, but is required when defining the Baseline. For the calculation of the Baseline, emissions related to the Basse di Stura landfill were therefore considered.<sup>32</sup>

The Basse di Stura controlled burial landfill plant covers an area of nearly one million square meters, with a total volume of nearly 20 m<sup>3</sup>; It is “the first Italian landfill equipped with an environmental management system with UNI EN ISO 14001:2004 certification, considered among the most advanced in Italy and Europe for the treatment and disposal of undifferentiated waste”.<sup>33</sup>

The Basse di Stura landfill is divided into two parts: the Old Landfill, whose contribution began in 1947 and continued until 1981, and the New Landfill, which was authorized in December 1979 and ceased in 2010; in 2010, the “post-mortem” management of the site began, which led to the total environmental recovery of the area through both the planting of the vegetation cover (turf) of the site and the creation of tree barriers around the perimeter of the site to mitigate the visual impact of the plant, and the “securing of the old landfill, already converted into a green area (Marmorina Park), which had been in operation from the post-war period until the 1980s and was only partially waterproofed”.<sup>34</sup>

Today, the unsorted waste collected by AMIAT (the company that provides integrated management of soil hygiene, waste collection and disposal services in the Città di Torino) within the perimeter of the Città di Torino is directed to the metropolitan waste-to-energy plant.

Referring to the waste treatment, the quantity of sorted waste produced by the Città di Torino in 2019 was identified in accordance with AMIAT's guidelines.<sup>35</sup> Thanks to the “Waste Management Status Report”,<sup>36</sup> it was possible to identify the waste processed within the city limits (included in Scope 1) and outside of it (included in Scope 3). The emission factors applied are in line with IFEU's recommendations.<sup>37</sup>

The emissions associated with wastewater were instead calculated by applying a proportion based on the population of Torino, using the values reported in SMAT's 2020 Sustainability Report.<sup>38,39,40</sup> As the city's wastewater is treated outside its municipal boundaries, these emissions have been categorized

within Scope 3.

**A4) IPPU and AFOLU:** The sector IPPU only includes the uses of commodities not related to energy. It has to report “Emissions from GHGs used in, or as a by-product of industrial processes and products (if present / significant)”, while the AFOLU sector should report “Changes in GHG emissions from any changes in land use giving rise to (sources) or sequestering (sinks) emissions (if significant)”.

Emissions associated with the IPPU and AFOLU sectors have been neglected, in the framework of the Baseline calculation. In fact, besides the absence of reliable data, for what concerns the IPPU sector, within the boundary of the city there are no major industries that chemically or physically transform materials releasing significant amount of GHGs, while for what concerns the AFOLU sector, the emissions can be considered negligible due to the absence of any crop and livestock agriculture activity in Torino.

The AFOLU sector, although negligible in terms of emissions, is nevertheless particularly important with regard to CO<sub>2</sub> sinks (associated with urban forestation and greenery), as it is in this sector that these negative contributions should be accounted for.

Emissions associated with biomass consumption have always been assumed to be zero – i.e., assuming that all biomass used is certified.

The following **Table A-1.1** shows the energy consumption by commodity (expressed in MWh/year) calculated for Scopes, Macro-areas, Sectors and Sub-sectors.

36 Osservatorio  
Metropolitano Rifiuti,  
ATO-Rifiuti Torinese  
(2020) Rapporto  
sullo stato del sistema  
di gestione rifiuti,  
Novembre 2020.

[http://www.cittametropolitana.torino.it/cms/risorse/ambiente/dwd/rifiuti/Osservatorio\\_rifiuti/Rapporto\\_rifiuti\\_2020/RapportoRifiuti2020.pdf](http://www.cittametropolitana.torino.it/cms/risorse/ambiente/dwd/rifiuti/Osservatorio_rifiuti/Rapporto_rifiuti_2020/RapportoRifiuti2020.pdf)

37 IFEU, Tool for calculating Greenhouse Gases (GHG) in Solid Waste Management (SWM). See <https://www.ifeu.de/en/project/tool-for-calculating-greenhouse-gases-ghg-in-solid-waste-management-swm>

38 SMAT (2020) Bilancio di sostenibilità. Responsabilità economica, sociale e ambientale. [https://www.smatorino.it/wp-content/uploads/2021/07/Sostenibilita\\_Completo.pdf](https://www.smatorino.it/wp-content/uploads/2021/07/Sostenibilita_Completo.pdf)

39 ISTAT (2019) Censimenti Permanenti Popolazione e Abitazioni. Capoluoghi delle Città Metropolitane: Torino. <https://www.istat.it/it/files/2021/11/TORINO-infografica.pdf>

40 SMAT, La depurazione delle acque reflue urbane. [https://www.smatorino.it/wp-content/uploads/2018/09/quaderno\\_depurazione.pdf](https://www.smatorino.it/wp-content/uploads/2018/09/quaderno_depurazione.pdf)

Table A-1.1 Final energy use by source sector

Macro-area		Energy Consumption [MWh/year]											"Total Energy Consumption [MWh/y]"	
		SCOPE 1						SCOPE 2		SCOPE 3				
		Natural gas	GPL	Fuel Oil	Diesel	Gasoline	Biomass	Solar Thermal	Municipal Solid Waste	Electricity	Heat for district heating	Municipal Solid Waste		
Sector	Sub-sector													
STATIONARY ENERGY	Municipal	Municipal buildings	89,807	-	-	-	-	-	-	-	55,592	140,062	-	285,461
		Public lighting	-	-	-	-	-	-	-	-	59,200	-	-	59,200
	Residential	-	1,424,218	13,636	19,201	-	-	22,702	2,466	-	856,616	1,279,118	-	3,617,957
	Tertiary	-	942,040	-	-	-	-	806	667	-	1,126,551	361,745	-	2,431,809
	Industrial	Non-ETS	1,344,411	-	-	-	-	-	-	-	237,310	-	-	1,581,721
	Waste-to-Energy	-	-	-	-	-	-	-	-	-	-	-	-	-
TRANSPORT	Municipal vehicles	Moped	-	-	-	-	7	-	-	-	-	-	-	7
		Motorcycles	-	-	-	-	66	-	-	-	-	-	-	66
		Passenger motor vehicles	461	125	-	680	1,319	-	-	-	9	-	-	2,594
		Trucks GVW < 3500 kg	43	-	-	213	93	-	-	-	18	-	-	367
		Trucks 3500 kg < GVW < 12000 kg	-	-	-	11	-	-	-	-	-	-	-	11
		Trucks GVW > 12000 kg	-	-	-	4	-	-	-	-	-	-	-	4
	Private transport	Passenger cars	34,265	150,949	-	492,399	859,809	-	-	-	276	-	-	1,537,698
		Motorcycles	-	-	-	-	92,574	-	-	-	4	-	-	92,578
		Industrial vehicles	18,784	12,477	-	564,214	24,226	-	-	-	567	-	-	620,268
		Buses (excluding GTT city buses)	-	-	-	31,859	580	-	-	-	-	-	-	32,439
	Public transport	Tramway	-	-	-	-	-	-	-	-	26,107	-	-	26,107
		GTT rail network	-	-	-	-	-	-	-	-	1,380	-	-	1,380
		Trenitalia rail network	-	-	-	-	-	-	-	-	4,139	-	-	4,139
		Metro	-	-	-	-	-	-	-	-	16,471	-	-	16,471
Urban vehicles		61,805	-	-	107,273	-	-	-	-	-	-	-	169,078	
<b>TOTAL</b>		<b>3,915,833</b>	<b>77,187</b>	<b>19,201</b>	<b>1,196,653</b>	<b>978,674</b>	<b>23,508</b>	<b>3,133</b>	<b>-</b>	<b>2,384,240</b>	<b>1,780,925</b>	<b>-</b>	<b>10,479,355</b>	

52

53

**Summary of energy consumption by Scopes and Sectors.** With regard to Scopes 1 and 2, the most relevant energy consumption belongs to the Stationary Energy macro-area and involves the residential sector (3,617,957 MWh/y, i.e., 34.5% of the total), followed by the tertiary sector (2,431,809 MWh/y, 23.2% of the total) and the non-ETS industrial sector (1,581,721 MWh/y, 15.1% of the total). The whole Stationary Energy macro-area accounts for 76.1% of the total final energy consumption of Torino in 2019.

Another macro-sector that significantly affects the overall energy consumption is private transport (21.8% of the total), mainly due to passenger cars (1,537,698 MWh/y) and industrial vehicles (620,268 MWh/y); as far as public transport is concerned, urban vehicles (169,078 MWh/y) have the greatest impact. The whole public transport, however, is responsible for just 1.8% of the overall energy consumption of the city.

The energy commodities utilized in wastewater treatment, waste treatment, and waste-to-energy processes are excluded from this table. This omission is due to their inclusion in the emission factors used to assess emissions within the waste sector. Specifically, the adopted methodology integrates emissions associated with energy commodity consumption (such as diesel and electricity) into the treatment processes for various types of waste. This approach aims to prevent double counting; hence energy commodity consumption is not separately listed here.

Moreover, the energy consumption in the IPPU and AFOLU sectors are not accounted for in the calculation. In fact, as previously mentioned, there are no relevant industries that chemically or physically transform materials releasing GHGs nor agricultural activities within the urban perimeter; only the absorption of emissions from urban green areas - including parks, trees, green areas and hilly green areas - is taken into account, but this does not affect the energy consumption.

**Summary of consumption by commodity.** In the residential sector, consumption related to heat for district heating (1,279,118 MWh/y, i.e., 35.4% of the total energy consumption of the sector) and natural gas (1,424,218 MWh/y, 39.4% of the sectorial total) are the most important ones, followed by electricity (856,616 MWh/y, 23.7% of the sectorial total). For the tertiary sector, the most relevant commodities are electricity (1,126,551 MWh/y, 46.3% of the sectorial total) and natural gas (942,040 MWh/y, 38.7% of the sectorial total). For the non-ETS industrial sector, a

major role is played by natural gas (1,344,411 MWh/y, 85% of the sectorial total).

In the private transport sector, as expected, the commodities with the greatest impact in terms of consumption are gasoline for passenger cars (859,809 MWh/y, 55.9% of the sectorial total) and diesel from industrial vehicles (492,399 MWh/y, 91.0% of the sectorial total). In 2019 the electrification of private transport was still negligible.

**Overall consumption balance.** The largest consumption results from the use of natural gas (3,915,833 MWh/y, 37.4% of the total), electricity (2,384,240 MWh/y, 22.8% of the total), heat for district heating network (1,780,925 MWh/y) and refined petroleum products (2,371,715 MWh/y, 22.6% of the total).

The energy consumption in 2019 by scope, macro-area and sector is graphically represented in the following Figures 3.1.2 and 3.1.3.

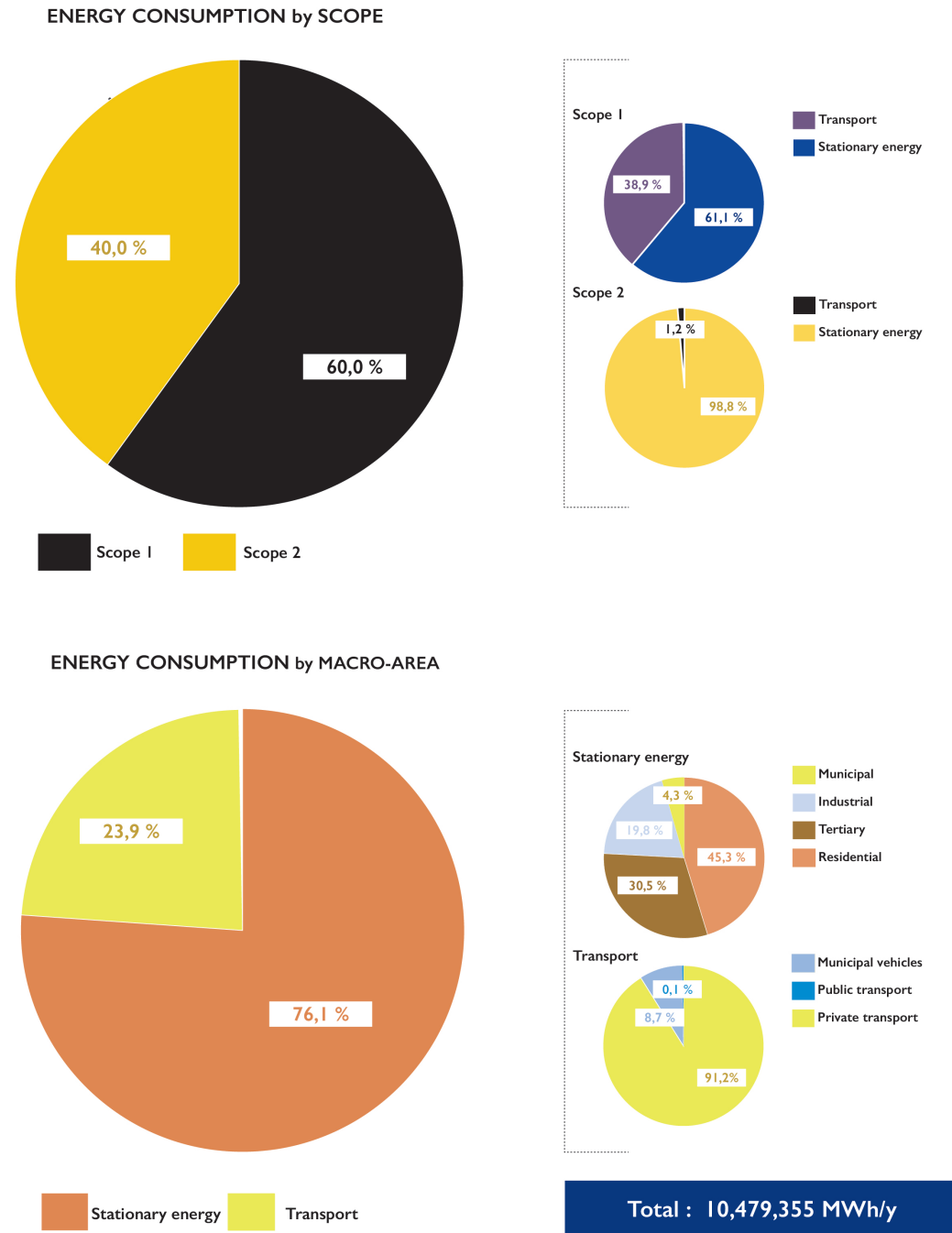


Figure 3.1.2 – Energy consumption by scope and macro-area

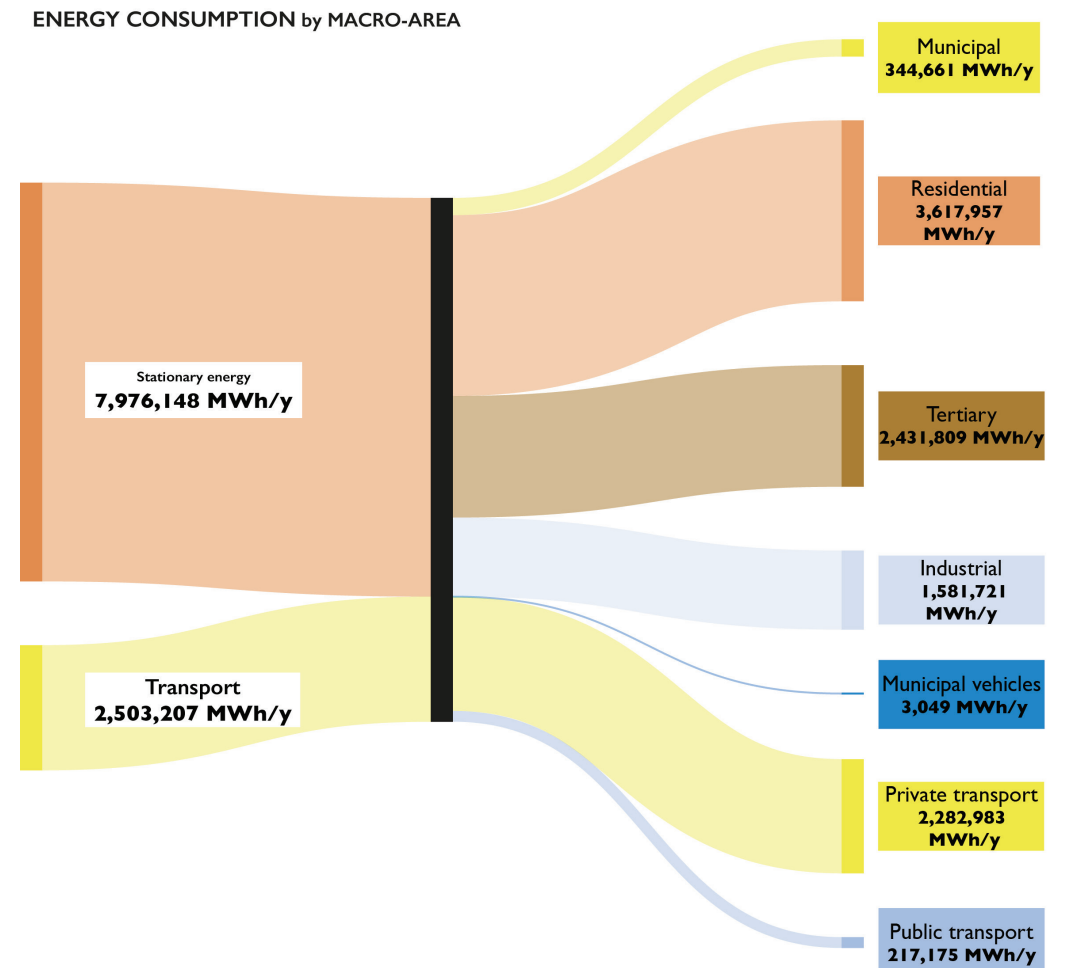


Figure 3.1.3 – Energy consumption by sectors and sub-sectors (MWh/y)

Table A-1.2 shows the Emission Factors used to define the Baseline of CO<sub>2</sub> emissions. In adherence to what is reported in the PAESC, in order to calculate the municipal emissions balance, the determination of the Emission Factors considered different sources: the 2006 IPCC – Intergovernmental Panel on Climate Change Guidelines for National Greenhouse Gas Inventories<sup>41</sup> were integrated with the data provided by ISPRA and Iren Energia (in the reworking provided by the PAESC).

**Table A-1.2 – Emission factors by commodity**

	<b>Emission Factor</b>	<b>Unit of Measure</b>	<b>Sources</b>
Electricity	0,245	tCO <sub>2</sub> /MWh	ISPRA, re-elaboration of PAESC
District Heating	0,161	tCO <sub>2</sub> /MWh	Iren, re-elaboration of PAESC
Natural Gas	0,202	tCO <sub>2</sub> /MWh	IPCC 2006
GPL	0,231	tCO <sub>2</sub> /MWh	IPCC 2006
Fuel oil	0,279	tCO <sub>2</sub> /MWh	IPCC 2006
Diesel	0,267	tCO <sub>2</sub> /MWh	IPCC 2006
Gasoline	0,249	tCO <sub>2</sub> /MWh	IPCC 2006
Renewable sources	0	tCO <sub>2</sub> /MWh	IPCC 2006
Paper treatment	0.180	tCO <sub>2</sub> eq/twaste	IFEU, SWM-GHG Calculator
Glass treatment	0.020	tCO <sub>2</sub> eq/twaste	IFEU, SWM-GHG Calculator
Aluminum treatment	0.850	tCO <sub>2</sub> eq/twaste	IFEU, SWM-GHG Calculator
Plastic treatment	0.550	tCO <sub>2</sub> eq/twaste	IFEU, SWM-GHG Calculator
Green waste composting	0.192	tCO <sub>2</sub> eq/twaste	IFEU, SWM-GHG Calculator
Organic waste anaerobic digestion	0.033	tCO <sub>2</sub> eq/twaste	IFEU, SWM-GHG Calculator
Metals treatment	0.022	tCO <sub>2</sub> eq/twaste	IFEU, SWM-GHG Calculator
Waste-to-energy plant	0.434	tCO <sub>2</sub> eq/twaste	TRM Torino Plant, Environmental Declaration
Wastewater treatment	0.131	kgCO <sub>2</sub> eq/m <sup>3</sup>	SMAT, Bilancio di sostenibilità 2020

The analysis of the activity sectors included in the emissions inventory (with the exception of the IPPU and AFOLU sectors) and the associated GHG emissions has maintained an approach based mainly on the calculation of CO<sub>2</sub> alone, with the exception of the Waste macro-area, because the significance of the other main GHGs (CH<sub>4</sub> and N<sub>2</sub>O) in the sectors considered is not relevant and no specific measures for their reduction are planned.

In the Waste macro-area, instead, CO<sub>2</sub> equivalent emissions have been considered, as waste treatment processes involve significant greenhouse gas emissions other than CO<sub>2</sub>, such as methane and nitrous oxide; considering, for example, anaerobic digestion and composting, the emissions of CH<sub>4</sub> (methane) and N<sub>2</sub>O (nitrous oxide) are relevant, especially by taking into account their Global Warming Potential<sup>42</sup> per 100 years of 27.2 and 273 respectively (2006 IPCC Guidelines).

For what concerns the waste sector, the emissions related to the sorted waste (paper, glass, aluminum, plastic, green waste, organic waste, metals) treated in Torino, which in 2019 overall amounted to 208,736 t/y<sup>43</sup> and the emissions related to the treatment of wastewater (accounting to 120.25 Mm<sup>3</sup>/y).

Moreover, the emission data of the waste-to-energy plant were obtained through the data indicated in 2022 Environmental Statement of the Torino Gerbido Waste-to-energy Plant<sup>44</sup>, reduced in order to consider a mean percentage of biogenic carbon of 60%<sup>45,46</sup>. This emission factor was applied to the urban unsorted waste flow of 2019 equal to 229,020 t/y, provided by ISPRA, AMIAT, Città Metropolitana di Torino and ATOR.<sup>47,48,49</sup>

With regard to electricity consumption and district heating, a local emission factor was defined, calculated according to the methodology defined in the PAESC Guidelines.

The local emission factor associated with the heat distributed by the city's district heating network was calculated from the data reported in the environmental declarations of the relevant power stations (IREN Torino Nord power station and IREN Moncalieri power station).

With regard to the FENEE factor (national emission factor for electricity), in line with what is indicated by the Covenant of Mayors guidelines, the national one proposed by the Istituto superiore per la protezione e la ricerca ambientale (ISPRA - Superior Institute for Environmental Protection and Re-search) was used instead of the IPCC one.

**Assumption on the emissions calculation**

Table A-1.3 shows the Baseline CO<sub>2</sub> emissions (in terms of tonnes of CO<sub>2</sub> per year) calculated for Scopes, Macro-areas, Sectors and Subsectors; emissions of the remaining GHG were considered negligible, as their impact on the total balance is limited. A quantitative assessment of their contribution will be

41 IPCC National Greenhouse Gas Inventories Programme (2006) 2006 IPCC Guidelines for National Greenhouse Gas Inventories.

<https://www.ipcc-nggip.iges.or.jp/public/2006gl/>

42 The Global Warming Potential is a measure of how much energy the emissions of 1 t of a gas will absorb over a given period of time, relative to the emissions of 1 t of CO<sub>2</sub>

43 See <https://www.catasto-rifiuti.isprambiente.it/index>.

44 Torino Gerbido Waste-to-Energy Plant (2022) Environmental Statement.

45 JRC (2019) Best Available Techniques (BAT) Reference Document for Waste Incineration. [https://eippcb.jrc.ec.europa.eu/sites/default/files/2020-01/JRC118637\\_WI\\_Bref\\_2019\\_published\\_0.pdf](https://eippcb.jrc.ec.europa.eu/sites/default/files/2020-01/JRC118637_WI_Bref_2019_published_0.pdf)

46 IFEU, Tool for calculating Greenhouse Gases (GHG) in Solid Waste Management (SWM). See <https://www.ifeu.de/en/project/tool-for-calculating-greenhouse-gases-ghg-in-solid-waste-management-swm>

47 See <https://www.catasto-rifiuti.isprambiente.it/c949d8089b0f>

performed in subsequent releases of the CCC.

Emissions associated with the consumption of biomass have been assumed to be zero, i.e., assuming that all biomass used is certified (according to the criteria set out in the "Info Kit" of the "EU Mission: Climate Neutral and Smart Cities" it would be necessary to know whether the biomass considered in the energy balance is certified, and therefore does not contribute to GHG emissions).

48 AMIAT – Azienda  
Multiservizi Igiene  
Ambientale Torino (2019)  
Risultati di Raccolta  
Differenziata a Torino  
al 31 Dicembre 2019.

49 Osservatorio  
Metropolitano Rifiuti,  
ATO-Rifiuti Torinese  
(2020) Rapporto  
sullo stato del sistema  
di gestione rifiuti,  
Novembre 2020.[http://  
www.cittametropolitana.  
torino.it/cms/risorse/  
ambiente/dwd/rifiuti/  
Osservatorio\\_rifiuti/  
Rapporto\\_rifiuti\\_2020/  
RapportoRifiuti2020.pdf](http://www.cittametropolitana.torino.it/cms/risorse/ambiente/dwd/rifiuti/Osservatorio_rifiuti/Rapporto_rifiuti_2020/RapportoRifiuti2020.pdf)  
ts/597091/624016/2019-  
anno-risultati-RD-  
Torino/16f6dda6-947c-  
41ad-9d23-c949d8089b0f

Table A-1.3: GHG emissions by source sectors

Macro-area	Sector	Sub-sector	Emissions per commodity [t/y]										CO <sub>2</sub> Emissions [t/y]		
			SCOPE 1					SCOPE 2		SCOPE 3					
			Natural gas	GPL	Fuel Oil	Diesel	Gasoline	Biomass	Solar Thermal	Municipal Solid Waste	Electricity	Heat for district heating		Municipal Solid Waste	
STATIONARY ENERGY	Municipal	Minicipal buildings	18,141.00									13,620.00	22,550.00		54,311.00
		Public lighting											14,504.00		
	Residential	-	287,692.00	3,150.00	5,357.00			-	-			209,871.00	205,938.00		712,008.00
	Tertiary	-	190,292.00					-	-			276,005.00	58,241.00		524,538.00
	Industrial	Non-ETS	271,571.00									58,141.00			329,712.00
	Waste-to-Energy	-									99,351.00				99,351.00
TRANSPORT	Municipal vehicles	Moped					1.74								1.74
		Motorcycles					16.43								16.43
		Passenger motor vehicles	93.12	28.88		181.56	328.43					2.21			634.19
		Trucks GVW < 3500 kg	8.69			56.87	23.16					4.41			93.12
		Trucks 3500 kg < GVW < 12000 kg				2.94									2.94
		Trucks GVW > 12000 kg				1.07									1.07
	Private transport	Passenger cars	6,921.53	34,869.22		131,470.53	214,092.44					67.62			387,421.34
		Motorcycles					23,050.93					0.98			23,051.91
		Industrial vehicles	3,794.37	2,882.19		150,645.14	6,032.27					138.82			163,492.78
		Buses (excluding GTT city buses)				8,506.35	144.42								8,650.77
	Public transport	Tramway										6,396.22			6,396.22
		GTT rail network										338.10			338.10
		Trenitalia rail network										1,014.06			1,014.06
		Metro										4,035.40			4,035.40
	Urban vehicles	12,484.61			28,641.89									41,126.50	
WASTE	Separate waste treatment	-									4,873.00		18,959.00	23,832.00	
	Waste water treatment	-											15,730.00	15,730.00	
	Landfill	-									21,761.00			21,761.00	
IPPU	-													-	
AFOLU	-	Absorption by urban green												-35,117.00	
<b>TOTAL</b>			<b>790,998.32</b>	<b>40,930.28</b>	<b>5,357.00</b>	<b>319,506.35</b>	<b>243,689.83</b>	<b>-</b>	<b>-</b>	<b>125,985.00</b>	<b>584,138.80</b>	<b>286,729.00</b>	<b>34,689.00</b>	<b>2,396,906.57</b>	

62

63



50 World Resources Institute, C40 Cities Climate Leadership Group and ICLEI – Local Governments for Sustainability (2016) Global Protocol for Community-Scale Greenhouse Gas Inventories. An Accounting and Reporting Standard for Cities V.1.1. [https://ghgprotocol.org/sites/default/files/standards/GPC\\_Full\\_MASTER\\_RW\\_v7.pdf](https://ghgprotocol.org/sites/default/files/standards/GPC_Full_MASTER_RW_v7.pdf)

51 In the emissions related to the Basse di Stura landfill, CH<sub>4</sub> figure is negligible (therefore not counted), while CO<sub>2</sub> figure is reported. See AMIAT (2022) Impianto ad interrimento controllato "Basse di Stura". Stato d'avanzamento attività discarica e attività di gestione del Biogas. Anno 2022. [https://www.amiat.it/s/597091/624022/2022\\_relaz\\_ANNUALE\\_Biogas.pdf/3d1d527e-2b05-4b13-ab4d-64d5202bef23](https://www.amiat.it/s/597091/624022/2022_relaz_ANNUALE_Biogas.pdf/3d1d527e-2b05-4b13-ab4d-64d5202bef23)

52 JRC (2019) Best Available Techniques (BAT) Reference Document for Waste Incineration. [https://eippcb.jrc.ec.europa.eu/sites/default/files/2020-01/JRC118637\\_WI\\_Bref\\_2019\\_published\\_0.pdf/597091/624016/2019-anno-risultati-RD-Torino/16f6dda6-947c-41ad-9d23-c949d8089b0f](https://eippcb.jrc.ec.europa.eu/sites/default/files/2020-01/JRC118637_WI_Bref_2019_published_0.pdf/597091/624016/2019-anno-risultati-RD-Torino/16f6dda6-947c-41ad-9d23-c949d8089b0f)

## Stationary Energy Sector

According to the Global Protocol for Community-Scale Greenhouse Gas Inventories V.1.1,<sup>50</sup> emissions from waste-to-energy were accounted for under "Stationary Energy".

## Waste Sector

According to the CCC guidelines, emissions from waste generated and managed within the city have been accounted for in Scope 1, while Scope 3 includes emissions from waste generated within the city but managed externally.

### Scope 1:

- residual emissions from the Basse di Stura landfill<sup>51</sup>
- to waste from the Città di Torino)
- emissions from sorted waste management within the Città di Torino

### Scope 3:

- emissions from the management of sorted waste produced by the Città di Torino and treated outside the city boundaries
- emissions from wastewater treatment

As stated in the JRC guidelines<sup>52</sup>, the only percentage of carbon to be considered for the calculation of emissions is carbon of fossil origin, which for municipal waste is around 40% of the total. The emission factor of the waste-to-energy plant (measured in the stack) is then multiplied by this percentage, resulting in 2019 emissions of 99,351 tCO<sub>2</sub>/y.

In the Waste macro-area, wastewater emissions were also added, calculated on the basis of the emissions declared by SMAT and considering only the amount of wastewater from the Città di Torino. Emissions have been accounted in Scope 3, due to the fact that the treatment plant is located in Castiglione Torinese, outside the boundaries of the city.

**Summary of emissions by Scope and Sectors.** As far as Scope 1 and 2 are concerned, the largest emissions concern the Stationary Energy macro-area and involve the residential sector (712,008 t/y, i.e. 29.7% of the total CO<sub>2</sub> emissions of the city), followed by the tertiary sector (524,538 t/y, 21.9% of the total) and the non-ETS industrial sector (329,712 t/y 13.8% of the total).

Another macro-sector widely affecting emissions is private

transport, especially with reference to by passenger cars (387,421 t/y 16.2% of the total), industrial vehicles (163,493 t/y, 6.8% of the total); as far as public transport is concerned, urban vehicles account for only 1.7% of the total urban emissions (41,127 t/y).

As previously justified, the IPPU and AFOLU sectors have not been accounted for in terms of emissions. The existing green areas are instead able to absorb 35,117 t/y of CO<sub>2</sub>, corresponding to 1.5% of the total.

## Summary of CO<sub>2</sub> emissions by commodity and by sector (t/y).

In the residential sector, emissions related to natural gas (287,692 t/y, 40.4% of the total emissions of the sector), electricity (209,871 t/y, 29.5% of the sectorial total) and heat for district heating (205,938 t/y, 28.9% of the sectorial total) have the greatest impact. For the tertiary sector, the commodities with the greatest incidence are mainly electricity (276,005 t/y, 52.6% of the sectorial total) and natural gas (190,292 t/y, 36.3% of the sectorial total). For the non-ETS industrial sector, the consumption of natural gas is responsible of the largest part of the sectorial emissions (271,571 t/y, 82.4% of the sectorial total) is the most important commodity.

In the private transport sector, the majority of CO<sub>2</sub> emissions arises from gasoline consumption of passenger cars (214,092 t/y, 55.3% of the sectorial total) and diesel consumption of industrial vehicles (150,645 t/y, 92.1% of the sectorial total).

**Overall emissions balance.** The baseline of the Torino CCC, as of 2019, has been quantified at 2,396,907 tCO<sub>2</sub>/y. The largest emissions come from the use of natural gas (790,998 t/y, 33.0% of the total), electricity (584,139 t/y, 24.4% of the total) and refined petroleum products (609,483 t/y, 25.4% of the total).

The emissions in 2019 by scope, macro-area and sector are graphically represented in the following Figures 3.1.4 and 3.1.5.

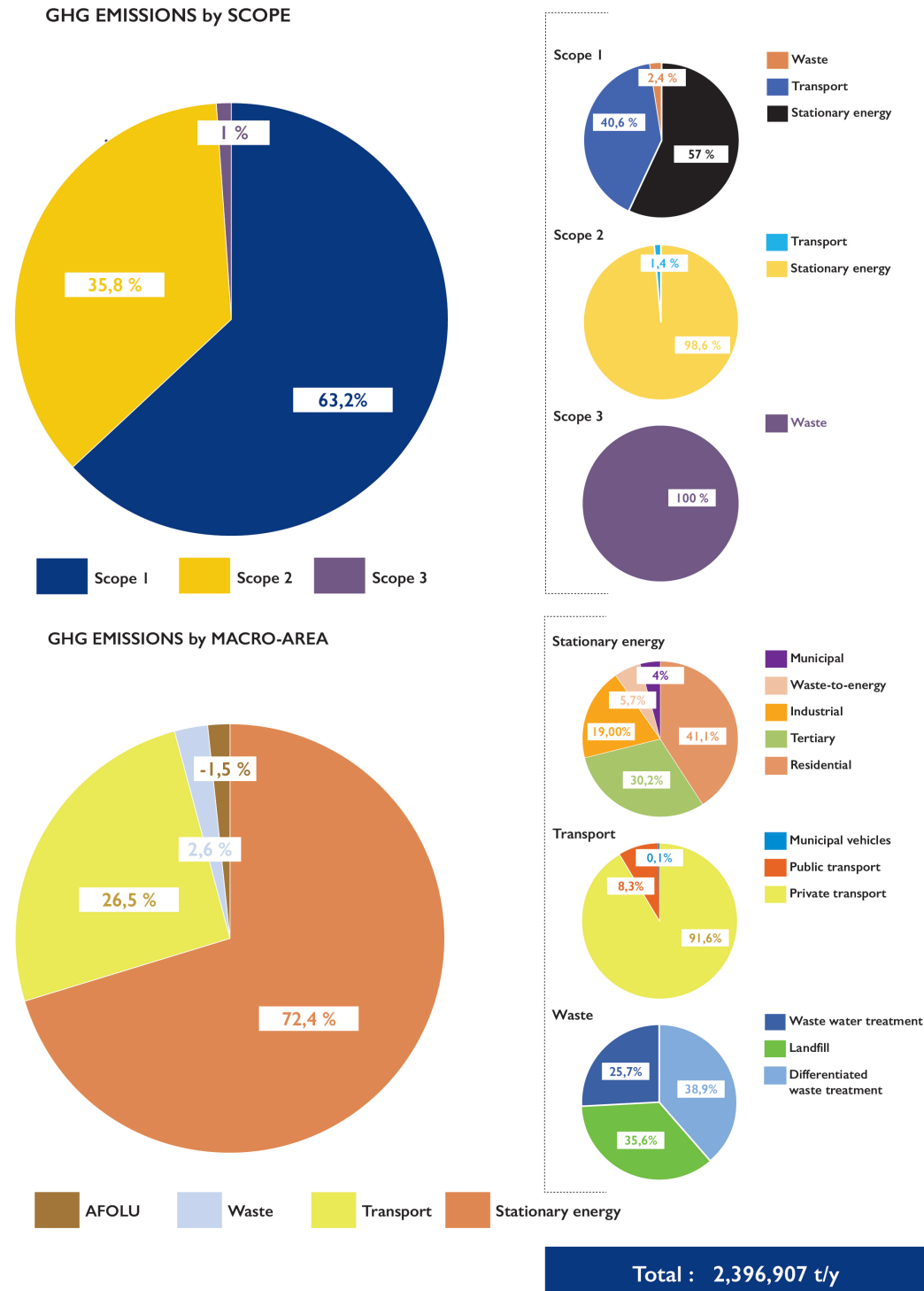


Fig. 3.1.4 – Emissions by scopes and macro-areas

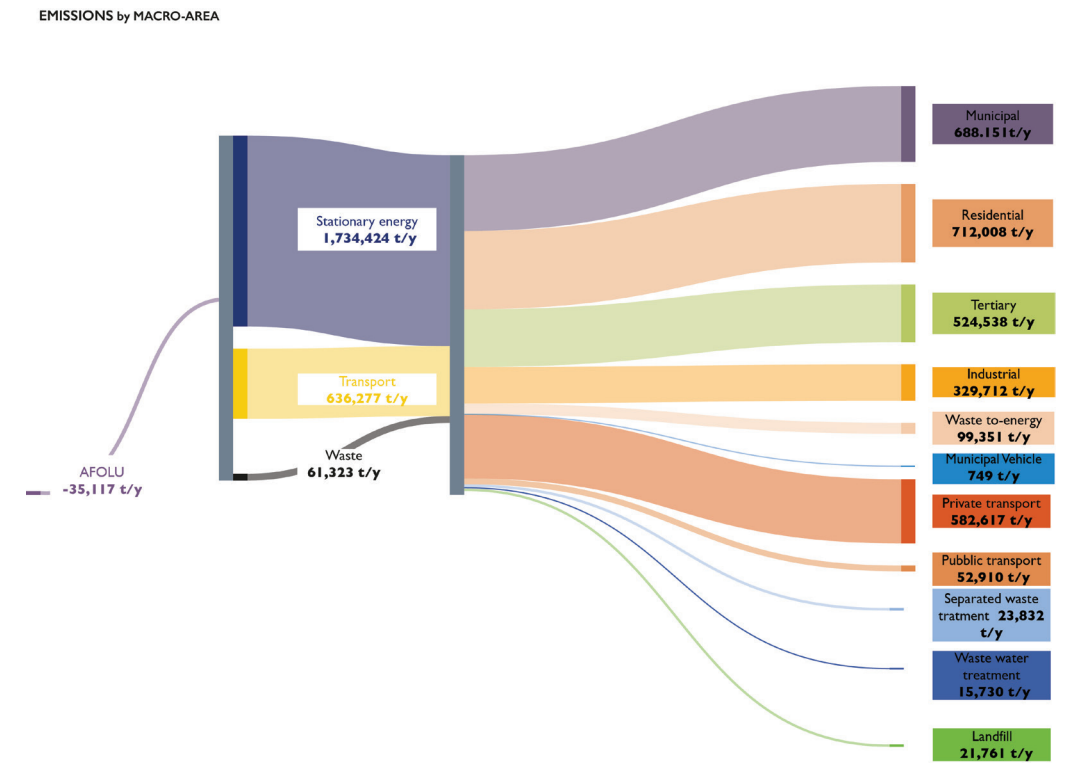


Fig. 3.1.5 – Emissions by macro-areas, sectors and sub-sectors

**Table A-1.4** summarizes the activities considered for each macro-area and sector and divided in Scope 1, Scope 2 and Scope 3, assuming 2019 as the Base year.

**Table A-1.4: Activity by source sectors in 2019**

Base Year: 2019					
Macro area	Sector	Sub-sector	SCOPE 1	SCOPE 2	SCOPE 3
STATIONARY ENERGY	Municipal	Municipal buildings	X	X	
		Public lighting		X	
	Residential	-	X	X	
	Tertiary	-	X	X	
	Industrial	Non-ETS	X	X	
	Waste-to-energy	-	X		
TRANSPORT	Municipal vehicles	Mopeds	X		
		Motorcycles	X		
		Personal transport vehicles	X	X	
		Trucks GVW < 3500 kg	X	X	
		Trucks 3500 kg < GVW < 12000 kg			
		Trucks GVW > 12000 kg	X		
	Private transport	Cars	X	X	
		Motorcycles	X	X	
		Industrial vehicles	X	X	
		Buses (excluding GTT urban buses)	X		
	Public transport	Tram network			X
		GTT railway network			X
		Trenitalia rail network			X
		Subway			X
		Urban vehicles	X		
WASTE	Separate Waste Treatment	-	X		X
	Wastewater treatment	-			X
	Landfill	-	X		

IPPU	-	-	-	-
AFOLU	-	Absorption from urban green	X	-

### Stationary Energy Sector (Municipal and Private Buildings)

Municipal and private buildings emissions appertain to both Scope 1 and Scope 2. The calculation of GHG emissions for this sub-sector for the reference base year 2019, was elaborated on the basis of the ISTAT (Istituto Nazionale di Statistica - National Institute of Statistics) data concerning the stock of buildings in Torino, as referred to in the PAESC.

In order to determine the stock of buildings, the data from the ISTAT census issued in 2011 was taken as a reference – showing a stock of 63,764 buildings, 411,264 properties with at least 1 resident and 36,158 residential buildings.

In addition to the number of buildings and properties, the heated surface area was also taken into account as a proxy to determine GHG emissions. The average heated surface area of the buildings for each intended use was determined by skimming and statistically processing the 329,655 energy performance certificates available today for the Città di Torino, from which the total air-conditioned surface area of the buildings considered was derived (amounting to 52 million m<sup>2</sup>, of which 35 million m<sup>2</sup> related to the residential sector – consistent with the figures given in the PAESC) and their breakdown by energy class according to their related use and energy class.

### Sources for the evaluation of the Stationary Energy Sector (Municipal and Private Buildings)

- Piano d'Azione per l'Energia Sostenibile e per il Clima (PAESC)
- Istituto Nazionale di Statistica (ISTAT)<sup>53</sup>
- Torino Action Plan for Energy (TAPE)

### Stationary Energy Sector (Non-ETS Industry)

The Non-ETS Industry Sub-sector encompasses Scope 1 and Scope 2 emissions. For the evaluation of electricity consumption in the industrial sector, a process was initially conducted to extract the consumption of companies, aggregated according

<sup>53</sup> See <http://dati-censimentopopolazione.istat.it/index.aspx?queryid=3456>

54 Classification of the economic activity of electric utilities.

55 IRETI S.p.A. is an Iren Group company that manages the distribution of electricity in the municipality.

56 SNAM S.p.A. is an energy infrastructure company operating nationwide, active in the transport, storage and regasification of natural gas. See <https://www.snam.it/en/home.html>. Italgas is an Italian company specialized in gas distribution activities operating nationwide. See <https://www.italgas.it>

57 The Institute recording all events related to the "legal" life of the vehicle are recorded Automobile Club Italia (2020) AUTORITRATTO 2019. <https://www.aci.it/laci/studi-e-ricerche/dati-e-statistiche/autoritratto/autoritratto-2019.html>

58 Buses, freight trucks, special/specific motor vehicles, passenger cars, special/specific motorcycles, special/specific motor vehicles and quadricycles, special/specific trailers and semi-trailers, freight trailers and semi-trailers, road tractors or tractor-trailers.

59 Green gasoline, electricity, Diesel, Natural gas, LPG.

to the ATECUE code.<sup>54</sup> Data on consumption were provided by the Regione Piemonte database – notably with the source identified as IRETI SpA.<sup>55</sup> Only the ATECUE codes falling within the industrial sector were considered.

Regarding natural gas, relevant data were retrieved from the Regione Piemonte database, with sources from the companies SNAM and Italgas.<sup>56</sup> The aggregation of these data is less specific than data on electricity, due to their classification based solely on use. In this context, only the industrial component was taken into account; the consumption of the ETS industry was subtracted from this component, which was obtained through a direct request to the entities belonging to it.

In addition, a detailed cataloguing of all industries located within the boundaries of the municipality of Torino was carried out. Each industry was characterized by its ATECO code and subdivided into registered office and local units. At the moment, this cataloguing was not used for the calculation of the baseline, but could be useful for the more accurate development of future interventions.

### Sources for the evaluation of the Stationary Energy Sector (Municipal and Private Buildings)

- Regione Piemonte database – IRETI SpA
- Regione Piemonte database – SNAM and Italgas

### Transport Sector

Transport Sector emissions also appertains to both Scope 1 and Scope 2. The calculation of emissions for the Transport sector was based on a comprehensive analysis of the vehicles in the Città di Torino as of 2019. The calculation of GHG emissions has systematized the data regarding both municipal and private vehicle stocks (as of 31 December 2019), cancellations (cessations of circulation), first registrations of new vehicles and ownership transfers that occurred during 2019 in the Città di Torino. The data have been calculated on the basis of the findings on the legal status of vehicles counted in the PRA (Pubblico Registro Automobilistico - Public Register of Motor Vehicles).<sup>57</sup>

The research counted a stock of 698,626 public and private vehicles, divided into different types,<sup>58</sup> different emission categories (Euro 0 to Euro 6) and emission profiles.<sup>59</sup>

In addition to the number of vehicles, the calculation of emissions

took into account odometer mileage on urban routes, expressed in km.

### Sources for the evaluation of the Transport Sector

- ACI – Automobile Club Italia "Autoritratto 2019" (May 2020)<sup>60</sup>
- GTT – Gruppo Torinese Trasporti, "Dichiarazione non finanziaria 2021"<sup>61</sup>
- Vehicle Fleet Management Service of the General Services Division of the Città di Torino

### Waste Sector

The Waste Sector emissions appertains to both Scope 1 and Scope 3. For the calculation of the emissions related to the waste sector in 2019, data from the report issued by the Waste Register of ISPRA - Istituto Superiore per la Protezione e la Ricerca Ambientale<sup>62</sup> were taken into account.

The report records 437,805 t/y of waste produced by the Città di Torino in 2019.<sup>63</sup> According to the data reported by ISPRA and the company AMIAT - Azienda Multiservizi Igiene Ambientale Torino S.p.A., updated to 31 December 2019, the share of sorted waste represents 47,7% of the total (about 208,736 t/y).<sup>64</sup>

On the other hand, unsorted Municipal Waste represents the amount of residual waste (229,069 t/y). According to the "Report on the state of the waste management system" compiled in November 2020 by the Waste Metropolitan Observatory and ATOR - the Torino Waste Management Association, residual waste is treated almost entirely by the Gerbido<sup>65</sup> waste-to-energy plant (and represents about 40.7% of the total waste treated by the plant).

### Sources for the evaluation of the Waste Sector

- ISPRA – Istituto Superiore per la Protezione e la Ricerca Ambientale
- AMIAT – Azienda Multiservizi Igiene Ambientale Torino S.p.A.
- "Rapporto sullo stato del sistema di gestione rifiuti" – Osservatorio Metropolitan Rifiuti<sup>66</sup>

### AFOLU Sector

The evaluation of the AFOLU Sector has taken into account the number of trees declared by the municipality of Torino (arboreal

60 Automobile Club Italia (2020) AUTORITRATTO 2019. <https://www.aci.it/laci/studi-e-ricerche/dati-e-statistiche/autoritratto/autoritratto-2019.html>

61 GTT (2021) Dichiarazione non finanziaria. [https://www.gtt.to.it/cms/risorse/fornitori/trasparenza/pdf/DatiUlteriori/DNF\\_2021.pdf](https://www.gtt.to.it/cms/risorse/fornitori/trasparenza/pdf/DatiUlteriori/DNF_2021.pdf)

62 See <https://www.isprambiente.gov.it/>

63 See <https://www.catasto-rifiuti.isprambiente.it/index>.

64 AMIAT – Azienda Multiservizi Igiene Ambientale Torino (2019) Risultati di Raccolta Differenziata a Torino al 31 Dicembre 2019.

<https://www.amiat.it/>

65 The Torino waste-to-energy plant located in Gerbido manages the incineration of municipal and special non-hazardous waste and is operated by TRM S.p.A. See <http://www.cittametropolitana.torino.it/cms/ambiente/rifiuti/termovalorizzatore-gerbido>

66 Città Metropolitana di Torino (2023) Rapporto sullo Stato del Sistema di Gestione dei Rifiuti. Rapporto 2023 – Dati consuntivi dell'anno 2022. <http://www.cittametropolitana.torino.it/cms/ambiente/rifiuti/osservatorio-rifiuti/rapporto-sistema-gestione-rifiuti>

account), their CO<sub>2</sub> storage factors, and the distribution of species in the city as assessed by the PAESC.

The arboreal account encompasses the urban greenery within the boundaries of Torino Municipality. The total volume of CO<sub>2</sub> stored by the extension of urban greenery is calculated as a function of the number of forest categories in the municipality of Torino and in relation to their capacity to absorb carbon dioxide (tCO<sub>2</sub>/tree/y). According to arboreal balance estimates, there are about 147,000 trees in the urban area of Torino – of which 48,000 represents the street trees; in addition, there are about 230,000 trees in the Municipality's hilly area.

As for the street trees, the distribution of species is known and it is therefore possible to associate the relative absorption capacity with each species. The species distribution available for street trees is used as representative for the entire municipality to a first approximation.

In order to make a comparison, an estimate of the CO<sub>2</sub> stored by urban greenery is also made by using the data on tree distribution over the municipality provided by the Environment Park<sup>67</sup>: this second evaluation differs slightly from that of the street trees reported in the tree balance.

For the 2019 baseline, the CO<sub>2</sub> storage capacity of greenery was calculated on a total green area (including urban green and forest green) of 53.67 million m<sup>2</sup>.

#### Sources for the evaluation of the AFOLU Sector

- “Mosaicatura PRG e varianti urbanistiche”, Torino Urban Atlas
- “Pianificazione territoriale e strategica” (Tav. 3.1)
- Variables considered: Forest cover (m<sup>2</sup>): known species
- Urban green (m<sup>2</sup>): species not known (known only from tree balance)

67 The Environment Park is a technological private/public partnership hub focused on environmental innovation and promoting environmental sustainability as a competitiveness engine. See <https://www.envipark.com>

## 3.2 Module A-2 Current Policies and Strategies Assessment

The Città di Torino has always been committed to developing actions to protect the environment and reduce emissions and climate-changing gases – including through careful strategic energy management.

In this sense, the first **Piano Energetico Comunale (PENCO - Municipal Energy Plan)** was drafted – back in 1992 – by the offices of the Azienda Energetica Municipale (Municipal Energy Company), on behalf of the Città di Torino, in order to elaborate an urban energy balance and set out measures that could be adopted to rationalize energy consumption – mainly aimed at the Transport, Industry, Residential and Tertiary Sectors.

The document was subsequently followed, in 1993, by the so-called **Piano Energetico Urbano (Urban Energy Plan)**, elaborated within the **TEST (Torino Energy Strategy)** project and developed to organise an information system capable of defining the relationship between incoming energy flows and final demand, for the different sectors.

These two initial actions were followed by the adoption of the **Piano Urbano per la Mobilità Sostenibile (PUMS - Urban Plan for Sustainable Mobility)** in 2008-2011, initially falling under the City's purview: the strategic plan builds on existing planning tools and takes due account of the principles of integration, participation and evaluation to meet the mobility needs of people and goods, with the aim of improving the quality of life in and around cities.

In 2009, the Città di Torino joined the **Covenant of Mayors**, which committed cities to prepare and implement a Sustainable Energy Action Plan, with the goal of reducing their CO<sub>2</sub> emissions by more than 20% by 2020 – through increased energy efficiency, increased use of renewable energy sources, and appropriate promotion and communication actions.

The City Council Resolution of 13 September 2010 also approved the **Torino Action Plan for Energy (TAPE)** – thus reinforcing its commitment to significantly reduce CO<sub>2</sub> emissions by 2020. TAPE's priority areas of implementation are public and private buildings, mobility and transport, in which major structural investments have been launched.

The 2009 Covenant was subsequently updated with the adoption of the **Mayors Adapt**, in 2015, initiated by the EU Commission to incentivize cities to voluntarily undertake local adaptation strategies and awareness-raising activities on climate change. Furthermore, in 2019, the **New Covenant of Mayors for Climate and Energy** was signed, whereby the City committed to reduce CO<sub>2</sub> (and possibly other greenhouse gas) emissions by at least 40% by 2030 through improved energy efficiency and increased use of renewable energy sources, to increase the resilience of its territory and to share vision, results, experience and know-how with other local and regional authorities in the EU. The **Piano d'Azione per l'Energia Sostenibile e il Clima (PAESC - Sustainable Energy and Climate Action Plan)** was elaborated in 2023 as an output of the Covenant of Mayors for Climate and Energy.

Other recently activated actions include: the **Piano della Mobilità Ciclistica (BICIPLAN - Bicycle Mobility Plan)**, approved in 2013 and aimed at increasing (to at least 15%) bicycle travel within the next 10 years (from about 15,000 to 75,000 people); the **Allegato Energetico - Ambientale al Regolamento Edilizio della Città di Torino (Energy-Environmental Annex to the Building Regulations of the Città di Torino)**, aimed at identifying a series of requirements, some mandatory and others voluntary, with a view to the energy and environmental qualification of building processes and products; the **Piano di Resilienza Climatica (Climate Resilience Plan)**, adopted in 2020 and drawn up in synergy with various institutional subjects, including ARPA, the Regione Piemonte, Torino Universities and the Società Metropolitana Acque Torino (SMAT - Torino Metropolitan Water Company), in order to identify the territory's main vulnerabilities and identify short- and long-term adaptation measures, defining a series of nearly 80 actions to reduce the impacts caused mainly by heat waves and flooding.

The actions adopted by the Città di Torino have found tight synergy with the Plans and Strategies contextually activated at the provincial/metropolitan and regional level.

In particular, it should be noted that, as early as 1999, the Province of Torino (later Città Metropolitana), in its own **Piano territoriale di coordinamento provinciale (Provincial territorial coordination plan)** – a development planning tool that systematizes the territories and proposes the best possible territorial arrangement – indicated fair access to resources (combating territorial and

population marginality and socio-economic development), health, safety, mobility, culture, and the "beauty and harmony" of places as among the shared "values" and "rights".

More recently, following the introduction of the guidelines for the drafting of PUMS, contained in Ministerial Decree 397/2017, which introduced the responsibility of Metropolitan Cities to draft a single PUMS for all municipalities within their territorial scope, also the Città Metropolitana has adopted its own **Piano Urbano della Mobilità Sostenibile (PUMS - Urban Plan for Sustainable Mobility)**. This updated plan envisages a set of actions and interventions with a ten-year time horizon (from 2020 to 2030), to develop a vision of a more accessible, safer and less polluting mobility and transport system, oriented to improve people's quality of life. Also, in September 2022, work started on the approval of the **Piano della Mobilità Ciclistica (BICIPLAN - Bicycle Mobility Plan)** of the Città Metropolitana di Torino: the Città Metropolitana is drawing up an initial knowledge framework, from which a proposal for metropolitan cycle corridors and bike-to-rail nodes will be derived.

Moreover, in 2022-2023, the Città Metropolitana issued the **Agenda per lo sviluppo sostenibile della Città metropolitana di Torino e del suo territorio (AMSvS - Agenda for the sustainable development of the Metropolitan Città di Torino and its territory) 2023**, which consists of work processes involving a plurality of subjects and territories, giving rise to useful tools for collective action and a plurality of documents – products of shared work paths – that will be fed and updated over time.

Finally, the Regione Piemonte is particularly committed to the development of actions to protect the environment and reduce the production of climate-changing gases, also with a view to redeveloping and enhancing the mountain and semi-mountainous areas of which it is mainly composed.

Among the main actions developed by the Regione Piemonte, it is worth to mention:

- the **Relazione Programmatica sull'Energia - Programmatic Report on Energy (2009)**, containing the objectives and directions of the regional energy policy, preparatory to the proposal for the new Piano Energetico Ambientale Regionale (PEAR - Regional Environmental Energy Plan);
- the **Piano Paesaggistico Regionale (PPR - Regional landscape**

plan), adopted in 2017 as an instrument for the protection and promotion of the local landscape, aimed at regulating its transformations and supporting its strategic role in the sustainable development of the territory;

- the **Piano Regionale di Qualità dell'Aria (PRQA - Regional Air Quality Plan)**, approved in 2019 to illustrate the state of air quality and the identification of the areas that have the greatest influence on it (Agriculture, Energy, Transport, Industry) and which was implemented by the amendments introduced by L.R. (Regional Law) no. 2/2021 to the text of L.R. no. 43/2000 - Disposizioni per la tutela dell'ambiente in materia di inquinamento atmosferico (Provisions for the protection of the environment with regard to air pollution);
- the **Piano Tutela delle Acque (PTA - Water Conservation Plan)**, issued in 2021 for the protection and enhancement of surface and groundwater in our territory with a view to the sustainable development of the community and the full achievement of the environmental objectives set out in the Water Framework Directive 2000/60/EC;
- the **Strategia Regionale per lo Sviluppo Sostenibile del Piemonte (SRSvS - Regional Strategy for Sustainable Development of Piedmont)** of 2022, which outlines the areas and objectives that the Regione Piemonte intends to pursue within the framework defined by the United Nations 2030 Agenda and in coherence with and implementation of the Strategia Nazionale per lo Sviluppo Sostenibile;
- the **Piano Energetico Ambientale Regionale (PEAR - Regional Environmental Energy Plan)**, which aims to align regional policies with those of the Climate and Energy Package and the Piano Nazionale Integrato per l'Energia e il Clima (National Integrated Energy and Climate Plan), as well as to support and promote an entire industrial and research chain in this sector.

In order to provide a more organic view of the actions taken at a local, regional and national level for the abatement of climate-changing emissions, it has been decided to collect those of a more normative and general nature in **Table A-2.1**, reporting instead the individual Projects undertaken by the Città di Torino and the Regione Piemonte in the following **Table A-2.1b**.

**Table A-2.1:**  
**Relevant policies, strategies and regulations in the period 1991-2023**

**A-2.1: List of relevant policies, strategies & regulations (1991 – 2023)**

MUNICIPAL LEVEL		
PLAN	<p><b>Piano d'Azione per l'Energia Sostenibile della Città</b> (TAPE – Torino Action Plan for Energy) 2010</p>	<p>It formalizes the City's commitment to significantly reduce its CO<sub>2</sub> emissions by 2020. In the TAPE, 1991 was defined as the base year for calculating the CO<sub>2</sub> emission reduction target, this target was initially set at a 40% reduction, later scaled down to 30%. Priority areas for TAPE implementation are public and private buildings, mobility and transport, where major structural investments have been initiated, with short and medium-term effects. A gradual reduction in CO<sub>2</sub> emissions was expected, estimated to exceed 40% by 2020, compared to the 1991 level.</p> <p>Three Plan monitoring reports were developed, which periodically verified the consistency of the reduction trend with the 2020 target. Specifically, the third monitoring report found a 46 percent reduction in CO<sub>2</sub> emissions in 2019 compared to the base year.</p>
PLAN	<p><b>Piano Regolatore di Illuminazione Pubblica Comunale</b> (PRIC - Municipal Public Lighting Master Plan) 2012</p>	<p>Plan to ensure the fulfilment, alongside the typical needs for safety and security through public lighting, of the new requirements of environmental, monumental and landscape enhancement, towards balancing the need for good lighting with energy saving.</p>
PLAN	<p><b>Piano della mobilità ciclabile</b> (BICIPLAN -Bicycle Mobility Plan) 2013</p>	<p>Plan aimed at reaffirming the importance of soft mobility in the general framework of urban mobility, given the high levels of atmospheric pollution and urban congestion that compromise the quality of life in the city, and at encouraging the use of bicycles not only for leisure but especially for home-school and home-work trips. The objective of the Biciplan is to increase (reaching at least 15% of the mobility share) cycling trips within the next 10 years (from about 15,000 to 75,000 persons). The planning process was shared with districts and associations.</p>
STRATEGY	<p><b>Nuovo Patto dei Sindaci per il Clima e l'Energia</b> (PAESC - New Covenant of Mayors for Climate and Energy) 2019</p>	<p>By joining the Covenant of Mayors for Climate and Energy, the City has committed itself to:</p> <ul style="list-style-type: none"> <li>• reduce CO<sub>2</sub> (and possibly other greenhouse gas) emissions in its territory by at least 40% by 2030, in particular through improved energy efficiency and increased use of renewable energy sources;</li> <li>• increase the resilience of their territory by adapting to the effects of climate change;</li> <li>• share vision, results, experience and know-how with other local and regional authorities in the EU and beyond through direct cooperation and peer-to-peer exchange, in particular within the Global Covenant of Mayors.</li> </ul>

**A-2.1: List of relevant policies, strategies & regulations (1991 – 2023)**

REGULATION	<p><b>Allegato Energetico - Ambientale al Regolamento Edilizio della Città di Torino</b> (Energy-Environmental Annex to the Building Regulations of the Città di Torino) 2018</p>	<p>The Energy-Environmental Annex to the Building Regulations identifies a series of requirements, some mandatory and others voluntary, with a view to the energy and environmental qualification of building processes and products. Within the voluntary requirements (defined to incentivize the realization of building interventions that are, from an energy-environmental point of view, superior to the minimum standards required by the regulations in force) in relation to the higher construction costs linked to a higher quality of the product used, a score is recognized for the various interventions, which translates into a "discount" on urbanization charges up to a maximum value of 50%, as provided for by the "Regulation for the determination of the contribution for concessions charges".</p>
PLAN	<p><b>Piano di Resilienza Climatica</b> (Climate Resilience Plan) 2020</p>	<p>The City's Resilience Plan, prepared by representatives of 15 City departments and offices and numerous other subjects, including ARPA, the Regione Piemonte, Torino Universities and SMAT, identifies the territory's main vulnerabilities and identifies a series of short and long term adaptation measures, defining a series of actions (about 80 in total) aimed at reducing the impacts caused mainly by heat waves and flooding, which represent the main risks related to climate change to which the city is exposed.</p>
PLAN	<p><b>Piano Strategico dell'Infrastruttura Verde</b> (Green Infrastructure Strategic Plan) 2022</p>	<p>An analysis and planning tool to direct investments and management policies for Torino's public urban green system in the coming decades, supplementing urban planning instruments. The Plan analyses in depth Torino's urban green system defining medium-long term strategies for its enhancement and development. It is a planning document to direct investments in new works and maintenance interventions, define management priorities of the urban green infrastructure system, starting from an overall analysis of the public green system, identifying strengths and weaknesses, assessing opportunities and defining strategies, objectives and actions. It is largely based on two analytical approaches: 1) the first, the so-called "greenprint", is both a quantitative and qualitative analysis of the entire public green system. 2) The second is the quantitative and economic analysis of the ecosystem services generated by the city's entire green infrastructure system as a basis for future planning of its functions.</p>
PLAN	<p><b>Piano Strategico e Piano d'Azione sul tema della gestione sostenibile delle acque in ambito urbano</b> (Strategic Plan and Action Plan on the topic of sustainable urban water management)</p>	<p>The Strategic Plan (SP) defines the 'fundamental' objectives, any lower-ranking objectives (operational objectives) and identifies the main lines of action to achieve them. For each objective, it sets a medium-term horizon of 2030 and a long-term horizon of 2050. Particular emphasis is placed on the measures falling within the competence of the FUA (Functional Urban Areas) and the Municipalities forming the Città Metropolitana, concerning the urban territory and the Integrated Water Service.</p> <p>The Action Plan (AP), which identifies the priority actions to be implemented within a short time horizon (4 years), is made up of individual action sheets described in detail to allow their implementation in the short term. The AP is renewed every 4 years, so that through the implementation of the first two APs the mid-term objectives of the SP (2030) are expected to be achieved.</p>

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**A-2.1: List of relevant policies, strategies & regulations (1991 – 2023)**

METROPOLITAN LEVEL		
PLAN	<p><b>Piano Urbano della Mobilità Sostenibile (PUMS – Urban Plan for Sustainable Mobility)</b> 2023</p>	<p>The PUMS is a set of actions and interventions on the territory of the Città Metropolitana with a time horizon of ten years (from 2020 to 2030), developing a vision of a more accessible, safer and less polluting mobility and transport system, oriented towards improving people's quality of life. Through a balanced development of all modes of transport with preference given to the most sustainable ones, and thanks to a transparent and participatory approach, the PUMS proposes to improve the effectiveness and efficiency of the mobility system for people and goods, and to achieve environmental, economic and social sustainability objectives.</p>
STRATEGY	<p><b>Agenda per lo sviluppo sostenibile della Città metropolitana di Torino e del suo territorio</b> (AMSvS - Agenda for the Sustainable Development of the Metropolitan Città di Torino and its territory) 2023</p>	<p>It takes the form of work processes involving a plurality of actors and territories, giving rise to useful tools for collective action and a plurality of documents - products of shared work paths - that will be fed and updated over time.</p>
STRATEGY	<p><b>Linee di indirizzo per il processo di definizione del Piano Strategico Metropolitano</b> (PSM - Guidelines for the metropolitan strategic plan definition process) 2024-2026 2023</p>	<p>The new 2024-2026 MSP (Metropolitan Strategic Plan), the drafting of which will engage the authority in the second half of 2023, will relaunch the development vision proposed by the 2021-2023 Plan, entitled "Torino Metropoli Aumentata" (Torino Augmented Metropolis).</p> <p>As envisaged by the Guidelines approved by the Metropolitan Council in its session of 10 May 2023, the drafting of the new Strategic Plan will take place through a structured participatory planning process, which will take place between July and December 2023.</p>
PLAN	<p><b>Piano della Mobilità Ciclistica</b> (BICIPLAN - Bicycle Mobility Plan) of the Città Metropolitana (Part of the PUMS) 2022</p>	<p>Following the first kick-off meeting held on 30 September 2022, the Città Metropolitana is drawing up an initial cognitive framework, which it will complete following meetings with the territory in March 2023.</p> <p>This will result in a proposal for metropolitan cycle corridors and bike-to-rail nodes.</p>
PLAN	<p><b>Piano dell'accessibilità e dell'intermodalità (Accessibility and intermodality plan)</b> (Part of the PUMS) 2022</p>	<p>The Plan<sup>68</sup> will govern the development of the Metropolitan Railway Service, a substantial expansion of the metro network (with the construction of line 2 and the extension of line 1), and several extensions of the tram network, which must be accompanied by an overall redesign of the car network, both urban/suburban and suburban.</p>

68 <http://www.cittametropolitana.torino.it/cms/trasporti-mobilita-sostenibile/pums/pums-piano-approvato-2022/piano-accessibilita-intermodalita>

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**A-2.1: List of relevant policies, strategies & regulations (1991 – 2023)**

REGIONAL LEVEL	
STRATEGY	<p>Disposizioni per la predisposizione e la realizzazione della Strategia Regionale sui Cambiamenti Climatici quale attuazione della Strategia Nazionale di Sviluppo Sostenibile</p> <p>(Provisions for the preparation and implementation of the Regional Climate Change Strategy as an implementation of the National Sustainable Development Strategy)</p> <p>2015</p> <p>The strategy defines the political and administrative initiative of the Regione Piemonte to contain global warming and counteract the negative effects of climate change.</p> <p>The Regional Strategy on Climate Change (SRCC) will be the reference tool that will orient the administrative action in this sense, starting from the technical-scientific evidence up to the measures that will have to be taken in the regional planning and programming in the different sectors, with attention to the processes of governance, horizontal and vertical institutional coordination and public participation.</p>
REGULATION	<p>Regolamento attuativo al Piano Paesaggistico Regionale PPR</p> <p>(Implementation regulations to the Regional Landscape Plan)</p> <p>2019</p> <p>Regional Landscape Plan (PPR) approved by the Regional Council Resolution No. 233-35836 of October 3, 2017.</p> <p>The Plan is an instrument for the protection and promotion of the Piemonte landscape, aimed at regulating its transformations and supporting its strategic role in the sustainable development of the territory. With the Implementing Regulations to the PPR The Region has detailed how to ensure the adaptation and coherence of the different planning tools.</p>
PLAN	<p>Piano Regionale di Qualità dell'Aria</p> <p>(PRQA - Regional Air Quality Plan)</p> <p>2019</p> <p>The PRQA documentation illustrates: (i) the state of air quality and the identification of the ambits that have the greatest influence on air quality (Agriculture, Energy, Transport, Industry); (ii) technical in-depth studies that validate the contents of the PRQA from a scientific point of view (Modelling and Analytical Source Apportionment, Analysis of energy consumption and achievable emission reductions, Assessment of the environmental effects of the PRQA with reference to Climate Change, Summary Statement of the SEA pathway) (iii) the measures pertaining to each area and relative quantification in terms of emission reductions; (iv) the results of the modelling simulations regarding the implementation of air quality measures, which indicate 2030 as the year of return to the air quality limits defined in Directive 2008/50/EC.</p>
PLAN	<p>Piano di Tutela delle Acque</p> <p>(PTA - Water Conservation Plan)</p> <p>2021 (update)</p> <p>The Water Protection Plan (WPP) pursues the protection and enhancement of our territory's surface and groundwater with a view to the sustainable development of the community and to the full achievement of the environmental objectives of the Water Framework Directive 2000/60/EC. It is also a fundamental tool to strengthen the resilience of aquatic environments and related ecosystems and to address the effects of ongoing climate change.</p>

**A-2.1: List of relevant policies, strategies & regulations (1991 – 2023)**

STRATEGY	<p>Strategia Regionale per lo Sviluppo Sostenibile del Piemonte</p> <p>(SRSvS - Regional Strategy for Sustainable Development of Piedmont)</p> <p>2022</p> <p>It outlines the areas and objectives that the Regione Piemonte intends to pursue within the framework defined by the United Nations 2030 Agenda and in coherence with and implementation of the National Strategy for Sustainable Development.</p>
PLAN	<p>Piano Energetico Ambientale Regionale</p> <p>(PEAR - Regional Environmental Energy Plan)</p> <p>2022</p> <p>PEAR fulfils, among others, two fundamental objectives: on the one hand, to orient regional policies towards those of the Climate Energy Package and the National Integrated Energy and Climate Plan and, on the other hand, to support and promote an entire industrial and research sector that has great opportunities for growth.</p>
STRATEGY	<p>Primo stralcio della Strategia Regionale sul Cambiamento Climatico</p> <p>(Regional Strategy on Climate Change)</p> <p>The Regional Strategy on Climate Change (SRCC) will be the reference tool that will guide the administrative action in this sense, starting from the technical-scientific evidence up to the measures that will have to be taken in the regional planning and programming in the different sectors, with attention to the processes of governance, horizontal and vertical institutional coordination and public participation.</p>
NATIONAL LEVEL	
PLAN	<p>Piano Nazionale di adattamento ai cambiamenti climatici –</p> <p>(PNACC - National Climate Change Adaptation Plan)</p> <p>The aim of the Plan is to contain the vulnerability of natural, social and economic systems to the impacts of climate change and to increase resilience. It represents the implementation tool of the 2015 National Climate Change Adaptation Strategy for national planning to support the institutions that will be called upon to develop the contents of the plan on their own scale of government, taking into account the specificities of different contexts.</p>
PLAN	<p>Piano Nazionale Strategia Energetica Nazionale</p> <p>(SEN - National Energy Strategy National Plan)</p> <p>2017</p> <p>A Ministerial Decree of the Ministry of Economic Development and the Ministry of the Environment and Land and Sea Protection adopted the 2017 National Energy Strategy, the Italian government's 10-year plan to anticipate and manage change in the energy system.</p> <p>The Strategy aims to make the national energy system more</p> <ul style="list-style-type: none"> <li>competitive: improve the country's competitiveness by continuing to reduce the energy price and cost gap with Europe, in a context of rising international prices</li> <li>sustainable: to sustainably achieve the environmental and de-carbonisation targets set at the European level, in line with the future targets set at COP21;</li> <li>secure: continue to improve the security of supply and flexibility of energy systems and infrastructure, strengthening Italy's energy independence.</li> </ul>

**A-2.1: List of relevant policies, strategies & regulations (1991 – 2023)**

PLAN	<p><b>Piano Nazionale Integrato per l'Energia e il Clima</b> (PNIEC - National Integrated Energy and Climate Plan) 2020</p>	<p>The text of the Integrated National Energy and Climate Plan (PNIEC) was prepared in 2020 by the Ministries of Economic Development, the Environment and Infrastructure and Transport and incorporates the innovations contained in the Decree Law on Climate as well as those on investments for the Green New Deal provided for in the Budget Law 2020.</p> <p>The PNIEC was sent to the European Commission in implementation of Regulation (EU) 2018/1999, thus completing the path started in December 2018.</p> <p>With the Plan, national targets to 2030 on energy efficiency, renewables and CO2 emissions reduction are set, as well as targets on energy security, interconnections, single energy market and competitiveness, development and sustainable mobility, outlining for each of them the measures that will be implemented to ensure their achievement.</p> <p>The proposal of revision of the plan has been published in 2023</p>
PLAN	<p><b>Piano Nazionale di Ripresa e Resilienza</b> (PNRR - National Recovery and Resilience Plan) 2021</p>	<p>The National Recovery and Resilience Plan (NRP) is part of the Next Generation EU (NGEU) programme, the EUR 750 billion package, roughly half of which consists of grants, agreed by the European Union in response to the pandemic crisis. The main component of the NGEU programme is the Recovery and Resilience Facility (RRF), which has a duration of six years, from 2021 to 2026, and a total size of EUR 672.5 billion (312.5 grants, the remaining 360 billion low-interest loans).</p> <p>Italia Domani, the Recovery and Resilience Plan presented by Italy, envisages investments and a coherent package of reforms, to which resources amounting to EUR 191.5 billion are allocated, financed through the Recovery and Resilience Facility and EUR 30.6 billion through the Supplementary Fund established by Decree-Law No. 59 of 6 May 2021, based on the multi-year budget variance approved in the Council of Ministers on 15 April. The total of the planned funds amounts to EUR 222.1 billion. In addition, a further EUR 26 billion has been earmarked for the realisation of specific works and for replenishing the resources of the Development and Cohesion Fund by 2032. In total, some EUR 248 billion will thus be available. In addition to these resources, there are also those made available by the REACT-EU programme, which are to be spent in the years 2021-2023, as provided for by EU regulations. These funds amount to a further 13 billion. The Plan is developed around three strategic axes shared at European level: digitalisation and innovation, ecological transition, and social inclusion. It is an intervention that intends to repair the economic and social damage of the pandemic crisis, help resolve the structural weaknesses of the Italian economy, and accompany the country on a path of ecological and environmental transition. The NRP will contribute substantially to reducing territorial, generational and gender gaps.</p>

**A-2.1: List of relevant policies, strategies & regulations (1991 – 2023)**

PLAN	<p><b>Piano nazionale di contenimento dei consumi di gas</b> (National gas consumption containment plan) 2022</p>	<p>The so-called 'National Plan for the Containment of Natural Gas Consumption' is a document containing a set of rules provided by the Ministry of Ecological Transition (MiTE) with the aim of limiting the effects of rising energy prices (especially in the wake of the conflict between Russia and Ukraine), by immediately launching a savings campaign to prepare for possible interruptions in gas supplies from Russia, the main supplier of this energy source until recently.</p> <p>The MiTE adopted the Plan in order to save gas and avoid as much as possible an excessive depletion of national storages also in view of the following 2023/2024 season. This measure, in line with the indications defined in Regulation (EU) 2022/1369 of 5 August 2022, implements - through Ministerial Decree 383 of 6 October 2022 - the indications of the European Commission.</p>
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Table A-2.1b lists the major projects initiated by the Città di Torino and the Regione Piemonte, considered relevant for their positive environmental impacts on the territory:

**Table A-2.1b: Projects and interventions developed by the Città di Torino**

LOCAL LEVEL	
PROJECT	<p><b>Torino Climate Lab</b></p> <p>The Città di Torino, as part of the process aimed at drawing up the Climate Resilience Plan, developed an activity of comparison with cities, both Italian and non-Italian, that already had an adaptation strategy or plan. In particular, thanks to the technical and economic support of the German Marshall Fund of the United States, during 2017 a collaboration was established with the American cities of Portland (Oregon), Oakland (California) and New Orleans (Louisiana), which made it possible to observe positive models of participatory processes and to verify the impact of adaptation measures already implemented, albeit in territorial contexts different from that of Torino.</p> <p>Specifically, there were several moments of in-depth discussion with the City of Portland in which representatives of the two cities fruitfully confronted each other, both in the territory of Torino and in the city of Portland, deepening the strategy and the strengths and weaknesses of the American process and thus constituting an important model for the development of the Resilience Plan of Torino.</p> <p>Instead, the subject of the comparison with New Orleans was the co-creation model of the adaptation strategy that the American city is developing, which envisages the active participation of citizens in the planning and construction of the plan. This approach favours the acceptance of the solutions identified and the co-responsibility of citizens, who are not third parties but active participants in the choices made by the administration."</p>

PROJECT	<p><b>Mille alberi per Torino</b> (A Thousand Trees for Torino)</p>	<p>Over the last few decades, qualitatively and numerically significant volunteer experiences have developed, i.e. of citizens asking or accepting to collaborate, voluntarily and absolutely free of charge, with their administration in projects aimed at improving the quality of life in their city, without the intermediation of an association.</p> <p>The project envisaged the shared planting of new trees in all the districts by city technicians and groups of citizens: a participatory care of the area in which all citizens are invited to participate by sharing a day of work to plant the trees, of which they will then also be custodians and guardians as they grow.</p>
<b>REGIONAL LEVEL</b>		
PROJECT	<p><b>LABORATORIO PER LO SVILUPPO SOSTENIBILE DEL PIEMONTE</b> (Laboratory For Sustainable Development Of Piedmont)</p>	<p>The Region has started work on the collaborative construction of the Piemonte Sustainability Laboratory, one of the main implementation tools of the Regional Strategy for Sustainable Development.</p> <p>The project, coordinated by the Regione Piemonte and IRES Piemonte (Istituto di Ricerche Economico Sociali del Piemonte), sees the active participation of managers and officials of the two bodies and the contact persons of the main regional thematic observatories, as well as regional and national experts from the knowledge and monitoring system.</p> <p>The general aim of the Laboratory is to support political and technical decision-makers with the necessary knowledge for integrated multi-level and multi-dimensional planning and programming, in order to promote policies that are consistent with sustainability objectives and to design flexible strategies that can be adapted to changing circumstances and events, adopting a long-term vision, also thanks to the development of new forecasting and reprogramming skills.</p>

The following **Tables A-2.2** and **A-2.3** present the overall vision for the decarbonization, in terms of reaching at least 80% of reduction (i.e. at least 1.92 Mt/y) of CO<sub>2</sub> with respect to the Baseline.

**Table A-2.2: Emission gap**

	(1) Baseline emissions	(2) Emissions Reduction Target 2030		(3) Emission reduction through other Action Plans		(4) Emissions Gap		(5) Emissions reduction through the CCC Action Plan to address the Gap		(6) Residual emissions	
	Baseline emissions (ideally not older than 2018) - referring to the inventory used for target setting	The emissions reduction target for 2030 ideally achieves a minimum 80% reduction from the baseline, as reported in Section 2 of the Commitments document of the CCC. The overall target should be absolute or net-zero (i.e. including the compensation of any residual emissions).		These are the emissions reductions that would be achieved through existing policies, and plans, outlined in Section A-2.1. Those actions are by definition not part of the action portfolio in section B. If they are fully or partially incorporated in module B-2, their associated reduction potential should be referenced in column (5) and not be included here. <b>WARNING</b> if the baseline is a BAU scenario: If the BAU modelling includes any of these existing measures, please also do not include the associated emissions reduction in this column as otherwise it would be double counted.		(4) = (2) – (3)		This column is used to present the already quantified emission reduction associated with the action portfolios outlined in module B-2. Ideally, this equals the gap. If there is a difference between the reduction potential of the actions specified in module B-2 (for instance because their reduction potential has not been fully estimated or because additional measures will be identified in future iterations), the CCC AP should be explicit about this difference and explain how the difference will be closed. In principle, as long as the difference has not been addressed, it would be considered as part of the residual emissions.		(6) = (1) – (2)	
	(absolute; Mt/y)	(absolute)	(%)	(absolute; Mt/y)	(%)	(absolute; Mt/y)	(%)	(absolute; Mt/y)	(%)	(absolute; Mt/y)	(%)
Stationary Energy	1,734,424	1,032,603	50.6	289,071	38.6	743,532	57.5	743,532	57.5	701,821	197.4
Transport	636,277	381,089	18.7	142,751	19.0	238,338	18.4	238,338	18.4	255,187	71.8
Waste	61,323	72,471	3.5	12,265	1.6	60,207	4.7	60,207	4.7	-11,148	-3.1
Agricultural, Forestry and Other Land Use (AFOLU)	-35,117	74,770	3.7	1,402	0.2	73,368	5.7	73,368	5.7	-109,887	-30.9
Industrial Process and Product Use (IPPU)	-	-	-	-	-	-	-	-	-	-	-
Energy Systems	0	480,530	23.5	303,918	40.6	176,612	13.7	176,612	13.7	-480,530	-135.2
<b>Total</b>	<b>2,396,907</b>	<b>2,041,464</b>	<b>100.0</b>	<b>749,407</b>	<b>100.0</b>	<b>1,292,057</b>	<b>100.0</b>	<b>1,292,057</b>	<b>100.0</b>	<b>355,443</b>	<b>100.0</b>

In **Table A.2.3**, The blue columns provide the baseline for the emissions – divided by macro-areas and sectors – in t/y (“Absolute Value”) and the weight in percentage of each sector on the total emissions in the baseline (“Share on the Total Baseline”).

The first block of green columns lists the proposed macro-actions for the city, for which specific mathematical models, implemented in the CLICC SW Platform, have been designed in order to compute the expected CO<sub>2</sub> reductions associated to them; the third column reports the value in t/y. The second and third blocks of green columns provide a subdivision of the effects of the macro-actions between the ongoing actions and the ones foreseen by the Climate City Contract (CCC).

The orange block of columns provides the residual emissions of CO<sub>2</sub> in t/y.

In each block of columns, there is a column (pu – per unit, %/100) that must be read by row and allows for tracking the reduction the residual emissions for each macro-area. For example, assuming the overall emissions for transport sector equal to 1 in the baseline, the whole set of macro-actions in the macro-area would reduce the emission to 0.40 (reduction of 0.60 pu, equal to 60%). Of this reduction, the actions already in place reduce the value in the baseline by 0.224 pu (22.4%) and the ones designed for the CCC reduce the value in the baseline by 0.375 pu (37.5%). Altogether, the expected effect of the reduction is  $0.224 + 0.375 = 0.599$  pu  $\sim 0.60$  pu (60%). The residual emission for the macro-area is  $1 - 0.224 - 0.375 = 0.401$  pu  $\sim 0.40$  pu, which corresponds to 40% of the baseline emissions (reduction of 53%).

**Table A-2.3:**  
**Emission reduction due to existing and future actions and residual emissions by 2030**

Macro-Area	Sector	Baseline Emissions (Base Year: 2019)			Code	Description	Overall Emissions Reduction (t/y)	Emission Reduction due to Existing Action Plans			Emissions Reduction due to Future Actions			Residual Emissions (Reference Year: 2030)			
		Absolute Value (t/y)	Share on the Total Baseline (%)	Per Unit Value (p.u.)				Absolute Value (t/y)	Share on the Total Existing Actions (%)	Per Unit Emissions w.r.t BY (p.u.)	Absolute Value (t/y)	Share on the Total Future Actions (%)	Per Unit Emissions w.r.t BY (p.u.)	Absolute Value (t/y)	Per Unit Emissions w.r.t BY (p.u.)		
Stationary Energy	Buildings (Municipal, Residential, Tertiary, Industrial) + Industrial Processes	1,620,569	67.6		FS1	District Heating: 70% coverage of TRL network in built volume without new power plants	-73,237										
					FS2	Thermal Insulation of Buildings: Improvement of thermal insulation in F and G class buildings; further improvements for other classes	-144,893										
					FS3	Data Centers: Recovery of 55% of waste heat from data centers (Hypothesis: 9% annual increase in data centers)	0										
					FS4	Heat Pumps: Different heat pumps according to energy class; only for buildings using natural gas (50% of buildings in class E and D). Photovoltaic Systems: PV systems to cover the electrical needs of heat pumps	-224,872										
					FS5	Electricity Storage: Storage systems to increase self-consumption of locally produced electricity from PV installations	-29,152										
					FS6	Electrical Equipment: Improvement in energy efficiency class	-38,694										
					FS7	CCS Installation on Iren generation plants for District Heating	0										
					FS8	Policies for the development of energy communities	-16,713										
					FS9	Policies for the development of positive energy districts	-707										
					FS10	Energy retrofitting of 800 municipal buildings with Iren (EfficientO)	-12,134										
					FS11	Industrial process efficiency improvement (25% more efficiency)	-82,428										
			Waste-to-energy plant	99,351	4.1		FS12	Implementation of Line 4 of the plant and application of CCS	-395,269								
	Public lighting	14,504	0.6		FS13	Public LED lighting	-14,504										
	<b>Total Stationary Energy</b>	<b>1,734,424</b>	<b>72.4</b>	<b>1.00</b>													
	Municipal vehicles	749	0.0														
Transport	Private transport	582,617	24.3		FT1	Replacement of ICE vehicles with electric ones	-688										
					FT2	Limitations on private traffic	-101,936										
					FT3	Replacement of private cars with electric vehicles	-77,813										
					FT4	Promotion of alternative means of transport: building cycle paths	-17,017										
					FT5	Development of policies of carsharing with Non-ICE vehicles	-25,066										
					FT6	Development of policies of car pooling	-50,366										
					FT7	Renewal of the local public transport fleet	-36,363										
					FT8	Construction of metro line 2	-71,840										
	Public transport	52,910	2.2														
	<b>Total Transport</b>	<b>636,277</b>	<b>26.5</b>	<b>1.00</b>													
Waste	Landfill - residual emissions	21,761	0.9		FW1	Elimination of residual emissions from landfills	-21,761										
	Wastewater treatment	15,730	0.7		FW2	Process efficiency improvement (15% more efficient)	-2,590										
	Waste Reduction and increase of sorted waste	23,832	1.0		FW3	Reduction of waste generation, reduction of waste sent to waste-to-energy plant by the city of Turin and increase in sorted waste collection	-48,121										
	<b>Total Waste</b>	<b>61,323</b>	<b>2.6</b>	<b>1.00</b>													
AFOLU	-	-35,117	-1.5		FG1	Increase in planted trees and green areas	-57,167										
					FG2	Development of green areas on roofs and vertical forests	-17,125										
					FG3	Soil treatment to make it capable of capturing CO2	-478										
	<b>Total AFOLU</b>	<b>-35,117</b>	<b>-1.5</b>	<b>1.00</b>													
IPPU	-	-															
Energy Systems	PV Share Increase				FE1	Increase in the share of PV in the electricity generation system	0										
	Green Certified Electricity				FE2	Increase in the share of purchase of certified "Zero Emissions" electricity	0										
	Emission Factors				FE3	Variation of the carbon content of Electricity/Gas/District Heating on the energy consumption	-480,530										
	<b>Total Energy Systems</b>																
<b>TOTAL</b>		<b>2,396,907</b>	<b>100.0</b>	<b>1.00</b>			<b>-2,041,464</b>	<b>-749,407</b>	<b>100.0</b>	<b>-0.31</b>	<b>-1,292,057</b>	<b>100.0</b>	<b>-0.54</b>	<b>355,443</b>	<b>0.15</b>		

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### 3.3 Module A-3 Systemic Barriers and Opportunities to 2030 Climate Neutrality

The Climate City Contract is a strategic document with relevant social and political implications. It involves a wide and dense network of social, political and economic stakeholders – raising questions and potential barriers on the way to its implementation.

Within this framework, different types of systemic barriers – organized in separate, yet closely intertwined categories (Governance, Politics, Funding, Engagement, Infrastructure/ Technologies) have been identified in order to frame better climate action and a stronger collaboration with the city's ecosystem.

These barriers do not exclusively represent contingent criticalities to be 'solved' in the definition and implementation of the Climate City Contract; rather, they have a strategic and proactive character. Future strategies stem from systemic barriers, outlining opportunities for the definition of a new pact between the city, stakeholders and citizens.

In particular, the tables inserted downstream from the description of the Governance and Engagement barriers/actions clarify the link between the barriers detected and the actions that the City identifies to break them down by exploiting existing and strengthenable assets, resources, relationships and competences. Enabling actions are reported and described in detail in Part C of this Action Plan.

**Table A-3.1: Opportunities and systemic barriers to climate neutrality by 2030**

Description of urban systems, systemic barriers, and opportunities		
Governance	<b>Horizontal internal governance (Opportunity)</b>	A greater push for an inter-sectoral overcome of the municipality's vertical organizational structure is an indispensable element for (i) face the challenge of climate neutrality in a structural and responsible manner; (ii) systemize policies/strategic choices to use the available funds by effectively orienting programs, plans, projects and interventions; (iii) contribute to the strengthening of multi-level institutional governance and, more generally, make collaboration with the actors of the city ecosystem efficient; (iv) link activation initiatives and dialogue with the community by implementing skills in participatory process design.
Governance	<b>Multilevel external vertical governance (Opportunity)</b>	A strengthening of relations on the level of multi-level institutional governance and, in particular, with the Region and the Città Metropolitana appears useful to generate coordinated, synergic action capable of territorializing supra-local strategies. The Città di Torino, which is very active in projects financed with European funds, is present in various international and national networks active in environmental and climate change issues. The experience gained over the years through the exchange with many actors in the different fields of action of the CCC represents an asset and an opportunity for: (i) improve the efficiency/effectiveness of multilevel institutional governance (local/ regional/national/community); (ii) strengthen the relationship with (non-governmental) stakeholders of the local ecosystem; (iii) refine engagement models of partners relevant to the energy transition; (iv) give greater impetus to the co-creation of partnership actions with significant impacts on the abatement of climate-changing emissions.
Governance	<b>Digital infrastructure enabling multi-level governance (Opportunity)</b>	The systematization of knowledge to underpin the interaction with the ecosystem of actors is, without a doubt, an indispensable factor to support the collective understanding of the challenge, facilitate dialogue, foster alliances and partnerships on projects/initiatives with relevant direct and indirect impacts, and guarantee constant monitoring and corrections to be introduced during the implementation and deployment of the Action Plan. The City, taking advantage of consolidated relations with the academic and scientific world, provides itself with a digital platform useful to detect the incisiveness of the abatement of climate-altering emissions of multilevel interventions financed with multiple funds (EU, national, regional, local). This platform is instrumental in the construction and monitoring of the CCC but, by targeting the integration of data on the Digital Twin, it represents a useful tool for governing multi-actor decision-making processes by coordinating climate partnership action.

**Description of urban systems, systemic barriers, and opportunities**

Engagement	<b>Barrier to the participation of fragile groups in society</b>	It is an obstacle related to social inequalities in terms of the ability to engage and co-empower marginalized, vulnerable and intergenerational targets (people in energy poverty, young people and foreigners). It includes issues related to climate justice and intergenerational equity. In particular, youth participation is not always truly integrated into a systemic view of the different dimensions of governance to foster deeper structural changes.  In order to overcome this barrier, the Città di Torino has initiated a participatory process with various stakeholders involved, including school youth and associations that support people in economic and energy poverty.
Engagement	<b>Barrier linked to the weakening of the bond of trust between citizens and the Public Administration</b>	They are related to the context of projects and interventions with significant environmental impacts that in recent years have led to urban conflicts that are still ongoing. This barrier may hinder the city's adoption of a truly transformative and empowerment-generating approach. Tackling complex issues such as the challenge towards climate neutrality with honesty also means acting on behavioral changes and cultural issues that need to be considered urgently and in a necessarily shared perspective capable of building new connections within the city ecosystem.  The development of participatory pathways and the direct involvement of citizens in the journey toward climate neutrality may, therefore, provide a valuable opportunity to regenerate and strengthen the relationship of trust between citizens and institutions.
Administrative Policy	<b>Barrier linked to multilevel policy frameworks</b>	The relationship between urban/regional policies or the national and European frameworks is not always well defined, and the timing for their coherent configuration can be problematic. However, this issue can be a starting point for future alignment between frameworks
Administrative Policy	<b>Barrier linked to multilevel policy frameworks</b>	The lack of specific regulatory references accompanying the community and stakeholders towards decarbonization may prove to be an opportunity to reconfigure part of the Città di Torino's building and urban regulations to the energy transition – providing them with targeted norms. In any case, these regulations depend also on European and national standards, and have to be aligned with them.
Administrative/Policy	<b>Barrier linked to political cycles</b>	The political discontinuity resulting from the changes of administration after local elections, coupled with the priority given to different political strategies in each political cycle, is a potential barrier to the continuity/ stability necessary for the realization of a medium- to long-term project such as the Climate City Contract. However, the transversality of intentions of the Climate Contract makes it an opportunity to overcome political contingency and establish a common path beyond political representation. This is linked to problems related to long term planning.

**Description of urban systems, systemic barriers, and opportunities**

Technical barriers	<b>Barrier linked to the competences of the Municipality</b>	Given the multifaceted nature of the Climate City Contract, as most actions require the direct participation of the stakeholders involved (companies, citizens), techno-infrastructure limits emerge involving local government in terms of limits of competences and limits of available human resources.  Awareness of these organizational limitations and the desire to accelerate the path to climate neutrality, however, can help the City continue to invest in the creation of a cross-cutting group of human resources, with professional and high-level expertise on relevant issues of the project.
Technical barriers	<b>Barrier linked to the limitations in specialized manpower</b>	The highly technical and specialized nature of the actions to be carried out to upgrade the existing building stock and equipment currently in use in the urban area (e.g., vehicles and electricity) and the implementation of the foreseen actions poses limitations regarding the procurement of specialized labor and companies with consolidated expertise and know-how.  This limitation, however, can become an opportunity to foster the creation of new jobs and the emergence of new businesses related to the energy transition and environmental protection, as well as to encourage the development of vocational training pathways for schools and the reintegration of figures currently struggling to find spaces.
Technical barriers	<b>Barrier linked to the constant technological evolution</b>	The long-term perspective of the Climate City Contract implies the deployment of constantly updated energy balance monitoring technologies towards the decarbonization.  Even this requirement, which could prove critical from the point of view of economic resources to invest, can be an incentive for the development of start-ups and newco's in the field of digitization and home automation related to the energy transition.
Financial barriers	<b>Barrier linked to the coordination of investment by multiple actors</b>	The Climate City contract envisages major changes affecting the urban building fabric. Its full implementation implies substantial economic investments by both municipalities and private individuals and concerns the management of procurement and the implementation of many parallel actions.  However, interventions on public and private buildings will ensure economic improvement in terms of savings on utility bills (and, consequently, help for families and situations of energy and economic poverty); greater attention to future urban development; improved livability of urban areas; and the possibility of intercepting the resources allocated, nationally and at the European level, in the building sector – directing them toward compliance with the principles of environmental sustainability.
Financial barriers	<b>Barrier linked to financial instruments</b>	Major financial issues concern the procurement of funds in view of the diversity of actors implementing the actions, their interconnection and the need for their timely availability. At the same time, it is anticipated that many actions will require innovative financial solutions not yet fully in place.



**Table A-3.2: Mapping of systems and stakeholders**

Systems & stakeholders mapping				
System description	Stakeholders involved	Description	Influence	Interest
Public Institutions Local territorial authorities	<b>Regione Piemonte</b> (Regione Piemonte)	The Region can play an instrumental role in raising funds from European and national calls, as well as contrasting climate change by exercising regulatory power and involving the public and businesses in dedicated projects.  The region is developing pathways to encourage efficiency in private buildings. The abatement of pollutant emissions would promote higher standards of environmental protection at the regional level, as well as multiple positive spillovers in various sectors – including tourism, services and the quality of life of citizens.	Driving Facilitating Disseminating Agent * High Influence	High Interest
Public Institutions Local territorial authorities	Città Metropolitana di Torino (Torino Città Metropolitana)	The Città Metropolitana can ensure uniformity of action across the entire local area, extending interventions beyond the city area and involving sectors not otherwise reachable (e.g., farmers, ranchers, suburban transportation, etc.).  The Città Metropolitana's interest in direct participation in the project stems from its role in representing the municipal governments that gravitate around Torino – which can become promoters of change.	Driving Facilitating Disseminating Agent * High Influence	High Interest

**Systems & stakeholders mapping**

Public Institutions Local territorial authorities Municipality of Torino	Gruppo di Lavoro interdipartimentale (Interdepartmental Working Group) "Climate Change" in support of the preparation of the adaptation plan to climate change	With the approval, in January 2018, of a resolution of the City Council proposed by 5 different Departments (Environment, Green and Civil Protection - Urban Planning - Infrastructure and Mobility - Social Policies - Innovation), the Città di Torino has created an Interdepartmental Working Group "Climate Change" to support the preparation of the Climate Change Adaptation Plan.  The goal of the working group was to work in a joint way to identify short- and long-term adaptation options, examining, within the different sectors, any good practices and measures that already exist – including fostering the definition of actions and guidelines to build adaptive capacity at the local level.  Today the same Working Group has also extended its activities on mitigation.	Driving Facilitating Disseminating Agent * High Influence	High Interest
Public Institutions "Consulte comunali" (body of the City Council)	Environmental "Consulta"	The "Consulta" is a body of the City Council with propositional and advisory functions on all issues/policies/initiatives concerning the protection and enhancement of the urban environment and green spaces – established to promote citizen participation in the protection of the environment and green spaces.  In its duties, the Consulta expresses mandatory non-binding opinions on the City's deliberations and may submit proposals that relate to its functions.  Participation in the project is, therefore, necessitated by its very statutory mission.	Facilitating Disseminating Agent * Medium Influence	High Interest
Public Institutions "Consulte comunali" (body of the City Council)	Consulta of Mobility, Cycling and Traffic Moderation	The Consulta's functions also extend to all policies and initiatives concerning mobility-including bicycle mobility, and traffic moderation in the city. The Council exercises a key role in involving citizens and associations in the area on all issues of sustainable mobility and traffic moderation.	Facilitating Disseminating Agent * Medium Influence	High Interest

**Systems & stakeholders mapping**

**Systems & stakeholders mapping**

Public Institutions Subsidiaries and affiliated companies	AMIAT – Azienda Multiservizi Igiene Ambientale Torino S.p.A (Waste collection)	<p>AMIAT is the Company that provides soil hygiene, waste collection and disposal services for the Città di Torino. It also operates waste treatment plants and offers integrated environmental services for public and private business customers.</p> <p>The interest in implementing the environmental protection policies set forth in the CCC stems from the Company's statutory purposes. At the same time, AMIAT can champion important campaigns to raise public awareness of environmental issues and combat climate change.</p>	Driving Facilitating Agent * High Influence	High Interest
Public Institutions Subsidiaries and affiliated companies	GTT – Gruppo Torinese Trasporti (Torino Transportation Group) Public Transport	<p>GTT provides urban and suburban public transport services, as well as the SfmA Torino-Germagnano- Ceres railway line and the new automated system of the Torino subway, with about 200 million passengers per year.</p> <p>Its involvement is strategic both in the actions of renewing the fleet of vehicles used for LPT (Local Public Transport) and in the involvement of the population.</p> <p>The Company pursues, among others, the goal of offering collective transportation and related services to the Torino and regional communities, promoting the economic development of the territory while respecting the environment and social.</p>	Driving Facilitating Disseminating Agent * High Influence	High Interest

Public Institutions Subsidiaries and affiliated companies	SMAT – Società Metropolitana Acque Torino Water networks and systems	<p>SMAT's role in the proper management of drinking water and wastewater makes its involvement in the CCC essential.</p> <p>In 2005 SMAT significantly contributed to the achievement of the Millennium Development Goals for the environmental sustainability of integrated water service management; in March 2006, in Mexico City, it collaborated in drafting the Local Authorities' Declaration on Water at the 4th World Water Forum. The interest stems from the same statutory objectives pursued by the Company, including continuous improvement and enhancement of its resources and water quality/customer service standards.</p> <p>On the international cooperation front, the SMAT Group participates in initiatives aimed at promoting access to water and providing specialized technical assistance for the construction of water infrastructure and facilities.</p> <p>SMAT is also engaged in training activities in collaboration with Hydroaid, International School of Water for Development, of which it is a supporting member.</p>	Driving Facilitating Disseminating Agent * High Influence	High Interest
Public Institutions Subsidiaries and affiliated companies	Iren Energy	<p>Iren launched a 10-year Business Plan in November 2021 aimed at fostering the energy transition and combating ongoing climate change. In March 2023, the Company strengthened its investments, amounting to 10.5 billion euros over the next 8 years (+200 million vs. the 2021-2030 Plan), foreseeing an acceleration in the energy transition through the development of renewable capacity thanks to photovoltaics and onshore and offshore wind, but also through the creation of widespread energy communities.</p> <p>Strongly integrated with sustainability, Iren's industrial strategy revolves around ecological transition, the centrality of communities/people, and is divided into five focus areas: decarbonization, circular economy, water resources, resilient cities, and people.</p>	Driving Facilitating Disseminating Agent * High Influence	High Interest

**Systems & stakeholders mapping**

Public Institutions Subsidiaries and affiliated companies	5T Mobility	Since 1992, 5T Company's Mission has been to design and manage tools and services for territorial mobility, selecting the best technical solutions on the market. It manages the Mobility and Infomobility Central of the Città di Torino and the Metropolitan Città di Torino, and the Central Mobility of the Regione Piemonte. Besides planning and managing the territory's mobility, 5T's activities also include the collection, analysis, and provision of data to support the sector policies of the Member Entities. In addition, the Company promotes the development of new forms of mobility, coordinates strategic projects in Mobility as the Service and Smart Road, works for standardization in the field of transportation, and actively participates in national and European innovation projects, including collaborating and sharing new mobility ideas.	Driving Facilitating Disseminating Agent * High Influence	High Interest
Public Institutions Subsidiaries and affiliated companies	AMP – Agenzia della Mobilità Piemontese (Piedmont Mobility Agency)	AMP is a consortium of local authorities, established in 2003 with the task of improving and optimizing public transport in the Torino metropolitan area. The agency is also a member of the international association EMTA – European Metropolitan Transport Authorities, which represents European Mobility Agencies. The agency aims to improve sustainable mobility in the region by optimizing urban, suburban and rail public transport services.	Driving Facilitating Agent * Medium Influence	High Interest
Public Institutions Subsidiaries and affiliated companies	TRM – Trattamento Rifiuti Metropolitani S.p.A. (Metropolitan Waste Treatment)	TRM is the Iren Group company that designed, built and currently manages the waste-to-energy plant of the Metropolitan Città di Torino. Its involvement in the CCC is necessary in order to ensure the proper and full implementation of actions related to the waste cycle. The company must be involved in the development of active policies, in the management of the waste-to-energy plant, towards the achievement of climate neutrality, in accordance with the values pursued by the entire IREN Group.	Driving Facilitating Agent * High Influence	High Interest

**Systems & stakeholders mapping**

Public Institutions Functional agencies Universities, research institutes, schools	Public and private Universities	University institutions, such as the Politecnico di Torino and the Università di Torino, not only promote sustainability through academic programs, but also hold a crucial role in combating climate change by offering technical support in drafting environmental plans. In addition, through research, universities contribute to the advancement of innovative solutions to climate challenges, generating knowledge critical to guiding the transition to more sustainable practices and more efficient technologies.	Driving Facilitating Disseminating Agent * High Influence	High Interest
Public Institutions Functional agencies Environmental agencies	ARPA – Agenzia regionale per la Protezione Ambientale Piemonte (Regional Agency for Environmental Protection)	ARPA performs, for local authorities, services with an integrated and multidisciplinary approach to environmental issues. Also relevant is the agency's commitment to participation in international projects, particularly in the EU sphere, related to environmental issues, which allow to deepen knowledge and enhance the territory. Its participation is, therefore, important for raising funds and initiating new project-related experiments. ARPA institutionally carries out control, support and technical-scientific consulting activities and other initiatives useful to local authorities in carrying out the tasks assigned to them by law in the field of environmental prevention and protection.	Driving Facilitating Agent * Medium Influence	High Interest
Organized groups Trade associations	Unione Industriali Torino (Torino Industrial Union)	Unione Industriali Torino is a voluntary association of companies at the territorial. It is a member of Confindustria and, as such, can have important effects on its member Companies and the production processes related to them. Unione Industriali Torino represents local companies in various sectors. It is involved in their promotion and development, also with reference to energy transition interventions.	Facilitating Disseminating Agent * High Influence	Medium Interest

**Systems & stakeholders mapping**

Organized groups Trade associations	ANCE – Associazione Nazionale Costruttori Edili  (National Association of Building Contractors)	ANCE is the business association representing Italian companies of any size that operate in the construction industry.  Because of its representativeness in a sector closely connected to the ecological transition, ANCE can be an important channel for the involvement of construction companies.  Among its membership goals ANCE also counts the development of actions to protect the environment.	Facilitating Disseminating Agent * High Influence	Medium Interest
Organized groups Trade associations	Camera di Commercio Torino  (Torino Chamber of Commerce)	The Camera di Commercio Torino is made up of more than 222,000 businesses operating in the city and province. It expresses the synthesis of the area's economic interests, with a focus on civil society and the consumer world.  Its involvement in the Project is considered essential for the proper implementation of the actions planned on a local scale. The Chamber has prepared a multi-year strategic plan, which defines the priority lines of action, among which stands out the necessary increase in the territory's awareness in energy and environmental issues.	Driving Facilitating Agent * High Influence	Medium Interest
Organized groups Trade associations	Professional Associations	The participation of professional associations is important for the success of the project since, by bringing together all professionals working locally in their respective sectors, they can influence their work choices and foster the development of best practices in environmental protection. Collaborations and synergies with this entities aim at fostering the development of actions on environmental protection and energy transition in the different sectors to which the professionals involved belong are conceivable.	Facilitating Disseminating Agent * High Influence	Medium Interest

**Systems & stakeholders mapping**

Corporate Private Companies	PMI – Piccole e Medie Imprese  (Small and Medium-sized Enterprises)	The achievement of the CCC's objectives cannot be separated from a broad involvement of individual private companies, starting with PMIs and ending with multinationals present in the area and already engaged in the fight against climate change.  The interest of private companies in direct involvement in the project depends on a multiplicity of factors including, in particular, employment and economic-financial dimensions, the sector they belong to, international vocation, etc.	Driving Facilitating Disseminating Agent * High Influence	Medium Interest
	Environment Park	Environment Park is the Torino Technology Park that has been active for more than 20 years on environmental innovation. It is a reference for Public Administrations and companies receiving support in their sustainability paths.	Driving Facilitating Disseminating Agent * Medium - High Influence	High Interest
Environmental associations	E.g.: Legambiente, FAI – Fondo per l'Ambiente Italiano, CAI – Club Alpino Italiano	These associations play a key role in developing and proposing actions to protect the environment and raise public awareness	Facilitating Disseminating Agent * Medium Influence	High Interest
Bank Foundations	E.g.: Fondazione Compagnia di San Paolo, Innovation Center, Banca Etica	Bank Foundations are nonprofit, private and autonomous organizations that were created in the early 1990s by the reform of the Italian credit system. They differ in size and territorial operations and intervene in different fields, from welfare to culture, from innovation to the environment, from education to research. The Foundations' mission is to accompany the cultural, social and economic development of their communities and the entire country.	Driving Facilitating Disseminating Agent * High Influence	High Interest

**Systems & stakeholders mapping**

Public Institutions Subsidiaries and affiliated companies	InfraTo	<p>InfraTo<sup>69</sup> is one of the most important public companies at the European level. Owned by the Città di Torino as a single shareholder, it was established on October 1, 2010, following the demerger of a business unit of GTT – Gruppo Torinese Trasporti S.p.A.</p> <p>InfraTo's object is the ownership and management of infrastructure, as well as engineering, design, construction and development of plants, systems and infrastructure, including railways, for both public and private passenger and freight transport systems.</p>	<p>Driving</p> <p>Facilitating</p> <p>Disseminating</p> <p>Agent</p> <p>*</p> <p>High Influence</p>	High Interest
Third Sector		<p>The Third Sector (or nonprofit sector) is the set of those private entities that pursue, on a nonprofit basis, civic, solidarity and socially useful purposes. They promote and carry out activities of general interest through forms of voluntary and gratuitous action or mutuality, and the production/exchange of goods and services.</p>	<p>Driving</p> <p>Facilitating</p> <p>Disseminating</p> <p>Agent</p> <p>*</p> <p>Medium - High Influence</p>	High Interest
Public Institutions Subsidiaries and affiliated companies	Trenitalia	<p>A wholly owned subsidiary of FS Italiane – Ferrovie dello Stato SpA, the company provides railway services throughout national and European territory.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium Influence</p>	High Interest
Citizen private transportation	Citizens	<p>Individual citizens are essential stakeholders in the development of the path to climate neutrality both economically and culturally. Therefore, they will necessarily be involved in a multiplicity of actions, including but not limited to increasing electric mobility, replacing energy-intensive appliances with more up-to-date and efficient versions, making buildings more efficient, etc.</p>	<p>Driving</p> <p>Agent</p> <p>*</p> <p>High Influence</p>	Medium Interest

69 <https://www.infrato.it/home-eng/>

**Systems & stakeholders mapping**

Organized groups Trade associations	<p>ABI – Associazione Bancaria Italiana (Italian Banking Association)</p>	<p>ABI is a voluntary non-profit entity that works to promote knowledge and awareness of social values and behavior inspired by the principles of sound and fair entrepreneurship, as well as the realization of a free and competitive market.</p>	<p>Disseminating</p> <p>Agent</p> <p>*</p> <p>High Influence</p>	Medium Interest
Public Institutions Subsidiaries and affiliated companies	CDP – Cassa Depositi e Prestiti	<p>Established in 1850, CDP is an institution that finances Italy's sustainable development, employing savings to foster growth and employment, supporting business innovation and competitiveness, infrastructure and the territory.</p> <p>It finances the infrastructure and investments of public administrations, also offering integrated support through technical consulting services for all phases of public works implementation. Since 2015 it has been a Istituto Nazionale di Promozione italiano (Italian National Promotion Institute) and offers financial consulting for the use of national and European funds.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>High Influence</p>	Medium Interest
Public Institutions Subsidiaries and affiliated companies	<p>SAGAT – Società Azionaria Gestione Aeroporto Torino (Torino Airport Management Shareholder Company)</p>	<p>SAGAT is the company that has been responsible for the management and development of Torino Airport since 1956.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium - High Influence</p>	Medium Interest
Network of "Case del Quartiere" <sup>70</sup> (Neighborhood Houses Network)		<p>Since 2012, the Case del Quartiere have been promoting joint projects across Houses and territories to spread best practices throughout the city.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium Influence</p>	Medium Interest

70 The network of "Case del Quartiere" is detailed in the Annex II to this Action Plan.

**Systems & stakeholders mapping**

Consortiums	CONAI	<p>CONAI is a private, nonprofit Consortium through which producers and users of packaging ensure the achievement of the statutory recycling and recovery targets for packaging waste.</p> <p>CONAI involves 7 Consortia of materials: steel (Ricrea), aluminum (Cial), paper/cardboard (Comieco), wood (Rilegno), plastics (Corepla), bioplastics (Biorepack), and glass (Coreve), ensuring the necessary link between them and the Public Administration.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium Influence</p>	Medium Interest
Public Institutions Subsidiaries and affiliated companies	Terna	<p>The Terna Group owns Italy's high and extra-high voltage electricity transmission grid (NTG), and is the largest independent power transmission system operator (TSO) in Europe. It performs an indispensable public service role to secure electricity for the country and enable the operation of the entire national electricity system.</p> <p>The Company has been listed on the stock exchange since 2004.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium Influence</p>	Medium Interest
Corporate Private Companies	Publishers	<p>Publishers, i.e., those who publish and disseminate content through media, can play a key role in promoting climate change by educating the public and pushing for sustainable behaviors through disseminating information and promoting environmental solutions.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>High Influence</p>	Low Interest
Public and Private Agencies	Hospitals	<p>Hospitals, as health care institutions, can contribute to climate change by reducing their greenhouse gas emissions, adopting sustainable practices and raising community awareness of environmental health.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium - High Influence</p>	Low Interest
Corporate Private Companies	Shopping malls	<p>Shopping malls, as commercial and consumer entities, can play a crucial role in promoting climate change by adopting sustainable practices, reducing emissions, and raising customers' awareness of the importance of green choices.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>High Influence</p>	Low Interest

**Systems & stakeholders mapping**

Organized groups Trade associations	ANACI – Associazione Nazionale Amministratori e Consulenti Immobiliari (National Association of Property Managers and Consultants)	<p>ANACI can take action through the promotion of sustainable practices in the real estate sector aimed at energy efficiency, responsible management of resources, and raising members' awareness of eco-friendly behaviors.</p>	<p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium Influence</p>	Low Interest
Corporate Private Companies	Fuel distributors	<p>Fuel distributors, if geared toward promoting low-emission fuels can play a positive role in combating climate change. However, if they remain focused on fossil fuels without transitions to more sustainable options, their impact may be negative.</p>	<p>Driving</p> <p>Facilitating</p> <p>Agent</p> <p>*</p> <p>Medium Influence</p>	Low Interest
Corporate Private Companies	Gas and electricity distributors	<p>Gas distributors (e.g.: SNAM<sup>71</sup> and Italgas<sup>72</sup>) supply natural gas to end users, including domestic consumers, businesses and industries. They operate the distribution network that transports gas from supply infrastructure to points of use, ensuring a safe and smooth flow.</p> <p>Electricity distributors (e.g.: IRETI<sup>73</sup>) manage the distribution of electricity from the transmission grid to local distribution networks. They are responsible for ensuring that electricity reaches end users reliably by maintaining and operating infrastructure and resolving any interruptions or problems in supply.</p>	<p>Driving</p> <p>Agent</p> <p>*</p> <p>High Influence</p>	Low Interest

71 <https://www.snam.it>

72 <https://www.italgas.it>

73 <https://www.ireti.it>

**Systems & stakeholders mapping**

Corporate Private Companies	Energy-intensive enterprises	<p>Energy-intensive enterprises are defined by their annual electricity consumption.</p> <p>Until 2018, this consumption had to be greater than or equal to 2.4 GWh with a ratio of actual cost of energy used to sales equal to or greater than 3 percent. Today, it must be greater than or equal to 1 GWh (1,000,000 kWh).</p> <p>They are required to carry out an Energy Diagnosis every 4 years, starting Dec. 5, 2015, and send the documentation to ENEA – Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile (National Agency for New Technologies Energy and Sustainable Economic Development).</p>	Driving Agent * High Influence	Medium Interest
Network of Mobility Managers		The corporate Mobility Manager (MM), i.e., the person in charge of corporate mobility, is responsible for making systematic staff travel more active and sustainable and optimizing it.	Driving Facilitating Disseminating Agent * High Influen	Medium - High Interest
Organized groups ACI – Automobile Club Italiano (Automobile Club of Italy)	e.g.: ACI Global	ACI Global is an instrumental Company of the Automobile Club of Italy. It operates under the regime of "in-house providing" with the objective of creating and delivering assistance services for ACI MEMBERS through an Operational Organizational Structure capable of guaranteeing an effective flow of intervention, from the first request contact until the successful execution.	Driving Facilitating Agent * Medium Influence	Medium Interest

**Systems & stakeholders mapping**

Public Institutions Subsidiaries and affiliated companies	ATC – Agenzia Territoriale per la Casa (Territorial Housing Agency)	<p>ATCs are public services, noneconomic, auxiliary bodies of the Region. Endowed with organizational, patrimonial, administrative, and accounting autonomy, they implement and manage the social housing stock with jurisdiction extended to their respective territorial ambit.</p> <p>The Central ATC Piemonte has its headquarters in Torino and jurisdiction in the 22 aggregates (ambits) of municipalities defined by the Regione Piemonte (Torino and more than 100 municipalities in the entire province, with a wide geographic distribution).</p>	Driving Agent * Medium Influence	Medium Interest
Corporate Private Companies	Housing cooperatives	A housing cooperative is a Limited Liability Company. The society is joined by members for the main purpose of carrying out a construction project through the building, rehabilitation or acquisition of a property. Such property may be assigned to the members on an ownership or usufruct basis. A building cooperative may finance construction through members' savings and with the assistance of a subsidized or ordinary mortgage.	Driving Agent * Medium Influence	Medium Interest
Corporate Private Companies	Cab cooperatives	Cab cooperatives are associations of taxi drivers who work together to provide public transportation services. They can play a role in climate change by adopting low-emission vehicle fleets, promoting eco-friendly practices, and supporting the adoption of cleaner technologies in the transportation sector.	Driving Agent * Medium Influence	Medium Interest

**Systems & stakeholders mapping**

Consortiums	Arriva Italia	<p>Arriva Italia<sup>74</sup> operates Extra-urban Local Public Transport services in the Città di Torino and its Province, as well as rental services with driver.</p> <p>Arriva Italia is part of the Extra.To consortium – the single transport operator for the Metropolitan Città di Torino – to form a single network capable of covering routes throughout the entire province.</p> <p>Arriva Italia has been able to implement sustainable mobility solutions to offer an increasingly green travel experience to its passengers and reduce its environmental impact.</p>	<p>Driving Agent * Medium Influence</p>	Medium Interest
Public Institutions Subsidiaries and affiliated companies	CAAT – centro Agroalimentare Torino (Torino Agri-food Center)	<p>CAAT is among the top three Agri-food Centers in Italy. It is among the most modern facilities on the national scene and facilitates the conduct of wholesale activities of agri-food products.</p> <p>To concretize its commitments to sustainability, CAAT has adopted an Environmental Management System and – with the adoption of ISO 14001 certification – it promotes to increase the environmental awareness and involvement of staff, suppliers and all users in general.</p>	<p>Driving Disseminating Agent * Medium Influence</p>	Medium Interest
Corporate Private Companies	Aziende operatori GDO – Grande Distribuzione Organizzata (Large-scale retail trade)	<p>Large-scale retail trade includes supermarket chains, hypermarkets, and other retail outlets with an extensive distribution network. In the context of climate change, large-scale retail trade can positively influence the environment by implementing sustainable policies, reducing the environmental impact of supply chains, adopting waste management practices, and promoting products with low environmental impact.</p>	<p>Driving Disseminating Agent * Medium Influence</p>	Medium Interest

**Systems & stakeholders mapping**

Local social associations	Diocesan institutes	<p>Diocesan institutes are diocesan-run church institutions, generally under the jurisdiction of a Catholic diocese. In the context of climate change, diocesan institutes can play a positive role by promoting environmental responsibility through awareness-raising initiatives, adopting sustainable practices within church facilities and promoting actions to preserve the environment.</p>	<p>Driving Facilitating Disseminating Agent * Medium Influence</p>	Medium Interest
Corporate Private Companies	Energy suppliers	<p>Energy suppliers (e.g. ENI<sup>76</sup>, ENEL<sup>77</sup>, Edison<sup>78</sup>, etc.) purchase energy potential either directly from producers or through transactions on the energy market exchange in order to offer it to end consumers. These companies manage the commercial and administrative aspects, determining the final cost of energy and sending the related bills. They can promote sustainability through supplies from renewable sources and by offering consumers tariff plans with the inclusion of a guarantee of origin.</p> <p>The energy suppliers themselves represent the main suppliers of electric car charging stations and are, therefore, also of particular importance in the implementation of the CCC's sustainable mobility actions.</p>	<p>Driving Facilitating Agent * High Influence</p>	Medium Interest

74 <https://arriva.it>

75 <https://www.extrato.it>

76 <https://www.eni.com/it-IT/home.html>

77 <https://www.enel.com/it>

78 <https://www.edison.it/it>



## 4.1 Module B-I Climate Neutrality Scenarios and Impact Pathways

**Table B-1.1:**  
Impact pathways in terms of macro-actions,  
systemic levers and direct/indirect impacts

Impact Pathways					
Fields of Actions		Actions/ Outcomes	Systemic Levers	Impacts	
Macro-areas	Sectors			Direct (Em. red.) CO <sub>2</sub> (t/y)	Indirect impacts (co-benefits)
STATIONARY ENERGY	Buildings (Municipal, Residential, Tertiary, Industrial)	District Heating: 70% coverage of TRL network in built volume without new power plants	<p><b>FINANCE &amp; FUNDING</b></p> <p>Meet the costs of financing the connection of buildings to the district heating network</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p>Trigger information and participation initiatives to introduce citizenship to current and future short-term change</p>	-73,237	<p><b>ENERGY BENEFITS (B)</b></p> <p>High overall efficiency levels</p> <p><b>PROPERTY VALUE (D)</b></p> <p>Simplification of plant installation and maintenance work;</p> <p>Enhancement of property value through improved energy classes</p> <p><b>LABOR MARKET (E)</b></p> <p>Increased local job opportunities along the entire value chain using waste heat</p> <p><b>ECONOMIC BENEFITS (F, G)</b></p> <p>Elimination of expenses for purchase, maintenance and installation/revision of boilers and flues</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b></p> <p>Improvement of air quality</p> <p><b>SAFETY (I)</b></p> <p>Absence of combustion and open flames, hazards from gas leaks, burst or fire hazards</p>

# 4. PART B

The target and the way to go for Torino:  
Pathways towards Climate Neutrality by 2030

		Impact Pathways	
STATIONARY ENERGY	Buildings (Municipal, Residential, Tertiary, Industrial)	<p><b>FINANCE &amp; FUNDING</b></p> <p>Consolidate existing financial resources Provide financial incentives to the interventions (residential buildings; tertiary; industry)</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p>Dialogate with the community/ stakeholders on the initiative's relevance (residential buildings; tertiary; industry)</p>	<p><b>ENERGY BENEFITS (A)</b></p> <p>Energy savings</p> <p><b>ECONOMIC BENEFITS (F, G)</b></p> <p>Economic savings in energy bills</p> <p><b>PROPERTY VALUE (D)</b></p> <p>Enhancement of real estate by improving energy classes</p> <p><b>WELLNESS &amp; HEALTH (H)</b></p> <p>Improvement of air quality; Increased comfort and efficiency</p>
	Buildings (Municipal, Residential, Tertiary, Industrial)	<p><b>LEARNING &amp; CAPABILITIES</b></p> <p><b>SOCIAL INNOVATION</b></p> <p>Dialogue with the community by undertaking a participatory process (residential buildings; tertiary)</p> <p><b>GOVERNANCE &amp; POLICY</b></p> <p>Introduce targeted policies to make the connection between the district heating network and the data centre's owners effective (municipal buildings)</p>	<p><b>ECONOMIC BENEFITS (G)</b></p> <p>Reduced and simplified maintenance of data centers; Reduced data center operating costs (especially cooling costs)</p> <p><b>TECHNOLOGICAL INNOVATION (K)</b></p> <p>Creation of high-density centers. High density is advantageous for cooling system dimension, allows selection of more compact equipment, and reduces the footprint occupied in the data center white space and/ or on the outside ground</p>

		Impact Pathways	
STATIONARY ENERGY	Buildings (Municipal, Residential, Tertiary, Industrial)	<p>Heat Pumps feed by PV: Different heat pumps according to energy class; only for buildings using natural gas (50% of buildings in class E and D). Photovoltaic Systems: PV systems to cover the electrical needs of heat pumps</p> <p><b>LEARNING &amp; CAPABILITIES</b></p> <p>Soliciting targeted knowledge and expertise on technology and installation (municipal buildings)</p> <p><b>FINANCE &amp; FUNDING</b></p> <p>Provide financial support for the interventions (residential buildings; tertiary; industry)</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p>Dialogate with the community on the initiative's relevance</p>	<p><b>ENERGY BENEFITS (A)</b></p> <p>Energy savings; Efficient integration with photovoltaic panels</p> <p><b>PROPERTY VALUE (D)</b></p> <p>Enhancement of property value through improvement of energy classes</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b></p> <p>Improvement of air quality</p> <p><b>ECONOMIC BENEFITS (F, G)</b></p> <p>Growth of local economy</p> <p><b>WELLNESS &amp; HEALTH (H)</b></p> <p>Increased comfort</p> <p><b>LABOR MARKET (E)</b></p> <p>Job creation</p>
	Buildings (Municipal, Residential, Tertiary, Industrial)	<p>Electricity Storage: Storage systems to increase self-consumption of locally produced electricity from PV installations.</p> <p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used and the installation of systems, especially with regard to how to work on existing buildings</p> <p><b>GOVERNANCE &amp; POLICY</b></p> <p>Promote targeted policies on fire regulations, installation permits, battery safety assessment protocols</p> <p><b>FINANCE &amp; FUNDING</b></p> <p>Provide financial support to citizens for the interventions</p>	<p><b>ENERGY BENEFITS (A)</b></p> <p>Increased capacity for energy storage; Increased self-consumption of energy</p> <p><b>ECONOMIC BENEFITS (F, G)</b></p> <p>Shift of energy purchase to low-cost periods; Reduction in electricity consumption costs</p> <p><b>PROPERTY VALUE (D)</b></p> <p>Enhancement of property value</p> <p><b>LABOR MARKET (E)</b></p> <p>Local business incentive (maintenance, business development and technological innovation); Job creation</p>

Impact Pathways			
STATIONARY ENERGY	Electrical Equipment: Improvement in energy efficiency class	<p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used (municipal buildings)</p> <p><b>FINANCE &amp; FUNDING</b></p> <p>Provide financial support to citizens for the interventions (residential)</p> <p><b>SOCIAL INNOVATION</b></p> <p>Communicate the initiative's relevance to the community/ stakeholders (residential; tertiary)</p>	<p><b>ENERGY BENEFITS (A)</b></p> <p>Lower energy consumption</p> <p><b>ECONOMIC BENEFITS (F,G)</b></p> <p>Economic savings in energy bills</p> <p><b>SAFETY (I)</b></p> <p>Improved safety of new-generation appliances</p> <p><b>WELLNESS &amp; HEALTH (H)</b></p> <p>Better functioning and increased performances of the new-generation appliances</p> <p><b>GEOPOLITICAL BENEFITS (L)</b></p> <p>Increased autonomy from the national power grid</p>
	Buildings (Municipal, Residential, Tertiary, Industrial)		
	CCS Installation on generation plants for District Heating	<p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used</p> <p><b>FINANCE &amp; FUNDING</b></p> <p>Consolidate the economic resources to realize the intervention</p> <p><b>GOVERNANCE &amp; POLICY</b></p> <p>Trigger/reinforce targeted policies</p> <p><b>SOCIAL INNOVATION</b></p> <p>Dialogue with the community/stakeholders by undertaking a participatory process to enhance the awareness on the initiative</p>	<p><b>LABOR MARKET (E)</b></p> <p>Increased local job opportunities</p> <p><b>TECHNOLOGICAL INNOVATION (K)</b></p> <p>Incentive to technological innovation</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b></p> <p>Improvement of air quality</p>
		0 (*)	
		-38,694	

Impact Pathways			
STATIONARY ENERGY	Policies for the development of energy communities	<p><b>GOVERNANCE &amp; POLICY</b></p> <p>Trigger/reinforce targeted policies (municipal buildings; residential; tertiary; industry)</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p>Dialogue with the community by undertaking a participatory process (municipal buildings; residential; tertiary; industry)</p> <p><b>SOCIAL INNOVATION</b></p> <p>Communicate the initiative's relevance to the community (municipal buildings; residential; tertiary; industry)</p>	<p><b>ECONOMIC BENEFITS (F, G)</b></p> <p>Economic savings in energy bills; Reduction of energy poverty</p> <p><b>ENERGY BENEFITS (A)</b></p> <p>Increase share of affordable and secure energy through the exploitation of a locally available source; Increased autonomy from the national power grid; Increased self-consumption of energy</p> <p><b>LABOR MARKET (E)</b></p> <p>Increased local job opportunities</p>
	Buildings (Municipal, Residential, Tertiary, Industrial)		
	Policies for the development of positive energy districts		
		0 (*)	
		-16,713	
		-707	

Impact Pathways				
STATIONARY ENERGY	Buildings (Municipal, Residential, Tertiary, Industrial)	Energy retrofitting of 800 municipal buildings with Iren (EfficienTO)	-12,134	<p><b>GOVERNANCE &amp; POLICY</b></p> <p>Activate existing policies (municipal buildings)</p> <p><b>ENERGY BENEFITS (A)</b> Energy savings</p> <p><b>ECONOMIC BENEFITS (F, G)</b> Economic savings in energy bills</p> <p><b>LABOR MARKET (E)</b> Job creation</p> <p><b>WELLNESS &amp; HEALTH (H)</b> Increased comfort and efficiency</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b> Improvement of air quality</p>
	Industry	Industrial process efficiency improvement (25% more efficiency)	-82,428	<p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used</p> <p><b>LEARNING &amp; CAPABILITIES</b></p> <p>Soliciting targeted knowledge and expertise on technology and installation</p> <p><b>FINANCE &amp; FUNDING</b></p> <p>Provide financial incentives for the interventions</p> <p><b>ENERGY BENEFITS (A)</b> Energy savings</p> <p><b>ECONOMIC BENEFITS (F, G)</b> Economic savings in energy bills</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b> Improvement of air quality</p>

Part B – The target and the way to go for Torino: Pathways towards Climate Neutrality by 2030

Impact Pathways				
STATIONARY ENERGY	Waste-to-energy plant	Application of CCS	-395,269	<p><b>GOVERNANCE &amp; POLICY</b></p> <p>Promote/reinforce targeted policies</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p>Dialogue with the citizenship by undertaking a participatory process to understand the social dimension of the initiative</p> <p><b>FINANCE &amp; FUNDING</b></p> <p>Provide financial incentives for the interventions</p> <p><b>LABOR MARKET (E)</b> Increased local job opportunities</p> <p><b>TECHNOLOGICAL INNOVATION (K)</b> Incentive to technological innovation</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b> Improvement of air quality</p>
	Lighting	Public LED lighting	-14,504	<p><b>ENERGY BENEFITS (A)</b> Energy savings; Possibility to adjust the light intensity</p> <p><b>ECONOMIC BENEFITS (F, G)</b> Economic savings in energy bills</p> <p><b>WELLNESS &amp; HEALTH (H)</b> Absence of mercury vapours or dangerous substances; Light pollution prevention</p> <p><b>TECHNOLOGICAL INNOVATION (K)</b> Creation of a smart street lighting system, with integration of other services (e.g., systems of sensors for air quality monitoring, smart services like public Wi-Fi, video surveillance or e-mobility services)</p> <p><b>GOVERNANCE &amp; POLICY</b></p> <p>Activate existing policies</p>

Part B – The target and the way to go for Torino: Pathways towards Climate Neutrality by 2030

Impact Pathways

TRANSPORT	Municipal Vehicles	<p>Replacement of ICE vehicles with electric ones</p> <p><b>GOVERNANCE &amp; POLICY</b> Promote/reinforce targeted policies</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b> Dialogue with the citizenship by undertaking a participatory process to understand the social and environmental dimension of the initiative (private transportation)</p>	-688	
	Limitations on private traffic	<p><b>SOCIAL INNOVATION</b> Dialogue with citizenship on the initiative's relevance</p>	-101,936	<p><b>ENERGY BENEFITS (A)</b> Energy savings due to higher efficiency of electric vehicles</p> <p><b>ECONOMIC BENEFITS (F, G)</b> Savings in mobility costs; Lower maintenance requirements of vehicles</p> <p><b>TECHNOLOGICAL INNOVATION (K)</b> Incentive to technological innovation</p>
	Private transport	<p>Replacement of private cars with electric vehicles</p> <p><b>FINANCE &amp; FUNDING</b> Provide financial incentives for the interventions</p> <p><b>SOCIAL INNOVATION</b> Dialogue with citizenship on the initiative's relevance</p>	-77,813	<p><b>LABOR MARKET (E)</b> Development of "green" jobs</p> <p><b>WELLNESS &amp; HEALTH (H)</b> Decreased noise pollution</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b> Improved air quality</p>

Impact Pathways

TRANSPORT	Private transport	<p>Promotion of alternative means of transport (bicycles, etc.): Building cycle paths</p> <p><b>GOVERNANCE &amp; POLICY</b> Promote/reinforce targeted policies</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b> Dialogue with the citizenship by undertaking a participatory process to understand the social and environmental dimension of the initiative</p> <p><b>SOCIAL INNOVATION</b> Dialogue with citizenship on the initiative's relevance</p>	-17,017	
		<p>Development of policies of carsharing with non-ICE vehicles</p> <p><b>GOVERNANCE &amp; POLICY</b> Promote/reinforce targeted policies (platforms for car sharing/ carpooling), normative incentives (priority access to limited access zones)</p>	-25,066	
	Development of policies of carpooling	<p><b>FINANCE &amp; FUNDING</b> Provide financial incentives for the interventions</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b> Dialogue with the citizenship by undertaking a participatory process to understand the social and environmental dimension of the initiative</p> <p><b>SOCIAL INNOVATION</b> Dialogue with citizenship on the initiative's relevance; encourage private citizens' initiative</p>	-50,366	

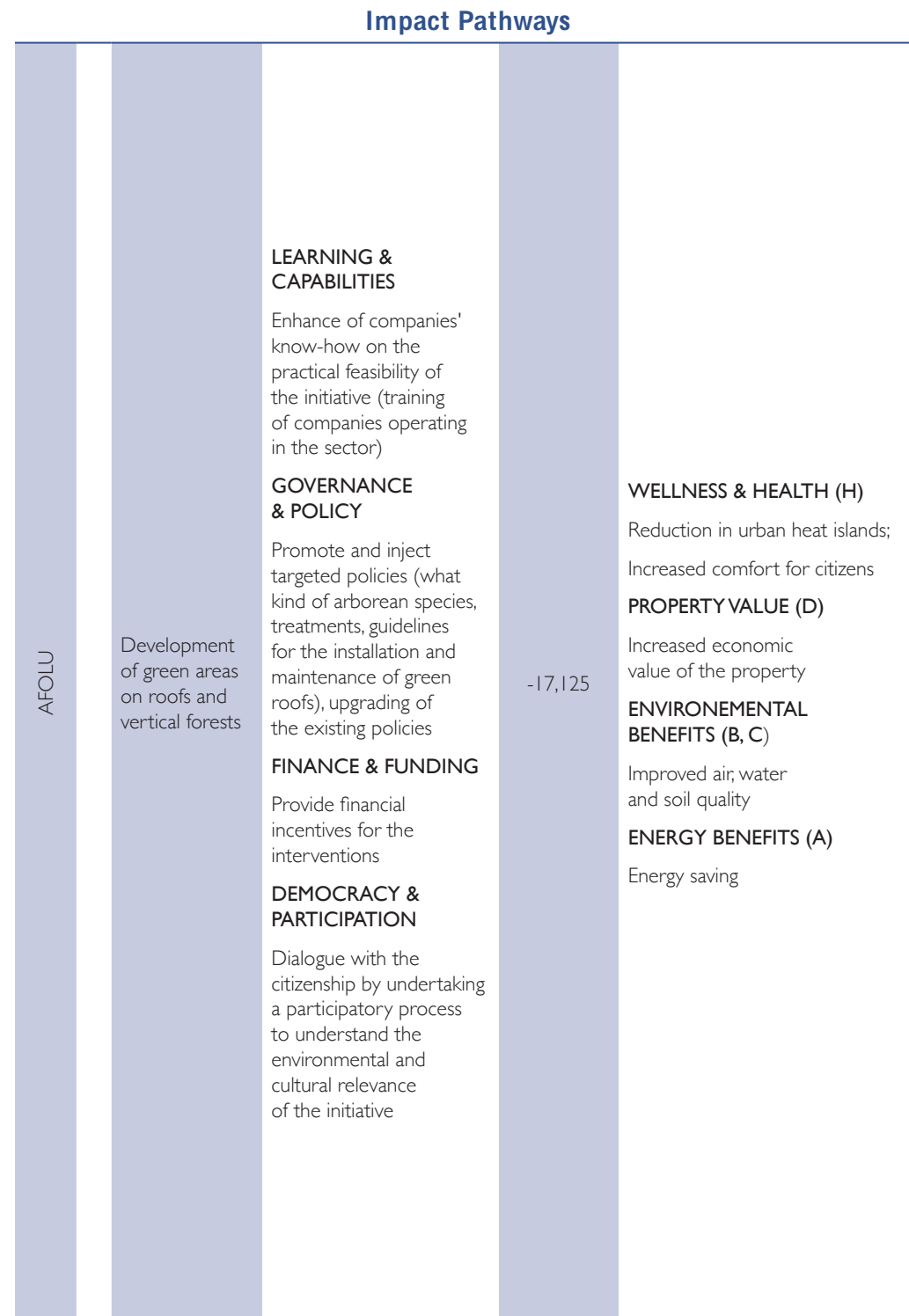
122

Impact Pathways					
WASTE	Public transport	Renewal of the local public transport fleet	<p><b>FINANCE &amp; FUNDING</b></p> <p>Provide financial incentives for the interventions</p> <p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used</p>	-36,363	
		Construction of metro line 2	<p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p>Dialogue with the citizenship by undertaking a participatory process to understand initiative's relevance</p>	-71,840	
	Residual emissions landfill	Elimination of residual emissions from landfills	<p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used</p>	-21,761	<p><b>ENVIRONMENTAL BENEFITS (B, C)</b></p> <p>Improvement of air quality; Improvement of soil quality</p>
		Process efficiency improvement (15% more efficient)	<p><b>GOVERNANCE &amp; POLICY</b></p> <p>Promote and inject targeted policies</p> <p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used</p> <p><b>FINANCE &amp; FUNDING</b></p> <p>Provide financial incentives for the interventions</p>	-2,590	<p><b>ENERGY BENEFITS (A)</b></p> <p>Energy savings due to higher efficiency of wastewater treatments</p> <p><b>ENVIRONMENTAL BENEFITS (B, C)</b></p> <p>Improved air, water and soil quality</p>

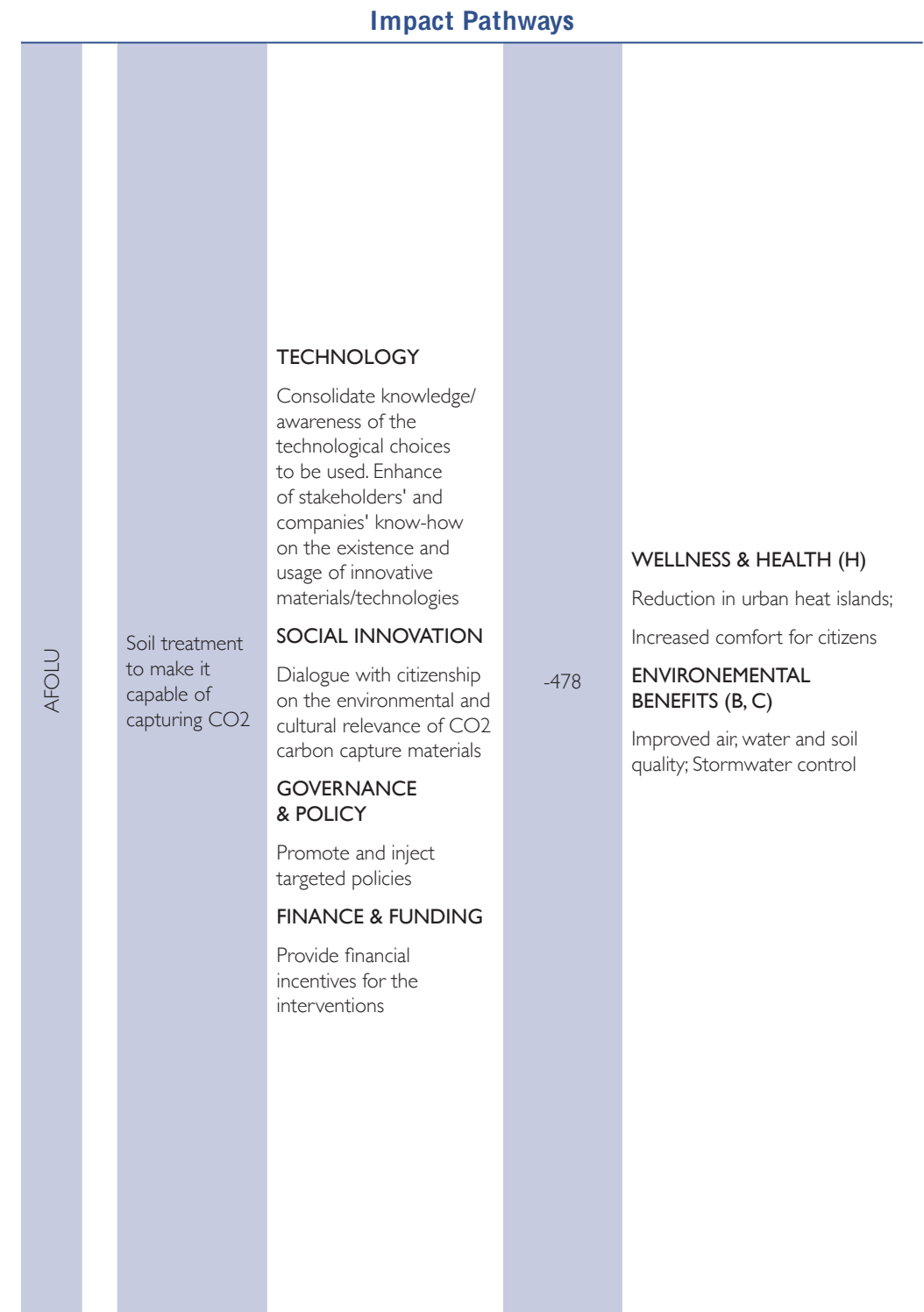
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Impact Pathways					
WASTE	Sorted waste collection	Waste reduction and increase of sorted waste	<p><b>GOVERNANCE &amp; POLICY</b></p> <p>Promote and inject targeted policies</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p><b>SOCIAL INNOVATION</b></p> <p>Dialogue with the citizenship by undertaking a participatory process to understand initiative's relevance</p>	-48,121	<p><b>ECONOMIC BENEFITS (G)</b></p> <p>Promote circular economy</p> <p><b>ENVIRONMENTAL BENEFITS (B, C)</b></p> <p>Improved air, water and soil quality</p>
		Increase in planted trees and green areas	<p><b>GOVERNANCE &amp; POLICY</b></p> <p>Promote and inject targeted policies (what kind of arboreal species, treatments, guidelines for the installation and maintenance)</p>	-57,167	<p><b>WELLNESS &amp; HEALTH (H)</b></p> <p>Reduction in urban heat islands; Increased comfort for citizens</p> <p><b>ENVIRONMENTAL BENEFITS (B, C)</b></p> <p>Improved air, water and soil quality</p>

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Impact Pathways			
ENERGY SYSTEMS	Increase in the share of PV in the electricity generation system	<p><b>TECHNOLOGY</b></p> <p>Consolidate knowledge/ awareness of the technological choices to be used</p> <p><b>LEARNING &amp; CAPABILITIES</b></p> <p>Soliciting targeted knowledge and expertise on technology and installation</p> <p><b>GOVERNANCE &amp; POLICY</b></p> <p>Promote and inject targeted policies</p> <p><b>DEMOCRACY &amp; PARTICIPATION</b></p> <p>Trigger information and participation initiatives to introduce citizenship to current and future short-term change</p>	<p>0 (*)</p> <p><b>GEOPOLITICAL BENEFITS (L)</b></p> <p>Reduction of energy dependence on other countries by lowering the contribution of fossil fuels</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b></p> <p>Improved air quality</p> <p><b>ECONOMIC BENEFITS (F, G)</b></p> <p>Growth of local economy</p> <p><b>LABOR MARKET (E)</b></p> <p>Job creation</p>
	Increase in the share of purchase of certified "Zero Emissions" electricity	<p><b>GOVERNANCE &amp; POLICY</b></p> <p>Promote and inject targeted policies</p>	<p>0 (*)</p> <p><b>LABOR MARKET (E)</b></p> <p>Job creation</p> <p><b>GEOPOLITICAL BENEFITS (L)</b></p> <p>Reduction of energy dependence on other countries by lowering the contribution of fossil fuels</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b></p> <p>Improved air quality</p>
	Variation of the carbon content of Electricity/ Gas/District Heating on the energy consumption (**)	-	<p>-480,530</p> <p><b>ENVIRONMENTAL BENEFITS (B)</b></p> <p>Improved air quality</p>

(\*): These actions have not a direct effect in terms of CO2 emissions reduction, but they allow for a reduction of the emission factor of the electricity generation mix, gas and heat generation for district heating, lowering the emissions associated to the energy consumption in all the other actions.

(\*\*): This action quantifies the effect of emission reduction due to the change of the emission factors for electricity, gas and district heating not directly accounted by the other actions.

## B-I.2: Description of impact pathways

The proposed impact pathway summarized in Table 2.1 is composed by a set of sectorial macro-actions, aiming at significantly lowering the CO<sub>2</sub> emission budget of the city.

These macro-actions, on the one hand, represent the general framework with respect to which all the already defined climate actions and project and the future ones can be categorized and mapped, in order to ensure their coherence with the overall decarbonization strategy of the City, and – on the other hand – push forward and strengthen the main transition goals set in the existing plans and policy actions described in section A-2, both at urban (like the PAESC, TAPE and PUMS plans) and national (like the PNIEC plan) level.

In particular, the main pillars of the proposed macro-actions, in coherence with the principles expressed in the Commitments, are ① the electrification of the urban energy system (especially for what concerns the building and the transport sectors), ② the penetration of renewable energy sources in the electricity generation mix, ③ the increase in energy efficiency (mainly in the building and industrial sector), ④ the promotion of alternative mobility modes with respect to the private one by cars, ⑤ the introduction of innovative technological options for CO<sub>2</sub> sequestration and ⑥ the increase of green areas as natural CO<sub>2</sub> sinks. The overall actions cover 83.3% of the baseline CO<sub>2</sub> emissions, with a relevant emissions reduction in Stationary Energy (-38% with respect to the 2019 emissions of the macro-area) and in Transport (-53%) macro-areas.

In the selection of these actions, not only their direct impacts in terms of emissions reduction have been considered, but also their systemic impacts (allowing for a relevant decrease of the carbon content of electricity, of gas and of heat for district heating, able to reduce the emission factors associated to the consumption of these commodities, thus obtaining a decrease by 20% of the baseline emissions) and their indirect impacts. Concerning the latter, in particular, the possible co-benefits arising from the implementation of these actions have been taken into account, focusing on the positive effects in terms of growth



of local economy, creation of new job positions, and tangible improvement of life quality of citizens. The identified actions, in fact, can act not just as drivers of a change in the urban energy system, but also as levers for a socio-economic development of the City itself along its transition route towards climate neutrality.

## 4.2 Module B-2 Climate Neutrality Portfolio Design

**Table B-2.1: Description of action portfolio**

Macro Area	Sector	Portfolio description			
		Code	Action	Description	
Stationary Energy Systems Built Environment	Municipal Residential Tertiary Industrial	FS1	DST Heating	District Heating: 70% coverage of TRL network in built volume without new power plants.	
		FS2	Thermal Insulation	Thermal Insulation of Buildings: Improvement of thermal insulation in F and G class buildings; further improvements for other classes.	
		FS3	Data Center Heat	Data Centers: Recovery of 55% of waste heat from data centers (Hypothesis: 9% annual increase in data centers).	
		FS4	Heat Pumps	Heat Pumps: Different heat pumps according to energy class; only for buildings using natural gas (50% of buildings in class E and D). Photovoltaic Systems: PV systems to cover the electrical needs of heat pumps	
		FS5	Elec Storage	Electricity Storage: Storage systems to increase self-consumption of locally produced electricity from PV installations.	
		FS6	Energy Class	Electrical Equipment: Improvement in energy efficiency class.	
		FS7	CCS Installation	CCS Installation on Iren generation plants for District Heating	
		FS8	Energy Community	Policies for the development of energy communities	
		FS9	Positive Energy Dist	Policies for the development of positive energy districts	
		FS10	Municipal Buildings	Energy retrofitting of 800 municipal buildings with Iren (EfficienTO).	
		FS11	Industrial Processes	Industrial process efficiency improvement (25% more efficiency)	
		FS12	Waste-to-Energy Plant	CCS Waste App	Implementation of Line 4 of the plant and application of CCS
		FS13	Public Lighting	Public Lighting	Replacement of traditional lamps with new LED lamps

Transport	Municipal Transport	FT1	Municipal Vehicles	Replacement of ICE vehicles with electric ones
	Private Transport	FT2	Limitation on traffic	Limitations on private traffic
		FT3	Electrification Private Cars	Replacement of private cars with electric vehicles
		FT4	Bicycle Promotion	Promotion of alternative means of transport (bicycles, etc.): Building cycle paths
		FT5	Carsharing Promotion	Development policies of carsharing with Non-ICE vehicles
		FT6	Carpooling Promotion	Development policies of car pooling
		Public Transport	FT7	GTT Bus Renewal
	FT8		Metro L2	Construction of Metro Line 2
Waste	Landfill Residual Emissions	FW1	Landfill Residual	Elimination of residual emissions from landfills
	Wastewater treatment	FW2	Wastewater Treatment	Process efficiency improvement (15% more efficient)
	Waste Reduction and increase of sorted waste	FW3	Sorted Waste collection	Reduction of waste generation, reduction of waste sent to waste-to-energy plant by the Città di Torino and increase in sorted waste collection
AFOLU	-	FG1	Planted Trees	Increase in planted trees and green areas
		FG2	Green Roofs	Development of green areas on roofs and vertical forests
		FG3	Soil Treatments	Soil treatment to make it capable of capturing CO2
Energy Systems	PV Share Increase	FE1	PV Share Increase	Increase in the share of PV in the electricity generation system
	Green Certified Electricity	FE2	Green Certified Electricity	Increase in the share of purchase of Zero Emissions Electricity
	Emission Factors	FE3	Emission Factors	Variation of the carbon content of Electricity/Gas/District Heating on the energy consumption

**Table B-2.2: Individual actions outline**

**B-2.2: Individual actions outline**

FS1 - DST Heating		
Action outline	Action name	DST Heating
	Action type	Technical
	Action description	District Heating: 70% coverage of TRL network in built volume without new power plants.
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever(s)	Finance & Funding Democracy & Participation
Implementation	Responsible bodies/person for implementation	IREN
	Action scale & addressed entities	Municipal scale
	Involved stakeholders	IREN, Municipality, Citizens
	Comments on implementation	Already planned and budgeted
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Substitution of natural gas
	GHG emissions reduction estimate (total) per emission source sector	73,237 t/y
	Investment costs and costs by CO2e unit	211 M€; 2,882 €/t
FS2-Thermal Insulation		
Action outline	Action name	FS2-Thermal Insulation
	Action type	Technical
	Action description	Thermal Insulation of Buildings: Improvement of thermal insulation in F and G class buildings; further improvements for other classes
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Finance & Funding Democracy & Participation

**B-2.2: Individual actions outline**

Implementation	Responsible bodies/person for implementation	Owners of buildings
	Action scale & addressed entities	Buildings class F & G in city, other classes
	Involved stakeholders	Municipality, Engineering and Installation companies
	Comments on implementation	Need for comprehensive planning of human and technical resources, administrative processes, and of financial instruments. The municipality will open a dedicated contact point to this end.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Reduction in energy consumption
	GHG emissions reduction estimate (total) per emission source sector	144,893 t/y
	Investment costs and costs by CO2e unit	6,042 M€; 41,699 €/t
<b>FS3 – Data Center Heat</b>		
Action outline	Action name	Data Center Heat
	Action type	Technical
	Action description	Data Centers: Recovery of 55% of waste heat from data centers (Hypothesis: 9% annual increase in data centers)
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Governance & Policy Learning & Capabilities Social Innovation

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**B-2.2: Individual actions outline**

Implementation	Responsible bodies/person for implementation	Owners/operators of data centers
	Action scale & addressed entities	All data centers in city
	Involved stakeholders	IREN, developers of data centers
	Comments on implementation	This action will require a close dialogue between the operators of the Data Centers and the operator of the district heating facilities (IREN). The municipality will facilitate this operation and accelerate all needed administrative steps with a dedicated contact point.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Reduction of heat generation from other sources
	GHG emissions reduction estimate (total) per emission source sector	- (*)
	Investment costs and costs by CO2e unit	7 M€; - (*)
<b>FS4 – Heat Pumps</b>		
Action outline	Action name	Heat Pumps feed by PV
	Action type	Technical
	Action description	Heat Pumps: Different heat pumps according to energy class; only for buildings using natural gas (50% of buildings in class E and D). Photovoltaic Systems: PV systems to cover the electrical needs of heat pumps
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Learning & Capabilities Finance & Funding Democracy & Participation

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**B-2.2: Individual actions outline**

Implementation	Responsible bodies/person for implementation	Owners of buildings
	Action scale & addressed entities	Buildings class E & D in city
	Involved stakeholders	Municipality, Engineering and Installation companies
	Comments on implementation	Need for comprehensive planning of human and technical resources, administrative processes, and of financial instruments. The municipality will open a dedicated contact point to this end.
Impact & cost	Generated renewable energy (if applicable)	Green electricity generation
	Removed/substituted energy, volume or fuel type	Substitution of natural gas with electricity
	GHG emissions reduction estimate (total) per emission source sector	224,872 t/y
		2,253 M€; 10,018 €/t
<b>FS5 – Electricity Storage</b>		
Action outline	Action name	Electricity Storage
	Action type	Technical
	Action description	Electricity Storage: Storage systems to increase self-consumption of locally produced electricity from PV installations
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Technology Governance & Policy Finance & Funding
	Responsible bodies/person for implementation	Owners of PV installations
Implementation	Action scale & addressed entities	All PV installations in city
	Involved stakeholders	Engineering companies
	Comments on implementation	Need for comprehensive planning of human and technical resources, administrative processes, and of financial instruments. The municipality will open a dedicated contact point to this end.

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**B-2.2: Individual actions outline**

Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	29,152 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	391 M€; 13,419 €/t
<b>FS6 – Energy Class of equipment</b>		
Action outline	Action name	Energy Class
	Action type	Technical
	Action description	Electrical Equipment: Improvement in energy efficiency class.
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Technology Finance & Funding Social Innovation
	Responsible bodies/person for implementation	Citizens, companies
Implementation	Action scale & addressed entities	All city dwellings and buildings
	Involved stakeholders	Citizens, companies, suppliers of appliances
	Comments on implementation	Need for comprehensive planning of human and technical resources, administrative processes, and of financial instruments. The municipality will open a dedicated contact point to this end, mainly for citizens. For tertiary and industrial actors, the municipality will establish a joint table for co-designing the intervention.

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**B-2.2: Individual actions outline**

Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Reduction in electricity consumption
	GHG emissions reduction estimate (total) per emission source sector	38,694 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	2,463 M€; 63,648 €/t
<b>FS7 – CCS Installation on DH</b>		
Action outline	Action name	CCS Installation
	Action type	Technical
	Action description	CCS Installation on Iren generation plants for District Heating
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Technology Finance & Funding Governance & Policy Social Innovation
Implementation	Responsible bodies/person for implementation	IREN
	Action scale & addressed entities	Cogeneration plant Iren Torino Nord
	Involved stakeholders	Technology providers, Municipality
	Comments on implementation	As the responsible entity is the operation of the district heating system (IREN), the municipality will support and facilitate any required administrative process.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	- (*)
	Investment costs and costs by CO <sub>2</sub> e unit	120 M€; - (*)
<b>FS8 – Energy Community</b>		

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**B-2.2: Individual actions outline**

Action outline	Action name	Energy Community
	Action type	Policy; technical
	Action description	Policies for the development of energy communities. Reduction of CO <sub>2</sub> emissions for private residential buildings due to the introduction of Renewable Energy Communities (RECs) in Torino <sup>79</sup>
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Governance & Policy Democracy & Participation Social Innovation
Implementation	Responsible bodies/person for implementation	All citizens, Municipality
	Action scale & addressed entities	Municipal district
	Involved stakeholders	Citizens, municipality, technology providers
	Comments on implementation	This action will require a close integration of social, economic and technical measures. The municipality will call a joint table with the operator of the power distribution grid (IREN), other relevant technical and business actors, and representatives of civil society and social actors. The intervention will have an overall reach, but will be organised as more convenient in the various city districts.
Impact & cost	Generated renewable energy (if applicable)	Green electricity generation
	Removed/substituted energy, volume or fuel type	Self-consumption of electricity
	GHG emissions reduction estimate (total) per emission source sector	16,713 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	198 M€; 11,868 €/t

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<sup>79</sup> Renewable Energy Communities are Associations of private individuals (citizens, institutions and enterprises) that implement renewable energy production and self-consumption facilities.

**B-2.2: Individual actions outline**

FS9 – Positive Energy Districts		
Action outline	Action name	Positive Energy Districts
	Action type	Policy; technical
	Action description	Policies for the development of positive energy districts
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Governance & Policy Democracy & Participation Social Innovation
Implementation	Responsible bodies/person for implementation	All citizens, Municipality
	Action scale & addressed entities	Municipal district
	Involved stakeholders	Citizens, municipality, technology providers
	Comments on implementation	This action will require a close integration of social, economic and technical measures. The municipality will call a joint table with the operator of the power distribution grid (IREN), other relevant technical and business actors, and representatives of civil society and social actors. The intervention will begin by selecting the potential districts.
Impact & cost	Generated renewable energy (if applicable)	Green electricity generation
	Removed/substituted energy, volume or fuel type	Self-consumption of electricity; reduction in energy consumption
	GHG emissions reduction estimate (total) per emission source sector	707 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	12 M€; 17,488 €/t

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**B-2.2: Individual actions outline**

FS10 – Municipal Buildings Retrofitting		
Action outline	Action name	Municipal Buildings
	Action type	Technical
	Action description	Energy retrofitting of 800 municipal buildings with Iren (EfficienTO)
Reference to impact pathway	Field of action	Stationary Energy Systems; Built Environment (Municipal, Residential, Tertiary, Industry)
	Systemic lever	Governance & Policy
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	All buildings owned by municipality
	Involved stakeholders	Municipality, technology providers, engineering companies
	Comments on implementation	Already planned and partially budgeted
Impact & cost	Generated renewable energy (if applicable)	Green electricity generation
	Removed/substituted energy, volume or fuel type	Reduction in energy consumption; substitution of natural gas with electricity
	GHG emissions reduction estimate (total) per emission source sector	12,134 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	110 M€; 9,065 t/y
FS11 – Industrial Processes		
Action outline	Action name	Industrial Processes
	Action type	Technical
	Action description	Industrial process efficiency improvement (25% more efficiency)
Reference to impact pathway	Field of action	Stationary Energy Systems; Industrial
	Systemic lever	Technology Learning & Capabilities Finance & Funding

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**B-2.2: Individual actions outline**

Implementation	Responsible bodies/person for implementation	Industrial companies
	Action scale & addressed entities	Industries
	Involved stakeholders	Industrial companies, technology providers, engineering companies
	Comments on implementation	As the main actors are the operators of the industrial operators, the municipality will establish a joint table for co-designing the intervention.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Reduction in energy consumption
	GHG emissions reduction estimate (total) per emission source sector	82,428 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	237 M€; 2,875 €/t
<b>FS12 – CCS on Waste-to-energy plant</b>		
Action outline	Action name	CCS Waste App
	Action type	Technical
	Action description	Implementation of Line 4 of the plant and application of CCS
Reference to impact pathway	Field of action	Stationary Energy Systems; District Heating
	Systemic lever	Governance & Policy Democracy & Participation Finance & Funding
Implementation	Responsible bodies/person for implementation	TRM
	Action scale & addressed entities	TRM waste-to-energy plant
	Involved stakeholders	Municipality, TRM, technology providers, engineering companies
	Comments on implementation	The intervention is the responsibility of the operator of the facility (TRM). The municipality will support and facilitate any required administrative process.

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**B-2.2: Individual actions outline**

Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	395,269 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	465 M€; 1,176 €/t
<b>FS13 – Public Lighting</b>		
Action outline	Action name	Public lighting
	Action type	Technical
	Action description	Public LED lighting
Reference to impact pathway	Field of action	Stationary Energy Systems; Lighting
	Systemic lever	Governance & Policy
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Municipal vehicle fleet
	Involved stakeholders	Municipality
	Comments on implementation	Already planned and budgeted
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Substitution of petroleum products with electricity
	GHG emissions reduction estimate (total) per emission source sector	688 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	25 M€; 35,995 €/t
<b>FT2 – Limitation on traffic</b>		
Action outline	Action name	Limitation on traffic
	Action type	Policy
	Action description	Limitations on private traffic
Reference to impact pathway	Field of action	Transport; Private Transport
	Systemic lever	Governance & Policy Democracy & Participation Social Innovation

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**B-2.2: Individual actions outline**

Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, citizens
	Comments on implementation	As responsible for the intervention, the municipality will launch a co-design process with relevant social actors.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Reduction in energy consumption
	GHG emissions reduction estimate (total) per emission source sector	101,936 t/y
	Investment costs and costs by CO2e unit	2 M€; 35 €/t
<b>FT3 – Electrification Private Cars</b>		
Action outline	Action name	Electrification Private Cars
	Action type	Technical
	Action description	Replacement of private cars with electric vehicles
Reference to impact pathway	Field of action	Transport; Private Transport
	Systemic lever	Technology Finance & Funding Social Innovation

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**B-2.2: Individual actions outline**

Implementation	Responsible bodies/person for implementation	Citizens
	Action scale & addressed entities	Private vehicles fleet
	Involved stakeholders	Citizens
	Comments on implementation	The action relies on actions by the owners of vehicles. The replacement of current vehicles based on combustion engines with electric ones will be accompanied by the municipality with information campaigns, including the potential access to financial support.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Substitution of petroleum products with electricity
	GHG emissions reduction estimate (total) per emission source sector	77,813 t/y
	Investment costs and costs by CO2e unit	3,416 M€; 43,896 €/t
<b>FT4 – Bicycle Promotion</b>		
Action outline	Action name	Bicycle Promotion
	Action type	Policy; technical
	Action description	Promotion of alternative means of transport: building cycle paths. Encouragement of commuters' modal shift from car trips to cycling in the Città di Torino to enhance CO2 emission reduction by improving cycling infrastructure and adaptation results in a shift from car usage to cycling in urban areas

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**B-2.2: Individual actions outline**

Reference to impact pathway	Field of action	Transport; Private Transport
	Systemic lever	Governance & Policy Democracy & Participation Social Innovation
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, citizens
	Comments on implementation	The municipality will extend the current cycling infrastructure, including paths, lanes, tracks and parking. In addition, the municipality will accompany this with information campaigns.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	17,017 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	259 M€; 15,205 €/t
<b>FT5 – Carsharing Promotion</b>		
Action outline	Action name	Carsharing Promotion
	Action type	Policy; technical
	Action description	Development of policies of carsharing with Non-ICE vehicles. Encouragement of the transition from Private Car (PC) trips to Car Sharing (CS) through the implementation of the electric CS fleet to 9.6%

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**B-2.2: Individual actions outline**

Reference to impact pathway	Field of action	Transport; Private Transport
	Systemic lever	Governance & Policy Finance & Funding Democracy & Participation Social Innovation
Implementation	Responsible bodies/person for implementation	Municipality, carsharing companies
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, carsharing companies, citizens
	Comments on implementation	The municipality will call a joint table with current and potential operators of carsharing companies and social actors for co-designing the expansion of available services. In addition, the municipality will accompany this with information campaigns.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Reduction in energy consumption; substitution of petroleum products with electricity
	GHG emissions reduction estimate (total) per emission source sector	25,066 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	544 M€; 21,683 €/t
<b>FT6 – Carpooling Promotion</b>		
Action outline	Action name	Carpooling Promotion
	Action type	Policy
	Action description	Development of carpooling policies. Encouragement of commuters' modal shift from individual car trips to carpooling

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**B-2.2: Individual actions outline**

Reference to impact pathway	Field of action	Transport; Private Transport
	Systemic lever	Governance & Policy Finance & Funding Democracy & Participation Social Innovation
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, carpooling service companies, citizens
	Comments on implementation	The municipality will call a joint table with social actors for co-designing the expansion of relevant initiatives. In addition, the municipality will accompany this with information campaigns.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	50,366 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	1 M€; 18 €/t
<b>FT7 – GTT Bus Renewal</b>		
Action outline	Action name	GTT Bus Renewal
	Action type	Policy; technical
	Action description	Renewal of the local public transport fleet
Reference to impact pathway	Field of action	Transport; Public Transport
	Systemic lever	Finance & Funding Technology
Implementation	Responsible bodies/person for implementation	Municipality, GTT company
	Action scale & addressed entities	Public bus fleet
	Involved stakeholders	Municipality, GTT company, citizens
	Comments on implementation	Already planned and partially budgeted by the operator GTT

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**B-2.2: Individual actions outline**

Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Substitution of petroleum products with electricity
	GHG emissions reduction estimate (total) per emission source sector	36,363 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	485 M€; 13,341 €/t
<b>FT8 – Metro Line 2</b>		
Action outline	Action name	Metro Line 2
	Action type	Policy; technical
	Action description	Construction of Metro Line 2 - Reduction of CO <sub>2</sub> emissions due to the implementation of subway Line 2
Reference to impact pathway	Field of action	Transport; Public Transport
	Systemic lever	Democracy & Participation
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, technology providers, engineering companies, citizens
	Comments on implementation	Already planned and partially budgeted
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Substitution of petroleum products with electricity
	GHG emissions reduction estimate (total) per emission source sector	71,840 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	4,926 M€; 68,573 €/t

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**B-2.2: Individual actions outline**

FW1 – Landfill Residual Emissions		
Action outline	Action name	Landfill Residual Emissions
	Action type	Technical
	Action description	Elimination of residual emissions from landfills. Reduction of CO2 emissions due to the exhaustion of residual emissions from the landfill in Torino
Reference to impact pathway	Field of action	Waste; Landfill Residual
	Systemic lever	Technology
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Basse di Stura landfill
	Involved stakeholders	Municipality
	Comments on implementation	Current interventions are already planned and budgeted. After this, there is no further investment, only supervising the evolution of the landfill until the exhaustion of the residual emissions.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	21,761 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	-
FW2 – Wastewater Treatment		
Action outline	Action name	Wastewater Treatment
	Action type	Technical
	Action description	Process efficiency improvement (15% more efficient)
Reference to impact pathway	Field of action	Waste; Wastewater Treatment
	Systemic lever	Governance & Policy Technology Finance & Funding

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**B-2.2: Individual actions outline**

Implementation	Responsible bodies/person for implementation	SMAT
	Action scale & addressed entities	Treatment plant
	Involved stakeholders	Municipality, SMAT
	Comments on implementation	Responsible of the action is the operator SMAT. No major investment foreseen.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	Reduction in energy consumption
	GHG emissions reduction estimate (total) per emission source sector	2,590 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	-
FW3 – Sorted Waste Collection		
Action outline	Action name	Waste Reduction and increase of sorted waste
	Action type	Policy; technical
	Action description	Reduction of waste generation, reduction of waste sent to waste-to-energy plant by the Città di Torino and increase in sorted waste collection
Reference to impact pathway	Field of action	Waste; Waste Treatment
		Governance & Policy Democracy & Participation Social Innovation
Implementation	Responsible bodies/person for implementation	Municipality, AMIAT
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, AMIAT, citizens
	Comments on implementation	The action requires minor investments, but an overall change of behavior by all social actors for reducing the production of waste. The municipality will support this with information campaigns.

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**B-2.2: Individual actions outline**

Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	48,121 t/y
	Investment costs and costs by CO2e unit	1 M€; 31 €/t
<b>FGI – Planted Trees</b>		
Action outline	Action name	Planted Trees
	Action type	Technical
	Action description	Increase in planted trees and green areas. Assessment of green areas expansion feasibility and CO2 absorption potential
Reference to impact pathway	Field of action	AFOLU; Planted Trees
	Systemic lever	Learning & Capabilities Governance & Policy
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Urban green areas
	Involved stakeholders	Municipality, private actors
	Comments on implementation	Already planned and partially budgeted. The municipality will increment the interactions with private actors for better coordination.
Impact & cost	Generated renewable energy (if applicable)	N/A
	Removed/substituted energy, volume or fuel type	N/A
	GHG emissions reduction estimate (total) per emission source sector	57,167 t/y
	Investment costs and costs by CO2e unit	120 M€; 2,099 €/t

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**B-2.2: Individual actions outline**

<b>FG2 – Green Roofs</b>		
Action outline	Action name	FG2 - Green Roofs
	Action type	Technical
	Action description	Development of green areas on roofs and vertical forests. Assessment of green roofs deployment and their potential for CO2 absorption
Reference to impact pathway	Field of action	AFOLU; Green Roofs
	Systemic lever	Learning & Capabilities Governance & Policy Finance & Funding Democracy & Participation
Implementation	Responsible bodies/person for implementation	Citizens
	Action scale & addressed entities	Flat roofs in urban areas
	Involved stakeholders	Citizens, installation companies
	Comments on implementation	This action will require a close integration of social, economic and technical measures. The municipality will call a joint table with the social actors and relevant technical and business actors. The intervention will begin by selecting the potential first projects, for then disseminating information and promoting similar actions.

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**B-2.2: Individual actions outline**

Impact & cost	Generated renewable energy (if applicable)	N/A
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	17,125 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	4,521 M€; 264,000 €/t
<b>FG3 – Soil Treatments</b>		
Action outline	Action name	Soil Treatments
	Action type	Technical
	Action description	Soil treatment to make it capable of capturing CO <sub>2</sub> . Assessment of permeabilization of impermeable areas feasibility and CO <sub>2</sub> absorption potential
Reference to impact pathway	Field of action	AFOLU; Soil Treatments
	Systemic lever	Technology Social Innovation Governance & Policy Finance & Funding
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, technical companies
	Comments on implementation	This action will require a close integration of social, economic and technical measures. The municipality will call a joint table with the social actors and relevant technical and business actors. The intervention will begin by selecting the potential first projects, for then disseminating information and promoting similar actions.

**B-2.2: Individual actions outline**

Impact & cost	Generated renewable energy (if applicable)	N/A
	Removed/substituted energy, volume or fuel type	N/A
	GHG emissions reduction estimate (total) per emission source sector	478 t/y
	Investment costs and costs by CO <sub>2</sub> e unit	183 M€; 383,009 €/t
<b>FEI – PV Share Increase</b>		
Action outline	Action name	PV Share Increase
	Action type	Technical
	Action description	Increase in the share of PV in the electricity generation system
Reference to impact pathway	Field of action	Energy systems
	Systemic lever	Technology Learning & Capabilities Governance & Policy Democracy & Participation
Implementation	Responsible bodies/person for implementation	Municipality, citizens
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, Engineering and Installation companies, citizens
	Comments on implementation	This action will require investments in large scale PV installations. The municipality will establish a working group with the operators of the transmission and distribution grids (TERNA and IREN), and relevant business actors.
Impact & cost	Generated renewable energy (if applicable)	Green electricity generation
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	- (*)
	Investment costs and costs by CO <sub>2</sub> e unit	82 M€; - (*)

**B-2.2: Individual actions outline**

FE2 – Green Certified Electricity		
Action outline	Action name	Green Certified Electricity
	Action type	Policy
	Action description	Increase in the share of purchase of certified "Zero Emissions" electricity
Reference to impact pathway	Field of action	Energy systems
	Systemic lever	Technology Learning & Capabilities Governance & Policy Democracy & Participation
Implementation	Responsible bodies/person for implementation	Municipality
	Action scale & addressed entities	Urban area
	Involved stakeholders	Municipality, IREN
	Comments on implementation	The municipality will launch a dialogue with the operator IREN for establishing a strategy for the acquisition of green certified electricity for Torino.
Impact & cost	Generated renewable energy (if applicable)	Electricity certified as green
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	- (*)
	Investment costs and costs by CO2e unit	- (*)
FE3 – Emission Factors (**)		
Action outline	Action name	Emission Factors
	Action type	Technical
	Action description	Variation of the carbon content of Electricity/Gas/District Heating on the energy consumption

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**B-2.2: Individual actions outline**

Reference to impact pathway	Field of action	Energy systems
	Systemic lever	Technology
		Learning & Capabilities
		Governance & Policy Democracy & Participation
Implementation	Responsible bodies/person for implementation	-
	Action scale & addressed entities	Energy system
	Involved stakeholders	-
	Comments on implementation	This action results from the implementation of other actions and the impact on the consumption of energy. The municipality will follow the resulting value and inform the city actors.
Impact & cost	Generated renewable energy (if applicable)	NA
	Removed/substituted energy, volume or fuel type	NA
	GHG emissions reduction estimate (total) per emission source sector	480,530
	Investment costs and costs by CO2e unit	-

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(\*): These actions have not a direct effect in terms of CO2 emissions reduction, but they allow for a reduction of the emission factor of the electricity generation mix, gas and heat generation for district heating, lowering the emissions associated to the energy consumption in all the other actions

(\*\*): This action quantifies the effect of emission reduction due to the change of the emission factors for electricity, gas and district heating not directly accounted by the other actions

In the calculation of CO<sub>2</sub> emissions, the evaluation of carbon content in commodities, such as electricity, gas, and district heating, is crucial. This is quantified in terms of emission factors, indicating the amount of CO<sub>2</sub> produced per unit of energy (kgCO<sub>2</sub>/kWh).

Emission factors can be determined at the national level based on existing values and future projections (e.g., 2030), or at the municipal level in a base year. When undertaking initiatives to guide a city towards carbon neutrality, changes in commodity consumption composition are made, emphasizing renewable sources or procuring "green" (carbon-free) certified products.

This alteration affects the emission factor of the commodity. For instance, the national emission factor for electricity in 2019 is 0.269 kgCO<sub>2</sub>/kWh, expected to decrease to 0.0767 kgCO<sub>2</sub>/kWh by 2030, aligning with the projected increase in renewables in the national electricity mix outlined in the National Integrated Plan for Energy and Climate (PNIEC). At the municipal level, the emission factor is lower (0.245 kgCO<sub>2</sub>/kWh in 2019) due to factors like the presence of PV plants within the city and the use of Green Certified electricity.

Actions taken within the Climate City Contract, such as installing new PVs or procuring additional Green Certificated electricity, necessitate a recalculation of the local emission factor of electricity, which is then applied to the overall electricity consumption. Similarly, the introduction of biogas reduces the emission factor of the gas commodity, and utilizing waste heat from data centers reduces the emission factor of district heat.

In the calculation of CO<sub>2</sub> emissions, this "summation effect" is considered, accounting for the cumulative impact of all actions. The projected municipal emission factors for 2030 are: electricity 0.0302 kgCO<sub>2</sub>/kWh, gas 0.1798 kgCO<sub>2</sub>/kWh, and district heat 0.1050 kgCO<sub>2</sub>/kWh.

Besides the set of macro-actions, a portfolio of all the "micro-actions" already in progress or to be developed in the City has been created, uploaded in the CLICC web platform in order to monitor their evolution over time, and reported in Annex I, mapping them with respect to the related macro-actions domain. This portfolio includes micro-actions, under the direct responsibility of the Municipality and of the City's stakeholders, already implemented starting from 2019, currently ongoing and planned/funded to be implemented by 2030.

## B-2.3: Summary strategy for residual emissions

By 2030, the Città di Torino will still have, in spite of a substantial effort, between 15% and 20% of residual CO<sub>2</sub> emissions compared to the 2019 baseline. The city intends to follow several paths for furthering the path towards climate neutrality, namely:

- Continuation of the mitigation of emissions in the building stock:
  - \* The effort for improving the **energy performance of buildings** will go on up to at least 2050. It must be taken into consideration the large stock (more than 130,000 buildings, and the age of a great majority of them). This process cannot be easily accelerated as it depends on two factors that are impossible to resolve: specialized manpower for the execution of the work in suitable numbers for the quantity of buildings to revamp, and investments instruments fitting the financial faculties of the owners of the residential dwellings.
  - \* Optimize the local production of electricity from **photovoltaic** in buildings and urban areas, including their integration in energy communities and positive energy districts.
  - \* This will be complemented by the application of new rules for **new buildings and civil construction in general**. One can anticipate the use of low-carbon or recycled building materials.
- The **electrification of the vehicle stock** will carry on at a pace that although foreseen as persistent is hard to anticipate as it depends on the evolution of technologies and the car market. This, together with the steady extension of public transport and the adoption by the public of solutions such as transport-as-service, car-sharing and car-pooling, will minimize the remainder emissions from transport.
- Test and apply as more convenient innovative **nature-based solutions (NBS)** to reduce and remove emissions: this will include: 1) The study of biochar, adding it to terrains as

convenient; this will be linked to the conversion of sustainably obtained biomass, in balance with its use for other purposes (i.e. production of biogas, burning at the waste-to-energy plant). 2) Restoration of soils and of surfaces currently covered by cement/asphalt/abandoned industrial or commercial areas; restoration of green and river coastal areas for improving their mitigation performance. 3) Increase the reforestation and plantation of trees in appropriate zones.

- The emissions from **waste** will be minimized with enhancements in the planning and execution of waste collection and treatment, dissemination of social changes fostered by education and promotion of joint efforts with the population, and the tight linking of waste-related activities to recycling and biomass applications.
- As the abatement of residual emissions, it will be important to maintain a **high alliance with the local ecosystem** as an active part of the necessary strategies.

## 4.3 Module B-3

### Indicators for Monitoring, Evaluation and Learning

**Table B-3.1: Indicators by macro-area and 2030 target values**

#### I – Stationary Energy; Built Environment

Outcomes/ impacts addressed	Action/project	Indicator No.	Indicator name	Target values
<b>Modernizing the urban environment and making it more efficient</b>				
Mitigation actions on built environment	<b>FS1+FS6:</b> Extension of district heating network; Thermal insulation; Recovery of waste heat from data centers; Installation of heat pumps, photovoltaic, and energy storage; etc.	11.1	Reduction of CO <sub>2</sub> emissions per inhabitant	0.59 [t/ inh.]
		11.2	Reduction of CO <sub>2</sub> emissions per unit of surface	3925 [t/ km <sup>2</sup> ]
		11.3	Reduction of CO <sub>2</sub> emissions per unit of GDP	17.3 [t/ M€]

#### 2 – Stationary Energy; Energy Systems

Outcomes/ impacts addressed	Action/project	Indicator No.	Indicator name	Target values
<b>Upgrade the energy systems of the city towards zero-emissions</b>				
Mitigation actions in energy systems	<b>FS7+ FS13 + FE1+FE3:</b> Improvement of energy efficiency in industrial processes; development of energy communities and positive energy districts; CCS and reduction of waste-to-energy; etc.	12.1	Reduction of CO <sub>2</sub> emissions per inhabitant	1.16 [t/ inh.]
		12.2	Reduction of CO <sub>2</sub> emissions per unit of surface	7700 [t/ km <sup>2</sup> ]
		12.3	Reduction of CO <sub>2</sub> emissions per unit of GDP	33.9 [t/ M€]



<b>3- Transport</b>				
Outcomes/ impacts addressed	Action/project	Indicator No.	Indicator name	Target values
<b>Upgrade the transport network to reduce emissions</b>				
Mitigation actions in the transport sector	FT1 ÷ FT8: Replacement of ICE vehicles, Limitation of traffic, Promotion of alternative means of transport, etc.	13.1	Reduction of CO2 emissions per inhabitant	0.44 [t/ inh.]
		13.2	Reduction of CO2 emissions per unit of surface	2928 [t/ km2]
		13.3	Reduction of CO2 emissions per unit of GDP	12.9 [t/ M€]

<b>4 - Waste</b>				
Outcomes/ impacts addressed	Action/project	Indicator No.	Indicator name	Target values
<b>Making the municipal waste management system more efficient</b>				
Mitigation actions in the waste sector	FW1 ÷ FW3: Elimination of residual emissions in landfills; Separate waste collection; etc.	14.1	Reduction of CO2 emissions per inhabitant	0.08 [t/ inh.]
		14.2	Reduction of CO2 emissions per unit of surface	557 [t/ km2]
		14.3	Reduction of CO2 emissions per unit of GDP	2.4 [t/M€]
		14.4	Waste per capita	449.1 [kg/inh.]
		14.5	Share of sorted waste	75%

<b>5-AFOLU</b>				
Outcomes/ impacts addressed	Action/project	Indicator No.	Indicator name	Target values
<b>Implement actions to maximize negative emissions/efficient green infrastructure</b>				
Mitigation actions in the AFOLU sector	FGI ÷ FG3: Increase in planted trees and green areas	15.1	Reduction of CO2 emissions per inhabitant	0.09 [t/ inh.]
		15.2	Reduction of CO2 emissions per unit of surface	574 [t/ km2]
		15.3	Reduction of CO2 emissions per unit of GDP	2.5 [t/M€]
		15.4	Increase in number of planted trees	565,176 [n.]
		15.5	Increase of green surface	9.12 [km2]

Table B-3.2: Indicators metadata

## B-3.2: Indicator Metadata

Indicator Name	Reduction of CO <sub>2</sub> emissions (I1.1, I2.1, I3.1, I4.1)
Indicator Unit	Tonnes
Definition	Reduction of CO <sub>2</sub> emissions after the execution of actions
Calculation	Difference between emissions after the execution of actions and the baseline
<b>Indicator Context</b>	
Does the indicator measure direct impacts (reduction in greenhouse gas emissions?)	Yes
If yes, which emission source sectors does it measure?	I1.1 Built environment, I2.1 Stationary energy, I3.1 Transport, I4.1 Waste
Does the indicator measure indirect impacts (i.e., co-benefits)?	No
If yes, which co-benefit does it measure?	NA
Is the indicator useful for monitoring the output/impact of action(s)?	Yes
If yes, which action and impact pathway is it relevant for?	Pathways 1,2,3,4
Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms?	Yes
<b>Data requirements</b>	
Expected data source	Projects, and ad-hoc calculations
Is the data source local or regional/national?	Local
Expected availability	Available
Suggested collection interval	Every year, and at the end of projects
<b>References</b>	
Deliverables describing the indicator	NA
Other indicator systems using this indicator	NA

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## B-3.2: Indicator Metadata

Indicator Name	Reduction of CO <sub>2</sub> emissions per inhabitant (I1.2, I2.2, I3.2)
Indicator Unit	Tonnes per person
Definition	Reduction of CO <sub>2</sub> emissions after the execution of actions, per inhabitant in the city
Calculation	Difference between emissions after the execution of actions and the baseline
<b>Indicator Context</b>	
Does the indicator measure direct impacts (reduction in greenhouse gas emissions?)	Yes
If yes, which emission source sectors does it measure?	I1.1 Built environment, I2.1 Stationary energy, I3.1 Transport
Does the indicator measure indirect impacts (i.e., co-benefits)?	No
If yes, which co-benefit does it measure?	NA
Is the indicator useful for monitoring the output/impact of action(s)?	Yes
If yes, which action and impact pathway is it relevant for?	Pathways 1,2,3
Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms?	Yes
<b>Data requirements</b>	
Expected data source	Projects, and ad-hoc calculations
Is the data source local or regional/national?	Local
Expected availability	Available
Suggested collection interval	Every year, and at the end of projects
<b>References</b>	
Deliverables describing the indicator	NA
Other indicator systems using this indicator	NA

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**B-3.2: Indicator Metadata**

Indicator Name	Reduction of CO <sub>2</sub> emissions per unit of surface (I1.3, I2.3, I3.3)
Indicator Unit	Tonnes
Definition	Reduction of CO2 emissions after the execution of actions per unit of surface of the city
Calculation	Difference between emissions after the execution of actions and the baseline
<b>Indicator Context</b>	
Does the indicator measure direct impacts (reduction in greenhouse gas emissions?)	Yes
If yes, which emission source sectors does it measure?	I1.1 Built environment, I2.1 Stationary energy, I3.1 Transport
Does the indicator measure indirect impacts (i.e., co- benefits)?	No
If yes, which co-benefit does it measure?	NA
Is the indicator useful for monitoring the output/impact of action(s)?	Yes
If yes, which action and impact pathway is it relevant for?	Pathways 1,2,3
Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms?	Yes
<b>Data requirements</b>	
Expected data source	Projects, and ad-hoc calculations
Is the data source local or regional/national?	Local
Expected availability	Available
Suggested collection interval	Every year, and at the end of projects
<b>References</b>	
Deliverables describing the indicator	NA
Other indicator systems using this indicator	NA

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**B-3.2: Indicator Metadata**

Indicator Name	Reduction of organic waste (I4.2)
Indicator Unit	Tonnes
Definition	Reduction of organic waste after the execution of actions per unit of surface of the city
Calculation	Difference between tonnes of organic waste after the execution of actions and the baseline
<b>Indicator Context</b>	
Does the indicator measure direct impacts (reduction in greenhouse gas emissions?)	Yes
If yes, which emission source sectors does it measure?	Waste
Does the indicator measure indirect impacts (i.e., co- benefits)?	No
If yes, which co-benefit does it measure?	NA
Is the indicator useful for monitoring the output/impact of action(s)?	Yes
If yes, which action and impact pathway is it relevant for?	Pathway 4
Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms?	Yes
<b>Data requirements</b>	
Expected data source	Projects, and ad-hoc calculations
Is the data source local or regional/national?	Local
Expected availability	Available
Suggested collection interval	Every year, and at the end of projects
<b>References</b>	
Deliverables describing the indicator	NA
Other indicator systems using this indicator	NA

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**B-3.2: Indicator Metadata**

Indicator Name	Increase of recycled/processed waste (I4.3)
Indicator Unit	Tonnes
Definition	Increase of recycle/processed waste after the execution of actions per unit of surface of the city
Calculation	Difference between tonnes of recycled/processed after the execution of actions and the baseline
Indicator Context	
Does the indicator measure direct impacts (reduction in greenhouse gas emissions?)	Yes
If yes, which emission source sectors does it measure?	Waste
Does the indicator measure indirect impacts (i.e., co- benefits)?	No
If yes, which co-benefit does it measure?	NA
Is the indicator useful for monitoring the output/impact of action(s)?	Yes
If yes, which action and impact pathway is it relevant for?	Pathway 4
Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms?	Yes
Data requirements	
Expected data source	Projects, and ad-hoc calculations
Is the data source local or regional/national?	Local
Expected availability	Available
Suggested collection interval	Every year, and at the end of projects
References	
Deliverables describing the indicator	NA
Other indicator systems using this indicator	NA

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**B-3.2: Indicator Metadata**

Indicator Name	Increase in number of planted trees (I5.1)
Indicator Unit	Number
Definition	Increase in number of planted trees after the execution of actions per unit of surface of the city
Calculation	Difference between number of planted trees after the execution of actions and the baseline
Indicator Context	
Does the indicator measure direct impacts (reduction in greenhouse gas emissions?)	Yes
If yes, which emission source sectors does it measure?	AFOLU
Does the indicator measure indirect impacts (i.e., co- benefits)?	No
If yes, which co-benefit does it measure?	NA
Is the indicator useful for monitoring the output/impact of action(s)?	Yes
If yes, which action and impact pathway is it relevant for?	Pathway 5
Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms?	Yes
Data requirements	
Expected data source	Projects, and ad-hoc calculations
Is the data source local or regional/national?	Local
Expected availability	Available
Suggested collection interval	Every year, and at the end of projects
References	
Deliverables describing the indicator	NA
Other indicator systems using this indicator	NA

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**B-3.2: Indicator Metadata**

Indicator Name	Increase of green surface (I5.2)
Indicator Unit	m2
Definition	Increase of green surface after the execution of actions per unit of surface of the city
Calculation	Difference between green surface after the execution of actions and the baseline
<b>Indicator Context</b>	
Does the indicator measure direct impacts (reduction in greenhouse gas emissions?)	Yes
If yes, which emission source sectors does it measure?	AFOLU
Does the indicator measure indirect impacts (i.e., co- benefits)?	No
If yes, which co-benefit does it measure?	NA
Is the indicator useful for monitoring the output/impact of action(s)?	Yes
If yes, which action and impact pathway is it relevant for?	Pathway 5
Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms?	Yes
<b>Data requirements</b>	
Expected data source	Projects, and ad-hoc calculations
Is the data source local or regional/national?	Local
Expected availability	Available
Suggested collection interval	Every year, and at the end of projects
<b>References</b>	
Deliverables describing the indicator	NA
Other indicator systems using this indicator	NA

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# 5. PART C

## The enablers for Torino's Climate Neutrality by 2030

### 5.1 Module C-I : Governance Innovation Interventions

This section explores the "P1 - Governance" and "P2 - City's actors' involvement and Transition co-design" pillars described in the Work Process (see Section 2).

The participatory governance model is organized interconnecting internal and external groups with respect to the City's Administration – both horizontally and vertically. The activities to enable Climate neutrality by 2030 are of two types: the implementation of a multi-layer governance system, and the incremental engagement of the local eco-system.

The implementation of a dedicated governance and the engagement of the local ecosystem are fundamental steps to accompanying the city on the path towards carbon neutrality. They are guided by the **three core principles**: ① **Transparency and inclusion** ② **A focus on people and interconnection for a fair transition**<sup>80</sup>; ③ **Shared responsibility and collaborative learning**. These principles inspire the formation of teams within the local coalition and the modalities/spaces of collaboration with actors in the local ecosystem.

#### A roadmap in Two Steps

The path accompanying Torino's CCC implies building a system of participatory spaces from an incremental and multi-actor perspective. The participatory path stems from – and expands – three "framework initiatives"<sup>81</sup> already under way, that adopt a cross-sectoral approach and create useful synergies to identify new actions to accelerate the change process:

- ① **Torino City Lab**, the Città di Torino's open-air laboratory for co-developing and testing solutions to urban challenges; <https://www.torinocitylab.it/it/>
- ② **CTE Next**, the House of Emerging Technologies, to transform Torino into a widespread technology transfer center in emerging sectors identified as strategic for the area; <https://ctenext.it;>
- ③ **Torino Social Impact**, the territorial coordination for the promotion of the social impact economy, in collaboration

80 An inclusive transition to neutrality.

81 The framework initiatives are detailed in the Annex II of this Action Plan.

with the Torino Chamber of Commerce; <https://www.torinosocialimpact.it>.

The participatory governance model of the CCC also follows an operational roadmap (Fig. 5.1) that runs along two macro phases of work, interconnected by a series of cross-cutting activities. The work is organized in four main areas: path co-design, listening, action co-design and outreach (Fig. 5.2 and 5.3).

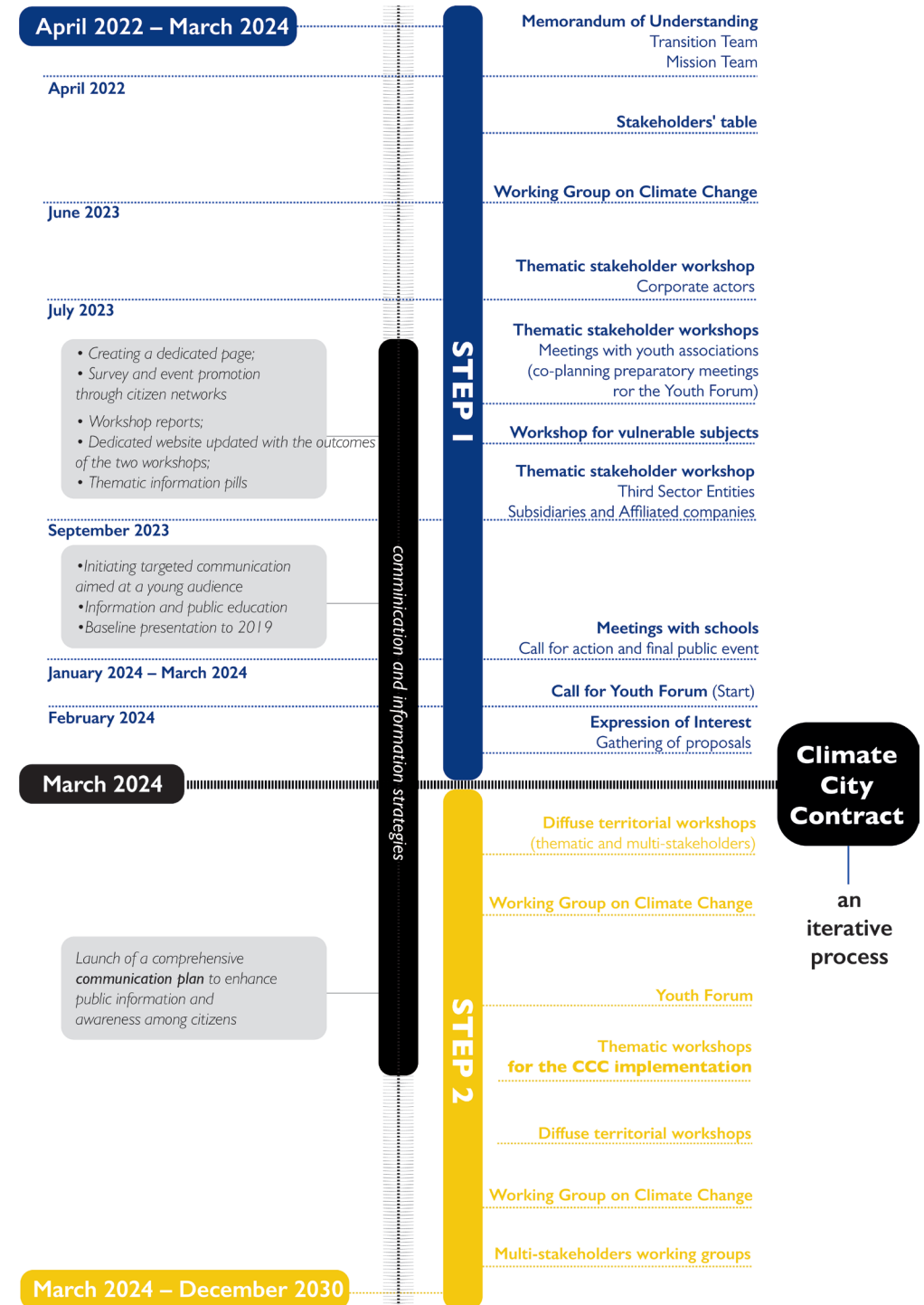
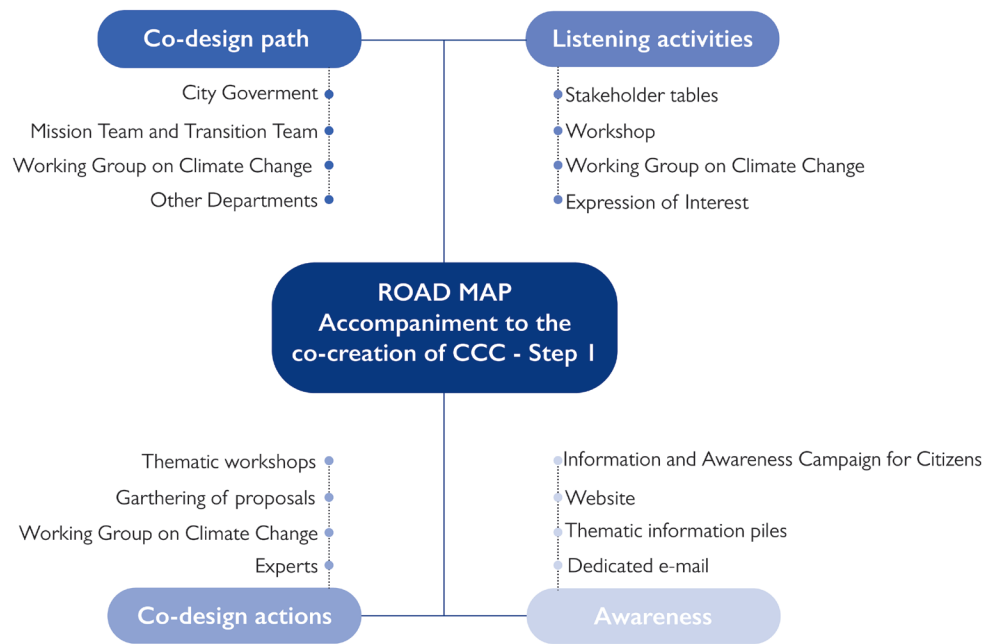


Fig.5.1 – The operational roadmap towards the CCC

The implementation of internal governance (see Table C-1.1) is accompanied by a network of initiatives aimed at fostering the local eco-system engagement. The CCC will be thus nurtured over time through the co-creation of new actions/alliances to achieve climate neutrality by 2030 – enhancing integration with other policies, coordinating the implementation of the Plan and producing social innovation for the climate challenge (see Table C-2.1).

**Roadmap: Step I<sup>82</sup>**

Step I (April 2022 - March 2024) accompanied the co-creation of the CCC:



**Fig. 5.2 – Scheme of Step 1**

Step I has been implemented by means of:

- ① **Injection of the path with the Mission Team organization** (see Tab. C-1.2). n. 50 meetings were held involving 25 people (17 people involved by the Città di Torino; 8 people involved by the EST@energycenter of Politecnico di Torino);
- ② **Organization of the Climate Change Working Group (CC WG)** (see Tab. C-1.2). n. 2 meeting have been held, involving 15 sectors with a total of 33 participants;
- ③ **Organization of working tables** with the main actors in the area, investee companies, and representative actors from the main areas of action of the CCC (see Tab. C-2.1);
- ④ **Initial gathering of proposals** for climate neutrality through two surveys, one dedicated to the business community and one dedicated to Third Sector entities. Two surveys were organized, gathering a total of 60 companies and 21 organizations as stakeholders, and 43 proposals;
- ⑤ **Implementation of a cycle of workshops** gradually involving a growing number of thematic actors as an opportunity to inform, listen and initiate the co-design of the portfolio of actions and implementation of change initiatives (see Tab. C-2.1);<sup>83</sup>
- ⑥ **Involvement of thematic experts** in 4 fields: green infrastructure and Nature-Based Solutions (NBS), Built Environment and Energy System, Mobility and Infrastructure, and Waste and Circular Economy;
- ⑦ **Activities to engage vulnerable** people using the integration opportunity related to the European project SEFIT - Social Ecosystem for Fair and Inclusive Transition (see Tab C-2.1);
- ⑧ **"On twin Transition" workshop**, organized by Fondazione Brodolini as Lead partner – along with the Città di Torino, Rethink Ireland, and the City of Cork – has involved local actors in identifying social challenges related to climate adaptation and digital innovations.<sup>84</sup>

82 For a detailed overview of the initiatives undertaken through Step I, see Annex II of this Action.

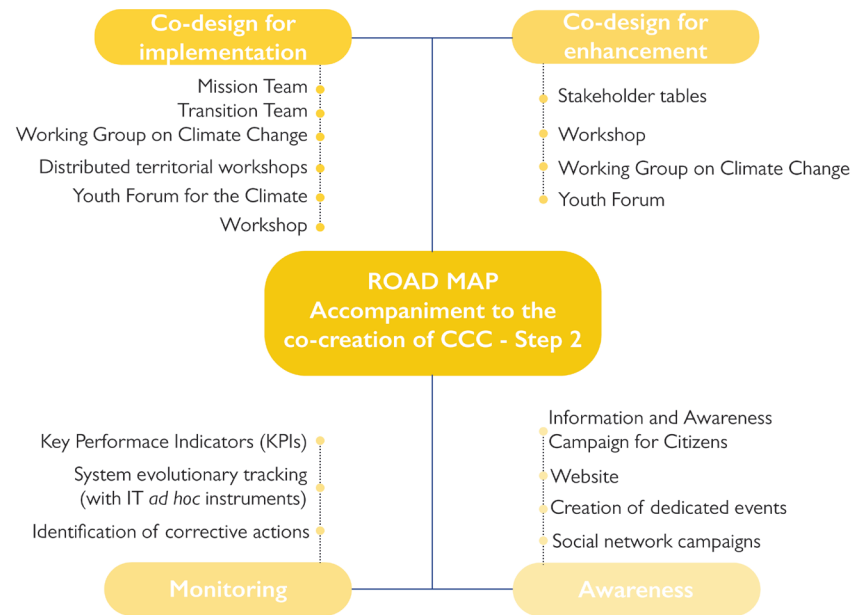
83 The outcomes of the first two workshops and the surveys that preceded them contributed to the co-creation of the City's carbon footprint knowledge framework, the identification of initial directions for a useful strategy to achieve climate neutrality by 2030 (and beyond).

84 Two workshops have been held so far: one dedicated to the world of business and start-ups (July 2023) involving 80 delegates from 40 Torino-based entities; and one dedicated to ETs and investee companies (September 2023) with the participation of 90 actors. The workshop identified ideas and proposals useful for the drafting of a Call that will be addressed to organizations and social innovators. The Call will support projects that propose concrete contributions to climate neutrality goals and the democratization of digital innovations – also vis-à-vis disadvantaged social groups.



**Roadmap: Step 2<sup>85</sup>**

Step 2 (March 2024 – December 2030) accompanies the enhancement and monitoring of the CCC:



**Fig. 5.3 – Scheme of Step 2**

85 For a detailed overview of the initiatives undertaken through Step 2, see Annex II of this Action.

86 The Policy Lab of the Città di Torino is a laboratory for co-design and experimentation of public policies and innovative services aimed at facilitating new forms of collaboration between public decision makers, territorial actors and citizens, from an inclusive perspective in the pursuit of shared administration.

Step 2 will be enhanced through:

① **Design and empowerment of Diffuse Territorial Labs** (see Tab. C-2.2). In this framework, the Policy Lab<sup>86</sup> could become a stable space where to activate actors with a variable level of participation according to the needs detected during the CCC construction and monitoring phase. The Labs will create opportunities for discussion/share actions stemming from other ongoing municipal and European policies. Diffuse Territorial Labs are opportunities to discuss the most appropriate solutions on specific issues towards 2030. They can be linked to and implement, in the context of the climate neutrality challenge, the principles contained in the Torino Manifesto "New European Bauhaus: Inclusion, Sustainability and Beauty".<sup>87</sup> The Labs use links and capitalize on opportunities related to the Living Labs previously promoted under the FUSILLI and To Move social innovation initiatives (see Tab C-2.2).

② **Meetings to involve young people and youth associations/ Forum** (see Tab. C-2.1 and C-2.2) through information, training and interaction.<sup>88</sup> Territorial resources and networks already active at the city level, youth associations and groups (including informal ones) active on climate change issues will be involved in thematic workshops/Forum to broaden the map of actors, overcome generational barriers and find new ways for society to participate.

③ **Let's GOv Toolkit<sup>89</sup>** (see Tab. C-2.2). Toolkits represent the instruments that will be produced at the end of the co-design meetings of the 9 cities involved and will be made available to other cities to facilitate the easiest identification and implementation of pathways and actions toward climate neutrality.

④ **Search for "Climate Ambassadors" and testimonials.** Broadening the role of stakeholders by creating incentive packages and assigning labels to public and private actors who propose new actions, perspectives, connections and integrations within the CCC's main fields of action for climate neutrality.

⑤ **Monitoring Actions.** The activities of measuring, reporting, monitoring and implementing the plan are essential in order to make the CCC's collective commitment enduring, consolidate shared learning, and reshape strategies and actions to show the community, partners and actors the progress and milestones achieved. In this sense, the definition of proper Key Performance Indicators (KPIs) for quantifying the multidimensional (energy,

87 The Città di Torino - with the support of the Torino Committee of the New European Bauhaus - has written the first version of the New European Bauhaus Manifesto for Torino. The Manifesto was born as the first form of local expression of the inspiring principles of the "New European Bauhaus: Inclusion, Sustainability and Beauty"

88 These meetings/ Forum will stem from a specific co-design activity: it is conceived as a space for mutual learning, in which young people can contribute to efforts to democratize scientific production, for example, by promoting climate-focused "citizen-science" initiatives together with the City; Two propaedeutic activities have been launched, one aimed at high schools and one at youth associations and informal groups active on climate transition issues. The dialogue with high schools in Torino and province aims to raise awareness of the challenges and commitments that the Città di Torino will face in achieving Climate Neutrality to 2030, contribute to the promotion of dialogue between young people and the city administration in the construction of CCC strategies and actions

89 Let's GOv is a pilot project involving the Città di Torino together with 8 other Italian cities (Bergamo, Bologna, Florence, Milan, Padua, Parma, Prato, and Rome) of the European Mission "100 Climate-Neutral and Smart Cities by 2030," University of Bologna and the EST@energycenter Lab of the Politecnico di Torino (scientific partners) and AESS - Agency for Energy and Sustainable Development (technical partner). The project involves the 9 partner cities in testing a multi-level governance model for emissions reduction. The Città di Torino plans to support the creation of Renewable Energy Communities (RECs) through the mapping of municipal buildings on which to install Renewable Energy Sources (RES). The experimentation will also establish a public-private governance model to spread energy efficiency practices and renewable energy production.

environmental, economic, social) impacts of actions, the continuous tracking of the evolutionary trajectory of the system (also through ad hoc IT tools) and the possible definition of corrective actions for realigning the trajectory with the ideal one needed for reaching the climate neutrality goal are crucial elements to be effectively implemented.

⑥ **Multi-actor workshop** dedicated to gathering proposals and discussing the main activities that have been implemented.<sup>90</sup>

### Cross-cutting actions

Information, awareness and communication hold a strategic role in bonding the governance system and the local ecosystem in effectively accompanying the implementation of CCC, its monitoring and its deployment. Communication initiatives have an impact on the local ecosystem, making it more responsible and open to take responsibility vis-à-vis its effects on the climate.

The focus revolves around three keys:

① **Awareness and understanding** of the climate phenomenon, the collective challenge, and the systemic levers on which to act in sustainable timeframes and ways;

② **Knowledge and transparency** of the process and actual progress of the city towards climate neutrality (e.g.: through activation of in itinere civic monitoring; tracking of change; etc.);

③ **Thematic information** for climate neutrality to foster awareness, enable knowledge transfer to increase the local ecosystem's skills, and incentivize informed and responsible participation.

These aspects are aimed at expanding engagement and broadening the pool of potential climate action partners – within the framework of the CCC's multilevel and multi-actor approach.

The communication activities will involve specific information spaces on the thematic areas of the CCC – either by creating new events of diverse nature and scale at the city level, or by leaning on existing events that are already consolidated and enjoy relevant level of participation.<sup>91</sup> These spaces will present moments of dissemination of both the efforts deployed by the local ecosystem and obstacles and challenges to be overcome by engaging additional partners.

The communication of the path towards climate neutrality will aim at addressing all city actors, and will necessarily have to go through the adaptation, in a dissemination key, of all the elements useful to create the right conditions for the partnership network to act properly. This informational support will have to provide all the information necessary to manage and facilitate the engagement process, making effective the collaboration of the different actors within the spaces of participation that are articulated along the roadmap accompanying the CCC.

The following activities are planned/have been implemented:

① **Activation of differentiated information/communication channels** to raise awareness among the local ecosystem (especially citizens) and support the CCC creation/implementation process;

② **Design of a communication plan** according to the different actors, barriers and levers of change –with the aim of informing and raising awareness, supporting and broadening the active involvement of the local ecosystem;

③ **Creation of an information space** on the CCC within the municipal website and through a dedicated website<sup>92</sup>(see Tab. C-2.2); specific posters for each thematic workshop have been made, promoted through social/web channels of different active networks;

④ **Promotion of an awareness campaign** targeting citizens and small events to understand the challenge and disseminate information (see Tab. C-2.2);

⑤ **Drafting of thematic information pills** by the experts involved on the 4 fields of action of the CCC;<sup>93</sup>

⑥ **Design and identification of "Climate Ambassadors"** as part of engagement activities with the business community;

⑦ **Presentation moments** at relevant thematic events or other initiatives pertinent to climate neutrality topics.

<sup>90</sup> It will be an opportunity to present the baseline to 2019 and an important milestone in order to raise awareness, act on identified levers of change, and promote collaborative approaches toward building a zero-emission city. The meeting was crucial to consolidate new alliances, coordinate public-private partnership actions, address the time dimension of the Plan and its future monitoring, and define new models to be tested in terms of co-responsibility in the implementation and co-management of change action.

<sup>91</sup> For instance, the Cinemambiente, the Biennale Democrazia and the Biennale Tecnologia initiatives; annual events of bank foundations.

<sup>92</sup> The dedicated website is in progress.

<sup>93</sup> In Step 1, 4 thematic pills were produced as support for informed participation in the September 2023 workshop, and then posted on the municipal website and sent to all participants.

## C-1.1: Description and visualization of the participatory governance model for climate neutrality

There are 3 levels of internal governance, which articulately respond to the Systemic Barriers described in Table A-3.1 and are detailed in Table C-1.2.

### ① Consolidation of internal horizontal governance

The "Mission Team" is at the core of the governance model and is responsible for the implementation of pillar "PI - Governance." The Mission Team is formed by two entities internal to the Città di Torino (the "Transition Team" and the "Climate Change Interdepartmental Working Group") and the partnership with the working group of the EST@energycenter Lab, established at the Energy Center of the Politecnico di Torino, which involves a multidisciplinary team embodying the operational convergence and cultural diversity of three departments of the Politecnico di Torino: DAD (Department of Architecture and Design), DENERG (Department of Energy) and DIATI (Department of Environment, Territorial and Infrastructure Engineering).

### ② External multi-level governance

Inter-stakeholder relationships foster the adoption of a cross-sectoral approach at the institutional level (horizontal and vertical multilevel), closer collaboration between public actors at different spatial scales, and greater capacity for different community actors to relate to each other, refining partner engagement models and strengthening the relationship with non-governmental actors in the local ecosystem.

The Mission Team intertwines the European, national, regional and local dimensions in relation to different governance objectives through the connection of networks at different territorial scales; the capitalization of experience from the local to the international level; the territorialization of supra-local strategies through the incorporation of climate action into local-scale planning instruments, regulations and projects.

### ③ Organizational and cooperative science-based governance

The engagement of the EST@energycenter Lab multi-disciplinary working group aims, coherently with the general vision (Section

2), at guaranteeing a science- and science-based approach from the very first steps – starting, in particular, from the definition of the knowledge framework on climate-altering emissions at baseline (year 2019) and the calculation of the direct impacts of the actions needed for reaching the climate neutrality goal.

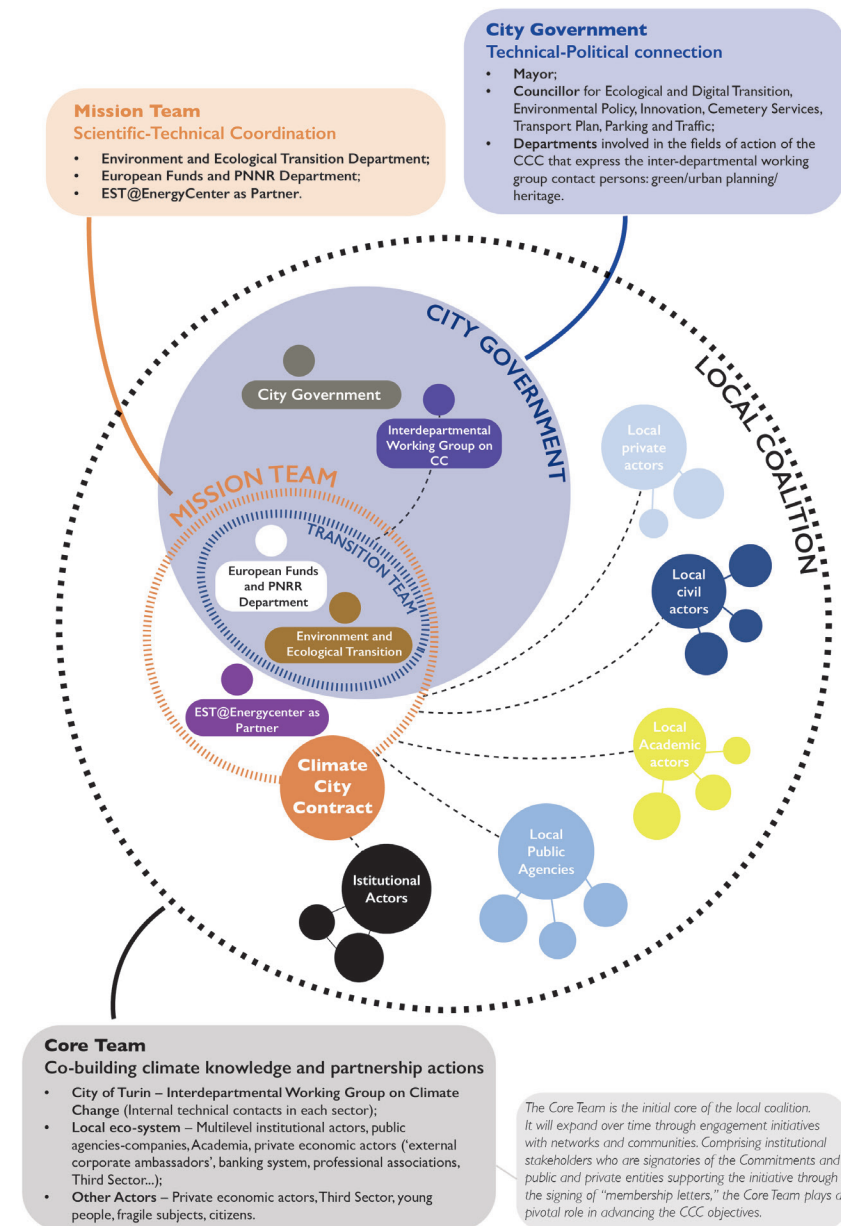


Fig.5.4 – Scheme of actors and network

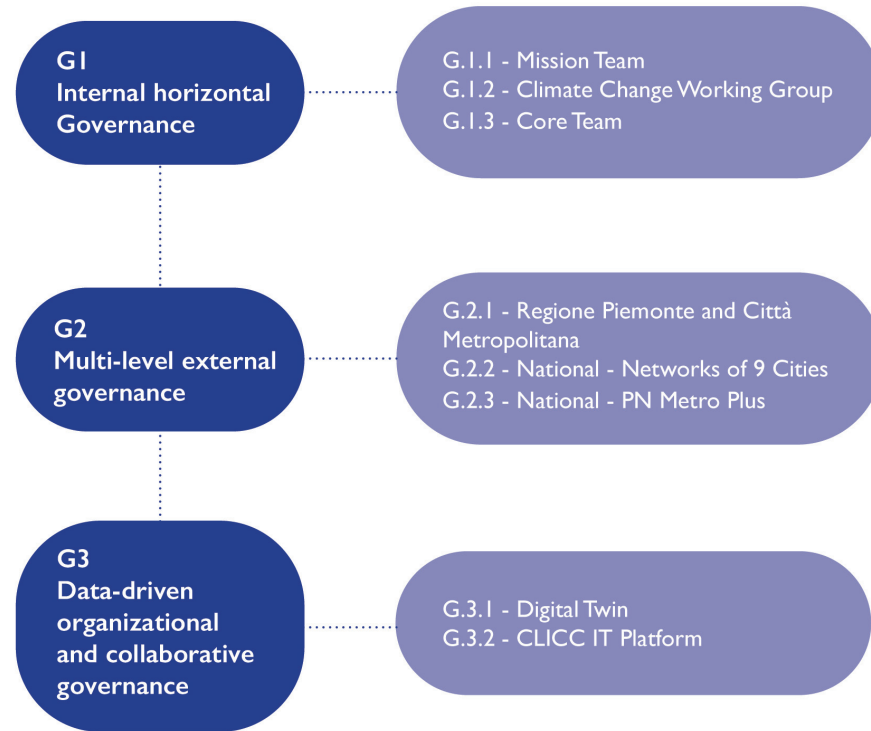


Fig.5.5 – Governance innovations

**Table C-1.2:**  
Relations between governance innovations, systems, and impact pathways

**G.1 – INTERNAL HORIZONTAL GOVERNANCE**

G.1.2 - Mission team	
Description	<p>Within the local coalition is the team dedicated to the technical and scientific coordination of climate action - as well as acting as liaison with the political side and the local ecosystem actors. The composition of the team brings together knowledge, expertise and direction actions and interventions.</p> <p>Among the team's activities:</p> <ul style="list-style-type: none"> <li>Co-design of the accompanying pathway to climate neutrality;</li> <li>Co-design of digital platform to support climate action management and CCC.</li> </ul>
Systemic barriers addressed	<p>Strengthening the relationship and knowledge exchange between:</p> <ul style="list-style-type: none"> <li>Internal groups within the municipality with expertise on environmental issues, fund management and international projects;</li> <li>Internal groups, the scientific community and research centers;</li> <li>Technical and political referents in the Administration.</li> </ul>
Leadership / Stakeholders involved	<p>Leadership</p> <ul style="list-style-type: none"> <li>EST@energycenter of Politecnico di Torino (Coordinator)</li> <li>Department of Environment and Ecological Transition (Città di Torino)</li> <li>Department for European Funds and PNNR (Città di Torino)</li> </ul>
Enabling impact	<p>Creation of an internal/external collaborative governance system for climate action.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>Governance &amp; policy</li> <li>Finance &amp; founding</li> <li>Technology/infrastructure</li> <li>Democracy and participation</li> <li>Learning &amp; capabilities</li> </ul>
Co-benefits	<ul style="list-style-type: none"> <li>Focus on reaching a climate initiative synergistic, efficacious and measurable;</li> <li>Capacity building;</li> <li>Strengthening the Public Administration's (PA) competencies and the partnership for climate;</li> <li>Strengthening the capacities regarding engagement and inclusion of fragile and strategic actors in the climate partnership.</li> </ul> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>Climate resilience</li> <li>Economy local and global connection</li> <li>Social inclusion</li> </ul>

G.1.2 – Intersectoral Working Group "Climate Change"	
Description	Within the local coalition, it assists the Mission Team by supporting the co-construction of climate knowledge and partnership actions. It consists of technical subjects, in the City's administration, with consolidated expertise in the CCC action areas.
Systemic barriers addressed	Overcoming the vertical Public Administration's (PA) organizational structure through: <ul style="list-style-type: none"> <li>Coordinated management and implementation of policies/strategies/projects on environmental issues;</li> <li>Activation of cross-sectoral processes across sectors relevant to CCC thematic areas;</li> <li>Grafting of environmental focus into PA processes, programs, plans, projects and regulations.</li> </ul>
Leadership / Stakeholders involved	<ul style="list-style-type: none"> <li>Città di Torino</li> <li>Director-General of the city administration</li> <li>Department of Environment and Ecological Transition</li> <li>Air Quality and Strategic Projects Office</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>Relevant Divisions in the Municipal administration (European Funds and PNNR Department ; Energy management ; Green and Parks Division ; Civil Defense, Emergency Management and Security Division ; Infrastructure - Urbanization Division ; Infrastructure Division - Bridges and Waterways Service ; Mobility Division ; Private Construction Division ; Urban Planning and Quality of the Built Environment Division ; Social, Social, Health and Housing Services Department ; School Building Service ; Public and Social Housing Service ; Infrastructure Service for Trade and Sports ; Technical Heritage Division ; Vehicle Fleet Management Service ; Utility Management and Control Service)</li> </ul> <p><b>Participants to the Working Group:</b> 33</p>
Enabling impact	Integrated vision and response by the Municipality, maximizing internal knowledge and experience <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>Governance &amp; policy</li> <li>Learning &amp; capabilities</li> <li>Technology/infrastructure</li> <li>Social innovation</li> </ul>

Co-benefits	<ul style="list-style-type: none"> <li>Countering fragmentation of responsibilities.</li> <li>Coordinated action on policies with direct/indirect climate impacts.</li> <li>Capacity building of PA.</li> <li>Testing on co-design/use of data-driven digital infrastructure.</li> </ul> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>Climate resilience</li> <li>Economy</li> <li>Health</li> <li>Biodiversity</li> </ul>
G.1.3 – Core Team	
Description	<p>The core team consists of engaged institutional actors, co-signatories to the Commitment, and public and private entities that support the initiative by signing "membership letters" as Main Partners and Widespread Partnership/Supporters (see partnership structuring in Section 3.2).</p> <p>Subscribing and Adhering Parties:</p> <ul style="list-style-type: none"> <li>Share the principles of the Core Contract;</li> <li>contribute actions to the city challenge in different roles and levels;</li> <li>participate in initiatives to co-construct practical climate actions by becoming partners with the City in the Climate Neutrality Challenge;</li> <li>implement and monitor interventions;</li> <li>offer insights/evaluations and offer correctives on the effectiveness of interventions throughout their lifecycle;</li> <li>contribute to the identification of relevant targets/actors to engage and involve.</li> </ul>
Systemic barriers addressed	Deficient interaction and communication among the stakeholders of the city. Access to all relevant information for the production of the CCC.

Leadership / Stakeholders involved	<p><b>Leadership</b> Città di Torino</p> <p><b>Partners</b> 6 Main partners signatories of the CCC</p> <ul style="list-style-type: none"> <li>• Città di Torino</li> <li>• Regione Piemonte</li> <li>• Città Metropolitana</li> <li>• Politecnico di Torino</li> <li>• Università degli Studi di Torino</li> <li>• Camera di Commercio di Torino (Torino Chamber of Commerce)</li> </ul> <p><b>Stakeholders</b> Political/technical reference staff in the Municipality, the Città Metropolitana and the Region.</p> <ul style="list-style-type: none"> <li>• 40 participants from private companies,</li> <li>• 35 participants from Third Sector entities</li> <li>• 20 associations for vulnerable people</li> <li>• 6 schools</li> </ul>
Enabling impact	<p>Strengthening and improvement of the dialogue competences of all actors in the local ecosystem.</p> <p>Creation of the conditions for enabling a collaborative climate governance system including public and private actors.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Governance &amp; policy</li> <li>• Learning &amp; capabilities</li> <li>• Democracy and participation</li> </ul>
Co-benefits	<p>Reduction of the fragmentation of initiatives and resources required for implementing the plan towards climate neutrality;</p> <p>Strengthening the engagement and networking capacities of the climate partnership;</p> <p>Coordinated actions for implementing the climate policies.</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience</li> <li>• Resource efficiency</li> <li>• Economy</li> <li>• Health</li> <li>• Social</li> </ul>

<b>G.2 – EXTERNAL MULTI-LEVEL GOVERNANCE</b>	
<b>G.2.1 - Regione Piemonte and Città Metropolitana Torino</b>	
Description	<p>Regione Piemonte and Città Metropolitana are members of the Core Team and co-signatories of the CCC.</p> <p>Joint working groups at the political and technical levels on relevant CCC topics.</p>
Systemic barriers addressed	<p>Fragmentation and lack of coordination of climate actions.</p>
Leadership / Stakeholders involved	<p><b>Leadership</b> Città di Torino</p> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• Regione Piemonte (relevant groups working on CCC)</li> <li>• Città Metropolitana (relevant groups working on CCC)</li> </ul>
Enabling impact	<p>Reinforcing the links of the city with Regione and Città Metropolitana.</p> <p>Promotion of a multi-level governance system and working method.</p> <p>Development of joint integrated climate actions.</p> <p>Coordination with the measures of the Piano Strategico Metropolitan, and connections of the various programming instruments.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Governance &amp; policy</li> <li>• Social innovation</li> <li>• Democracy and participation</li> <li>• Learning &amp; capabilities</li> <li>• Finance &amp; Funding</li> </ul>

Co-benefits	<ul style="list-style-type: none"> <li>Reduction of the fragmentation of initiatives and resources required for implementing the plan towards climate neutrality;</li> <li>Systematic approach to knowledge and data, with sharing of models for the multilevel decision making;</li> <li>Coordinated actions for defining and implementing the climate policies.</li> </ul> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>Climate resilience - Mitigation</li> <li>Health - Environment</li> <li>Health -Well being</li> <li>Social - Inclusion</li> <li>Social - Education</li> <li>Economy - Local and global connection</li> <li>Economy - Entrepreneurship and innovation</li> <li>Resource efficiency - Waste/Water/Food/Land use</li> <li>Biodiversity - Greater biodiversity</li> </ul>
<b>G.2.2 - Let's GOv</b>	
Description	Let's GOv is the joint project of 9 Italian cities, funded by the European Commission in the context of the "Mission Cities". It consists of two-year pilot projects in each city. Torino will work on engagement as a key element for creating a better connection among actors across different decisional levels. The tasks will see the trying of models for the engagement of citizens, relevant public and private subjects, sharing of knowledge and information, and creation of a more efficient multi-level ecosystem for the energy transition.
Systemic barriers addressed	Deficient communication among actors, leading to poor engagement.
Leadership / Stakeholders involved	<p><b>Leadership</b></p> <p>Città di Torino – Environment Division</p> <p><b>Stakeholders</b></p> <p>Scientific partners</p> <ul style="list-style-type: none"> <li>EST@energycenter; Politecnico di Torino</li> <li>University of Bologna</li> </ul> <p>Technical partner</p> <ul style="list-style-type: none"> <li>Agenzia per l'energia e lo sviluppo sostenibile (AESS – Agency for Energy and Sustainable Development)</li> </ul>

Enabling impact	<p>Improvement of efficiency in the internal and external governance for accelerating climate neutrality.</p> <p>Experimenting and testing of engagement and governance models based on data. Networking and joint learning among the cities.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>Governance &amp; policy</li> <li>Social innovation</li> <li>Democracy and participation</li> <li>Learning &amp; capabilities</li> <li>Technology/infrastructure</li> <li>Finance &amp; funding</li> </ul>
Co-benefits	<p>Overcoming the silo logic in the public administration;</p> <p>Strengthening of the engagement and empowerment capacities in the climate partnership; Test of innovative models for public-private collaboration and funding of projects.</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>Climate resilience - Mitigation</li> <li>Health - Environment</li> <li>Health -Well being</li> <li>Social - Inclusion</li> <li>Social - Education</li> <li>Economy - Local and global connection</li> <li>Economy - Entrepreneurship and innovation</li> <li>Resource efficiency - Land use</li> </ul>
<b>G.2.3 Network of cities - PN METRO PLUS</b>	
Description	Torino takes part in the Italian Network of 14 Metropolitan Cities identified as intermediate Organisms for the National Program PON Metro 2014-2020, now called PN Metro Plus and Città Medie Sud 2020-2027. This new edition of the National Program is focused on the environment: each city elaborates an Operational Plan for a multi-level coordinated action for climate detailing the synergies and complementarities with the PNRR (National Recovery and Resilience Plan) and the funding from the program React EU . <sup>94</sup>
Systemic barriers addressed	Overcoming planning conflicts and issues in the internal and external governance in climate actions

94 Coordination: Municipality of Bologna. The network is formed by the cities of Bergamo, Bologna, Firenze, Milano, Padova, Parma, Prato, Roma and Torino.

Leadership / Stakeholders in-volved	<p><b>Leadership</b></p> <ul style="list-style-type: none"> <li>Città di Torino, Department for European Funds and PNNR</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>Technical reference staff in the Municipality</li> </ul>
Enabling impact	<p>Improvement of efficiency in the internal and external governance for accelerating climate neutrality;</p> <p>Promotion of a multi-level governance system and working method;</p> <p>Development of joint integrated climate actions between cities at the national level.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>Governance &amp; policy</li> <li>Democracy and participation</li> <li>Learning &amp; capabilities</li> <li>Finance &amp; Funding</li> </ul>
Co-benefits	<p>Joint learning about the management of coordinated multi-level climate actions</p> <p>Strengthening of the engagement and empowerment capacities in the partnership</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>Climate resilience</li> <li>Resource efficiency</li> <li>Economy</li> <li>Health</li> <li>Social</li> </ul>

**G.3 – ORGANISATION AND COLLABORATIVE SCIENCE-BASED GOVERNANCE**

**G 3.1 - Digital twin**

Description	<p>Construction of a science-based governance system supporting the sustainable development of the territory.</p> <p>Creation of an Urban Digital Twin of the city (based on cloud technologies and in line with Torino's Territorial Informatic System) for supporting the governance of the city and of the climate transition processes (data interoperability: city planning; civil protection; taxes and cadaster; environment and sustainability; viability and transport; commerce, etc.).</p>
Systemic barriers addressed	
Leadership / Stakeholders involved	<p><b>Leadership</b></p> <ul style="list-style-type: none"> <li>Comune di Torino</li> <li>EST@energycenter Lab - Politecnico di Torino</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>Utilities</li> </ul>

Enabling impact	<p>Strengthening of e-governance solutions in support of the systematic organization of:</p> <ul style="list-style-type: none"> <li>shared, transparent data;</li> <li>decisional processes and interaction with the climate partnership.</li> </ul> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>Technology/infrastructure</li> <li>Governance &amp; policy</li> <li>Democracy and participation</li> <li>Learning &amp; capabilities</li> </ul>
Co-benefits	<p>The use of up-to-date and monitored data on the effects of climate actions will help with the:</p> <ul style="list-style-type: none"> <li>construction of knowledge bases useful for the partnership;</li> <li>evaluation of the effectiveness of the partnership actions;</li> <li>dissemination of the results of the climate transition;</li> <li>Strengthening of the empowerment capacity of the partnership actors.</li> </ul> <p>Co-benefits</p> <ul style="list-style-type: none"> <li>Climate resilience - Mitigation</li> <li>Resource efficiency - Land use/Water</li> <li>Biodiversity</li> <li>Health/Environment/Well being</li> </ul>

**G 3.2 - DATABASE AND PLATFORM CLICC**

Description	<p>The digital platform CLICC is a multilevel and multi-source system for the definition, mapping and monitoring of climate actions.</p> <p>The CLICC platform allows to quantitatively assess the impacts of actions and pathways in terms of GHG emission reduction and the related costs, allowing the City decision makers for testing "in silico", in an interactive way, different policy options and identifying the combination of them that mainly fits with their strategies for reaching the climate neutrality.</p> <p>CLICC will enable the mapping of the partnership actors, empowering the engagement and orienting them towards concrete results (with impact on both the ecosystem and the carbon mitigation).</p>
Systemic barriers addressed	<p>Lack of efficient system for the gathering and elaboration of data</p>



Leadership / Stakeholders involved	<p><b>Leadership</b></p> <ul style="list-style-type: none"> <li>EST@energycenter Lab - Politecnico di Torino</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>Città di Torino</li> <li>Utilities</li> <li>All actors of the climate partnership</li> </ul>
Enabling impact	<p>Improvement of the effectiveness of the internal and external governance (multi-level institutions and the local ecosystem) for accelerating climate neutrality</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>Technology/infrastructure</li> <li>Governance &amp; policy</li> <li>Democracy and participation</li> <li>Learning &amp; capabilities</li> </ul>
Co-benefits	<ul style="list-style-type: none"> <li>governance and collaborative management of the climate partnership and the elaboration and implementation of the CCC;</li> <li>definition of actions according to their potential and direct/indirect impacts;</li> <li>identification of target actors in the ecosystem with whom to interact.</li> </ul> <p>Capacity building strengthening of competencies in the public administration.</p> <p>Strengthening of the engagement and empowerment capacities of the central actors in the climate partnership.</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>Climate resilience - Mitigation</li> <li>Resource efficiency - Land use/Water</li> <li>Biodiversity</li> <li>Health/Environment/Well being</li> </ul>

## 5.2 Module C-2 : Social Innovation Interventions

The construction and implementation of the CCC is based on the gradual involvement of the local ecosystem (thus intercepting the second pillar "P2 – City actors' involvement and Transition co-design"). The main kernel of the local coalition engaged in the construction of the CCC is the Core Team – strongly institutional-based and formed around relationships already present and established in the territory. The Core Team is made up of public subjects co-signing the Commitment and public/private subjects already involved who support the initiative by signing "membership letters". Starting with the Core Team, the Governance around the Climate City Contract aims to broaden the group of actors.

The actors of the local ecosystem – those already involved and those to be involved – are clustered in different sectors: institutional actors, private actors, participatory companies, Third Sector and civil society actors, university bodies and schools.

**ACTORS AND NETWORKS DIAGRAM OF THE LOCAL COALITION**

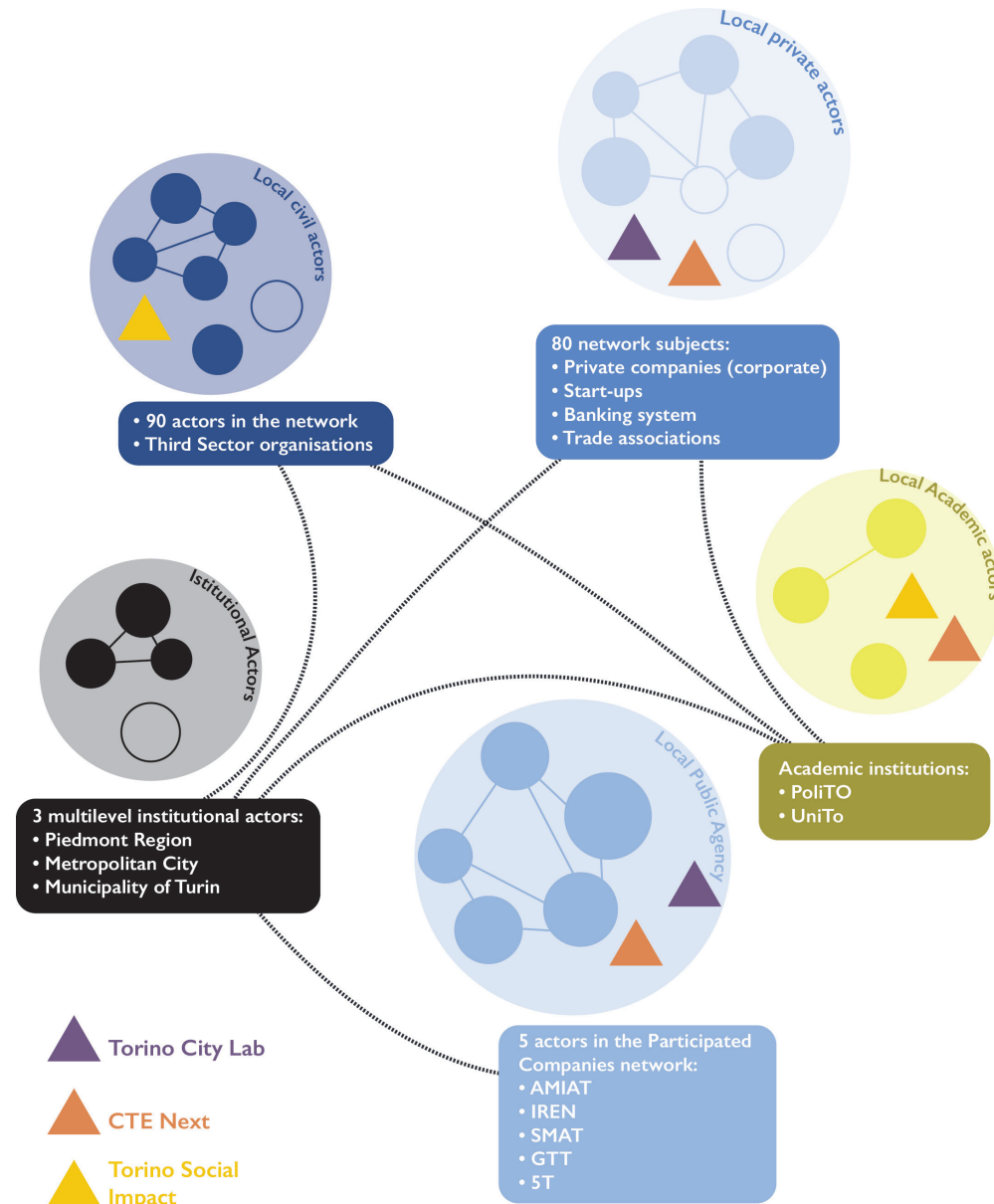


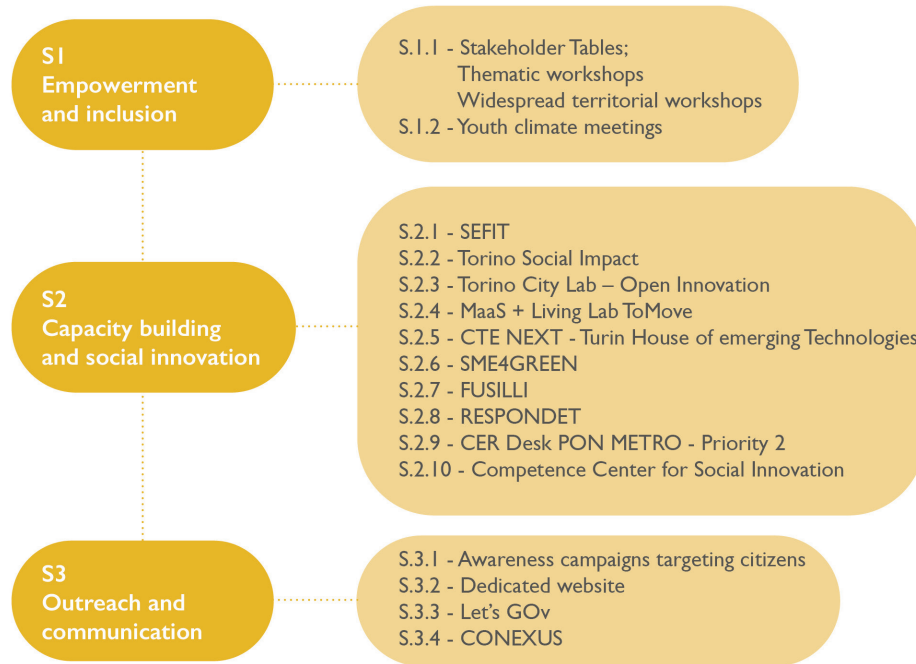
Fig. 5.6 highlights, within each cluster, the networks already activated and those to be involved in the construction of the CCC. In the current system of relations between the ecosystem's different actors, the networks of the Third Sector, the business world, the banking system and the Participated Companies (utilities) represent a relevant contribution. Furthermore, a major focus is put on empowering the younger generations by involving schools, academia, and youth entrepreneurship in building the conditions for achieving climate neutrality.

In this framework, experience with highly differentiated targets makes it possible to test (and refine) effective ways and models of engagement of relevant partners in the concrete implementation of the city transition towards environmental sustainability. The work on this topic, making the most of previous experience at the local level, will also benefit from the comparison with other Italian cities engaged in the EU Mission. It will also be enriched from insights that will emerge within national and international networks of which Torino is a member, thus unleashing the potential of communities of practice on these issues.

The main social innovation actions and projects aimed at local ecosystem engagement are shown in Table C.2.1. They are to be interpreted as a response to the Systemic Barriers highlighted in Table A-2.3. They consist of three macro-categories of intervention:

- ① **Creation of diverse engagement spaces**, which are amplified by harnessing the engagement capacity of active networks to act collectively, responsibly and equitably, and generate lasting impacts over time;
- ② **Promotion of synergies and coordination with interventions envisaged by local, National and European social innovation projects** to address climate neutrality strategies by strengthening links with other public, private, Third Sector and citizen entities for the empowerment of the entire local ecosystem;
- ③ **Implementation of awareness and information** to strengthen the bonds between citizens and PA – broaden the involvement of vulnerable and intergenerational actors to encourage social behavior change, strengthen active local engagement.

**Fig.5.6 – Scheme of actors and network**



**Fig.5.7 – Social innovations**

**Table C-2.1:  
Relations between social innovations, systems, and impact pathways**

**S.1 - Empowerment and inclusion:**

**S.1.1 – (a) Tables with stakeholders (b) Thematic workshops, (c) Laboratories distributed in the territory**

	<p>(a) Promoted by the Mission Team in line with the political leadership of the city, with targeted participants;</p> <p>(b) Interactive working groups organized by themes;</p> <p>(c) Collaborative spaces for the integration of policies. From specific territories to the city level, for taking lessons on the CCC's themes.</p>
Systemic barriers addressed	Difficulties in the interaction among stakeholders and with the city leadership
Leadership and Stakeholders involved	<p>Leadership</p> <ul style="list-style-type: none"> <li>• Mission Team</li> </ul> <p>In collaboration with</p> <ul style="list-style-type: none"> <li>• Working group CCC</li> <li>• Other groups in Città di Torino</li> </ul> <p>Stakeholders</p> <ul style="list-style-type: none"> <li>• City actors according to the subject, the topic and the objective of the discussion</li> </ul>
Enabling impact	<p>Empowerment of the local ecosystem for the joint understanding of the actions.</p> <p>Developments of interventions in an integrated and multi-level manner.</p> <p>Broadening of the participation and creation of new alliances among actors.</p> <p>Promotion of collective intelligence in the search for solutions and innovation.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Democracy and participation</li> <li>• Governance &amp; policy</li> <li>• Learning &amp; Capabilities</li> <li>• Social innovation</li> <li>• Finance &amp; Funding</li> <li>• Technology/infrastructure</li> </ul>

Co-benefits	<p>Strengthening of the engagement and empowerment capacities in the partnership.</p> <p>Coordinated actions for the implementation of policies with direct/indirect climate impact.</p> <p>Guarantee the long-term impact and the joint work in the partnership.</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience – Mitigation</li> <li>• Health – Environment</li> <li>• Health -Well being</li> <li>• Social – Inclusion</li> <li>• Social – Education</li> <li>• Economy – Local and global connection</li> <li>• Economy – Entrepreneurship and innovation</li> <li>• Resource efficiency – Waste/Water/Food/Land use</li> <li>• Biodiversity</li> </ul>
<b>S.1.2 – Meetings to involve young people and youth associations/Forum</b>	
Description	<p>Participation of youth (fragile group).</p> <p>Activities and instruments in support of local ecosystem. Youth involvement is implemented through the engagement of secondary schools (two meetings with more than 200 students will be held in February 2024) and the establishment of a Youth Forum to facilitate discussion between youth and institutions</p> <p>Spaces for interaction and debate, with various levels of involvement (information, consultation, co-creation, monitoring) in relevant topics identified by the Mission Team.</p>
Systemic barriers addressed	Difficulty in reaching the younger generations
Leadership and Stakeholders involved	<p><b>Leadership</b></p> <ul style="list-style-type: none"> <li>• Mission Team</li> </ul> <p>In collaboration with</p> <ul style="list-style-type: none"> <li>• Working group CCC</li> <li>• Assessorato "Politiche giovanili ed educative" (Youth and educational policies) – Città di Torino</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• Youth associations</li> <li>• Networks of young citizens (Centers for Youth)</li> <li>• Informal</li> <li>• Schools</li> </ul>

	<p>Broadening the active participation of the younger generations.</p> <p>Co-construction of solutions with joint responsibility.</p> <p>Support to initiatives by youth groups.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Democracy and participation</li> <li>• Governance &amp; policy</li> <li>• Learning &amp; Capabilities</li> <li>• Social innovation</li> </ul>
	<p>Generational equity in the actions towards climate neutrality</p> <p>Increase of awareness on the challenges and commitments of the Città di Torino.</p> <p>Guarantee the long-term impact of the climate actions</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience - Adaptation</li> <li>• Health - Environment</li> <li>• Health -Well being</li> <li>• Social inclusion</li> <li>• Social education</li> </ul>
<b>S.2 - Capacity building and social innovation</b>	
<b>S.2.1 - SEFIT</b>	
Description	<p>Promote the development of local social ecosystems for more equal and inclusive green and digital transitions. Two countries are involved Italy and Ireland, with lessons for the rest of Europe.</p> <p>The project partners will map and analyze, involving local actors and stakeholders the most pressing social challenges linked to climate adaptation and digital innovation.</p> <p>The goal of the project is also that of enabling the collaboration between public institutions and private actors in order to encourage innovation.</p>
Systemic barriers addressed	Difficulties in the interaction among stakeholders and with the city leadership, and with foster-ing social innovation

Leadership and Stakeholders involved	<p><b>Leadership</b></p> <ul style="list-style-type: none"> <li>• Città di Torino (Dipartimento Fondi Europei e PNRR)</li> </ul> <p><b>Partner</b></p> <ul style="list-style-type: none"> <li>• Fondazione Giacomo Brodolini (IT – head),</li> <li>• Rethink Ireland (IE),</li> <li>• Città di Torino (IT),</li> <li>• City of Cork (IE).</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• Persons in conditions of energy poverty</li> <li>• Vulnerable subjects</li> </ul>
Enabling impact	<p>Fight against energy poverty.</p> <p>Broadening the involvement of fragile and vulnerable subjects.</p> <p>Changes in social behavior; increase of trust and social cohesion.</p> <p>Promotion of energy efficiency.</p> <p>Raising awareness on energy issues and increase of competences.</p> <p>Public-private partnership for increasing social innovation.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Democracy and participation</li> <li>• Social Innovation</li> <li>• Learning &amp; Capabilities</li> <li>• Governance &amp; policy</li> <li>• Technology</li> </ul>
Co-benefits	<p>Sinergy between social innovation and the green-digital transitions- Answers to urgent social challenges.</p> <p>Promotion of social digital innovation.</p> <p>Strengthening of the social innovation ecosystem.</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience - Adaptation</li> <li>• Health - Environment</li> <li>• Health -Well being</li> <li>• Social - Inclusion</li> <li>• Social – Education</li> </ul>

S.2.2 - Torino Social Impact <sup>95</sup>	
Description	Open platform with public and private actors for dealing with ideas, experiences, projects and resources for catalyzing and attracting initiatives, taking advantage of new technologies for solving social problems with models of sustainable social entrepreneurship
Systemic barriers addressed	Social challenges with new technologies, social innovation
Leadership and Stakeholders involved	<p><b>Leadership:</b></p> <ul style="list-style-type: none"> <li>• Città di Torino</li> <li>• Camera di Commercio di Torino (Torino Chamber of Commerce)</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• 280 actors (companies, institutions, financial operators, actors from Third Sector)</li> </ul>
Enabling impact	<p>Creation of an environment enabling new instruments, co-projects and experiences and net-works for social innovation, in support of the ecological transition.</p> <p><b>Levers:</b></p> <ul style="list-style-type: none"> <li>• Democracy and participation</li> <li>• Social Innovation</li> <li>• Learning &amp; Capabilities</li> <li>• Governance &amp; policy</li> <li>• Finance &amp; funding</li> </ul>
Co-benefits	<p>Strengthening of the engagement and empowerment capacities of the partners.</p> <p>Coordinated action with direct and indirect climate impacts</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience - Mitigation</li> <li>• Health - Environment</li> <li>• Health -Well-being</li> <li>• Social - Inclusion</li> <li>• Social - Education</li> <li>• Economy - Local and global connection</li> <li>• Economy - Entrepreneurship and innovation</li> <li>• Resource efficiency - Waste/Water/Food/Land use</li> <li>• Biodiversity</li> </ul>

<sup>95</sup> See [https://commission.europa.eu/funding-tenders/find-funding/eu-funding-programmes/react-eu\\_en](https://commission.europa.eu/funding-tenders/find-funding/eu-funding-programmes/react-eu_en)

S.2.3 – Torino City Lab	
Description	Space for fostering the ecosystem of local actors, including business, for identifying innovative solutions for the ecological and digital transitions of the territory and the services for citizens
Systemic barriers addressed	Cooperation between actors for the digital and ecological transitions
Leadership and Stakeholders involved	<p><b>Leadership</b> Città di Torino</p> <p><b>Stakeholders</b> Network of 90 public and private partners, Italian and international:</p> <ul style="list-style-type: none"> <li>• large companies;</li> <li>• public utilities;</li> <li>• other strategic stakeholders (research, development and innovation, etc.)</li> </ul>
Enabling impact	<p>Strengthening of the collective awareness regarding the climate challenge, collaborative governance among public and private actors, and the local ecosystem</p> <p>Promotion and experimentation of new working methods and techniques</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Democracy and participation</li> <li>• Social Innovation</li> <li>• Learning &amp; Capabilities</li> <li>• Governance &amp; policy</li> <li>• Finance &amp; founding</li> </ul>
Co-benefits	<p>Strengthening of the engagement and empowerment capacities of the partners.</p> <p>Partnership for innovative actions with high impact on sustainability and the climate action</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience - Mitigation</li> <li>• Health - Environment</li> <li>• Health - Well being</li> <li>• Social - Inclusion</li> <li>• Social - Education</li> <li>• Economy - Local and global connection</li> <li>• Economy - Entrepreneurship and innovation</li> <li>• Resource efficiency - Waste/Water/Food/Land use</li> <li>• Biodiversity</li> </ul>

S.2.4 - MaaS / Living Lab ToMove	
Description	Co-development and testing of innovative and sustainable mobility solutions according to the "C.A.S.E" paradigm: Connected, Autonomous, Shared and Electric. The Living Lab approach will include the involvement of the Public Administration, Research, Industry and Civil Society in shaping three large-scale demonstrators: 1) Integration of an autonomous public transport service within the MaaS application, supported by reinforced Cooperative ITS; 2) demonstration of electric and autonomous robotic platforms for last mile logistics in urban hubs; 3) deployment of digital twin solutions to plan CASE mobility scenarios.
Systemic barriers addressed	Difficulty in reaching to sustainable mobility solutions
Leadership and Stakeholders involved	<p><b>Leadership</b> Città di Torino</p> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• University of Torino</li> <li>• Politecnico di Torino</li> <li>• Fondazione LINKS</li> <li>• Fondazione Piemonte Innova</li> <li>• GTT</li> </ul>
Enabling impact	<p>The Living Lab has three strategic lines:</p> <ul style="list-style-type: none"> <li>• The development of a "Digital Twin"</li> <li>• The integration of an autonomous collective transport service, "demand responsive";</li> <li>• The experimentation of innovative services and solutions the last-mile logistics</li> </ul> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Democracy and participation</li> <li>• Social Innovation</li> <li>• Learning &amp; Capabilities</li> <li>• Governance &amp; policy</li> <li>• Finance &amp; founding</li> <li>• Technology/infrastructure</li> </ul>

Co-benefits	<p>The Living Lab To Move will define an open context for innovation centered on mobility, connected with the platform Torino City Lab and in synergy with CTE NEXT, the House for emergent technologies in Torino.</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience - Mitigation</li> <li>• Health - Environment</li> <li>• Health -Well being</li> <li>• Social - Inclusion</li> <li>• Social - Education</li> <li>• Economy - Local and global connection</li> <li>• Economy - Entrepreneurship and innovation</li> <li>• Resource efficiency - Waste/Water/Food/Land use</li> <li>• Biodiversity</li> </ul>
<b>S.2.5 - CTE NEXT - Torino House of emerging Technologies<sup>96</sup></b>	
Description	<p>The project promotes the acceleration of startup formation and technological transfer to SMEs.</p> <p>Focus: smart mobility, industry 4.0, innovative urban services.</p>
Systemic barriers addressed	Deficient support to start-ups
	<p><b>Leadership</b></p> <p>Città di Torino</p> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• Politecnico di Torino</li> <li>• Università di Torino</li> </ul>
	<p>Technological transfer of emergent technologies in strategic sectors</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Learning and capabilities</li> <li>• Governance &amp; policy</li> <li>• Social innovation</li> <li>• Finance &amp; founding</li> <li>• Technology/infrastructure</li> </ul>

<sup>96</sup> See <https://www.torinosocialimpact.it/>

Co-benefits	<p>CTE Next is integrated with Torino City Lab for the development of business</p> <p>Strengthening of the engagement and empowerment capacities of the partners.</p> <p>Partnership on innovative initiatives with high direct and indirect impact on climate actions.</p> <p>Co-benefits</p> <ul style="list-style-type: none"> <li>• Social innovation</li> <li>• Creation of employment opportunities</li> <li>• Economic growth</li> </ul>
<b>S.2.6 - SME4GREEN</b>	
Description	<p>The European project SME4GREEN aims at creating in 2024 the conditions for the cooperation between local SMEs and the public authorities – fostering the development of policies supporting the adoption of green and digital solutions by local companies. It will support at least 120 SMEs in the cities of Torino (Italia) and Ilfov (Romania) for a sustainable and inclusive transition.</p>
Systemic barriers addressed	Cooperation between SMEs and public authorities
Leadership and Stakeholders involved	<p>Leadership</p> <p>Città di Torino<sup>97</sup></p> <p>Stakeholders</p> <ul style="list-style-type: none"> <li>• Environment Park</li> <li>• Camera di Commercio</li> <li>• UniTO</li> <li>• Uni Pollenzo</li> <li>• Mercato Circolare</li> <li>• PoliTO</li> <li>• MIAC/ Polo Agrifood</li> <li>• Reg. Piemonte</li> <li>• Torino Social Impact</li> <li>• UnionCamere</li> </ul>
Enabling impact	<p>Strengthening of competences concerning the digital and green transitions</p> <p><b>Levers:</b></p> <ul style="list-style-type: none"> <li>• Learning and capabilities</li> <li>• Governance &amp; policy</li> <li>• Social innovation</li> <li>• Finance &amp; funding</li> </ul>

<sup>97</sup> See <https://ctenext.it/il-progetto/>

Co-benefits	<p>Promotion of exchanges of good practices and international cooperation.</p> <p>Fighting against food poverty.</p> <p>Promotion of the local economy and of social innovation</p> <p>Capacity building in the food industry</p> <p>The Local Green Deal of SME4GREEN will feed in the Climate City Contract</p> <p>Creation of a dialogue with SMEs in the food industry concerning the circular economy, in synergy with the European project FUSILLI and in line with the goal of climate neutrality by 2030</p> <p><b>Co-benefits:</b></p> <ul style="list-style-type: none"> <li>• Climate resilience - Mitigation</li> <li>• Health - Environment</li> <li>• Health -Well being</li> <li>• Social - Inclusion</li> <li>• Social - Education</li> <li>• Economy - Local and global connection</li> <li>• Economy - Entrepreneurship and innovation</li> <li>• Resource efficiency - Waste/Water/Food/Land use</li> <li>• Biodiversity</li> </ul>
<b>S.2.7 - FUSILLI</b>	
Description	<p>Foster the transformation of the urban food system through innovative Living Labs</p> <p>Overcoming development barriers for the development and implementation of integrated and systemic food policies, support to the transition towards sustainable food systems in the ur-ban, peri-urban and rural areas</p>
Systemic barriers addressed	Sustainability of the urban food system
Leadership and Stakeholders in-volved	<p>Leadership</p> <p>Department for European Funds and PNNR <sup>98</sup> (Città di Torino)</p> <p>Stakeholders</p> <p>European Partners <sup>99</sup></p>

98 Piano Nazionale di Ripresa e Resilienza (PNNR – National Recovery and Resilience Plan)

99 Grupul de Consultanta Pentru Dezvoltare DCG SRL (RO), Judetul Ilfov – Consiliul Judetean (RO) – Capofila, Asociata Magurele Science Park (RO), Parco Scientifico Tecnologico per l'Ambiente Environment Park Torino (IT)

Enabling impact	<p>Strengthening of the policy "Torino Città del Cibo".</p> <p>Improvement of the awareness regarding nutrition and health</p> <p>Participation of citizens in the food culture.</p> <p>Setting of the conditions for fostering the transition towards more sustainable food models.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Learning and capabilities</li> <li>• Governance &amp; policy</li> <li>• Social innovation</li> <li>• Democracy &amp; participation</li> </ul>
Co-benefits	<p>Promotion of quality food systems</p> <p>Multi-sectoral governance</p> <p>Broadening of local participation</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Health -Well being</li> <li>• Social - Education</li> <li>• Economy - Entrepreneurship and innovation</li> <li>• Resource efficiency - Waste</li> <li>• Resource efficiency – Food</li> </ul>
<b>S.2.8 - RESPONDET</b>	
Description	Promotion of the local and regional development the social economy – for the common management of resources for sustainability and the green transition – with the objective of creating a Local Action Plan.
Systemic barriers addressed	Planning for the social economy
Enabling impact	<p>Leadership</p> <p>Città di Torino</p> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• European partners<sup>100</sup></li> <li>• Environment and Ecological Transition, Energy Management Divisions (Città di Torino)</li> <li>• Innovation and Bids Sector</li> <li>• Torino Chamber of Commerce's Studies Sector</li> </ul>



Co-benefits	<p>Promotion of public-private collaboration for innovative business models for a green, circular and digital food industry.</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Economic growth</li> <li>• Job creation</li> </ul>
<p><b>S.2.9 - CER Desk – National Operative Program (PON METRO - Priority 2 - Environmental Sustainability</b></p>	
Description	<p>Services for supporting the setting up of Renewable Energy Communities (CER). Production of renewable energy in public buildings or areas of the City.</p>
Systemic barriers addressed	<p>New business models for renewable energy</p>
Leadership and Stakeholders involved	<p><b>Leadership</b></p> <p>Città di Torino (Department of Environment and Ecological Transition)</p> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• GSE</li> <li>• Regione Piemonte</li> <li>• Torino Chamber of Commerce</li> </ul>
Enabling impact	<p>Fight against energy poverty</p> <p>Changes in social behavior – strengthening of local commitment, trust and social cohesion</p> <p>Use of renewable resources and energy efficiency</p> <p>Raising awareness on energy matters</p> <p>Construction of CER contributing to the decarbonization of the city</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Learning and capabilities</li> <li>• Governance &amp; policy</li> <li>• Social innovation</li> <li>• Democracy &amp; participation</li> <li>• Finance &amp; Funding</li> </ul>

100 Fundacion Cartif (ES), De Surdurulebilir Enerji Ve Insaat Sanayi Ticaret Limited Sirketi (TR), Stichting VU (NL), Oslomet – Storbymuniversitetet (NO), Izmir Demokrasi Unversitesi (TR), Steinbeis Innovation Gmbh (DE), Acondicionamiento Tarrasense Asociacion (ES), Syddansk Universitet (DK), Universidad De Valladolid (ES), Tampereen Ammattikorkeakoulu Oy (FI), V. N. Karazin Kharkiv National University (UA), Wings ICT solutions information & communication technologies ike (EL), Civiesco SRL (IT), Tecnoalimenti S.C.PA. (IT), Fomento De San Sebastian SA (ES), Nilufer Belediye Baskanligi (TR), Oslo Kommune (NO), Kolding Kommune (DK), Comune di Torino (IT), Kharkiv City Council (UA), Differdange (LU), Tampereen Kaupunki (FI), Grad Rijeka (HR), Municipio de Castelo Branco (PT), Dimos Athinaion (EL), Roma Capitale (IT), Eroski S. COOP. (ES), Territoire Naturel Transfrontalier de la Chiers et de l'Alzette (LU), Fondazione della Comunita di Mirafiori ONLUS (IT), EcoFellows Ltd. (FI), Ahlmanin koulun säätiö (FI), Dimos Athinaion Epicheirisi Michanografisis (EL).

Co-benefits	<p>Promotion of the energy transition and decarbonization. Changes of behaviors in line with the ecological transition.</p> <p>Integration with the project Let's Gov</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"> <li>• Climate resilience - Mitigation</li> <li>• Health - Environment</li> <li>• Health -Well being</li> <li>• Social - Inclusion</li> <li>• Social - Education</li> <li>• Economy - Local and global connection; Entrepreneurship and innovation</li> <li>• Resource efficiency</li> </ul>
<p><b>S.2.10 - Competence Center for Social Innovation - Policy lab</b></p>	
Description	<p>Funded in part through the 2014-2020 European Social Fund and the EU programme for Employment and Social Innovation (EaSI), the Italian national competence center is set up to drive social innovation – locally, regionally, nationally and transnationally.</p> <p>Located in Torino and lead by the Municipality of Torino the Competence Centers intends to become a national policy lab supporting public administrations, stakeholders, citizen to collaborate in the designing and implementing of public services and policies.</p>
Systemic barriers addressed	<p>Lack of trust between PA and citizen, poor knowledge of methodologies and policy co-design tools</p>
Leadership and Stakeholders involved	<p><b>Leadership</b></p> <ul style="list-style-type: none"> <li>• Città di Torino</li> </ul> <p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• Politecnico di Torino, Politecnico di Milano, University of Bologna, Fondazione Brodolini, Euricse, National Managing Authority of ESF funds</li> </ul>
Enabling impact	<p>Creation of a platform to help the public administrations to dialogue with the local community on urban policy in a collaborative, productive way.</p> <p><b>Levers</b></p> <ul style="list-style-type: none"> <li>• Democracy and participation</li> <li>• Social Innovation</li> <li>• Learning &amp; Capabilities</li> <li>• Governance &amp; policy</li> </ul>

Co-benefits	<p>Improving the transparency of urban governance and accountability process for all stakeholders involved</p> <p><b>Co-benefits</b></p> <ul style="list-style-type: none"><li>• Climate resilience - Mitigation</li><li>• Health - Environment</li><li>• Health -Well-being</li><li>• Social - Inclusion</li><li>• Social - Education</li><li>• Economy - Local and global connection</li><li>• Economy - Entrepreneurship and innovation</li><li>• Resource efficiency - Waste/Water/Food/Land use</li><li>• Biodiversity</li></ul>
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## 6. Outlook and next steps

### Plans for next CCC and CCC Action Plan iterations

Città di Torino is determined to continue with its transition towards climate neutrality implementing the pathways detailed in this ambitious Action Plan. This Plan is in line with the policies, strategies and activities carried out in the last years, and is therefore a natural (though much more ambitious) expansion of the processes and measures already in place.

The novelties in this Action Plan concern: i) the better and deeper structuring of the governance of the climate action, looking to intensifying the links with all social actors in the awareness that without their participation this effort will be impossible to fulfil; and ii) the implementation of a solid scientific base for gathering and processing all the data needed, the models and algorithms required for the calculation of the emissions and their technical factors (energy, traffic, waste treatment, etc.), and the synthesis and presentations of the results. The latter has taken the form of a software platform, developed in partnership with the academic partners of the city, and which for its relevance can be of great value to other cities that will join the Mission Cities.

The next steps by Città di Torino will be:

1. **Governance:** empowerment of Torino's Mission Team, for the immediate launching of the planning and execution of projects;
2. **Actor's involvement and Transition co-design:** launching of joint working tables and groups with relevant actors for the concrete discussion of the implementation of the planned actions.
3. **Finalization of the tool for supporting the implementation of the Action Plan:** the city will further develop the science-based tool for now supporting the detailed planning and tracking of the execution of the planned actions.

**Table AI-1:  
List of Micro-actions**

Macro-Area	Macro-Action	Micro-Action	Year	Investment
Stationary Energy	FS1 - District heating: 70% coverage of TRL network in built volume without new power plants	Refurbishment of building at corso Racconigi 25, staircase 1-3-5	2025	9,058,203
		Social housing energy redevelopment	2023	-
		Energy retrofit of barracks and police stations	2025	-
		Extension of Iren District Heating Network	2026	-
	FS2 - Thermal insulation of buildings: improvement of thermal insulation in F and G class buildings; further improvements for other classes	Energy riqualification of social housing - Strada delle Cacce 122-124-126	2024	979,517
		Energy riqualification of social housing - via Ghedini 12 sc. 19-20-21	2024	2,061,811
		Energy riqualification of social housing - via Ivrea 15-17-19-21-23-25-27	2024	15,726,000
		Energy riqualification of social housing - via Maddalene 30 sc. 9-13- via Maddalene 34 sc. 1-8- via Ghedini 12 SC. 14-18	2024	15,800,526
		Energy riqualification of social housing - via Petrella 75, via Pietracqua 19	2024	704,170
		Energy riqualification of social housing - Torino via Pietracqua 35, via Cruto 24	2024	1,071,577
		Energy riqualification of social housing - via Scialoja 28-30-32-34	2024	3,550,000
		Energy riqualification of social housing - via Verga 10-12-14	2024	1,737,465
		Energy riqualification of social housing - Corso Giulio Cesare 267-269-271	2024	3,795,522
		Energy riqualification of social housing - Corso Racconigi 25 sc. 13-15-17	2024	5,227,572
		Energy riqualification of social housing - Corso Racconigi 25 sc. 14-16-18-18bis-20-22-24	2024	10,947,421
		Energy riqualification of social housing - Corso Racconigi 25 sc. 19-21-23	2024	5,227,572
		Energy riqualification of social housing - Corso Racconigi 25 sc. 2-4-6-8-10-12	2024	14,120,341
		Energy riqualification of social housing - Strada del Cascinotto 48-50-52-54	2024	1,185,004

## 7. Annex

### Annex I - List of Micro-actions

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<b>Stationary Energy</b>	<b>FS2 - Thermal insulation of buildings: improvement of thermal insulation in F and G class buildings; further improvements for other classes</b>	Energy riqualification of social housing - via Carema 2-4-6-8	2024	9,087,000
		Energy riqualification of social housing - via Cuneo 30 sc. 7-8-9-10-11-12-13, via Damiano 15 sc. 1-2-3-4, Via Damiano 15 sc. 14-15-16-17-18	2024	3,892,653
		Energy riqualification of schools - Pacinotti/Boncompagni	2024	1,368,000
		Energy riqualification of schools - Via Stampini 25	2025	3,850,000
		Energy riqualification of social housing - VALLETTE	2024	676,788
		Energy riqualification of social housing - Viale dei Mughetti 20	2024	4,022,429
		Energy riqualification of "Casa Bottega" market	2024	306,928
		Energy riqualification of young community center	2026	5,132,000
		Energy riqualification of public buildings - via Frejus 21 and via Bixio 56	2026	6,571,974
		Energy riqualification of schools - via Bardonecchia 34-36	2025	1,980,000
		Energy riqualification of sports complex - Lombardia and Franzoj swimming pools	2025	1,564,636
		Energy riqualification of school building at Via Mameli 18	2024	800,000
		Advancing Social Mixité and Sustainable Urban Development through Public Housing at Piazza Repubblica 13	2026	11,681,475
		Enhancing Urban Quality and Community Identity: Construction of a High-Performance Preschool Hub at Via Pietro Giuria 43	2025	3,310,419
		Enhancing Energy Efficiency: Extraordinary Maintenance for School Building 'Nigra' at Via Bianzè 7	2023	250,000
		Comprehensive Restoration and Seismic Enhancement of Pestalozzi Elementary School: A Holistic Approach to Safety, Preservation, and Energy Efficiency	2026	5,090,400

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<b>Stationary Energy</b>	<b>FS2 - Thermal insulation of buildings: improvement of thermal insulation in F and G class buildings; further improvements for other classes</b>	Energy Upgrading, Space Enhancement, and Regulatory Compliance for I.I.S Copernico Luxembourg	2023	3,000,000
		Energy Upgrading of School Buildings: Promoting Green Transition and Efficiency Measures (Via Beinasco 34, Corso Vercelli 157, Via Cecchi 16)	2021	3,450,000
		Extraordinary Maintenance for Building Energy Consumption: Promoting Green Transition and Efficiency Measures (Via A.Negri 21-23)	2023	3,084,750
		Energy upgrading, space enhancement and regulatory compliance Liceo Classico Alfieri	2023	2,000,000
		Extraordinary maintenance for building energy consumption Via San Sebastiano Po 6	2023	2,469,611
		Extraordinary maintenance for building energy consumption Via Vallauri 24	2023	2,664,900
		Extraordinary maintenance for building energy consumption Via Lussimpiccolo 36/A	2023	2,647,350
		Extraordinary maintenance for building energy consumption Via Stampini 25	2025	3,850,000
		Energy upgrading, space enhancement and regulatory compliance LICEO ARTISTICO ALDO PASSONI	2023	2,000,000
		Energy upgrading, space enhancement and regulatory compliance LICEO CLASSICO GIOBERTI	2023	2,000,000
		Energy upgrading, space enhancement and regulatory compliance L.S. CARLO CATTANEO	2026	2,500,000
		School buildings energy redevelopment	2024	3,354,710
		Energy retrofit of municipal office buildings	2022	3,495,000
		Renovation of I.I.S. Russel-Moro-Guarini: Enhancing Energy Efficiency with Window and Door Replacement, Courtyard Refurbishment, and Safety Sound System Retrofit	2030	100,000

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<b>Stationary Energy</b>	<b>FS2 - Thermal insulation of buildings: improvement of thermal insulation in F and G class buildings; further improvements for other classes</b>	Renovation of Liceo Classico M. D'Azeglio: Enhancing Energy Efficiency with Façade Retrofit, Window/Door Replacement, and Restroom/Laboratory Refurbishment	2030	132,000
		Renovation of Istituto Santorre di Santarosa: Enhancing Energy Efficiency with New Insulated Roof Construction	2030	2,380,000
		Renovation of Istituto A. Avogadro: Enhancing Energy Efficiency with Window and Door Replacement, Floor Isolation, and Gymnasium Roof Refurbishment	2030	1,500,000
		Renovation of Istituto Superiore Giordano Bruno: Enhancing Energy Efficiency through Classroom Window and Door Replacement	2030	500,000
		Renovation of Liceo Cottini: Enhancing Energy Efficiency through Window and Door Replacement, and Outdoor Area Retrofit	2030	400,000
		Renovation of ITTS C. Grassi: Enhancing Energy Efficiency with Electric System Adaptation and Window/Door Replacement	2030	5,500,000
		Renovation of Istituto Professionale Colombatto: Improving Energy Efficiency through Asbestos Removal, Heating Regulation, and Window Replacement	2030	5,130,000
		Renovation of Istituto Professionale Birago: Enhancing Energy Efficiency through Asbestos Removal and Glazed Façade Replacement	2030	600,000
		Renovation of Liceo A. Einstein: Improving Energy Efficiency through Façade Retrofitting and Electrical System Replacement	2030	1,000,000
		Renovation of Social Housing at Corso Lecce: Installing Elevators and Upgrading External Fixtures for Enhanced Accessibility and Efficiency	2030	900,000
		Social Housing Renovation at Via Pianezza: Retrofitting Electrical and Heating Systems	2030	900,000

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<b>Stationary Energy</b>	<b>FS2 - Thermal insulation of buildings: improvement of thermal insulation in F and G class buildings; further improvements for other classes</b>	Social Buildings at Via Rosa 13 - Alma Mater: Enhancing Energy Efficiency through Thermal Insulation and Fixture Replacement	2030	1,000,000
		Seismic Upgrading and Restoration Project for Carlo Boncompagni Primary School: Enhancing Structural Safety and Energy Efficiency	2030	7,900,000
		Renovation of Scuola Silvio Pellico's School Lunch Room: Enhancing Energy Efficiency and Thermal Comfort	2030	832,000
		Improvement of energy performance of the public building at 139 Cuornè Road.	2027	3,000,000
	<b>FS6 - Electrical equipment: improvement in energy efficiency</b>	Energy riqualification of "Teatro Nuovo" theatre	2026	71,800,000
		Energy riqualification of schools - Via Verolengo	2025	3,322,587
		Energy riqualification of "Borgo Medievale" complex	2026	6,000,000
		Energy riqualification of libraries - Luigi Carluccio	2026	5,857,660
		Energy riqualification of libraries - Italo Calvino	2026	1,167,140
		Energy riqualification of Nitti, Baltimore, Don Grioli and Sebastopoli markets	2025	2,281,500
		Energy riqualification of sport plants - Primo Nebiolo Stadium	2025	1,155,958
		Extraordinary Maintenance of Social Building: Refurbishment for Energy Efficiency Enhancement (Via Foligno 10)	2026	2,761,000
		Extraordinary Maintenance of Social Building: Refurbishment for Energy Efficiency Enhancement (Via Leoncavallo 17/27 and Via Pancini 18)	2026	4,933,500
		Refurbishment of Residential Buildings: Enhancing Energy Efficiency and Implementing Sustainable Solutions (Via Sansovino 26)	2024	2,275,000
		Enhancing Energy Efficiency of Residential Buildings: A Case Study at Via Aosta 37, City of Turin	2024	1,685,000
		New Library at Via Viterbo: Enhancing Energy Efficiency and Green Spaces	2030	- €

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<b>Stationary Energy</b>	<b>FS8 - Policies for the development of energy communities</b>	Energy communities funds	2027	300,000
	<b>FS10 - Energy retrofitting of 800 municipal buildings with Iren (EfficienTO)</b>	Energy retrofitting of 800 municipal buildings with Iren (EfficienTO)	2022	110,000,000
	<b>FS13 - Replacement of traditional lamps with new LED lamps</b>	LED Enhancement for Public Lighting Systems. High-Power Lamps and Underpasses Replacement of Traffic Light Lanterns	2022	14,230,160
		LED Enhancement for Public Lighting Systems. 'Historical' and Decorative Fixtures	2030	12,700,000
		Public lighting lamps replacement with LED devices	2020	- €
		Traffic lights replacement with LED lamps	2022	- €
		High energy performance building construction - Piazza Montale	2024	5,373,626
		Energy riqualification of libraries - Dietrich Bonhoeffer, Natalia Ginzburg, Cascina Marchesa	2026	7,315,040
		Energy riqualification of Guala, Pavese and Madama Cristina markets	2025	2,659,200
		Energy riqualification of Brunelleschi and Porpora markets	2025	2,489,737
		Plant riqualification of sports complex - Massari	2024	2,258,190
		Enhancing Energy Efficiency in School Buildings - South Area A34 through Extraordinary Maintenance	2026	5,626,996
		Enhancing Energy Efficiency in School Buildings - West Area A33 through Extraordinary Maintenance	2026	3,591,668
		Enhancing Energy Efficiency in School Buildings - North Area A32 through Extraordinary Maintenance	2026	6,342,732
		Enhancing Energy Efficiency in School Buildings through Extraordinary Maintenance (circostrizione 7-8)	2026	2,391,537
Park for Environmental Education and Sport - Cluster 2: Refurbishment of Ex Galoppatoio for Sustainable Community Engagement		2026	4,000,000	

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<b>Stationary Energy</b>		Extraordinary maintenance of Passo Buole and Colletta sport centre, Cecchi gym, Colletta swimming pool and Parco Ruffini athletic fields	2025	2,287,788
		Energy efficiency retrofit of libraries and buildings of historical and cultural interest	2026	10,083,000
		Information and awareness-raising of citizens and operators on incentives and energy-saving opportunities	2023	- €
		Building Iren Heat Storage and Thermal Solar System with Integrated Components in Mirafiori Nord	2030	46,000,000
<b>Transport</b>	<b>FT1 - Replacement of ICE vehicles with electric ones</b>	Green to share	2023	2,930,000
	<b>FT3 - Replacement of private cars with electric vehicles</b>	Expansion of Public Electric Vehicle Charging Infrastructure	2019	- €
	<b>FT4 - Promotion of alternative means of transport: building cycle paths</b>	Green corridors Retrofit of Lungo Dora (from Corso Principe Oddone to Parco Colletta)	2023	1,998,571
		Biciplan - Connection of cycle lane : Corso Verona	2023	800,000
		Biciplan 2 - Connection of cycle lane - Securing cycle crossings and accessibility	2023	1,300,000
		Biciplan 3 - Connection of cycle lane: park of Clessidra (from Largo Tirreno to Corso Turati)	2023	800,000
		Biciplan 4 - Connection of cycle lane: Corso Marconi	2023	1,200,000
		Biciplan 5 - Connection of cycle lanes: Piazza Robilant, Via Gorizia (from Via Filadelfia to Corso Cosenza)	2023	1,250,000
		Biciplan 6 - Connection of cycle lanes	2023	2,800,000
		Enhance public cycle lane	2026	4,113,829
		Cycle lane Robilant Peschiera	2024	520,000
		Enhancing Cycle Connections for Sustainable Mobility Corso Cincinnato	2025	1,200,000
		Enhancing Cycle Connections for Sustainable Mobility paths between Corso Ferrara and Corso Grosseto	2024	1,500,000

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Transport	Extension of Cycle Lanes between the city and neighboring municipalities: Promoting Active Mobility and Connectivity within the City (Part A)	2024	1,320,763
	Maintenance and Improvement of Cycle Lanes: Enhancing Bicycle Mobility and Safety	2023	1,000,000
	Cycle Counterpaths: Enhancing Bicycle Infrastructure and Safety on Corso Peschiera, Corso Regina Margherita, and Corso Potenza	2023	1,000,000
	Extension of Cycle Lanes between the city and neighboring municipalities: Promoting Active Mobility and Connectivity within the City (Part B)	2023	1,320,764
	Project Harmony	2023	127,500
	Incentivizing the purchase of travel tickets for Municipality of Turin employees	2019	3,600,000
	Enhancement cycling mobility (urban cycle lanes)	2026	4,113,829
	Upgrade of bicycle network	2019	- €
	Construction of new bicycle parking stalls	2019	- €
	Urban Mobility Enhancement Program: Expansion and Revitalization of Station-Based Bike Sharing	2023	- €
	Implementation of Sustainable Bicycle Parking Facility near Porta Nuova	2030	350,000
	Enhancing Intersection Safety and Bicycle Mobility through Dedicated Crossings and Traffic Signal Adaptations	2023	1,300,000
	Enhancing Livability and Connectivity through Green Corridors along Lungo Dora	2023	2,000,000
	Promoting Modal Shift with Interchange Parking Facility at Piazza Bengasi	2025	11,585,000
	Cycling Infrastructure Enhancement on Via Vandalino: Implementing Dedicated Bike Lanes and Safe Intersection Designs	2030	2,800,000
	Enhancing Mobility in District (Circoscrizione 4): Completing Dedicated Cycling Lanes and Improving Road Crossings	2030	2,800,000

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Transport	Improving Cycling Safety in District (Circoscrizione 5): Traffic Light Adaptation for Road Crossings	2030	1,300,000	
		Enhanced Cycling Infrastructure in District (Circoscrizione 2): Improving Traffic Control for Cyclists	2030	- €
	FT5 - Development of policies of carsharing with non-ICE vehicles	Project MaaS / Living Lab TOMOVE	2025	7,000,000
		Promotion free-flow sharing mobility service	2019	- €
		Identification of operators for a car sharing service with vehicles with reduced environmental impact, through public notice	2019	- €
	FT7 - Renewal of the local public transport fleet	Intervention of energy efficiency in transport system	2030	10,047,000
		Replacement of urban and suburban bus fleet	2024	288,400,000
	FT8 - Constuction of metro line 2	Automatic Metro M2 Line: Connecting San Mauro to Orbassano via Turin's Central Area, with Interchange Stations and Multimodal Transportation Options	2030	
		Reorganisation traffic circulation Piazza Baldissera and refurbishment of tramway line	2027	7,500,000
		Pedestrianization and retrofit of Via Coazze between via Almesè and via Saffi	2027	232,000
		Hydrogeological Refurbishment of Hillside Parks: Stabilizing River Banks and Reconnecting Cycle-Pedestrian Paths	2024	750,000
		Implementation of 30 Zone for Enhanced Public Space and Safety (large territorial portion between corso Vittorio Emanuele II, corso Trapani, via Capriolo, corso Peschiera and corso Racconigi)	2025	1,000,000
		Refurbishment of Square in Front of Torino Esposizioni: Transforming into a Pedestrian-Friendly Entrance and Park Connection	2026	3,000,000
		Valdocco Vivibile Lotto 2 - Requalification of Public Space and Mobility for Enhanced Livability	2025	1,500,000
		New traffic light systems and installation of devices for the blind	2023	350,000



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Transport		Digitization and dematerialization of parking and travel tickets	2030	8,700,000	
		Special collective mobility services at events	2019	150,000	
		Renewal of the Protocol of Understanding for Logistics and Rationalization of Urban Goods Distribution between the City of Turin, CCIAA and the Associations, integrating and updating its sustainability criteria	2019	- €	
		Promoting Intermodality through Enhanced Utilization of Interchange Parking Facilities	2019	- €	
		Extending Metro Line 1 Westward with New Stations and Tunnels	2026	271,000,000	
		Enhancing Emission Reductions through Completion and Development of the Metropolitan Railway System	2023	175,000,000	
		New Line 12: Enhancing Public Transit Connectivity from Northern Suburbs to City Center	2030	229,700,000	
		Digitization of Citizen Taxation Services: Streamlining Processes and Minimizing In-Person Visits	2030	2,800,000	
		San Secondo Street Sustainable Urban Project: Velocity limitation, Emphasizing Green and Permeable Areas	2030	- €	
		Pedestrianization of Roma street	2027	12,245,000	
	Waste	FW3 - Reduction of waste generation, reduction of waste sent to waste-to-energy plant by the city of Turin and increase sorted waste collection	Creation of recycling waste collection point	2026	1,336,800
			Circular economy funds for Smes and non profit organisations	2027	2,400,000
			Project Sme4green	2023	41,500
		Project Fusilli	2024	556,000	
		Project Woodcircles	2025	175,000	
		SMAT's Sustainable Innovation: Biomethane Production from Sewage Sludge	2019	4,386,000	

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AFOLU	FGI - Increase in planted trees and green areas	Sustainable Water Access: SMAT's Water ATM Initiative in Turin	2020	235,120
		Energy riqualification of libraries - Francesco Cognasso	2025	4,649,040
		Greening interventions in historic buildings - Villa Amoretti, Andrea della Corte and Mausoleum of Bela Rosin	2026	3,280,480
		Greening interventions in Tesoriera and Rignon Parks.	2025	2,160,000
		Greening interventions in "Cesare Pavese" and "Passerin d'Entreves" municipal libraries and in "L'isola che non c'è" and "Centro dentro" youth centres.	2026	5,268,600
		Greening interventions	2024	900,000
		Green interventions in parks, fluvial corridors and urban boulevards	2023	3,924,228
		Refurbishment of public areas	2023	3,280,703
		Urban Forestation	2020	146,400
		Urban Forestation	2021	203,350
		Urban Forestation	2022	219,600
		Urban Forestation	2023	49,003
		Urban Forestation	2029	160,000
		Refurbishment of the area of the former military gallop "Ferruccio Dardi"	2026	7,500,000
		Environmental refurbishment of Villaretto lake and ecological corridors	2025	- €
		Refurbishment of EX FIP Square for Enhanced Functionality and Urban Greenery	2024	375,000
		Participatory Forestry Campaigns	2023	1,000,000
		Planting of approximately 40,000 trees in extensive city parks and a further 20,000 trees through participation in the 'forestation' call	2022	3,050,000
		Enhancing Resilient Neighborhoods through Traffic Moderation and Pedestrian-Friendly Initiatives in San Donato and San Secondo	2023	3,000,000
		Enhancing Urban Environment with Green Spaces, Energy-Producing Furniture, and Innovative Materials - Scuola Primaria Giuseppe Allievo	2030	1,000,000

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<b>Waste</b>	<b>FGI - Increase in planted trees and green areas</b>	Retrofit of Corso Belgio: Enhancing Permeability and Climate Adaptation with New Tree Species and Natural Drainage Solutions	2030	- €
		Upgrading Public Transport Stops: Lowering Temperature with Cool Materials and Green Sedum Coverings	2030	1,000,000
		Enhancing Livability on Via Stradella: Retrofitting Parking Areas with Tree Planting, Cooler Materials, and Improved Rainwater Drainage	2030	1,000,000
		Renovation of Green Area at Verbene Street: Enhancing Security with Renewable Energy-Powered Lighting and Sustainable Park Features	2030	916,000
		Retrofitting East Entry of Vallette Park: Enhancing Accessibility and Sustainability with Bike Paths and Green Area Reorganization	2030	210,000
		Revitalization of Corso Unione Sovietica's EX-IRV: Enhancing Green Spaces and Urban Vegetable Gardens with Irrigation Infrastructure	2030	7,000,000
		Urban Library Spaces Renewal: Upgrading Road Flooring, Sidewalks, and Green Areas	2030	- €
		Experimental Program of Interventions for Urban Climate Change Adaptation	2024	2,266,927
		Redevelopment of municipal areas with Nature Based Solutions	2027	1,500,000
		Renaturalization of urban areas by planting trees and shrubs	2027	100,000
		Resilient redevelopment of public space - Via Stradella	2027	925,000
		VALDOCCO VIVIBILE I Revitalization with Experimentation of NBS Solutions, Green Interventions, and Sustainable Mobility Measures.	2023	1,300,000

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<b>Waste</b>	<b>FG2 - Development of green areas on roofs and vertical forests</b>	Nature based solutions deployment in public buildings - Via Cumiana 15	2023	55,000	
		Refurbishment of green areas	2023	6,758,502	
		Social Housing at Porta Palazzo: Incorporating Green Spaces for Natural Atmosphere and Shaded Areas	2030	10,000,000	
		Collaboration Pact for Climate Adaptation at Viale Michelotti 166	2030	1,000,000	
		Implementation of a Low-Maintenance Green Roof with Reduced Water Needs (Irrigation with Rainwater Harvesting) - Viale Michelotti 166	2025	540,000	
		Hydrogeological recovery interventions in hillside parks	2024	750,000	
	<b>Energy systems</b>	<b>FEI - Increase in the share of PV in the electricity generation system</b>	Project CONEXUS	2027	175,000
			Project COFARM4CITIES	2025	175,000
			Project ProGReg	2023	896,000
			Project NextGenWE	2025	80,000
			Extraordinary Maintenance of Racconigi Market for Improved Infrastructure and Accessibility	2025	1,515,000
			Maintenance of soil (areas between Repubblica square, via Cigna, the river Dora Riparia e corso XI Febbraio)	2025	2,000,000
			Enhancing Safety and Accessibility: School Zone Redevelopment Project	2023	3,000,000
			Energy riqualification of social housing - Via Sansovino 26	2026	2,275,000
		Advancing Energy Efficiency and Sustainability: Refurbishment of Public Housing at Via Aosta 37	2026	1,685,000	
		Urban Area 'Veglio' Refurbishment: Integrating Public Residences and Green Space with Photovoltaic Power	2026	18,150,000	
		Refurbishment and Expansion of Public Residences for Elderly and Families with Photovoltaic Integration - Porta Palazzo	2026	12,291,410	
		Construction of Temporary Residences for Social Inclusion: A Holistic Approach to Housing and Community Support - Via Vagnone 15	2024	6,096,262	

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<b>Waste</b>		Construction of a New Childhood School Building: Meeting Energy Efficiency Standards with Photovoltaic Integration at Via Verolengo	2025	3,322,587	
		Construction of a New Childhood School Building: Meeting Energy Efficiency Standards with Photovoltaic Integration at Corso Massimo d'Azeglio	2025	3,310,419	
		Construction of New Schools through Building Refurbishment: Achieving Energy Efficiency Standards with Photovoltaic Integration at via Santhià	2026	2,647,350	
		Extraordinary maintenance of Trecate sport centre and Gaidano swimming pool	2025	2,365,199	
		Implementation of a Floating Photovoltaic Power Plant by SMAT	2026	10,000,000	
		PV Power Plant at SMAT Headquarters	2024	455,000	
	<b>FE2 - Increase in the share of purchase of Zero Emission Electricity</b>		Electrical energy purchasing from renewables	2023	- €
			SMAT's Renewable Energy Transition Initiative: Exclusive Renewable Electricity Procurement since 2020	2020	16,000,000
	<b>Cross-cutting</b>		Application of Minimum Environmental Criteria in the Strategical Environmental Assessment Procedures	2023	- €
			CCC Innovation funds for Smes	2027	7,200,000
		Empowering the administration of 9 Italian cities to act effectively towards climate neutrality.	2025	- €	
		ESA Agreement - 5G for l'Art and House of Emerging Tech	2027	3,000,000	
		Forestation campaigns with sponsors and institutional partners	2023	- €	
		ISO 50001 certification of the Municipality of Turin	2023	- €	
		New European Bauhaus interventions on public spaces	2027	21,350,000	
		Project Climaborough	2026	292,500	
		Project CTE Next	2025	- €	
		Project Desire	2025	72,500	

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<b>Cross-cutting</b>		Project GIPA - Gruppo Interdipartimentale sulle Politiche del Cibo	2025	- €
		Project Respondet	2025	18,900
		Project Seed	2023	100,000
		Turin House of Emerging Technologies - CTE NEXT - Funding for startups and SMEs for the deployment of 5G enabled solutions for Net Zero Cities	2027	555,000

## 7. Annex

### Annex II - Participatory model

1. The engagement process
2. Process stages
3. Building the Climate Partnership

# I. The engagement process

The Città di Torino has embarked on the journey toward climate neutrality with a deep understanding of the complexity of the challenge ahead and the opportunities it presents to leverage knowledge, planning, and collaborative processes. At each stage of compiling the CCC, there was a deliberate examination of dynamics, relationships, data, plans, and partnerships, with a focus on elements that could provide strong support for the structure of the CCC and its accompanying processes of ideation, realization, monitoring, and implementation.

The firm commitment of the political mandate to align with the EU Mission serves as a driving force in establishing **the principles, approaches, and operational core** that will guide the city in creating increasingly structural and effective conditions and partnerships to accelerate its decarbonization efforts.

The construction and implementation of the Torino CCC are founded on the decision to bring together multiple stakeholders and progressively increase their level of participation. Beginning with robust governance within the municipal administration, engagement expands to encompass a broader nucleus involving key targets within the local ecosystem—actors and entities deeply involved in other processes with high potential for direct and/or indirect impacts on achieving climate neutrality.

As mentioned in Section 5 of the Action Plan, this inclusive approach extends to individual citizens, reflecting a commitment to inform, involve, and activate various territorial stakeholders and the community in collectively addressing the challenge of achieving climate neutrality by 2030.

## 1.1 The principles

The Città di Torino's engagement process is guided by the 3 key principles, in line with what is set out in the Commitments and the Action Plan:

### Transparency and inclusion.

The accessibility and understanding of climate neutrality must necessarily pass through its translation into a popular key, to create the right conditions for the partnership network to act effectively, systematizing knowledge, experience and lessons learned. At the same time, a partnership that intends to be effective in climate terms must engage and activate the right alliances, in order to take a systemic approach to the vulnerabilities of the local ecosystem and seize the opportunity to set up effective policies, projects and resources to contrast the energy poverty of certain targets and marginal areas of the city.

### A focus on people and interconnection, for a fair transition<sup>1</sup>.

The approach underscores the importance of interconnection and of putting people first, with their needs and abilities, in building a positive environment in which to co-create and make decisions together.

### Shared responsibility and collaborative learning.

Such a significant change calls for commitment, drive, creativity and resources from a broad range of actors, working together towards a common goal. And above all, it calls for new forms of governance and collaboration that actively engage the entire local ecosystem with different degrees of empowerment and in learning that enhances collective intelligence, resulting in a process of change that is open, continuous, rooted, monitorable and implementable over time.

These principles are recognized and embraced by the signatory parties, the main partners and the supporters who have joined the initiative by signing the Climate City Contract together with the Città di Torino and the "membership letters" enclosed with the Commitment Plan. The same principles will guide the search for future coalitions with other ecosystem actors.

## 1.2 The intensity of the engagement process

The CCC is the result of an iterative process of consultation and co-creation led by the Città di Torino, in which the various stakeholders involved collaborate to achieve climate neutrality by 2030.

The process involves **different levels of engagement** and is carried out through varying degrees of involvement – depending on the commitment required – of the following subjects and/or clusters of actors:

- public sector (municipal administration; the various levels of city government and the institutions and agencies involved);
- private sector (large corporations, SME, startups, accelerators, incubators, etc.);
- universities, research centers, schools;
- banks and Foundations;
- third sector agencies and associations (non-profits, NGO, foundations, professional associations, etc.);
- city residents.

As part of the information and citizen engagement activities, special attention is dedicated to the new generations and vulnerable groups, who stand to suffer most from the climate crisis.

## 1.3 Mapping the stakeholders

Mapping stakeholders was the inaugural task undertaken by the Transition Team, as outlined in the Action Plan summary. The objective was to gain a comprehensive understanding of the local ecosystem. Stakeholders were categorized into four intervention areas identified by the Città di Torino: mobility, buildings and energy systems, green infrastructures, and waste and circular economy. Additionally, two cross-cutting themes of participation and governance were incorporated. Utilizing these thematic areas facilitated the Città di Torino in delineating each actor's potential role in the process, thereby determining their level of involvement and responsibility.

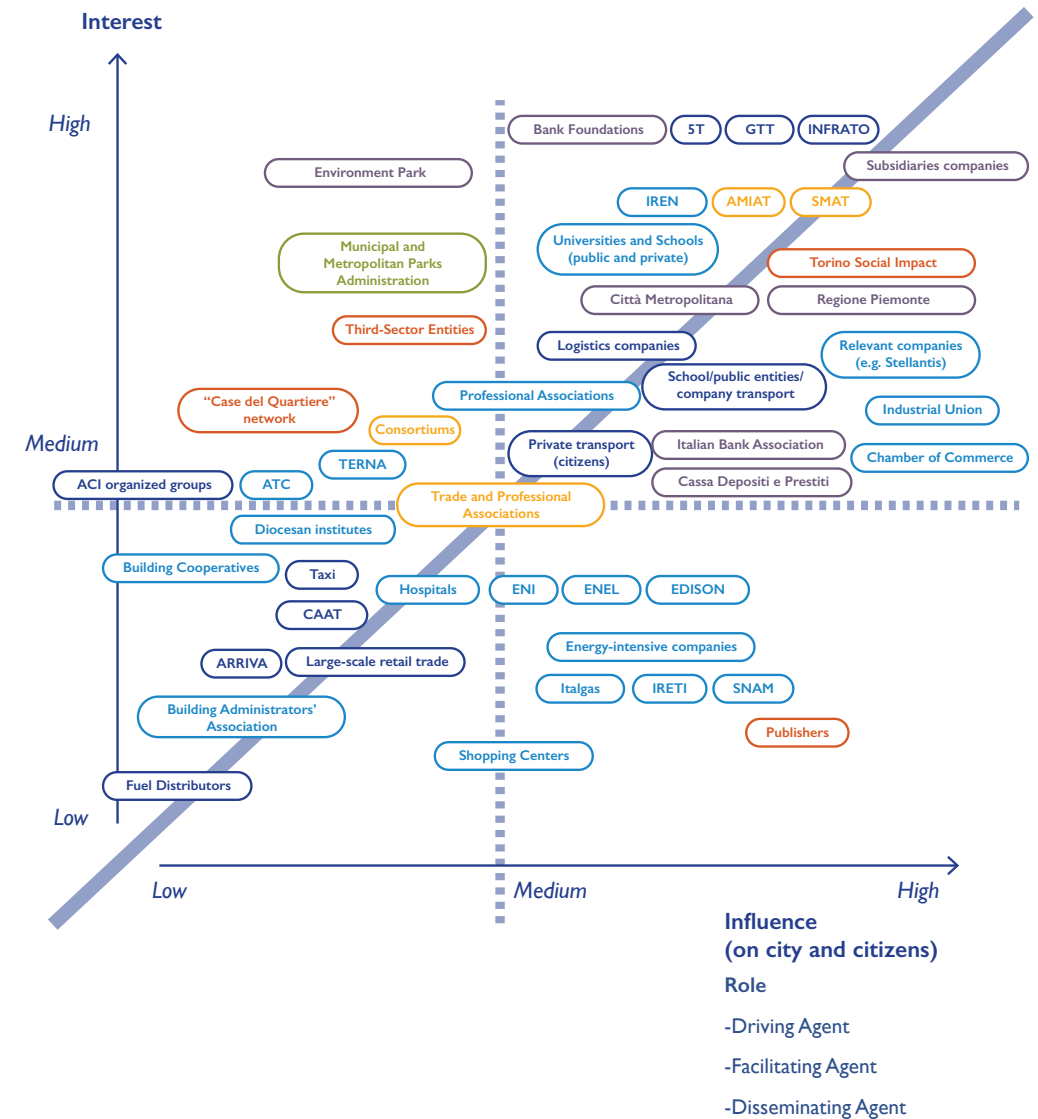
<sup>1</sup> A transition to climate neutrality that is implemented fairly and leaves no one out.



The stakeholder mapping conducted at the outset of the process is not intended to be static; rather, it serves as a dynamic and continuously updated collaborative tool for the Transition Team. This mapping forms the basis for communication actions and the structuring of the Climate Partnership. Additionally, it provides a reference for Table A-3.2 (Mapping of system and stakeholders) in Section 5 of the Action Plan.

Following stakeholder mapping, an analysis of the relative importance of the actors was initiated (Fig. All-2). This analysis aids in clarifying the interests and influence of key stakeholders, including individuals, companies, organizations, and public bodies, in the context of actions required to effectively address climate change.

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Fig All-2: Map of stakeholders' relevance

## 2. Process stages

As indicated in Section 5 of the Action Plan, the process of accompanying the Città di Torino in the CCC schematized in the road map (Fig.All-3) is divided, according to a systemic approach, in **two macro stages** (Fig. All-4, Fig. All-6), which precede (Step 1) and follow (Step 2) the presentation of the CCC, for the construction of a set of incremental, multi-level, multi-actor **participatory spaces** featuring moments of information, discussion and collective exchange.

Activities based on informing and raising awareness, thematic training and widespread communication are grafted onto this **architecture**.

In its effort to engage the local ecosystem, the Città di Torino took advantage of the existence of "framework initiatives", which act as municipal platforms for dialogue and collaboration in the economic and social sectors.

The **framework initiatives** are:

- **Torino City Lab (TCL)**, the open-air urban innovation lab of the Città di Torino, which from 2018 until today has attracted more than 90 partners (representing the corporate world, public utilities, backers of research, innovation and entrepreneurship, international networks and scaling partners and venture capitalists) and a community of over 100 experimental companies (mostly SME and startups). The initiative is designed to create simplified conditions for companies and other stakeholders to co-create and test their own solutions or business projects in the area. To this end, TCL offers a series of areas and workshops, simplified access to contacts and data from the Città di Torino and utilities, and constant animation and networking with a network of international partners. All with the aim of accelerating technological innovation with a social impact on the one hand, and on the other, of co-creating innovative solutions for the benefit of the territory and the city's inhabitants. Over the years, the themes prioritized and the technologies utilized have changed along with the evolution of local, national and European policies, ranging from cutting-edge technologies

applied to urban mobility (on the ground and in the air) to the recent finalization of an ecological and digital transition towards a "zero-emissions city". Recently, Torino City Lab has been strengthened by the addition of "ToMove Living Lab", which will promote large-scale experiments on future mobility scenarios inspired by "Mobility as a service" and able to integrate cooperative, autonomous and connected driving solutions for the mobility of people and goods. TCL also promotes and transfers the open innovation model characteristic of "Living Lab" thanks to its participation in European networks such as "European Network of Living Labs - Enoll" (of which it has been a certified and active member since 2018) and its participation in European projects, with which it sets up dedicated labs, like the Circular Food Lab (associated with the EU "Fusilli" project), NBS living lab (associated with the EU ProGiReg project) and the Tech&Cultura lab (part of the former EU 5G Tours project, now Trialsnet). Website: [www.torinocitylab.it](http://www.torinocitylab.it)

- **CTE Next, the Torino Home of Emerging Technologies** is an open technology transfer center specializing in new technologies enabled by 5G (Artificial Intelligence, Internet of Things, Blockchain), applied to strategic areas for Torino: Smart Mobility, Advanced Urban Air Mobility, Industry 4.0 and Smart City services. Funded by the Ministry for Enterprise and Made in Italy, the CTE NEXT partners include 12 public and private entities, coordinated by the Città di Torino, with the common objective of promoting the acceleration of startups and technology transfer to SME as well as the development and adoption of innovative solutions in the aforementioned sectors. Operative since March 2021, today CTE NEXT boasts a community of about 600 companies, mostly startups and SME, not just from Torino and Piedmont, but from other parts of Italy and abroad as well. These companies benefit from a catalogue of over 30 services supporting business acceleration, technological development and social impact analysis, as well as field experimentation activities. Additional financing is expected to be available for development and testing activities, as well as training courses and transversal, large-scale community and networking actions (with more than 4,000 users involved in ca. 84 events). Recently, CTE NEXT has also become an instrument of promotion and change towards a model of "zero-emissions



city”: starting in 2022 there have been several training opportunities generating ideas and networking on the topic, also in collaboration with Torino’s two universities. The last two calls for companies were also focused on raising the potential of emerging technologies in areas related to the transition to climate neutrality in sectors such as mobility, energy systems, the built environment, circular economy and waste management, as well as transversal actions for the involvement and education of the public. For example, 30 early-stage startups are candidates for the Call for Acceleration 5G&Emerging Tech for Climate Neutrality, with the deadline for applications set at 29 January 2024: of these, about 8 companies and 3 informal groups will be assisted in developing a business model with social and environmental benefits and possible application in the Torino area. Website: [www.ctenext.it](http://www.ctenext.it)

- **Torino Social Impact.** An alliance between companies and public and private institutions to make Torino an attractive place to do business and finance by intentionally and jointly pursuing objectives of economic profitability and social impact. A cluster of skills, activities and services to strengthen and promote the local ecosystem in the framework of the 2030 Agenda. Torino Social Impact is an open platform with more than 290 participants, including private companies, institutions, financial sector operators and third sector entities, that have underwritten a Memorandum of Understanding (MoU) aimed at pooling ideas, experiences, projects and resources to catalyze and attract forms of entrepreneurship that exploit the opportunities presented by new technologies to offer solutions to emerging social problems through economically sustainable business models. Torino Social Impact accelerates, reinforces and promotes the projects, activities and events of all the local subjects that act to find solutions to the area’s social needs. The TSI platform enables the involvement and pivotal role of partners, activating and facilitating Communities of Practice on shared issues and challenges and drawing on the expertise of network partners to collaborate on emerging projects, as in the case of the establishment of the Community of Practice on the Circular Economy, which took place in July 2023 as a result of the European Respondet project. Website: [www.torinosocialimpact.it](http://www.torinosocialimpact.it)

The capitalization and valorization of the existing “framework initiatives” led to the creation of a **participatory process** capable of engaging multiple actors from different sectors in a shared endeavor.

The **intensity of the engagement of local actors** within the various **participation spaces** developed increases based on the object of discussion (strategy, action, elimination of barriers, etc.) and the desired outcome. It takes on an informative, consultative nature, even providing for concrete meetings for the co-design of actions and/or policies in support of climate neutrality.

The **participatory process assisting the local ecosystem in adhering to the CCC** follows the path laid out in the operational **roadmap** shown below. The roadmap is not to be read sequentially, but in an integrated and systemic manner. It sums up the various interconnected stages and describes the milestones and the instruments utilized, along with the information and communication action, which develops transversally throughout the entire process.

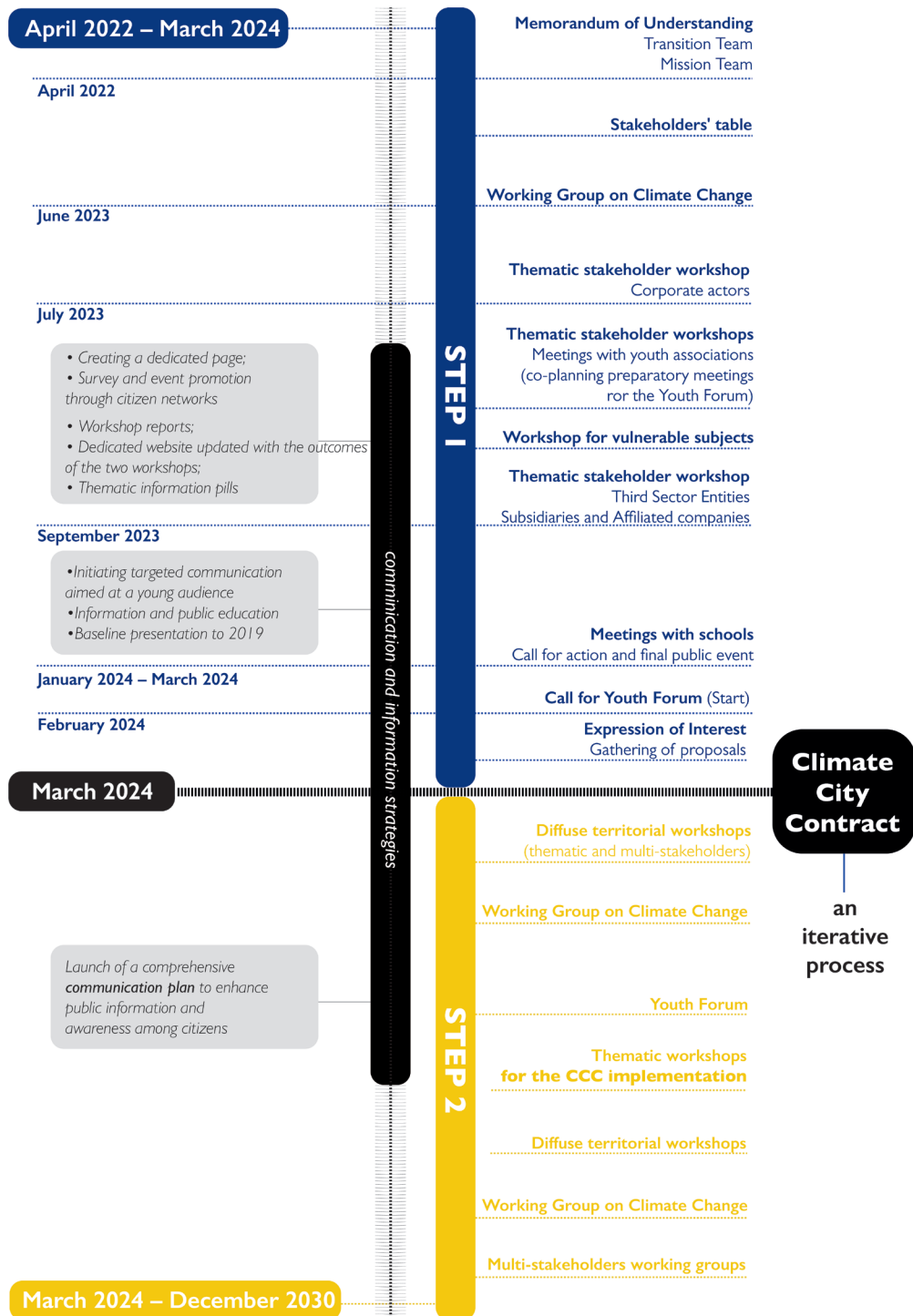


Fig All-3 –

Roadmap summing up the process of accompaniment leading up to the CCC

The most suitable methodologies and tools, which have been and will be used to engage stakeholders, are defined by the Città di Torino based on the co-design of the process, the application context and the goals and targets identified. A description of the main instruments of information, discussion and participation used by the Città di Torino for the CCC is contained in the following table.

Tab All-1 : Information and engagement spaces

Instruments of information, discussion and participation	Composition	Function/brief description
(a) Stakeholder thematic round tables (b) Workshops (thematic/multistakeholder)	Actors pertinent to the theme, object and objectives	<ul style="list-style-type: none"> <li>(a) Promoted by the Mission Team, together with the political body, engaging specific targets</li> <li>(b) Interactive, theme-based and sometimes multi-actor projects. They are intended to come up with shared solutions on the theme and progressively open to new categories /targets (ex.: new generations)</li> </ul> <p>They deliver effective contributions to: (i) co-design actions for the Plan; (ii) identify innovative solutions; (iii) expand the network of actors; (iv) empower communities.</p> <p>They are designed and organized in different modalities, depending on the point in the process, and can be useful tools for presenting lessons learned and identifying new themes for the implementation of the CCC, with a view to <b>promoting collective learning</b>.</p> <p>They serve as points of initial contact between scientific knowledge and knowledge of the territory, leading to the design of actions for the Plan.</p> <p>In their form as multistakeholder workshops, they increase operational effectiveness and focus on the integration of different urban policies in the service of the common goal of climate neutrality.</p>

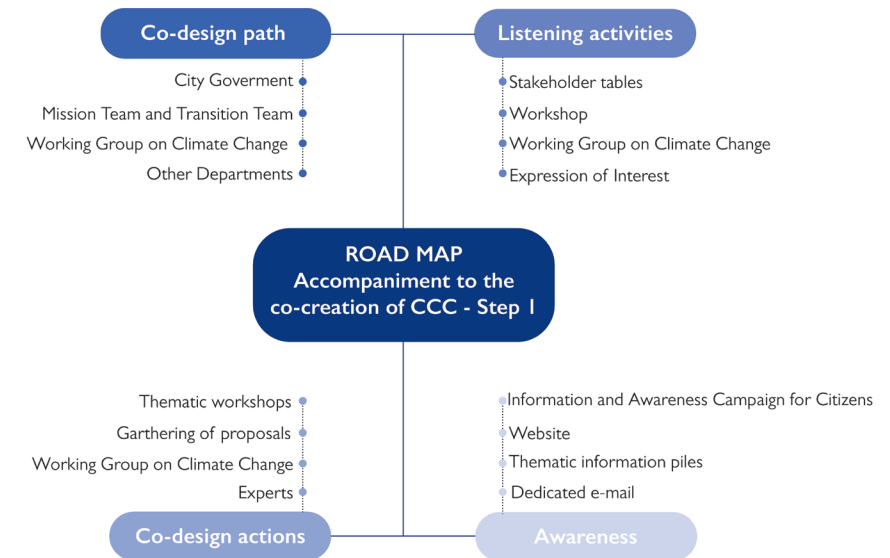
<b>Decentralized territorial labs</b>	Relevant or interested actors from the local multilevel ecosystem (territorial or thematic).	Collaborative spaces activated with a view towards integrating policies on specific issues that require broader interaction, including the community and/or specific clusters of actors. They establish links and integrate with the Living Labs activated during the urban innovation projects promoted by the city government through Torino City Lab (ex.: the FUSILLI and ToMove projects) and may find a point of reference and coordination in the newly constituted National Competence Center for social innovation <sup>2</sup> , which will be based in Torino.
<b>Call to Action</b>	Actors relevant to the work theme, object and objective.	Dedicated calls to stimulate innovative actions favoring specific target groups.
Young people for the climate forum	Representative of City schools, youth associations, active informal groups, young citizens.	An interaction and discussion space with variable engagement intensity (information, consultation, co-creation, monitoring) involving young people and focusing on relevant topics identified by the Mission Team.

### 2.1 STEP 1 – Accompanying the co-creation of the CCC

Step 1 (April 2022 - March 2024) had the objective of

- building a strong governance;
- understanding the system, starting with the data and technical-scientific expertise, along with the qualitative contribution of local actors;
- exploring possible avenues and co-creating a portfolio of actions for the shared creation of the Action Plan.

The process of engagement, in its diversified structure starting from the Mission Team (introduced in the Summary of the Action Plan) and the Working Group on Climate Change (WG CC), aims to cross-pollinate, open and integrate all urban policies by making the ambition of successfully facing the climate challenge the heart of an integrated and transversal approach within the Public Administration (PA) and capable of reverberating throughout the entire local coalition.



**Fig.AII - 4**  
**Step 1 (April 2022 - March 2024) accompanied the co-creation of the CCC**

<sup>2</sup>The National Competence Center for social innovation, funded by the European Easi Program, is based in Torino and coordinated by the Città di Torino itself, as project leader. The mission of the Competence Center is to facilitate the promotion, mainstreaming and upscaling of social innovation, according to the specific characteristics of the context of each partner involved and based on a strong strategic alliance between the public administration, universities and research centers, intermediaries and professionals who share a common vision of social innovation as a key driver for inclusive and sustainable European development.

### 2.1.1 Instruments for information, discussion and participation in Step 1

#### Thematic stakeholder round tables

a) The round tables with the area's main actors, public-private companies and the stakeholders relevant to the theme, representing the areas of intervention of the path to the CCC were organized as bilateral meetings, with the aim of providing information on the Mission and initiating an action of engagement by promoting a vision of shared participation in actions necessary to the climatic transition.

The process began with **17 meetings for single categories of actors**, which took place from March to June 2023, and saw the participation of:

- category associations
- investee companies part-owned by the Città di Torino
- the academic and research community
- public institutions above the local level
- the main banking groups
- the city's bank foundations.

The meetings held are described below:

3 The aim of the EfficienTO project, dedicated to improving the efficiency of school buildings in the Città di Torino, is to reduce emissions by 33% by saving energy, reducing toxic emissions, upgrading technology and connecting with sources of renewable energy.

Tab AII-2 : Schedule of meetings

Stakeholder category	Stakeholders	Theme	Meetings
Investee companies	IREN	Energy Communities	27/03/23
	IREN	Public lighting and traffic lights	11/04/23
	IREN	Remote heating	13/04/23
	IREN	EfficienTO project <sup>3</sup>	17/05/23
	GTT	Public transportation	13/04/23
	5T	Public and private transportation	03/05/2023
			19/05/2023
	TRM	Energy: production of energy and heat for TLR from waste-to-energy plant	10/05/23
SMAT	Energy: increased efficiency of S.I.I. managed plants	31/05/23	
Universities and the research community	UniTO – University of Torino	Circular Economy and contacts with Confindustria Piemonte and Unione Industriale di Torino	05/04/23
	UniTO – University of Torino	Sustainability and International Cooperation for Development	09/05/23
Public institutions	CMT – Torino Metropolitan Area	PUMS – Sustainable Urban Mobility Plan for the Torino Metropolitan Area	15/05/23
	Piedmont Region	Regional energy policy	25/05/23
Bank foundation	Compagnia San Paolo	Support for the process and contacts with other bodies	26/05/23
Banking sector	Unione Industriali	Role of the Small and Medium Enterprises	07/06/23
	Intesa San Paolo Unicredit	Role of the banks	22/06/20
Regional agency	ATC	Improving the energy efficiency of residential buildings	30/06/23

The meetings with representatives of supra-local public institutions were important because, in addition to informing and sharing the path that Torino has undertaken, they were intended to promote the coordination of climate policies and plans between the different levels of government, in order to facilitate more effective and longer lasting actions.

Also worth mentioning is the dialogue with banking foundations and financial institutions, which has made it possible to launch coordinated actions and prepare an enabling context that will lead to the identification of possible sources of financing for the actions of the Plan and at the same time oversee the implementation phase.

The commitment of Intesa San Paolo and its Innovation Center and, in general, of banking foundations in this area is also evidenced by the investment in attracting the International Accelerator and Techstars, which accelerates the best European startups with solutions for #Transformative Cities.



**Fig. AII - 5**  
**The cycle of workshops**

The Città di Torino has launched a series of workshops to engage stakeholders in opportunities to inform, listen and start the co-design of actions.

**-Workshop: “Torino towards Climate Neutrality by 2030. An open discussion with local businesses.”**

On Thursday, 20 July 2023, from 9 a.m. to 1 p.m., at CSI NEXT, headquarters of the Torino House of Emerging Technologies, the meeting “Torino towards Climate Neutrality by 2030. An open discussion with local businesses” was held, with a view towards engaging the Torino business community in the process of developing the “Torino Climate City Contract”. The event was attended by 80 people, representing more than 40 Torino businesses.

The workshop began with an informative introduction, which introduced the elements of the context: the 100 Climate-Neutral Cities challenge: the path undertaken by the Città di Torino towards the “Climate City Contract”, the science-based approach and data collection methods used to analyze reductions in CO<sub>2</sub> emissions, the objectives and the initial results of the call. The second part was devoted to work sub-groups, for a total of 4 round tables, intended to collect ideas and identify areas for collaboration relevant to the main pillars of the CCC: energy systems, mobility and transportation, waste management and circular economy, green infrastructures and nature-based solutions, the built environment, digital solutions and other actions designed to increase engagement and education.

• **“The Città di Torino meets the Third Sector”**

The workshop dedicated to Third Sector Entities (ETS, or non-profit) and representatives of investee companies was held on 20 September 2023.

The first part of the workshop was dedicated to illustrating the policies and guidelines and to reconstructing the initial cognitive framework within which the CCC Action Plan is embedded.

The inventory of city emissions per base year (2019) and the data by thematic area of the CCC were presented. These are used to identify the systemic barriers that the actions that will be tracked with the support of local stakeholders will have to overcome to bring about a significant change.

Afterwards, participants were presented with a thematic update

of an informative and educational nature by 4 experts on the thematic areas of the path towards the CCC.

This segment included the **involvement of experts on 4 thematic areas**: green infrastructures and NBS (Nature Based Solutions), Built Environment and Energy Systems, Mobility and Infrastructures and Waste Management and Circular Economy.

• **Workshop: “Torino’s schools for the Climate City Contract”**

An **experience dedicated to the city’s high schools, which were selected with a dedicated call - “Dimmi la tua”** (literally, Let’s hear from you) – promoted in conjunction with the Torino Metropolitan Area.

The intervention was divided into a workshop, an intermediate stage of work by the classes within their schools and a final meeting:

- \* The workshop involved the organization of several segments dedicated to providing information and training and the themes of the CCC and constructive interactive activities designed to engage young people and encourage their active participation;
- \* For the **intermediate stage**, the schools, taking the outcomes of the workshop as their point of departure, drew up proposals to present to the city as their contribution to the collective effort towards climate neutrality;
- \* The **final meeting** was aimed at creating a space for exchange between the Public Administration and young people, through the public presentation of all the proposals elaborated by the various classes, with the Mayor of the Città di Torino and the Torino Metropolitan Area, Stefano Lo Russo, in attendance, along with the Deputy Mayor of the Torino Metropolitan Area, Jacopo Suppo, and the Councilwoman in charge of the ecological and digital transition, mobility, transportation and innovation for the Città di Torino, Chiara Foglietta, clearly indicating a reciprocal commitment to a collective action for the realization of policies aimed at climate neutrality.

The intervention saw the participation of 16 third, fourth and fifth-year classes from 6 high schools in Torino, for a total of 200 students and 16 faculty members.

The **first workshop**, held on 8 February from 9 a.m. to 1 p.m.,

was designed to increase the participants' awareness concerning the challenges and commitments that the Città di Torino must make in order to reach climate neutrality by 2030, as well as contributing to building a dialogue between young people and the city government regarding the strategies and actions outlined in the CCC and their active participation.

The workshop was divided into 12 thematic round tables operating simultaneously: 4 tables on Green Infrastructures and NBS, 3 on Mobility and Transportation, 2 on Waste Management and Circular Economy and 2 on the Built Environment and Energy Systems (Renewable Energy Communities, CER). A 13th round table, not thematic but transversal, was composed of the 16 faculty members from the various schools.

The round table discussions were guided by questions and moderated by a support figure to ensure constructive interaction.

The **final meeting** took place on 4 March 2024 at the central offices of the Torino Metropolitan Area. The aim of the meeting was to report the results of the discussions and reflections of the classes involved to the political representatives of Torino for a collective commitment in the construction of the CCC.

During the meeting, the voices and considerations of the young participants in the project on the thematic areas proposed in the workshop were heard.

- **Call to action - An activity designed to engage vulnerable targets**

An initial activity aimed at involving vulnerable targets has been planned as part of the European project SEFIT Social Ecosystem for Fair and Inclusive Transition, whose objective is to fund projects with the ambition of promoting green and/or digital transitions, involving disadvantaged people and providing social innovation solutions to address and mitigate the current and future impacts of **climate change** in Torino.

The social innovations presented must be congruent with the objectives of the EU Mission for 100 climate-neutral and smart cities by 2030.

The workshop, organized on December 15, 2023, engaged local actors and stakeholders in the activity of identifying the specific challenges of the call for action:

- \* Financial and Consumption Education: projects empowering

people through energy conservation skills and promoting behavior change as a countermeasure to the growing poverty caused by the high cost of energy;

- \* Green Jobs: projects focusing on the training and employment of disadvantaged individuals in the green economy;
- \* Sustainable mobility: projects focusing on improving the sustainability of transport and mobility in the Città di Torino
- \* Youth Participation: Promoting youth involvement in the framework of climate change to encourage their dialogue with the Municipality of Torino and local stakeholders on climate change issues. This initiative aims to activate a **Torino Climate Change Youth Forum**, including vulnerable targets such as NEETs (Not in Education, Employment or Training), second-generation individuals and others.

The call for action, which was issued in February 2024, is aimed at local organizations and includes grants for a total value of 200,000 euro.

- **Decentralized territorial lab. An activity favoring discussion and awareness raising with city residents with regard to the revision of the GRP.**

The General Regulatory Plan (GRP/Land Use Plan) is the main planning instrument for the municipal territory: an indispensable technical document, but also a strategic document of primary importance. The GRP determines the orientation of future transformations and configurations of the urban space, sets rules, establishes limits and indicates the future of already built-up areas and those to be developed or regenerated.

The GRP is entrusted with the responsibility of a synoptic look, necessary to evaluate the connections between physical spaces, social environments and economic dynamics, and to express a political vision of the city and its future.

The drafting of a new Plan is framed in an administrative and bureaucratic perspective, responding to regional regulations with timeframes, constraints and procedures defined by law. The drafting process is currently in its second phase, in fact the most important, which will lead to the drafting of the Preliminary Project. It must be tackled in a shared manner with the various parties that act, operate and live in Torino, in order to capture the territory's needs, orient the lines of government for the benefit

of the entire community and define shared objectives, strategies and actions for the city of tomorrow.

For this reason, the Città di Torino with Urban Lab, has planned a path to discuss the guidelines being defined with institutions, organizations and citizens. A series of moments of collective work and learning where local actors can express their point of view and suggest development trajectories, share aspirations and experiences and align visions and values.

In 2023 the dialogue between the local authorities and stakeholders occurred at three main appointments: 7 and 8 June; 20,21 and 22 October; 14,15 and 16 November 2023. The events included collaborative work organized by thematic tables, which alternated with keynote lectures, public meetings, presentations by various associations in the area and round table discussions on city change.

The initiatives realized throughout 2023 actively engaged more than 1000 people (representing more than 350 organizations and institutions) in in-person participatory activities. An online survey, open to all those who live, work and study in Torino, collected more than 4600 feedbacks on the city's assets and future trajectories, while more than 1500 people followed the keynote lectures, public conferences and meetings that accompanied the process.

Regarding climate change and Torino's need for mitigation and adaptation tools, a number of key issues and topics were highlighted in the different phases of the discussion. In particular, the main principles and operational approaches were defined, along with discussions on the relationship between environment and transformation, which resulted in the early definition of the "City as an Ecosystem". Here the conversation focused on:

- \* regenerating abandoned areas
- \* making transformations sustainable by identifying new value creation mechanisms
- \* activating virtuous processes through temporary uses and monitored experiments
- \* integrating urban systems and the functionally and spatially constructed city
- \* differentiating and renewing the uses of urban greenery (e.g., agricultural parks, urban parks)

- \* coordinating specific transformations and systemic strategies, including supralocal ones
- \* "de-consuming" soil and making land use more mindful
- \* improving urban resilience with adaptation and mitigation strategies
- \* integrating ecosystem services into planning processes (not just as compensation)
- \* monitoring and encouraging improved efficiency and recovery of the building stock

Through the spring and summer of 2024, the conversation and interaction with communities and citizens will continue with a focus on quality of life in neighborhoods. The debate that took place in the previous phase will frame the forthcoming activities along the 9 most recurring themes, guiding a conversation focused on quality of physical spaces (public spaces, parks, green areas) and quality and accessibility of public and collective services at the local level:

- \* blending multiple identities
- \* repopulating Torino
- \* connected city
- \* sustainability and resiliency
- \* publicness
- \* transformations
- \* safe and dynamic city
- \* inclusiveness
- \* participation and cooperation

The themes summarize what has been learned about the problems and resources of the territory, and thus compose a framework which - consistently with the suggestions proposed during the public meetings and local workshops - envisions the development prospects of the city over the coming years and the challenges to be faced in order to become a climate neutral city.



## 2.2 STEP 2 – Accompanying the realization, implementation and monitoring of the CCC

Step 2 (March 2024 - December 2030) has the objective of accompanying and participating in the realization, implementation and monitoring of the CCC.

The activities in Step 2 are intended to stimulate collective reflection and learning to achieve lasting change. Some of the actions will be dedicated to monitoring and consolidating the Action Plan in progress. The transversal action of communication remains.

In continuity with Step 1, the implementation of transversal and cross-cutting actions will be encouraged. These will be designed to raise awareness, inform in an accurate, accessible and transparent way and strengthen the bonds of trust between residents and the PA by creating enabling conditions, as well as to support the overcoming of the barriers on involvement and co-responsibility linked to social inequalities (vulnerable targets) and intergenerational inequalities (young people and foreigners).

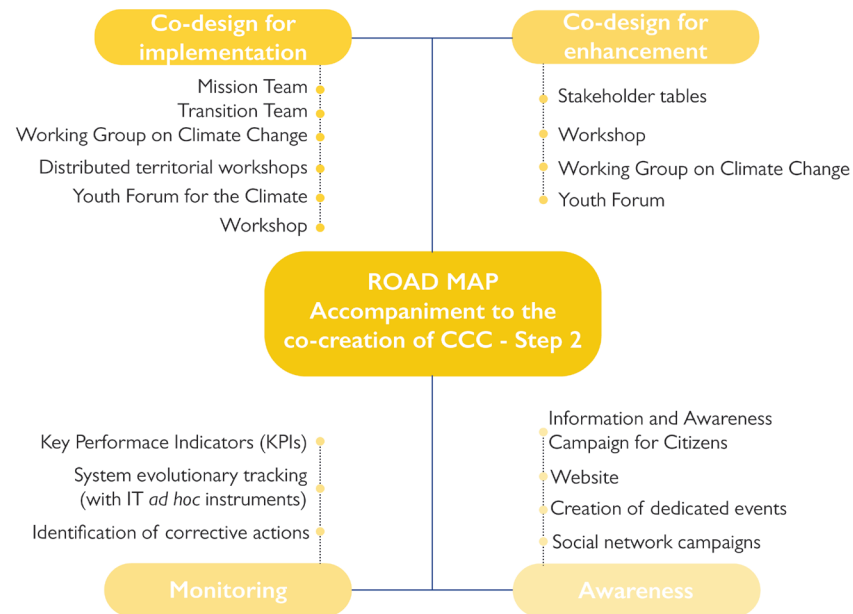


Fig. All - 6 – Scheme of Step 2

### 2.2.1 Co-design activities in the realization stage

- **Multi Stakeholder thematic round tables**

These are multi-actor workshops, coordinated by the Città di Torino, dedicated to co-constructing the main activities to implement the Plan.

They are aimed at generating shared responsibility for action by guiding and coordinating all the different contributions from the local ecosystem.

- **Decentralized territorial labs**

The creation of decentralized territorial labs (the Competence Center for Social Innovation could be designated to coordinate the activity) will offer an opportunity for exchange and co-design - within which to activate subjects already involved/to be involved with a variable level of intensity of participation (information, consultation, co-design, etc.) depending on the needs identified during the construction/implementation and monitoring phase of the CCC. The labs could identify opportunities and integrate actions deriving from other policies (such as the process of drawing up the GRP and the EU projects that overlap the fields of intervention of the CCC).

The decentralized territorial labs will make use of ties and capitalize on opportunities associated with the Living Labs, promoted in the framework of urban innovation projects such as, for example, FUSILLI<sup>4</sup>, TIP4PED, CTE NEXT and Torino City Lab with TO MOVE<sup>5</sup>.

With this as the point of departure, new actions will be tested by implementing an integrated approach based on the portfolio of actions that derive from multiple projects in the common direction of the fight against climate change, with the aim of involving more stakeholders and stimulating collective learning. In this way, we try to break down the silos of the public administration, by working in a transversal and inter-departmental way on different projects and experimenting with new organizational methods that generate results that can be implemented and scaled more effectively.

- **Other initiatives aimed at young people for the ecological transition**

The open innovation initiatives launched by the Città di Torino - Torino City Lab (with ToMove) and CTE NEXT NET – call for

4 FUSILLI Project - Foster the transformation of the urban food system through the implementation of innovative Living Labs. The Municipality of Torino is responsible, together with its third parties (UNITO, UNISG, ORTI GENERALI) and in collaboration with the Mirafiori Community Foundation, for the creation of the "Food Innovation Living Lab". <https://www.torinocitylab.it/>

5 TO MOVE Project is a Living Lab distributed in various locations throughout the Città di Torino, focused on the development of new smart and sustainable urban mobility scenarios that use innovative cooperative, connected and autonomous mobility solutions, integrating them into the "Mobility as a Service" paradigm.

several listening, animation and co-development activities aimed at the younger generations. For example:

- \* Torino City Lab includes a laboratory dedicated to technological innovation for education called Edu.Lab: embedded in a middle school, it hosts testing activities with companies and researchers on new educational models and content. One of the focuses is precisely on the ecological transition, applied to school buildings as well as the promotion of sustainable lifestyles based on circularity, with dedicated workshops.
- \* Similarly, starting in 2023, CTE NEXT launched a training catalogue with over 22 free courses aimed at boys and girls from Torino schools from primary school onwards - part of the "Growing Up in the City" educational services initiative - focused on the theme of ecological and digital transition, entrepreneurial capacity and how to become "agents of change".
- **The search for ambassadors and testimonials ready to act collectively for the Climate.**

The City will issue a call for "Climate Ambassadors", starting from the involvement of the companies and groups that have signed the statements of support. The aim is to expand their active roles during Step 2, by creating incentive packages and assigning "labels" to public and private entities that propose new actions, ideate and build links, connections and integrations to act within the main fields of action of the CCC for climate neutrality.

### 2.3 A transversal action (information, awareness raising and communication)

This transversal action follows the entire process (Step 1+ Step 2) of participation in the CCC.

Information and communication play a strategic role in the activation of the local ecosystem and in increasing the efficacy of the process of supporting the realization, monitoring and implementation of the Action Plan of the CCC.

The external information activities will have the task of acting on the change of the ecosystem, making it more responsible and predisposed to assume responsibility for the impacts of its actions on the climate. They will concentrate on three key aspects:

#### I. raising awareness and increasing understanding of the

**climate phenomenon**, the collective challenge and the systemic levers to act on, with sustainable methods and times;

2. **knowledge and transparency of the process** of the city's progress in achieving climate neutrality;
3. **thematic information on climate neutrality**, to foster greater and more widespread awareness, allow a transfer of knowledge to increase the competences of the local ecosystem, systematize and pool knowledge for a more informed and responsible participation.

As indicated in Section 5 of the Action Plan, the information activity will be structured to propose specific moments of in-depth study on the thematic areas proposed in the course, or will link events that already possess an organizational structure and enjoy a high level of participation (for example: Cinemambiente; Biennale Democrazia; the annual events hosted by bank foundations, etc.). At the neighborhood level, meetings with local residents will be set up thanks to the direct and widespread awareness raising ability of the Network<sup>6</sup> of the 8 Neighborhood Houses of Torino<sup>7</sup> and, depending on the various targets to be reached, of other active local civic groups (for example: the Youth Centers).

To expand its reach to various targets, the Città di Torino can rely on a diversified range of communication tools.

#### Online communication:

- Activation of social channels through the creation of graphics and content related to the various stages launched and planned;
- Website to:
  - \* Share the key moments of the process of achieving the CCC with stakeholders
  - \* Information on the stages of engagement, single moments of participation and sharing the outcomes and the relative documentation in order to make the process transparent
  - \* Reinforce key messages with new formats and engaging storytelling
  - \* Sharing of inspirational and informative videos and interviews realized during the entire process
  - \* Creation of graphics and images to summarize and

<sup>6</sup> The Network is a local organization comprising the 8 Neighborhood Houses of Torino, whose mission is to disseminate good practices in the areas of social innovation and urban regeneration, prioritizing local needs and making the city's residents protagonists of the community's social and cultural life.

<sup>7</sup> The Neighborhood Houses are regenerated public spaces, open to residents of all ages. They are designed to respond to a variety of needs and propose a wide range of different initiatives; cultural events, personal services, consulting, catering services and much more.

8 SME4GREEN is a project funded by the COSME-LGD (Local Green Deals) program that provides support to at least 120 SME to drive the twin green and digital transitions through the implementation of actions aimed at steering the local economy of Torino (Italy) and Ilfov (Romania) on a sustainable and inclusive path.

9 CLIMABOROUGH - Local engagement of citizens in the co-creation of societal transformational change for climate resilience is a project of the Città di Torino with 20 partners, funded by the European Union's Horizon Europe program. The aim of the project is to bridge the gap between the design and implementation of urban innovations, especially in the face of the climate emergency and the consequent mitigation and adaptation needs that cities must meet to protect their citizens.

10 In April 2019, Torino was chosen as the venue for the Nitto ATP Finals from 2021 to 2025.

update on the activities undertaken

- \* Possibility of receiving feedback on the process and/or request information through a dedicated email address
- Podcast: featuring the experts, who explain the state of the art of the process that the Città di Torino has undertaken, with theme-based, in-depth close-ups, aimed at young people and using a more up to date and accessible lexicon. A monthly appointment broadcast on the Città di Torino's YouTube channel.

**Offline communication:**

- Creation of posters and flyers for posting in the area, in strategic points of greatest visibility for the process, to make the challenge visible and recognizable
- Creation of postcards, flyers and brochures for widespread distribution in schools, the Neighborhood Houses and other civic networks, such as the info points of the Città di Torino;

**2.3.1 What has been achieved in Step I**

Step I has seen the creation of an **information space on the CCC on the website of the Città di Torino.**

In addition, the following were produced:

- \* invitation cards and brochures specific to each thematic workshop, which were posted and promoted on all the social and web channels of the various active networks, such as TSI, TCL and CTE NEXT;
- \* two videostories and interviews during the workshops;
- \* 8 presentations in thematic info short format by the experts involved in the 4 action areas of the CCC. Step I saw the realization of:
- \* 4 thematic shorts serving as support for informed participation in the workshop held in September 2023 and dedicated to Third Sector Entities, which were then posted on the Città di Torino's website and sent to all participants;
- \* 4 thematic shorts as information and learning activities during the workshop held in February 2024, dedicated to secondary schools, which were then posted and sent to all the participating classes. Schools are also an exceptional

vehicle for disseminating information from the students to their families;

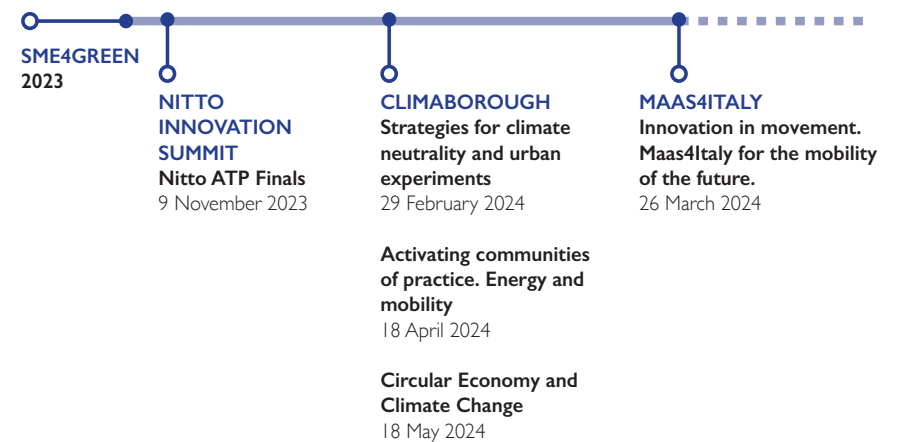
- \* press releases and articles in local dailies.

Several presentations **have been organized** in the area on the occasion of thematic events or other initiatives related to the City's EU projects, such as SME4GREEN<sup>8</sup> or Climaborough<sup>9</sup> as part of which a program of three online meetings entitled "Climawebinars" has been organized and is currently underway.

Torino's path to Climate Neutrality was presented in the context of the Nitto ATP Finals and in particular at the Nitto<sup>10</sup> innovation Summit on 9/11/2023.

On 26 March, as part of the event "Innovation on the move. Maas4Italy for the mobility of the future", one of the key themes of the CCC will be addressed: mobility seen from the perspective of innovation and sustainability.

**CCC Presentation Moments  
Presentations of the Climate City Contract  
within other city projects and initiatives**



**Fig. AII - 7  
The moments of presentation of the Città di Torino's commitment to the CCC**

# 3. Building the Climate Partnership

The Città di Torino has identified three levels of involvement in the construction of the partnership:

- Signatories
- Main partners
- Supporters

### Signatories

The first level of involvement is represented by the public actors involved in the construction phase of the CCC and who sign the CCC commitments. The signatories include public entities such as the Regione Piemonte and the Città Metropolitana di Torino, the Università di Torino, the Politecnico di Torino and the Chamber of Commerce.

### Main partners

This is a group of stakeholders (listed in Table 3) that includes all the Utilities of the Città di Torino, the city's banking foundations, Italian financial institutions and other relevant public entities.

All these actors can make a significant contribution, on the one hand, to overcoming the barriers identified and creating favorable conditions for collective change, and on the other, to accelerating the transition towards climate neutrality.

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Tab. All - 3 – Description of Main Partners

Main Partners – Signatory entities:

Stakeholder category	Stakeholders	Description
Investee companies	IREN Group	An Italian joint-stock company, operating as a multi-service provider; in particular in the production and distribution of electricity, district heating services, the management of integrated water services, environmental and technological services.
	SMAT	Leader in the field of integrated water services, where it operates through the design, construction and management of diversified sources of water supply, technologically advanced drinking water treatment plants, urban wastewater purification and reuse plants, collection, purification and reuse networks and cogeneration and energy recovery plants.
	ITALGAS	Italgas is an Italian company specialized in gas distribution. Founded in 1837 as the Gas Lighting Company for the Città di Torino. Alongside its core business as a gas distributor, Italgas is also active in the energy efficiency sector and aims at strengthening its presence in the water sector.
	Infra.To	Owned by the Città di Torino, its mandate includes the ownership and management of infrastructures, as well as engineering, design, construction and development of plants, systems and infrastructures, including railways, for public and private transport of people and goods.
	ST	An in-house company with total public participation, it operates on behalf of its shareholders: the Città di Torino, the Piedmont Region and the Torino Metropolitan Area. It designs, manufactures and manages mobility systems and services in Torino and Piedmont.
	GTT	Gruppo Torinese Trasporti - The company provides urban, suburban and suburban public transport services, and manages the new automated system of the Torino underground.

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Public agencies	CSI Piemonte	CSI-Piemonte is a consortium of public bodies operating in the area of information and communication technologies.
	ARPA Piemonte	ARPA - Regional Agency for Environmental Protection of Piedmont - is a public body under the supervision of the President of the Regional Council, to ensure the implementation of the guidelines set by the Piedmont Region in the field of environmental forecasting, prevention and protection.
	ATC Torino	ATC –Territorial Housing Agency - a non-economic, auxiliary public service arm of the Piedmont Region and manages public, low-income housing.
	Cassa Depositi e Prestiti S.p.A.	CDP is the Italian National Promotional Institution. It fosters sustainable development in Italy, using savings responsibly to support growth and boost employment, supporting innovation, business competitiveness, infrastructure and local development.CDP finances the infrastructure and investments of public administrations, supports policies to improve the real estate assets of local authorities for urban regeneration, invests in social infrastructure, sustainable mobility and new forms of housing.
Bank foundations	Fondazione Compagnia di San Paolo	Bank foundation with philanthropic purposes, promoting cultural, civil and economic development, thanks to the fruits of its endowment.
	Fondazione CRT	Fondazione CRT is a private non-profit organisation founded in 1991 that works for the development of Piemonte and Valle d'Aosta since 30 years. Its projects and resources are engaged in building artistic and cultural heritage, scientific research, youth education, social entrepreneurship and care, and protecting the environment and people.
Private companies	SAGAT	Company that handles the management and development of the Torino Airport.
	REALE GROUP	International group operating in Italy, Spain and Chile through the Parent Company – Società Reale Mutua di Assicurazioni, the largest Italian insurance company in the form of a mutual insurance company and its subsidiaries.
	UNICREDIT	UniCredit is a pan-European Commercial Bank with a unique service offering in Italy, Germany, Central and Eastern Europe. It serves over 15 million customers worldwide. UniCredit is organized in four core regions and two product factories, Corporate and Individual Solutions.
	Intesa Sanpaolo	Intesa Sanpaolo is one of the top banking groups in Europe (53.7 billion euro of market capitalisation), with a significant ESG commitment, a world-class position in Social Impact and strong focus on climate.The Group offers its services, in Italy, to 13.6 million customers through a network of over 3,300 branches well distributed throughout the country with market shares no lower than 12% in most Italian regions.

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**Secondary partners/supporters**

This group of stakeholders belongs mainly to the economic, cultural, social, environmental world (shown in Table 4), and acts to promote a change that is widespread and lasting.

**Tab All - 4 : Description of Supporters**

**Secondary partners/Supporters – Signatory groups:**

Stakeholder category	Stakeholders	Description
Trade and professional associations	Unione Industriali Torino	Voluntary association of local companies belonging to Confindustria, for the representation, protection, promotion and development of private companies and their interests.
	CONFCOOPERATIVE PIEMONTE NORD	Association representing the co-operative movement
	Legacoop Piemonte	National Association of Cooperative Enterprises that promotes the development of cooperation, mutuality and the dissemination of cooperative values
Universities, schools, the research and training community	Fondazione Collegio Universitario di Torino Renato Einaudi	Collegio Einaudi is a private foundation that manages five residences and offers living spaces and training courses to over 850 deserving university students.
	Environment Park SpA	The Torino Technological Park has been active in the field of environmental innovation for more than 20 years
	Fondazione Piemonte Innova	A public-private partnership operating for the promotion and development of innovation
	Fondazione LINKS	The Foundation was born from the desire of the Compagnia di San Paolo Foundation and the Polytechnic of Torino to equip themselves with an institution capable of operating in applied research, innovation and technology transfer.
City Council committees	Consulta della Mobilità Ciclistica e Moderazione del Traffico	The Consulta committees are an arm of the City Council, with consultative and propositional powers.
	Consulta per l'Ambiente e il Verde	
Third sector entities	Pro Natura Torino APS	Environmental association
	LEGAMBIENTE PIEMONTE E VALLE D'AOSTA APS	Environmental association
	Associazione AI Cicapui ASD e APS	Sports and cultural association (top quality artisanship)

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Third sector entities	Donne per la difesa della società civile APS	Cultural association
	ATT srl Impresa Sociale	A social enterprise that deals with the integration or reintegration of disadvantaged and disabled workers into the labor market.
	Biova srl - società benefit	Biova operates in the field of waste management and circular economy.
	CA' MARIUCCIA SSA	Company active in the areas of organic farming and social welfare
	Il Tuo Parco APS	Environmental association
	Cooperativa Sociale P.G. Frassati scs onlus	The Frassati cooperative designs and manages social and welfare services aimed mainly at people with fragilities
	Giustizia Climatica Ora! APS	Environmental association
	APS Fiab Torino Bici & Dintorni	Cycling association
	Green Growth Generation	Green Growth Generation aims to educate a sustainable generation and promote sustainable lifestyles and consumption and respect for the environment.
	Rifiuti Zero Piemonte	Environmental association
	Associazione Hiroshima Mon Amour ETS	Cultural association
	Associazione culturale Club Silencio	Cultural association
	KAIROS CONSORZIO DI	
	COOPERATIVE SOCIALI	Consortium of social co-ops
	LaQUP APS	Cultural association
	Ama Factory ETS	Innovative cultural company
	PartecipaTO	Cultural association
	Urban Lab Torino	An independent association created to tell the story of the transformation processes of Torino and the metropolitan area. It serves as a center for documentation, dissemination and debate on the city.
	Arcobaleno Cooperativa Sociale	Social cooperative
	Triciclo - Società Cooperativa Sociale	Social cooperative that deals with the recovery and reuse of materials and the sorting and treatment of waste
Associazione Manzoni People OdV	Volunteer group	
Private companies, SME. Startups	Marazzato Azzurra Srl	Company of the Marazzato Group that handles the final treatment of industrial waste

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Private companies, SME. Startups	Mercato Itinerante Srl	Innovative startup that has developed a verticalized marketplace on sustainability issues.
	Mercato Circolare Srl	A Benefit Corporation that creates digital and cultural connections between citizens, companies, associations and institutions within the circular economy ecosystem
	Orti Generali Srl	Orti Generali was created with the aim of building a social enterprise model for the transformation and management of residual urban agricultural areas
	Siborg Srl	Business consulting firm specializing in the field of energy and energy efficiency.
	Sunspeker Srl	Startup active in the development of aesthetically integrated photovoltaic solutions
	Capetti Elettronica Srl	A company with experience in technological innovation, it designs, industrializes and manufactures systems and devices with high added value.
	CLEAN AIR Srl – Società Benefit	This company provides services and solutions with high technological value and innovation in the field of ambient air purification and environmental protection
	COESA Srl	Photovoltaic consulting company
	Planet Idea Srl	A competence center with more than 200 professionals to scout the main solutions in the digital field and social innovation, to be integrated into real estate projects.
	PCM Srl	Technology Consulting firm
	Fratelli Basile Srl	Organization engaged in projects aimed at reducing energy impact, supporting mobility through the use of electric cars and reducing environmental impact
	Geosolving Srl	Geological and engineering consulting firm
	Globalchimica Srl	This company develops and manufactures chemical products that are marketed and distributed worldwide.
	ReLearn Srl	Consulting firm that monitors waste production using artificial intelligence and gamification
	Data Reply	A company that offers top quality services for extracting value from data through Advanced Analytics and AI solutions.
	BLUE Engineering Srl	A company that provides specific services in sectors of excellence, such as automotive, railways, aerospace
	Cube Italia ltd	Innovative startup operating in the AgriTech sector
	Enerbrain Srl	Startups whose mission is to monitor air quality in buildings and intervening with targeted strategies to reduce emissions
	EOT Srl	Energy of Things is the digital platform specialized in the management and optimization of energy consumption, developed to return to the customer the real costs and revenues from the various users.

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Private companies, SME. Startups	I.C.R.E. Automazione s.s.	A company that develops automation solutions by applying the most modern technologies available in the electrical, mechanical, hydraulic and pneumatic sectors.
	Modelway Srl	A company that deals with technology transfer from academic research to industry.
	Ghiggia Srl	A company that focuses its activity on hydroelectric plants, restructuring its own and third-party plants, including design and automated systems with various partner companies
	IGPDecaux S.p.A	A company specializing in Out Of Home communication
	CarpeCarbon Srl	Startup that aims to develop technologies for the safe and permanent capture of CO <sub>2</sub> from the atmosphere and its storage underground.
	Gruppo Lavazza	A coffee company whose mission is to create sustainable value for shareholders, employees, consumers and the communities in which it operates, combining competitiveness with social and environmental responsibility
	IVECO Group	Multinational automotive company active in commercial and special vehicles, powertrain systems and related financial services
	Stellantis	Multinational holding company based in the Netherlands, manufacturer of motor vehicles. Formed from the merger of the Fiat Chrysler Automobiles and PSA groups

### 3.1 The statement of interest

With a view to formalizing participation in the initiative, the Città di Torino has promoted a **statement of interest**, aimed at all the local subjects (private companies, non-profits, consulting committees, etc.). The call for action for the collection of statements of interest was also designed to formally bring together the voluntary actions that the subjects involved intend to undertake to complement the action of the Città di Torino, as their contribution to the achievement of the common objectives.

Following an information campaign that promoted the statement of interest and reached about 800 subjects, 60 letters of support were received (and are enclosed with the Commitments). A brief summary of the actions proposed by these subjects is shown in the tables below.

By adhering to the CCC, the partners will benefit from the following:

- **Visibility** - Increase their visibility by participating in networking activities on a national and international scale.
- **Labeling** - Launch of a labeling process that will testify to the organization's participation in the City's project, which can be used in its marketing and communication actions.
- **Possible co-financing** – Possibility of joint access to projects co-financed with European, national and regional funds, aimed at the implementation of the Mission.

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### 3.2 Actions of main partners and supporters

#### Main Partners – Organizations and thematic actions

The actions of the organizations providing support as Main Partners are described in the single letters enclosed with the Commitments, to which the reader should refer for a more complete picture.

Table AII-5 : Summary of thematic actions

## Secondary partners/Supporters – Organizations and summary of thematic actions

Company/ Entity name	Proposed actions			
	Building & Energy	Mobility	Waste & circular economy	Green & NBS
Associazione AI Cicapui ASD e APS	-	A new green shuttle for children's mobility	Social garden with reused equipment	Sustainable garden management
Donne per la difesa della società civile APS		Pedestrianization of a large avenue in the quartier		Monitoring of the condition of green areas in the quartier
ATT srl Impresa Sociale		Adoption of cargo bike fleet for food delivery	Adoption of regenerated kitchen equipment instead of new ones	
Biova Srl - società benefit			Collection and use of unsold bread in city to make soft drinks and pastries	
CA' MARIUCCIA SSA	Installation of PV panels on farm buildings		Reuse of food wastes for feed	
Capetti Elettronica Srl	Innovative solutions for energy saving in buildings			
CLEAN AIR Srl. – Società Benefit	Innovative solutions for air pollution abatement in cities			
COESA Srl	Information to citizens on Energy efficiency funding and solutions		A marketplace for recovery of end-of-life PV panel materials	
Fondazione Collegio Universitario di Torino Renato Einaudi	Energy revamping of own buildings			

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Data Reply	<ul style="list-style-type: none"> <li>Development of algorithms that analyze satellite data to identify the optimal locations for renewable energy plants like solar parks and wind farms</li> <li>to evaluate the risk of catastrophes and make resiliency plans.</li> </ul>			Use of artificial intelligence and satellite data to support urban planning for sustainable development.
Consulta della Mobilità Ciclistica e Moderazione del Traffico		Proposals for new city bike path		
Consulta per l'Ambiente e il Verde	Actions designed to encourage local residents to assume a proactive, synergistic and collaborative role in increasing awareness.	Support for "soft" mobility systems and awareness on the need for a cultural change aimed at the reduction of energy consumption and CO <sub>2</sub> emissions	Energy Budget, the integrated waste collection system, the study and proposals for the at least partial abatement of the causes of an increase in phenomena related to climate change	Interventions to stimulate the City Council to study issues such as the protection and development of green areas in greater depth.
Cooperativa Sociale P.G. Frassati scs onlus	Energy revamping of own buildings	Adoption of EV for mobility and food delivery	Collection and recycling of food wastes	Support to "Treedom" counter-deforestation project
Ghiggia Srl	Commissioning of PV plants			
Environment Park Srl	Zero CO <sub>2</sub> emissions of own building by 2030	Sustainable mobility support program for employees		
Globalchimica Srl			Open innovation program for sustainable chemical solutions	Use of nature-based solutions in own industrial processes

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Green Growth Generation			Organization of community "Clean-up" days	"Urban living labs" for adoption of nature-based solutions
Associazione Hiroshima Mon Amour ETS	Installation of photovoltaic panels to reduce energy consumption by 39%		Interventions to reduce the production of plastic waste by 90%. Destruction of meal tickets and actions to reduce CO2 related to transport for café supplies.	
Marazzato Azzurra Srl	Energy revamping of own buildings	Revamping of own fleet vehicles	Adoption of innovative solution for waste treatment	Tree planting for emissions compensation in urban areas
Mercato Itinerante Srl		Adoption of a cargo bike fleet for delivery	Reuse of 30% of packaging used in food delivery	
Orti Generali Srl				Social urban green gardening activities and promotion
Fondazione Piemonte Innova	DC4ET, collaborative energy management program for industries	Living Lab ToMove – Innovative collaborative mobility solutions	Innovative digital circular solution for industries	Adoption of NBS in own office furniture and equipment
Pro Natura Torino APS		Promotion and advocacy on public transport and sustainable mobility		
ReLearn Srl			An AI-based solution for monitoring circular processes	
Rifiuti Zero Piemonte			Promotion and advocacy on waste sustainable management	
Siborg Srl	Energy saving in office activities	Adoption of low emission fuel vehicles	Zero Paper office activity program	Tree planting for emissions compensation
Sunspeker Srl	Innovative solutions for PV in urban areas			

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LEGAMBIENTE PIEMONTE E VALLE D'AOSTA APS	Information to citizens on Energy efficiency funding and solutions	Promotion and advocacy on public transport and sustainable mobility	Promotion and support of green public procurement	Launch of "Urban's green deal" and a participative forum on green area management
Arcobaleno Cooperativa Sociale	Design and management of a "Zero Energy" sport center	A training program for the company's 350 employees on sustainable mobility solutions		
Il Tuo Parco APS	Creation of an Energy Community in Torino	Promotion and advocacy on public transport and sustainable mobility		Participative design of recovery of Michelotti Park in Torino
BLUE Engineering Srl		Promotion and advocacy on public transport and sustainable mobility		Designing and experimenting with the application of a green wall to purify the air inside own office buildings
Associazione culturale Club Silenzio			Awarding of ISO 20121 Sustainable Event Management certification	
CONFCO-OPERATIVE PIEMONTE NORD	Support to member companies in refurbishment of their own buildings.	Mobility Managers training courses for associated companies		
Cube Italia Ltd				Promotion of "urban farming" technologies and solutions
Enerbrain Srl	Promotion and testing of innovative AI Energy Management solutions			
EOT Srl	An IoT "Smart Energy" Welfare community platform		IoT solutions for integration of EV into Energy community platforms	

APS Fiab Torino Bici & Dintorni		Promotion and advocacy on public transport and sustainable bike mobility		
Fratelli Basile Srl	Installation of photovoltaic panels on the entire structure (100 kW) to reduce electricity consumption by about 70%. Monitor the reduction of CO2 emissions. Installation of a wallbox, with two sockets of 22 kw each, for charging electric vehicles.	Project for the total electrification of old RVs in order to give them a new life, trying to respect the environment as much as possible and reduce waste.		
Geosolving Srl	Solution for building energy refurbishment using geothermal energy			
Giustizia Climatica Ora! APS	Launch of an Energy Community in the Vanchiglietta district	Purchase of e-bikes and E-cargo bikes for shared mobility	Promotion of "local shopping" for reduction of packaging wastes	
I.C.R.E. Automazione s.s.		Processing of exhausted lubes for re-use in industries		
KAIROS CONSORZIO DI COOPERATIVE SOCIALI	Energy recovery of community centers "Bagni pubblici" and "Cascina Falchera"			Demonstration project "Agro – Forest Urban Ecosystem" to participate in green management
Triciclo - società cooperativa sociale			The organization is committed to waste reduction activities through both the reuse and promotion of emission-free mobility by encouraging the use and repair of used bicycles.	

LaQUP APS		Information and training on "sustainable mobility and transport solutions"		Information and training on "participative urban green areas management"
Legacoop Piemonte	Support to affiliated companies on green energy purchasing		Creation of a "reuse center" offering citizens the possibility to recycle their used goods	
Fondazione LINKS	Creation of a Positive Energy District (PED) in Torino	Sustainable mobility support program for employees	Training and workshops on regeneration of technological tools, workshops on sustainable cooking and packaging reduction	Pilot actions on integrated climate adaptation solutions based on ecosystem services
Associazione Manzoni People OdV	Setting up laboratories on energy saving in schools	Road safety training for kids to obtain a "bicycle riding license"		Reviving an educational garden on school grounds.
Mercato Circolare Srl			"Circular & systemic tool" for impact assessment of food value chain in Torino	
Modelway Srl	Virtual sensing software solutions for energy management	AI-based app solution for booking charging stations for BEVs		
PartecipaTO	Study of the application of the heat pump to the heating of the church and premises as a demonstration of the feasibility of achieving zero consumption for heating.			

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PCM Srl				Turning its usual charitable donation for corporate Christmas gifts into the purchase of trees for the municipality.
Planet Idea Srl	Smart Energy platform for automated collection of consumption data, active management of building energy use			
Ama Factory ETS				Urban Garden, rehabilitation and re-purposing of the green areas of the former San Pietro in Vincoli cemetery.
Urban Lab	Development of the new GRP for the Città di Torino.	Development of the new GRP for the Città di Torino.	Development of the new GRP for the Città di Torino.	Development of the new GRP for Torino. Animation and communication activities in the Valdocco neighborhood - project CONEXUS – Urban ecosystem renewal in EU and CELAC cities

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IGPDecaux S.p.A	Energy efficiency activities of the IGPDecaux Logistics Hub in Torino; 2. Commitment to use 100% renewable energy; 3. Progressive replacement of the fleet with electric vehicles.	By entering into a contract with GTT for the management of the advertising spaces in the concessions of the Città di Torino, IGPDecaux is committed to financing public transport, thus contributing to the achievement of the TPL's ESG objectives.	Maximizing the recycling and recovery of the materials originating from the various activities involved.	
CarpeCarbon Srl			Design and installation on the territory of the Torino Metropolitan Area of CarpeCarbon's pilot plant for the permanent removal of 1000 tons/year of CO2	
Unione Industriali	Information and awareness-raising courses. Energy coaching.	Dissemination of knowledge for a more sustainable mobility of goods and people.	Raising awareness among member companies. ESG desk to guide circular economy strategies and policies for companies	
Gruppo Lavazza	Based on the results of the measurement and constant monitoring of environmental impacts, the Group has implemented energy efficiency projects resulting in a progressive reduction of its direct and indirect emissions from the use of electricity.		The inclusion of principles of circular economy in making business decisions allows the Group to minimize the environmental impacts of its production processes. In 2023, the "Center for Circular Economy in Coffee" was formed: a global, pre-competitive platform designed to valorize and promote the principles and the practices of Circular Economy in the coffee sector.	

<p>IVECO Group</p>	<p>LED lighting with management system to reduce electricity consumption. Refurbishment of ducts, new air distribution system reducing distribution losses. Heat pump saving electricity and gas.</p> <p>Burner replacement.</p> <p>Installation of the latest generation of high-efficiency</p>	<p>MYshuttle, a free 'last mile' service complementary to TPL (Local Public Transport)</p> <p>Local Public Transport), with bookable rides, with App and company code, both in advance and in real time.</p> <p>UP2GO is a carpooling service</p> <p>Electric vehicles for peri-urban logistics.</p>	<p>IVECO GROUP CONTAINERS MANAGEMENT programme of reusable containers for its logistics centres, including those in the Torino area, with the aim of optimising logistics and reduce environmental impact.</p>	
<p>Stellantis</p>	<p>GrEEen Campus project - Transformation of the Mirafiori site into a collaborative and zero CO2 emissions</p>	<p>Production of the 500e, the only BEV Car currently produced</p> <p>Production from 2024 at the Mirafiori plant of the new e-DCT transmission, which will equip Stellantis' MHEV and PHEV vehicles.</p> <p>Stellantis' low and ultra-low CO<sub>2</sub> emission MHEV and PHEV vehicles.</p> <p>Inauguration in September 2023 of the innovative Battery Technology Centre for testing and development of the battery packs that will equip future Stellantis vehicles</p>	<p>SUSTAINera Circular Economy Hub, with a 360° approach based on the 4R strategy applied to batteries components and entire vehicles</p>	





CITTA' DI TORINO



**CLICC**  
Climate City Contract

# Climate City Contract Città di Torino

**2030  
Climate Neutrality  
Commitments**

**Protocol**

**NET ZERO CITIES**

**EU MISSION PLATFORM | CLIMATE NEUTRAL AND SMART  
CITIES**



CITTA' DI TORINO



**CLICC**  
Climate City Contract

## Disclaimer

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These Commitments have been adapted to incorporate the vision for striving toward climate neutrality developed by the Città di Torino and to fit with the peculiar context of the city.

This Document has been released on 13 March 2024.

**NET  
ZERO  
CITIES**

# Climate City Contract Città di Torino

## 2030 Climate Neutrality Commitments

**Protocol**  
NET ZERO CITIES  
EU MISSION PLATFORM | CLIMATE NEUTRAL AND SMART CITIES

# Mayor's Commitment

Turin, 13 March 2024

Stefano Lo Russo

Mayor of Città di Torino

A handwritten signature in black ink, appearing to read 'Stefano Lo Russo', written in a cursive style.



# People of CLICC

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# I. Introduction

## Motivation

The Città di Torino is firmly committed to **transitioning towards a sustainable and resilient future**. This commitment is underpinned by a dedicated and coherent political agenda, which has already yielded a range of impactful actions. The programs and projects stemming from this agenda form the foundation of the Climate City Contract outlined in the accompanying Action Plan and Investment Plan documents.

The ultimate goal is to transform the city into a **more accessible, circular, and green urban environment**. This vision of a sustainable and resilient city is realized through a diverse array of activities, including emissions mitigation and climate change adaptation, among others. The dedicated webpage “Torino Vivibile”<sup>1</sup> serves as a permanent link with citizens and other stakeholders, providing access to Torino’s “Piano di Resilienza Climatica” (Climate Resilience Plan) and updated information on all relevant thematic areas, whether directly related to climate or broader environmental issues.

The Climate City Contract (CCC) has been conceived as an ambitious program to complement and enhance the climate initiatives launched in recent years. Torino’s CCC aims to guide the city towards reducing greenhouse gas emissions by at least 80% by 2030, using 2019 as a reference year. The Action Plan outlines the areas of intervention and the actions Torino intends to continue, enhance, or initiate from scratch. The Investment Plan details Torino’s approach to funding and financing all planned actions.

## General background

Torino was the first capital of Italy and currently is the capital of the Regione Piemonte. Covering approximately 130 km<sup>2</sup> it is located in north-western Italy, close to the Alps, and is the fourth largest Italian city by population, with about 860,000 inhabitants. Since the 1990s, the city has embarked on a **radical transformation** due to the paradigm shift that has affected its urban economy,

<sup>1</sup> See <https://www.torinovivibile.it>

weakening the value chains linked to industrial production. During the last 30 years, the historic Italian industrial capital – and home to a significant concentration of automotive and mechanical manufacturing companies – has thus gradually renegotiated its identity as a city of innovation in education and culture, in the diversification of the economic offer and tourism, affirming itself at the national and European level.

The deindustrialization processes that have affected Torino – physiologically connected to a broader trend that has invested and transformed other Western urban areas with a formerly productive vocation – have deposited significant spatial traces on the city's fabric. Although it represents a critical issue, this economic, social, and spatial change has become an essential opportunity to redevelop large urban and industrial legacy sites, creating new spaces dedicated to services and new areas within the city.

Reusing the industrial legacy was an occasion to introduce new cultural and service spaces, reshaping the city's economy's production processes and value chains. The historic FIAT (Fabbrica Italiana Automobili Torino) factory, designed in 1921-1923 by Giacomo Mattè-Trucco and decommissioned in 1982, has been converted since 1986 by RPBW - Renzo Piano Building Workshop architecture studio into a multifunctional space including cultural, commercial and research spaces. In 2017, after a three-year recovery project, the OGR - Officine Grandi Riparazioni – a 35,000 m<sup>2</sup> space built between 1885 and 1895 for train maintenance – was reopened as a hub dedicated to artistic, scientific-technological, industrial, and cultural research.

The decommissioning of large industrial sites has also favored the development of large urban green areas –enhancing those already existing. Currently, Torino is one of the Italian cities with the most significant extension of public green spaces thanks to the large parks and tree-lined avenues inherited from the Napoleonic period – and the projects carried out from the 1990s to today to convert industrial sites into green sinks and recover river corridors as ecological areas. Today, green areas cover 37% of the city's surface (approximately 48 km<sup>2</sup>, of which 25% are green urban areas, 5% cultivated land, and 7% woods), and the green area per inhabitant is 55.43 m<sup>2</sup>.

In this sense, a flagship project is the redevelopment designed by

the Latz + Partner landscape design agency between 2004 and 2012 of the 37 hectares-wide industrial area, formerly occupied by the Ferriere Piemontesi steel and sheet metal works and the Michelin tire factory, as part of a larger green urban redevelopment project. Nearby, a 20-year planning and participatory process coordinated by the Città di Torino led to the transformation of a dismissed manufacturing site of about 43,000 m<sup>2</sup> into the Aurelio Peccei Public Park.

Despite the crucial transformations introduced and the progresses made so far on the path towards sustainability, Torino still suffers from important environmental critical issues. Specifically, the concentration of air pollutants in Torino is notable due to anthropogenic emissions, such as those from heating and transportation, as well as the unique geo-orographic context and meteorological-climatic characteristics. The proximity of the northern Alpine arc to the urban agglomeration substantially impedes the dispersion of air pollutants, resulting in Torino being one of the Italian cities with the highest levels of air pollution.

Torino is confronted with the **effects of climate change**, including heat waves and heavy rainfall. The city's vital waterways and the hydrogeological vulnerabilities of its surrounding hilly landscape expose the urban area to the impacts of extreme weather events. Consequently, the realities of climate change can no longer be ignored. The Administration is steadfastly committed to taking tangible actions: not only to address the damage caused by past or ongoing phenomena but also – and most importantly – to safeguard human settlements from probable future events. Some of these events may be partly inevitable, even with the strictest policies aimed at reducing greenhouse gas emissions.

The Administration is acutely aware, as articulated in the programmatic guidelines for actions to be undertaken during the 2021-2026 mandate, that the climate emergency stands as one of the foremost challenges of our time. It acknowledges the significance of this emergency in both present and future social, economic, and spatial transformations, and deems it imperative to take prompt measures to mitigate its impacts. In this regard, the urban environment assumes a critical role as it accommodates a large population and serves as the primary location for the production and provision of essential community services.

Therefore, Torino has decided to participate in the Mission "100

Climate Neutral and Smart Cities by 2030” to bolster and expedite a process that has been ongoing for years. This commitment involves various initiatives, projects, and investments aimed at combating climate change, encompassing both mitigation and adaptation policies. More broadly, it aims to create a sustainable, livable, resilient, and circular city. This participation represents an opportunity to streamline the objectives and impacts of policies affecting different areas of the city. The ultimate goal is to achieve climate neutrality by 2030, leveraging the synergy of efforts and commitments from both the Administration and the network of stakeholders involved in the process.

Being part of the 100 cities in the Mission also enables Torino to collaborate and exchange ideas with other communities dedicated to achieving the same objective. This collaboration involves sharing best practices and innovative solutions to address both the root causes and effects of climate change. It also entails discussing strategies to overcome obstacles while simultaneously developing a “**Torino model**” for sustainability and climate neutrality. This model might serve as a valuable reference point for other cities in Italy and across Europe.

### Policy framework<sup>2</sup>

The goal of achieving climate neutrality by 2030 represents for Torino the natural evolution of the commitments made and pursued so far in terms of sustainable development, and particularly the reduction of climate-changing gas emissions.

Indeed, Torino was among the first major Italian cities to join the **Covenant of Mayors**, becoming a participant in 2009. In September 2010, the City Council approved the City’s Sustainable Energy Action Plan, known as **TAPE (Torino Action Plan for Energy)**. This plan was regularly monitored to track progress on actions and ensure that the trajectory of emission reduction remained on course to meet the 2020 targets. Subsequent to the approval, three Monitoring Reports were issued, with the most recent one being released in 2021.<sup>3</sup> Through a comparison between the emissions inventory of 1991 and that of 2019, this report revealed an overall reduction in CO<sub>2</sub> emissions by 47%. This achievement notably surpassed the city’s self-imposed target of 30% reduction by 2020 and approached the binding target set by the European Union for 2030, which aims for a 55% reduction from the 1990 level. This significant reduction in emissions stands as a testament

to the city’s dedication and commitment to combatting climate change. It underscores the implementation of substantial actions across various emission sectors, particularly in stationary energy and transportation.

The Municipal Administration recognizes that a mitigation-focused policy alone is insufficient to address climate change; adaptation to change is also crucial. Therefore, in 2019, the City joined the **New Covenant of Mayors for Climate and Energy**, embracing its commitments. This initiative not only aims to increase the percentage of greenhouse gas emissions reduction by 2030 but also entails developing a local adaptation strategy to identify more useful and effective solutions overall. To meet this new commitment, the Città di Torino approved the **PAESC (Piano d’Azione per l’Energia Sostenibile e per il Clima - Sustainable Energy and Climate Action Plan)** in February 2023. This plan implements the new emission reduction targets set by the European Commission (-55% by 2030 and climate neutrality by 2050). The PAESC defines the objective of reducing CO<sub>2</sub> emissions by 68% compared to 1991 through a system of local actions to be implemented by 2030.

The PAESC has been developed collaboratively with other vital local planning tools, notably the **Piano di Resilienza Climatica (Climate Resilience Plan)** issued in 2020. This plan outlines the strategy and adaptation actions necessary to prepare the territory for the impacts of climate events. Additionally, the **PUMS (Piano Urbano per la Mobilità Sostenibile - Urban Plan for Sustainable Mobility)** serves as another significant reference point. With a time horizon spanning ten years (from 2020 to 2030), the PUMS envisions a mobility and transport system that is more accessible, safer, and less polluting, ultimately aiming to enhance people’s quality of life.

### Opportunities

The signing of the Climate City Contract presents a significant opportunity for Torino to delineate and uphold climate commitments, reinforced by a partnership between the Administration and the local stakeholder network. Together, they will strive towards establishing a resilient city with zero emissions contributing to climate change.

The engagement of businesses and citizens, in tandem with institutional dedication, is a pivotal stride towards realizing these

2 All the policies are detailed in the Action Plan, Section 3.2.

3 Città di Torino (2021) TAPE – Turin Action Plan for Energy. Terzo Rapporto di Monitoraggio. [http://www.comune.torino.it/ambiente/bm~doc/report\\_terzo\\_monitoraggio\\_ec1.pdf](http://www.comune.torino.it/ambiente/bm~doc/report_terzo_monitoraggio_ec1.pdf)

objectives. There is a burgeoning recognition, particularly among businesses, of their pivotal role in emissions generation and the imperative to curtail their carbon footprint. This entails adopting energy efficiency policies, investing in renewable energy sources, promoting sustainable production practices, and fostering consumer awareness.

Attaining climate neutrality aligns with the broader imperative of sustainability and ecological transition and stands as an utmost priority for Torino. It serves as a key driver to propel the city, in collaboration with municipalities within the wider Città Metropolitana,<sup>4</sup> towards a new phase of growth. Today, the international competition among major metropolitan cities also hinges on environmental quality; a city's attractiveness is intertwined with its sustainability across various facets of the urban landscape.

4 The Città Metropolitana di Torino (Metropolitan Città di Torino) as an administrative territorial entity has replaced the Province of Torino in 2015.

## 2. Goal: Climate neutrality by 2030

Aligned with the sentiments expressed in the Mission Expression of Interest (EoI), Torino aims to approach climate neutrality (Net-zero GHG emissions) across its municipal territory by 2030, leaving no area of the city or sector of the economy untouched. The objective set forth in this Contract is to achieve a minimum of an **80% reduction** in emissions relative to 2019 levels.

To tackle this challenge, Torino intends to exert a positive influence on decision-making processes through the implementation of a structured approach. This approach is characterized by its integration across various levels, acknowledging the interconnectedness of different areas involved.

It relies on **scientific foundations**, utilizing measurements, mathematical models, and analytical tools to assess potential impacts of strategic choices beforehand. It is dynamic, identifying trajectories and adapting political decisions throughout their evolution. Furthermore, it adopts a **quantitative approach**, continuously quantifying and monitoring system states using tailored metrics. Finally, it emphasizes inclusivity and collaboration, fostering constant interaction with citizens and stakeholders across sectors.

Achieving such a medium-to-long-term goal requires the implementation of **multiple interconnected actions** that align with the overarching vision of climate neutrality. This endeavor is made possible through the collaborative efforts of the Administration and organizations that have committed to sharing this objective with the city. To structure this process effectively, Torino has established a **Mission team** comprising two working groups: the **Transition team** within the **City Administration**, and the **technical working group** established at the **Energy Security and Transition EST@EnergyCenterLab** of the Politecnico di Torino. This team has played a pivotal role in guiding the co-design of the CCC with various city stakeholders.

The implementation of the strategy and measures aimed at achieving this ambitious goal must consider the imperative for environmental and sustainability policies to harmoniously integrate with the growth and innovation needs of the urban area. Additionally, they must address social needs, safeguard cultural heritage, and align with urban planning efforts to ensure balanced urban development.

In pursuit of these goals, the integration of environmental and sustainability policies can yield significant co-benefits for the city. Improved air quality resulting from reduced combustion emissions, not only enhances public health but also contributes to a more livable urban environment. The implementation of green infrastructure projects and sustainable transportation systems can create employment opportunities and fostering economic growth. Prioritizing resilience measures alongside environmental initiatives can enhance the city's ability to adapt to the effects of climate change, which are more and more frequent and severe. Only by embracing a comprehensive approach that considers the interconnectedness of environmental, social, and economic factors, the city can effectively address its sustainability challenges while ensuring inclusive growth and improving the overall well-being of its residents.

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## 3. Strategic priorities and interventions

To achieve climate neutrality by 2030, the Città di Torino has identified the following systemic strategic priorities in coordination with key stakeholders. Priorities were defined based on the baseline calculation relating to emissions (referring to 2019), which mapped the macro-areas, sectors, and sub-sectors with the most relevant impact on climate (detailed in Section A of the Action Plan). The baseline of Torino's Climate City Contract, as of 2019, has been quantified at 2,396,907 tCO<sub>2</sub>/y. The mapping of the macro-areas, sectors, and sub-sectors has outlined the systemic priorities and the taxonomy of macro- and micro-actions.<sup>5</sup>

1. The first priority concerns the Stationary Energy macro-area, which accounts for 72.4% of local CO<sub>2</sub> emissions (**1,734,424 t/y**). The main priorities concerning this macro-area involve buildings. The actions concern the thermal insulation of residential buildings; the energy retrofitting of 800 municipal buildings; the installation of heat pumps according to energy class for a part of buildings using natural gas (coupled with the installation of photovoltaic systems to cover the electrical needs of heat pumps); the implementation of the electrification of heating systems in buildings not connected to the city's district heating network; the improvement of the energy efficiency of industrial processes.

At the same time, the increase in energy produced from renewable sources is planned, optimizing its production and encouraging the establishment of renewable energy communities (RECs), allowing citizens, public bodies, and small and medium-sized enterprises to share the energy they produce and minimize network losses. The **overall reduction of CO<sub>2</sub> emissions in Stationary Energy is estimated at -1,032,603 t/y**.

2. Another priority is action on Energy Systems. The containment of emission factors through the variation of the carbon content of the Electricity/Gas/District Heating on the energy consumption should lead to **a reduction in CO<sub>2</sub> emissions of -480,530 t/y**.

<sup>5</sup> The portfolio of macro- and micro-actions is detailed in Section B and in Appendix I of the CCC Action Plan.

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3. Reducing emissions from the transport and mobility sector – which accounts for 26.5% of total emissions (636,277 t/y) – is the third priority. In this sense, the planned actions focus on reducing travel needs (encouraging remote working methods, expanding areas with limitations on private traffic, and implementing Metro Line 2). On the other hand, the reinforcement and efficiency of public and private transport vehicles (replacement of private cars with electric vehicles; renewal of the local public transport fleet; development of carsharing and carpooling policies) and support for the development of active mobility (by expanding existing cycle paths and implementing new ones) – for an overall reduction in emissions of -381,089 t/y.
4. The Città di Torino also aims to offset the residual share of unavoidable emissions, by increasing the presence of trees and green areas in urban areas (also through the construction of green roofs and vertical forests) capable of absorbing CO<sub>2</sub> (estimated CO<sub>2</sub> absorption: -74,770 t/y).

Across the strategic priorities identified, the promotion of a sustainability-oriented cultural change will aim to encourage the implementation of an articulated series of measures that see citizens and private individuals as actors in the transition through a series of communication and awareness-raising activities that the City will carry out in the short to medium term.

## 4. Vision and principles for an integrated framework for (environmental) sustainability

The definition and signature of the Climate City Contract by the Municipality and by main urban stakeholders, both public and private, with a direct involvement of all the citizens (starting from young generations), represents not only an arrival point of the significant journey already undertaken in past years towards environmental sustainability, but also – and above all – a new starting point towards the achievement of the climate neutrality target, which is certainly ambitious but that can no longer be postponed.

The **transition** towards decarbonization has been clearly identified as a **key priority** for both the Città di Torino and the whole metropolitan area. It represents an important lever for a new socio-economic development phase. In this sense, the Climate City Contract can constitute a crucial element for building a common framework in which all the sustainability actions can be collocated according to a structured, integrated and coherent vision.

Moreover, the definition and implementation of the Climate City Contract is an opportunity for **building a systemic approach** that can be shared by other Italian and European cities, thus creating a common playground for effectively facing the challenge of the environmental sustainability, according to the goals of the “Green Deal” launched by the European Commission.

For reaching these purposes, the Città di Torino has chosen to propose **an own perspective** (consistent with the peculiarities of its socio-economic, productive and administrative system), where, in particular, the CCC is understood as the overall concept for the transition towards climate neutrality and not only as a plan for the actions required to cover the gap between the results of already planned actions and the neutrality goal. According to this, we tried to introduce into the Action Plan elements able to facilitate a strategic view of the transition, focusing not just on concrete micro-actions, but identifying a set of general macro-actions through which addressing the climate neutrality target and



providing a broad umbrella for the following detailed actions (for which ad hoc plans will detail their specific goals, objectives, tasks, budget, schedule and success criteria).

Therefore, the Climate City Contract of the Città di Torino was developed according to this perspective. This approach draws on the combination of **three** elements that constitute the **pillars** for the implementation of the vision: ① an ad hoc process **governance**, ② an effective **involvement** of the **city's actors**, and ③ **science-based support** for quantitatively assessing ex-ante the costs/benefits of the single policy actions and of the overall strategies to be adopted.<sup>6</sup>

In particular, the proposed vision is characterized by **key attributes**. Namely, it is intended to be:

- **Integrated:** the analysis of the city's urban systems and the assessment of the impacts that different policy actions might have must be contextualized by the consideration of the integrated interrelationships of the different domains involved: environment (climate-changing emissions, air pollution, land use and impacts on the territory); economic system (development of new business models new industrial value chains and value chains related to the exploitation of renewable energy sources; need for new professional skills and competencies, and consequent creation of new job positions); social system (individual perceptions and attitudes; social acceptance and economic affordability of the transition process; human behavior and consequences on energy consumption patterns; positive impacts of the decarbonization on the citizens' life, both at individual and community level); digital system (data collection and management; data infrastructures, data sharing systems, Internet of Things (IoT) and smart metering; communication systems and protocols).
- **Multi-layer:** the city has to be modeled and analyzed as a complex, multi-layer system with different interrelated components: the energy system (in terms of energy generation, distribution infrastructures, and final uses by sector and commodity), the built environment (with the different intended uses: residential, tertiary/services, industrial), the mobility system (with the various possible mobility modes), the waste and water management and the green infrastructures.

- **Science-based:** the policy decision-making process should be supported by scientific approaches, models, and tools, analytically and quantitatively describing the various urban systems to evaluate the possible impacts of the strategic choices and decisions undertaken. The objective is to create skills and models to accompany the choices of the political decision-maker, developing knowledge of the possible scenarios and alternative strategic options and awareness of the consequent impacts on the different interacting domains without suggesting any scenario or option as preferential.
- **Dynamic:** in a world in transition, whose dynamics have increasingly become too expeditious to anticipate, it is impossible to think about equilibria; instead, it is necessary to do so regarding trajectories that must be followed against which to calibrate the political choices. What is commonly called "equilibrium" is a point of a given trajectory. The trajectories arise from continuous "non-linear" interactions between the different dimensions (technological, environmental, economic, financial, social) and actors (institutional, industrial, financial, and social) involved, which generate complex system dynamics and emerging integrated properties.
- **Quantitative:** political choices must be supported, as said, by a science-based approach. This approach must make it possible to quantify the main relevant variables of the climate and sustainability-related actions: emissions and costs. Pertinent other aspects to quantify are the reference configuration of the system, the possible multi-dimensional impacts deriving from different future scenarios (associated with diverse policy choices and decisions that can be taken), and the evolution of the system itself over time, thus enabling the monitoring the progress of the transition according to the implemented policies. This quantitative approach requires the availability and systematic management of the data to describe the urban systems (e.g., energy consumption and production, installed capacities, emissions, building stock and energy classes, mobility data, and macroeconomic data).
- **Inclusive and transversal:** to make the decision-making process effective and able to produce a positive impact, it is necessary to create constant interactions and a continuous dialogue with the social fabric of the city to make individual citizens, companies, and social entities aware of the cost/benefit ratio of the energy transition detailing the strategic choices according to the peculiarities of the different realities

6 The Work Process underlying this Climate City Contract is detailed in the Section 2 of the CCC Action Plan.

of the urban territory. Furthermore, it is strictly needed to carry on an intense dialogue with the city's actors and stakeholders directly involved in the transition actions (multi-utility companies operating in the area, corporate, banking system, trade associations, investors, research institutions), thus fostering a coherent vision and shared sustainability goals, and consequently orienting, in a coordinated way, political and business decisions, investment plans and corporate strategic choices. Finally, given the complexity and multidimensionality of the transition process, having a systematic approach might open concrete opportunities for the growth and development of the whole city.

Developing and implementing the vision requires identifying different functional areas, in which the key attributes can be concretely embodied and can be synthesized as follows:

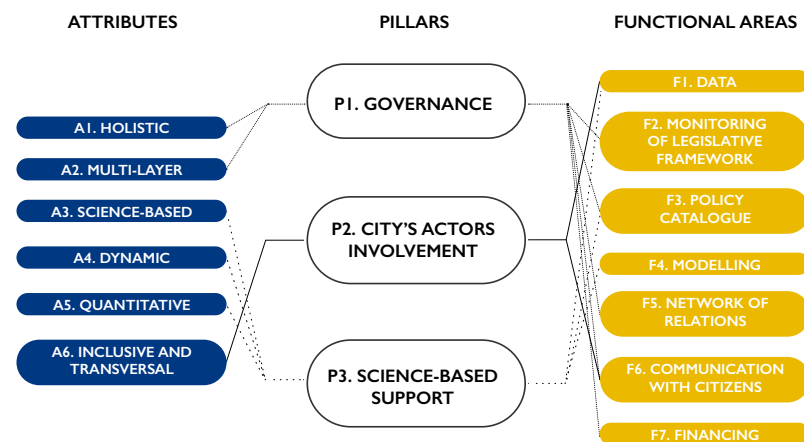
- The systematized **collection and classification of data** support the extraction of useful information for decision-making. The Città di Torino implements an “open-source data intelligence” process in this framework. Data is obtained from relevant data sources managed by various city actors (municipality, utilities and energy companies, public transport companies, environmental monitoring, and protection bodies), validated and organized within innovative databases (e.g., data lakehouse and distributed databases), automatically updated through web crawlers, with a time granularity fine enough to allow detailed analysis of the current situation and mid/long-term scenario analyses. Data are needed for feeding: ① models and tools for “what if?” scenario analyses, assessing the impacts of different alternative policies, and ② monitoring systems for quantitatively tracking the evolutionary trajectories of the urban system over time.
- Constant **monitoring** of the evolution of the national and international **legislative and regulatory framework** and the general and specific targets related to the energy transition is necessary to have a constantly updated snapshot of the current possibilities and those foreseeable in the short/medium term.
- Creating continuously updated **catalogs of policy choices** already implemented in other urban contexts at the national and international scales could inspire the implementation of interventions already tested elsewhere or the definition of

new policy actions. This approach is intended to encourage policies that are easily replicable and adaptable to different urban contexts (at a national and international level) to facilitate the diffusion of practical actions for decarbonizing the energy system and achieving the climate neutrality goal.

- **Modeling of the urban systems** includes stationary energy (municipal buildings, public lighting, residential, tertiary, and industrial sectors), transport (both public and private), waste (including landfill, wastes, and wastewater treatment), Industrial Processes and Product Use (IPPU) and Agriculture, Forestry and Other Land Uses (AFOLU, including the urban green infrastructure that acts as a CO<sub>2</sub> sink). In particular, these sectorial models should be able to quantify the impacts of different possible policy actions and strategies regarding CO<sub>2</sub> emissions avoided and related costs and allow for their comparison.
- A system of **formalized relations** with the various local and national stakeholders directly or indirectly involved in the transition process identifies possible convergences and shared courses of action (also through the definition of ad hoc agreements and the creation of a network of both national and international collaborations with other cities for sharing knowledge and best practices).
- **Communication with citizens and engagement** through websites, social networks, events, and printed paper allows them to constantly be aware of the strategic choices and decisions adopted, their time horizon, and actual impacts almost “in real-time.” The communication process must not only be unidirectional (from the City Administration to the citizens) but, as far as possible, bidirectional, systematically collecting feedback and requests of citizens themselves, analyzing them, and possibly accepting them as corrective measures for the choices made.
- Identifying **funds and financing opportunities**, including those already foreseen in the National Recovery and Resilience Plan, possible ad hoc European and National funds, and activating dedicated financing lines by private investors (e.g., banking foundations).

Therefore, the **three pillars** can be mapped according to this **conceptual framework**. On the one hand, they are closely **intertwined with** one or more of the **critical attributes** of the vision. At the same time, on the other, they **encompass** the

**implementation** of one or more **functional areas** (as graphically shown in Figure 1).



**Figure 1:** Conceptual framework of the CCC Vision

For each pillar, and in particular, for the **governance**, it is necessary to create an ad hoc **integrated Mission team**, able to **merge** different **competencies**, covering the various domains involved in the transition process, to properly manage the definition of the decarbonization pathways of the City, the assessment of their impacts and costs, and the monitoring of the evolutionary trajectories of the City towards the set goals. This system of competencies should range from modeling and analysis of urban systems (regarding the various sectors) at different spatial and time scales to the mapping of the urban morphology, to the evaluation of the environmental impacts of alternative policy scenarios, to the assessment of the contribution of urban green infrastructures to the absorption of CO<sub>2</sub> to the knowledge of the administrative and regulatory procedures for defining and implementing policies and strategic plans at the urban level.

This approach allows for a **synergic cross-fertilization of expertise** and know-how, consistent with the adoption of an **integrated** and **multi-layer** perspective, and requires the close involvement of two of the key City's **players**: the **Municipality**

(able to provide competencies in the administrative, regulatory and policy domain) and **Academia** (able to deliver the required scientific competencies).

The Mission Team should be able to **coordinate** and **accompany** the City along the whole path towards climate neutrality, ensuring: ① the **identification** of the set of **actions** needed for the decarbonization of the City by 2030 and the **assessment** of their multidimensional **impacts** and **costs**; ② the **implementation** of the **participatory process** of involvement of the various City's actors; ③ the **territorialization of supra-local strategies** through the insertion of climate actions into planning tools, regulations and projects on a local scale; ④ the **capitalization of experience** and lessons learned from local to international levels; ⑤ the **creation of connection networks** with other urban realities, at both national and international level; ⑥ the **management** of the preparation phase of the **Climate City Contract** and of their future revision phases; ⑦ the **monitoring** of the implementation of the decarbonization actions and of their effects, the **tracking** of the **evolutionary trajectory** of the urban system and the check of the coherence with the ideal trajectory to be followed for reaching set goals; ⑧ the **financial planning** and the **optimization** of **spending** oriented towards climate neutrality.

Considering the second pillar, i.e., the **involvement of the City's actors**, a crucial aspect is the development of **participatory paths** with all local stakeholders, both internal and external to the municipal administration, involved in the process of **co-designing** the set of actions needed for the decarbonization of the City and in the subsequent process of achieving the climate neutrality target. The construction and implementation of the Climate City Contract firmly lean on incremental participation. The participatory process stems from creating **a solid mandate within the municipal administration** (Mission Team, Mission Group, and Climate Change Working Group). It gradually expands from a first kernel that involves defined **targets of the local ecosystem** (actors and subjects strongly engaged in other processes and with a high potential in terms of direct and/or indirect effects on achieving climate neutrality) to individual citizens.<sup>7</sup>

Such a participatory path outlines and activates diverse spaces for collaboration (information, consultation, co-creation) that gradually expand to potentially include all citizens. By adopting a

**systemic and multi-level approach**, the entire local ecosystem, made up of the different actors and subjects of the city – public and private and including citizens – is positively involved in the common challenge. The path takes place through the experimentation of forms of social innovation and governance innovation as enabling factors for effective, inclusive, and bottom-up climate neutrality transformations. In particular, according to the three **key principles** of ① **Transparency and inclusion** ② **A focus on people and interconnection for a fair transition**<sup>8</sup>; ③ **Shared responsibility and collaborative learning**, the local “ecosystem” to be involved should include multilevel players: institutional bodies besides the Municipality of Torino (like the Regione Piemonte and the Torino Città Metropolitana), public multi-utility companies, the private sector (corporate, banking system, trade associations), the Third Sector and non-profit organizations, the academic world and the citizens, with specific attention devoted to the younger generations (which could actively sustain and push the transition process in the following decades) and to vulnerable targets (which should not suffer from adverse effects, especially from the economic point of view, of the pathways towards climate neutrality, and for which it is crucial to ensure equity of the process). This engagement of urban actors as active participants in the City’s challenge should represent the basis for **co-creating the knowledge framework on the City’s carbon footprint and co-designing the portfolio of actions and their monitoring**. One of the mandates of the governance (the first pillar of the vision) is, therefore, the identification and implementation of proper stakeholders’ communication and engagement approaches (e.g., meetings, working tables, workshops, thematic forums, widespread policy labs) for ensuring the effective involvement of the local “ecosystem” of actors and for promoting a common action perspective for the transition towards climate neutrality.

The third pillar, which focuses on **science-based support** for the City’s policy decision-making, seeks to offer practical and effective tools. These tools are grounded in robust scientific methodologies and models and are designed to facilitate the comparative assessment of the impacts of different policy actions and strategic choices. They also enable the tracking of system evolution and verification of coherence with defined targets. This approach allows for the introduction of corrective actions, if necessary, in line with the **quantitative and dynamic** perspective described

earlier. Its implementation is based on a set of key elements: ① the creation of a **database** of the whole **urban system**, allowing for collecting, validating, storing, managing and constantly updating all the data needed for the characterization of the City’s urban systems and for feeding both the models and tools for “what if?” scenario analyses and the tracking system for the monitoring of the evolutionary trajectories; ② the definition of **sectorial models** for the ex-ante evaluation of the multidimensional **effects** of possible different **policy actions**; ③ the identification of a **system of Key Performance Indicators** for **tracking** the evolutionary **trajectory** of the City’s transition with respect the main dimensions involved (energy, environmental, economic, social); ④ the development of IT tools directly accessible and usable by the City’s policy decision-makers; in particular, these tools should be oriented, on the one hand, to the specific definition and **formalization of the CCC** (including an automatic compiling of the various sections of the contract itself) and, on the other hand, to the creation of a **Digital Twin of the City**, (under construction). This tool will enable the follow up of the evolution of the urban systems, not just with reference to the GHG emissions but in terms of the multidimensional impacts (energy, economic, environmental, social) of the transition pathways, in a measurable and interactive (by means of a detailed geomatic representation and modelling of the City) manner.

As detailed in the Action Plan,<sup>9</sup> the **CLICC (CLimate City Contract) IT platform** has been developed as an instrument to define and formalize the CCC in the framework of a more general digital twin tool for the city. The platform can elaborate the simultaneous combination of different types of actions to estimate their impacts in terms of avoided GHG emissions and assess the related costs, providing a pre-compiled template for the documents (i.e., commitment, action, and investment plans of the CCC). CLICC was designed and implemented to quantitatively assess the impacts of actions and pathways in terms of GHG emission reduction and the related costs, allowing the City decision-makers to test in silico, interactively, different policy options and identifying the combination of them that mainly fits with their strategies for reaching the climate neutrality. In a broader strategic framework, the **digital twin of the city** is intended to: ① provide a comprehensive and synoptic view of the urban system ② elaborate integrated multilevel and multi-sector urban models – comprising environmental models, models of the city building

7 All the actions undertaken towards the implementation of a strong participatory environment are detailed in the Section 5 of the CCC Action Plan

8 An inclusive transition to neutrality.

9 For a detailed explanation, refer to the Section 2 of the CCC Action Plan.

stock, transport models, models of urban energy infrastructures, models of waste treatment and circular economy and including stakeholders/social interactions and behavioral models; ③ assessing, in a multidimensional way, the impacts of the possible energy transition pathways of the city.

The proposed vision and methodological approach will result in a “**Torino Model**” for the science-based support of Cities in the climate and environmental policy decision-making field. The ultimate goal is to make the approach and the tools available to other cities. Such a framework is in line with the general purpose of the “EU Mission: Climate Neutral and Smart Cities”: selecting a pool of pioneer European cities that, trying to anticipate the climate neutrality goal to 2030, could serve as a model and a forerunner for other cities aiming at reaching this crucial and ambitious target by 2050.

## 5. Signatories, Main Partners, Supporters

The process of building and consolidating the local ecosystem and the stakeholder engagement have identified three levels of commitment of the actors in the Climate City Contract:

1. **Signatories.** The Signatories are mainly institutional bodies that, together with the City, sign the Climate City Contract;
2. **Main Partners.** The Main Partners (e.g., investee companies, banking institutions, and foundations) are entities that support the City in the final goal through the signing of a letter of support and with the identification of concrete actions for the reduction of climate-changing emissions;
3. **Supporters** (e.g., trade associations, companies, third sector entities, and associations) endorse the City in the final goal by signing a letter of support and identifying the micro-actions and actions enabling the context of intervention for a change that is widespread and lasting.

### Signatories

Name of the institution	Sector/Area	Legal form	Name of the responsible person	Position of the responsible person	Name and position of the technical support
Città di Torino	LOCAL	Public Administration	Stefano Lo Russo	Mayor	Gaetano Noè – Director of Environment and Ecological Transition Department
Città Metropolitana di Torino	LOCAL	Public Administration	Stefano Lo Russo	Mayor	Claudio Coffano, Director of Environment Department and Environmental Surveillance
Regione Piemonte	REGIONAL	Public Administration	Alberto Cirio	President	Stefania Crotta - Director of Environment, Energy and Territory
Università degli Studi di Torino	NATIONAL	Public Academic Organization	Stefano Geuna	Rector	Egidio Dansero - Vice Rector for Sustainability and Development Cooperation
Politecnico di Torino	NATIONAL	Public Academic Organization	Guido Saracco	Rector	Ettore Bompard - Full Professor Energy Department (DENERG)
Camera di Commercio di Torino	LOCAL	Public Organisation	Dario Gallina	President	Guido Cerrato - Manager of the Territorial Development and Market Regulation Area

## Main Partners

Name of the institution	Sector/Area	Legal form	Name of the responsible person	Position of the responsible person
<b>Gruppo Torinese Trasporti</b>	Transport Local	Public Limited Company (Plc)	Serena Lancione	Legal representative
<b>Gruppo IREN</b>	Multiutility National	Public Limited Company (Plc)	Luca Dal Fabbro	Legal representative
<b>Smat</b>	Infrastructure Local	Public Institutions Subsidiaries and affiliated companies	Paolo Romano	President
<b>Infrato</b>	Infrastructure Local	Public Institutions Subsidiaries and affiliated companies	Bernardino Chiaia	Legal representative
<b>Fondazione Compagnia di San Paolo</b>	Bank Foundation Local	Nonprofit, private and autonomous organization	Francesco Profumo	President
<b>Fondazione CRT</b>	Bank Foundation Local Nonprofit, private and autonomous organization	Nonprofit, private and autonomous organization	Andrea Varese	Legal representative
<b>CSI Piemonte</b>	Information and data Systems Local	Consortium for the Information System	Pietro Pacini	Legal representative
<b>ST</b>	Transport Local	Public Limited Company (Plc)	Rossella Maria Panero	Legal representative
<b>Arpa Piemonte</b>	Environment Dept. Local	Public Institutions Functional agencies	Secondo Barbero	Legal representative
<b>Atc Piemonte Centrale</b>	Social housing Regional	Public Institutions Subsidiaries and affiliated companies	Luigi Brossa	Legal representative's delegate
<b>Intesa San Paolo</b>	Bank National	Private Entity	Elena Flor	Head of ESG & Sustainability
<b>Unicredit</b>	Bank National	Private Entity	Marco Borgione,	Head of Territorial Development North West Office

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## Main Partners

<b>Cassa Depositi e prestiti</b>	Financial Institution National	Public Institutions Subsidiaries and affiliated companies	Dario Scannapieco	Chief Executive Officer
<b>SAGAT S.p.A.</b>	Airport Local	Public Institutions Subsidiaries and affiliated companies	Andrea Andorno and Elisabetta Oliveri	Legal representative President
<b>ITALGAS</b>	Gas and electricity distributors National	Public Limited Company (Plc)	Paolo Gallo	Legal representative
<b>REALE Group</b>	Bank National	Private Entity	Luca Filippone	General Director of Reale group

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## Supporters

Name of the institution	Sector/Area	Legal form	Name of the responsible person	Position of the responsible person
A.M.A. Factory ETS	Cultural/Local	Third sector organisation	Giuseppe Rosso	Legal representative
Arcobaleno Cooperativa Sociale	Waste/ Local	Third sector organisation	Potito Ammirati	Legal representative
Associazione AI Cicapui ASD e APS	Sport and Cultural/Local	Third sector organisation	Antonio Convertino	Legal representative
Associazione Donne per la difesa della società civile	Cultural/Local	Third sector organisation	Anna Ianniello	Legal representative
Associazione Hiroshima Mon Amour ETS	Cultural/Local	Third sector organisation	Fabrizio Aldo Gargarone	Legal representative
Associazione Il Tuo Parco	Cultural/Local	Third sector organisation	Piergiorgio Tenani	Legal representative
ATT SRL IMPRESA SOCIALE	Social/Local	Third sector organisation	Carlo Maria Tresso	Legal representative
biova srl	Circular Economy/Local	Third sector organisation	Franco Dipietro	Legal representative
BLUE Engineering s.r.l.	Design/Local	Private Entity	Moh'd Juma Eid	Legal representative
CaMariuccia	Farm/Local	Third sector organisation	Andrea Maria Pirolo	Legal representative
Capetti Elettronica	Technological/ Local	Private Entity	Anna Franca Maria Capetti	Legal representative
CarpeCarbon SRL	Environmental/ Local	Startup	Giuliano Antoniciello	Legal representative
CLEAN AIR Italia S.r.l.	Environmental/ Local	Private Entity	Pietro Calò	Legal representative
Club Silencio	Cultural/Local	Third sector organisation	Alberto Ferrari	Legal representative
Coesa Energy	Energy/Local	Private Entity	Federico Sandrone	Legal representative
Confcooperative Piemonte Nord	Representation of the cooperative movement/ Regional	Trade Association	Giovanni Gallo	Legal representative
Consorzio KAIROS	Social/Local	Third sector organisation	Daniele Caccherano	Legal representative
Consulta Ambiente e Verde	Environmental/ Local	Municipal consultation	Piergiorgio Tenani	Legal representative

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## Supporters

Consulta Mobilità Ciclistica e Moderazione del Traffico	Mobility/ Local	Municipal consultation	Diego Vezza	President
Cooperativa Sociale P.G. Frassati scs onlus	Social/Local	Third sector organisation	Roberto Galassi	Legal representative
Cube Italia	AgriTech	Startup	Domenico Auriemma	Legal representative
Data Reply Srl	Analytics/National	Private Entity	Luca Montinari	Legal representative
Enerbrain	Energy	Startup	Giuseppe Carlo Giordano	Legal representative
Environment Park	Environmental/ Local	Research Entity	Giacomo PORTAS	Legal representative
EOT SRL	Energy	Private Entity	Giulio Troncarelli	Legal representative
Fiab Torino Bici & Dintorni	Environmental/ Local	Third sector organisation	Massimo Tocci	Legal representative
Fondazione Collegio Einaudi	Training	Private training institution	Andrea Fabbri	Legal representative
Fondazione Links	Training/ National	Private training institution	Stefano Buscaglia	Legal representative
Fondazione Piemonte Innova	Training/ Regional	Public-private partnership	Massimiliano Cipolletta	Legal representative
Fratelli Basile Srl	Mechanics/ Local	Private Entity	Mattia Basile	Legal representative
Geosolving srl	Geological and engineering /Local	Private Entity	Santina Aiassa	Legal representative
Ghiggia srl	Plant engineering/ International	Private Entity	Giovanni Ghiggia	Legal representative
Giustizia Climatica Ora!	Environmental/ Local	Third sector organisation	Andrea John Déjanaz	Legal representative
GlobalChimica	Chemical/ International	Private Entity	Clara Besson	Legal representative
GREEN GROWTH GENERATION	Sustainable/ Local	Third sector organisation	Gabriella Esposito	Legal representative
Icre Automazione sas	Automation/ National	Private Entity	Vittorio Padovan	Legal representative
IGPDECAUX spa	Communication National	Private Entity	Fabrizio du Chène de Vère	Legal representative
Iveco Group	Transport/ International	Private Entity	Annalisa Citterio	Head of Sustainability
LaQUP APS	Cultural/Local	Third sector organisation	Silvana Ranzato	Legal representative
Lavazza	Food/International	Private Entity	Mario Cerutti	Chief Institutional Relations & Sustainability Officer

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### Supporters

Legacoop Piemonte	Representation of cooperative/ Regional	Trade Association	Dimitri Buzio	Legal representative
Legambiente Piemonte e Valle D'Aosta	Environmental/ Regional	Third sector organisation	Alice De Marco	Legal representative
Manzoni People	Volunteering/ Local	Third sector organisation	Laura Sciolla	President
MARAZZATO SOLUZIONI AMBIENTALI SRL	Environmental/ Local	Private Entity	Bosi Ivano	Legal representative
Mercato Circolare	Social/Local	Private Entity	Nadia Lambiase	Legal representative
Mercato Itinerante	Social/Local	Startup	Eman Saffo	Legal representative
Modelway s.r.l.	Innovation/ International	Private Entity	Francesco Pennaroli	Legal representative
Orti generali srl. impresa sociale	Social/Local	Private Entity	Stefano Olivari	Legal representative
PartecipaTO	Cultural/Local	Third sector organisation	Azzurra Beddini	Legal representative
PCM Srl	ICT/Local	Private Entity	Matteo Baldi	Legal representative
Planet Idea srl	Innovation/ International	Private Entity	Gabriele Francesco Maria Pala	Legal representative
Pro Natura Torino	Environmental/ Local	Third sector organisation	Paola Maria Campassi	Legal representative
ReLearn	Environmental/ Local	Startup	Riccardo Leonardi	Legal representative
Rifiuti Zero Piemonte	Environmental/ Local	Third sector organisation	Laura Piana	Legal representative
Siborg Srl	Environmental/ Local	Private Entity	Bruno Lanfranco	Legal representative
Stellantis	Mobility/ International	Private Entity	Daniele Chiari	Legal representative
Sunspiker	Solar technologies/ Local	Startup	Fabrizio Chiara	Legal representative
Triciclo scs	Environmental/ Local	Third sector organisation	Pier Andrea Moiso	Legal representative
Unione Industriali Torino	Business association/ Local	Trade Association	Angelo Cappetti	Legal representative
UrbanLab	Communication/ Local	Third sector organisation	Piero Boccoardo	Legal representative

# 6. Annex:

## Individual Signatory Commitments

Copia del documento originale con apposizione del protocollo



### Individual Signatory Commitments

Signatory

#### CITTÀ METROPOLITANA DI TORINO

**Short description of the stakeholder**

The Metropolitan City of Turin is located in northwestern Italy and is part of the Piedmont Region. It borders the south-east of France and is one of the largest Italian metropolitan areas in terms of extension and population (6,827 km2 - population approximately 2,247,780 inhabitants, of which 890,000 residents in the City of Turin). It is a Local Public Body, established with Law 56/2014 to replace the former Province of Turin. Italian metropolitan cities are "second level" authorities, governed by political bodies elected from among the mayors and councilors of the municipalities included in the metropolitan area. The Metropolitan City of Turin is made up of a high number of Municipalities (312), 143 of which are Mountain Municipalities and mostly small and very small centres: 80% of the municipalities have less than 5,000 inhabitants and 36% have less of 1,000 inhabitants.

**Strategy and policy at 2030**

As regards skills, the strategic mission of the Metropolitan City is to represent the engine of economic and social development for urban and rural areas by interpreting the new needs of the economy and society, to manage flows and networks and launch high-impact projects to promote the standing of Italian metropolitan areas within the network of global cities. The metropolitan city represents a "government instrument" that can coordinate with individual municipalities within the metropolitan area, surrounding areas, regions and the national government, in order to plan and design within a large area. In particular, it has specific skills in the following areas: economic development, strategic and general planning; territorial planning; implementation of sustainable public procurement (SPP); support for the creation and growth of businesses; support for innovative ecosystems in the framework of regional smart specialization strategies (RIS3); ICT and digitalisation. Regarding the implementation of the CCC, the Metropolitan City can ensure uniformity of action across the entire local area, extending interventions beyond the city area and involving sectors not otherwise reachable (e.g., farmers, ranchers, suburban transportation, etc.).

**Supporting actions and strategies (2019-2030)**

Macro areas  
 Energy systems     Transport     Waste     AFOLU     Stationary Energy     Cross-cutting


Description	Status
Following the introduction of the guidelines for the drafting of PUMS, contained in Ministerial Decree 397/2017, which introduced the responsibility of Metropolitan Cities to draft a single PUMS for all municipalities within their territorial scope, the Metropolitan City of Turin has adopted its own Piano Urbano della Mobilità Sostenibile (PUMS - Urban Plan for Sustainable Mobility). This updated plan envisages a set of actions and interventions with a ten-year time horizon (from 2020 to 2030), to develop a vision of a more accessible, safer and less polluting mobility and transport system, oriented to improve people's quality of life.	ONGOING
In September 2022, the Metropolitan City started the works on the approval of the Piano della Mobilità Ciclistica (BICIAN - Bicycle Mobility Plan): the Metropolitan City is drawing up an initial knowledge framework, from which a proposal for metropolitan cycle corridors and bike-to-rail nodes will be derived.	ONGOING
In 2022-2023, the Metropolitan City has joined the AMSvS - Agenda for the sustainable development of the Metropolitan City of Turin and its territory, which consists of work processes involving a plurality of subjects and territories, giving rise to useful tools for collective action and a plurality of documents – products of shared work paths – that will be fed and updated over time.	ONGOING

Arrivo: AOO 074, N. Prot. 000025666 del 11/03/2024

6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024/074.fra, 074.arm, 31.nd, 1.a

# 6. Annex Signatories

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<p>MCTO, in implementation of the 2020 and 2021 Climate Decree and of the P.N.R.R. - National Recovery and Resilience Plan Mission 2 component 4 investment 3.1. " Protection and enhancement of urban and extraurban green" annuality 2022 and annuality 2023-24, developed a forestation strategy coherent with the National Strategy for public green spaces, with the Nation Plan of Urban Forestry (milestone 2021 of P.N.R.R.) and the World Forum on urban forests indications which involved the planting of approximately 1.000.000 trees and shrubs on 850 hectares</p> <p>Main aims of the strategies are:</p> <ul style="list-style-type: none"> <li>- to rebuild urban and peri-urban natural ecosystems</li> <li>- reconnect habitats through metropolitan ecological networks</li> </ul> <p>Increase usability of selected areas</p> <p>To date 265,000 trees were planted on approximately 300 hectares of land, it was possible to restore urban areas, external areas, fire-affected areas, degraded areas and river banks</p>	<p>ONGOING</p>
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6.v. 90.v. 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 31.nd, 1.a

Arrivo: AOO 074, N. Prot. 00001846 del 22/02/2024

Copia del documento originale con apposizione del protocollo

ALL.1



2030 Climate-Neutrality Commitments



We, the undersigned, hereby commit to help make the City of Turin climate neutral and to support the acceleration of path towards the goal by 2030 as planned in the present CCC. We agree on the urgency of the climate action and the need of a just transition, sharing the city's values, joint ambition and commitments and will support through the measures reported in annex.

We will also actively participate in the dissemination and information about the Mission and will monitor and update regularly the activities and related achievements under our competence.

Turin, 20<sup>th</sup> February 2024

Stefano Lo Russo – Mayor of the Metropolitan City of Turin



6.v. 90.v. 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 8.nd, 1.a

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### Individual Signatory Commitments

Signatory

#### CAMERA DI COMMERCIO DI TORINO

##### Short description of the stakeholder

The Turin Chamber of Commerce groups together more than 220,000 companies and works to promote economic development in the city and in the metropolitan area. The Chamber of Commerce has prepared a multi-year strategic plan, which defines the priority lines of action:

- improve the competitiveness of the territory;
- strengthen and promote entrepreneurship;
- increase the internationalization of companies;
- enhance human capital;
- broaden knowledge of the area;
- enhance the role of credit, finance and insurance;
- increase the sensitivity of the territory towards issues of the energy and environmental sector.

##### Strategy and policy at 2030

On 16 September 2019, at the ICC Council meeting World Chambers Federation held in Moscow, Vincenzo Ilotte, President of the Turin Chamber of Commerce, signed the declaration of intent "ICC WCF Chambers Climate Coalition", signed by more than 2000 Chambers of Trade in the world. The Chambers of Commerce, by signing the Climate Coalition, have stated that, to reduce these risks, they will take actions aimed at achieving the goals outlined in the Paris climate agreement, to create cleaner and more resilient economies. In particular:

- will support actions aimed at limiting the increase in average temperature global at 1.5°C in the institutional world and corporate networks;
- will support the goal of achieving "net zero emissions" globally by 2050;
- will integrate guidelines for the mitigation of the climate and the resilience guide for businesses;
- will work with public and private entities to support climate solutions effective for people and the planet;
- they will reduce the greenhouse effect that originates from chamber of commerce activities.

Moreover, on the occasion of the 2020 edition of "New York Climate Week", ICC (International Chamber of Commerce), Exponential Roadmap Initiative, We Mean Business Coalition - as part of the United Nations "Race to Zero" campaign - launched the initiative "EMS Climate Hub".

The initiative supports small and medium-sized enterprises in the processes of reducing CO2 emissions by 2030, with the aim of developing their competitiveness, strengthening their resilience by facilitating access to global distribution chains and achieving the "zero emissions" objective by 2050, making targeted tools and incentives available to them through a multimedia platform. .

##### Supporting actions and strategies (2019-2030)

###### Macro areas

- Energy systems    Transport    Waste    AFOLU    Stationary Energy    Cross-cutting

Description	Status
<b>Progetto CERTo. Comunità Energetiche Rinnovabili per il torinese.</b> In October 2022, as part of a series of working groups established to address the topic of the "Energy Crisis", an operational table on "Energy Communities" began, identified as a possible innovative tool for the development of new economies on the territory. This is how the CERTo Project was born, with the involvement of the Energy Center and local businesses, in which the Turin Chamber of Commerce, in the role of coordinator and facilitator, supports the actions and relationships necessary to achieve the expected objectives.	ONGOING

We, the undersigned, hereby commit to help make the City of Turin climate neutral and to support the acceleration of path towards the goal by 2030 as planned in the present CCC. We agree on the urgency of the climate action and the need of a just transition, sharing the city's values, joint ambition and commitments and will support through the measures reported in annex.

We will also actively participate in the dissemination and information about the Mission and will monitor and update regularly the activities and related achievements under our competence.

Turin, 20<sup>th</sup> February 2024

Dario Gallina – President Chamber of commerce of Turin

Arrivo: AOO 074, N. Prot. 00001787 del 20/02/2024

Arrivo: AOO 074, N. Prot. 00001787 del 20/02/2024

6.v. 90.v. 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 4.nd, 2.a

6.v. 90.v. 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 4.nd, 3.a

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### Individual Signatory Commitments

Signatory  
**POLITECNICO DI TORINO**

**Short description of the stakeholder**

Politecnico di Torino was the first Italian Engineering School founded in the wave of the technical and scientific innovation that gave rise to the most prestigious European polytechnic schools in the mid-19th century. Founded as School for Engineers in 1859, it then became Regio Politecnico di Torino in 1906. Engineers, architects, designers and urban planners have been trained at Politecnico di Torino for over 160 years with rigor, integrity and high-level standards. This long ever-changing history has rated Politecnico among the top European technical Universities for education and research, with 38,700 students and a teaching staff of more than 1,000.

**Strategy and policy at 2030**

For several years now, Politecnico di Torino has been pursuing a path of integration of sustainability principles in its activities: teaching, research, third mission and campus management. The path undertaken is aimed at developing the principles of sustainability in a shared and systematic strategy, in acknowledgement of the Sustainable Development Goals adopted together with the 2030 Agenda by the United Nations in 2015

The principles of sustainability, of the University's impact on the environment and natural resources, and actions to promote sustainable development of the territory, had already been introduced in the Statute of Politecnico di Torino in 2012. In 2018, a specific line of the PoliTO4Impac University Strategic Plan was dedicated to the development of a sustainable campus and the role of the University in the exchange of knowledge and technologies for sustainable development.

Since 2019, the Politecnico has the presidency of the Italian Network of Universities for Sustainable Development and coordinates its activities. Since 2023, it also leads the RUS Working Group dedicated to mobility issues.

**Supporting actions and strategies (2019-2030)**

**Macro areas**

- Energy systems
- Transport
- Waste
- AFOLU
- Stationary Energy
- Cross-cutting

Description	Status
Sustainability protocol for university buildings, regarding new constructions and maintenance (IISBE agreement)	ONGOING
Three-year work program 2023-2025: retrofitting building interventions (casing insulation, replacement of windows, LEDs, PV implementation) for: • Corso Castellidardo • Via Peano	ONGOING
DASHBOARD for monitoring the Decarbonization Plan	ONGOING
Sensor implementation in University facilities	ONGOING
Automatic detection of anomalies in photovoltaic (PV) production systems	ONGOING
Definition of optimized control strategies and tuning of air conditioning and lighting systems	ONGOING
Data Center efficiency strategies	ONGOING
Optimization of educational and event spaces	PLANNED
Actions to encourage co-modal and sustainable transport choices according to the planning of the University Home Travel Plan	ONGOING

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Rete elettrica e colonnine per ricarica veicoli plug-in	ONGOING
Electrical network and plug-in vehicle charging stations	ONGOING
Fleet integration with soft mobility vehicles (bicycles/bicycles with pedal assistance) or low impact (electric scooters)	ONGOING
Centralized management service and dematerialized booking of University vehicles Experiments MaaS (Mobility as a Service)	PLANNED

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We, the undersigned, hereby commit to help make the City of Turin climate neutral and to support the acceleration of path towards the goal by 2030 as planned in the present CCC. We agree on the urgency of the climate action and the need of a just transition, sharing the city's values, joint ambition and commitments and will support through the measures reported in annex.

We will also actively participate in the dissemination and information about the Mission and will monitor and update regularly the activities and related achievements under our competence.

Torino, 23 Febbraio 2024

PROF. GUIDO SARACCO

RETTORE

POLITECNICO DI TORINO



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## Annex 2 - Regional Signatory Commitments

### REGIONE PIEMONTE

#### Short description of the stakeholder

Piedmont Region is one of the 20 regions of Italy and has an area of 25,402 square kilometres (9,808 sq mi), and a population of about 4.6 million. The Region plays, in its path towards climate neutrality, a fundamental political and regulatory steering role. To implement ecological transition policies, it uses European, national and regional funds, and it involves all public and private entities (citizens and businesses) active in the regional territory.

#### Strategy and policy at 2030

The Piedmont Region is committed to identifying actions to reduce the risks deriving from climate change, to protect the health and well-being of people and preserve the natural heritage, to maintain or improve the adaptive capacity of natural, social and economic systems.

In 2020, in particular, the Region adopted the "Guideline document - Towards the regional strategy on climate change". The Regional Climate Change Strategy (SRCC) is a political and administrative initiative identified by the Region to contain global warming and contrast the negative effects of climate change which are already evident on its territory. The SRCC is not intended to replace or add to ordinary planning and programming; it is a tool for integrating and aligning mitigation and adaptation policies into sectoral plans and programs. In 2022, the 1st Item of the Strategy, focusing on the themes of Knowledge and Biodiversity, was approved. In the meantime, the approval in July 2022 of the regional strategy for the sustainable development of Piedmont, implementing the 2030 Agenda, and intense discussions held within the framework of the inter-directional working group and the Strategic Environmental Assessment procedures, led to the construction/update of some regional strategic plans, programs and projects. To date, they include climate neutrality and adaptation to the effects of ongoing change among their reference objectives. Some examples are:

- the "PRQA - Regional Air Quality Plan" (2019)
- the "PTA - Water Protection Plan" (2021),
- the "PEAR - Regional Environmental Energy Plan" (2022),
- the "PRUBAI - Regional plan for the management of urban waste and the remediation of polluted areas" (2023)
- the "PrMoP and PrLog - Regional Plan for the Mobility of People and Regional Plan for Logistics" (2023),
- the "Urban Forestry" (2022) and "Corona Verde" projects (since 2009).

#### Supporting actions and strategies (2019-2030)

##### Macro areas

X Energy systems    X Transport    X Waste    X AFOLU    X Stationary Energy    X Cross-cutting

Description	Status
<b>SRSvS - Regional Strategy for Sustainable Development of Piedmont, 2022 (Decree of the Regional Council n.2-5313 del 08.07.2022)</b>	ONGOING
It outlines the areas and objectives that the Piedmont Region intends to pursue within the framework defined by the United Nations 2030 Agenda and in coherence with and implementation of the National Strategy for Sustainable Development. Climate change is one of the central objectives of the Strategy.	
<b>Regional Strategy on Climate Change (Decree of the Regional Council n. 24-5295 del 3 luglio 2017)</b>	ONGOING
The strategy defines the political and administrative activities of the Piedmont Region to contain global	

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<p>warming and contrast the negative effects of climate change. The Regional Strategy on Climate Change (SRCC) is the reference tool that guides the administrative action in this sense, starting from the technical-scientific evidence up to the measures that will have to be taken in the regional planning and programming in the different sectors and considering the processes of governance, horizontal and vertical institutional coordination and public participation. The Region is working on planning of the Climate Change Observatory, a tool to enhance knowledge and support local institutions to define territorial policies, plans and projects to fight climate change.</p> <p><b>Guideline document - Towards the regional strategy on climate change, 2020 (Decree of the Regional Council n.66-2411 del 27.11.2020)</b></p> <p><b>1st Item, 2022 (Decree of the Regional Council n.23-4671 del 18.02.2022).</b></p> <p>The document is dedicated to the themes of knowledge, protection of Biodiversity and Natural Heritage and focuses on the identification of tools to steer actions on climate change, with particular reference to the Carbon Footprint.</p>	ONGOING
<p><b>PRQA - Regional Air Quality Plan, 2019 (Decree of the Regional Committee n.364-6854 del 25.03.2019)</b></p> <p>The PRQA illustrates: (i) the state of air quality and the identification of the areas that most impact air quality (Agriculture, Energy, Transport, Industry); (ii) technical insights that validate the contents of the PRQA from a scientific point of view; (iii) the measures relating to each area and the related quantification in terms of emissions reduction; (iv) the results of the modeling simulations regarding the implementation of air quality measures, which indicate 2030 as the year of return to the air quality limits defined in Directive 2008/50/EC.</p>	ONGOING
<p><b>PEAR - Regional Environmental Energy Plan, 2022 (Decree of the Regional Committee n. 200-5472 del 15.03.2022)</b></p> <p>PEAR establish the targets of renewable energy sources, energy efficiency and CO2 emissions reductions to 2030. The Plan, therefore, sets the policy framework and recommendations for the energy consumptions in different sectors (building, industry and transport), for the production of electricity and district heating and for the evolution of the regional energy grids and infrastructures. It also provides orientation on how to support and promote the energy research in the green economy. The Plan is currently under revision in order to be aligned to the EU Green Deal and Fit for 55 strategy.</p>	ONGOING
<p><b>Covenant of Mayors – Europe, Since 2009 (Decree of the Regional Council n. 40-12306 del 5.10.2009)</b></p> <p>Piemonte Region is territorial coordinator of the Covenant of Mayors Europe, supporting the regional Municipalities in defining their action plan for sustainable Energy and Climate (SECAPs). Piemonte provides regional guidelines for SECAPs drafting, energy data to Municipalities and promotes projects and initiatives for Municipalities committed toward climate neutrality. As the Climate City Contract is directly linked to the Covenant of Mayors, Piemonte will use the City of Torino example to promote similar approaches in the region and will support a coordinated action in the municipalities surrounding Torino.</p>	ONGOING
<p><b>PTA – Water Protection Plan, 2021 (Decree of the Regional Committee n.179-18293, 2.11.2021)</b></p> <p>The PTA pursues the protection and enhancement of the superficial and underground waters of the Piedmontese territory in a sustainable way, targeting the full achievement of the environmental objectives set by the water framework directive 2000/60/EC. It is also a fundamental tool for strengthening the resilience of aquatic environments and related ecosystems and for addressing the effects of ongoing climate change.</p>	ONGOING
<p><b>PRUBAI - Regional plan for the management of urban waste and the remediation of polluted areas, 2023 (Decree of the Regional Committee, n. 277-11379, 9.05.2023)</b></p> <p>PRUBAI is a planning tool with ambitious objectives in terms of sustainability and promotion of an environmental culture based on waste reduction, reuse of end-of-life goods and recycling. Such Plan identifies measures and interventions to reduce waste production, in particular with regard to organic waste, packaging waste and durable goods. In a nutshell, the main planning objectives for 2035 are: (i) reduction of the overall production of urban waste; (ii) increase to 82% in the percentage of waste</p>	ONGOING

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<p>sorting; (iii) improvement of the quality of sorted waste, in order to achieve a recycling rate of 65% at the national level; (iv) reduction in the production of residual urban waste up to 90 kg/inhabitant per year.</p>	
<p><b>“PrMoP e PrLog - Regional Plan for the Mobility of People and Regional Plan for Logistics”, 2023 (Decree of the Regional Council n.6-7459, 25.09.2023)</b></p> <p>The Regional Plan for the Mobility of People (PrMoP) and the Regional Logistics Plan (PrLog) are sectoral plans implementing the Regional Mobility and Transport Plan and defining the medium-term policies which are functional to achieving its objectives by 2030. 7 strategic areas of action (Ls) guide the implementation and identify the critical issues on which it is necessary to intervene, introduce the topic, and explain the need for in-depth analysis on the role of climate change on the transport system and its safety, with particular reference to the safety of infrastructures.</p>	ONGOING
<p><b>“Corona Verde” (Decree of the Regional Council n.89-12010 del 4.08.2009) and “Urban Forestry” Projects– Since 2009 - 2022 (Decree of the Regional Council n. 24-4672 del 1802.2022)</b></p> <p>Both projects have been targeting urban and peri-urban environments to make them more sustainable and resilient to climate change through green infrastructures. In particular, the Corona Verde project involves the metropolitan area of Turin and 83 Municipalities; they are organized in a governance system that guarantees the implementation of significant supra-local actions for the benefit of the territory. The Urban Forestry project aims at providing useful tools for programming, planning and designing activities, focusing in particular on the development of regional guidelines for accountability in relation to voluntary carbon credits and for ecosystem services deriving from the “non-forestry” green system.</p>	ONGOING

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2030 Climate-Neutrality Commitments



2030 Climate-Neutrality Commitments



We, the undersigned, hereby commit to help make the City of Turin climate neutral and to support the acceleration of path towards the goal by 2030 as planned in the present CCC. We agree on the urgency of the climate action and the need of a just transition, sharing the city's values, joint ambition and commitments and will support through the measures reported in annex.

We will also actively participate in the dissemination and information about the Mission and will monitor and update regularly the activities and related achievements under our competence.

Torino, 5 March 2024

Alberto Cirio

President Piedmont Region



Arrivo: AOO 074, N. Prot. 00002556 del 09/03/2024

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## Individual Signatory Commitments

Signatory

### UNIVERSITÀ DEGLI STUDI DI TORINO

#### Short description of the stakeholder

With around 120 locations spread across seven main hubs, high-level scientific research and cutting-edge teaching, the University of Turin ranks as one of the most prestigious academic institutions in the Italian university scene.

#### Strategy and policy at 2030

Since 2016, the University of Turin has established the "Green Office", UniToGO, a coordination and planning structure for the University's environmental sustainability policies. Its objective, formalized in the "Action Plan for environmental sustainability", is to reduce the University's environmental impact by involving and committing the entire university community in actions to give substance to the objectives identified by the Strategic Plan.

Located in the Sustainability Area of the Construction and Sustainability Directorate, it is coordinated by the Deputy Vice Rector for Sustainability and Cooperation and operates in close coordination with the indications of the Sustainability Board. UniToGo makes use of the expertise of the entire university community:

- the research staff provides multidisciplinary and methodological orientations and facilitates the relationship with the fields of training and research;
- the technical-administrative staff ensures the technical and procedural skills necessary for the implementation of the initiatives;
- student representatives convey the needs of the student community and facilitate their involvement.

UniToGO is made up of working groups that act in six areas, each of which is connected to an objective of improving sustainability:

- Green Public Procurement: increase the share of the University's green purchases;
- Food: improve the quality and sustainability of food consumed in the University;
- Energy and Climate: improve energy efficiency, reduce consumption and emissions of climate-changing gases; carry out actions to combat climate change
- Mobility: increase the sustainable mobility choices of the university community;
- Waste: strengthen separate collection and improve waste cycle management.

The activities of the groups are supported and strengthened in information by the Communication and Engagement Coordination.

The activities unfold along the lines of Knowing, Involving and Changing to build a shared database, strengthen internal and external networking and carry out interventions to effectively reduce environmental impact.

#### Supporting actions and strategies (2019-2030)

##### Macro areas

- Energy systems  
  Transport  
  Waste  
  AFOLU  
  Stationary Energy  
  Cross-cutting

Description	Status
<p><b>"Reinventing UniTo: recovery, valorisation and renewal - The University as the city's heritage"</b> - Complex of 24 interventions divided into four lines (A, B, D and E) for a total economic value of approximately 125 million euros. These are interventions with a low environmental impact, recovering the buildings and without further land consumption, above all taking advantage of the opportunity to use courtyard spaces located in prestigious locations (Rectorate, Palazzo Campana, buildings on the Via Pietro Giuria axis, Campus Luigi Einaudi ...) and implementing sustainable construction solutions and orienting towards achieving the strategic objective of energy efficiency of buildings.</p>	ONGOING

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<b>Cavallerizza heat pump</b> - The Construction and Sustainability and Safety, Logistics and Maintenance Departments, in collaboration with the UniToGO Green Office, have eliminated the methane gas boilers in the Aula Magna of the Cavallerizza Reale and have installed two heat pumps running on electricity.	DONE
<b>Geothermal energy for the new Grugliasco greenhouse</b> - In the Agriculture Department of the Grugliasco Campus, the Construction and Sustainability Management in collaboration with the UniToGO Green Office is about to complete the construction of the Phenoplant greenhouse. It is a type of plant phenotyping greenhouse capable of evaluating the main morphological characteristics (leaf area, plant height, vegetative indices) of plants and monitoring environmental parameters such as temperature, humidity, CO2 and PAR. There are also LED lamps to integrate sunlight during periods of low light. To minimize climate-altering emissions and greenhouse heating costs, a hybrid geothermal and gas system was designed and built. The geothermal system consists of 7 vertical probes, up to 150m deep, coupled with an electric heat pump and will provide more than 90% of the energy necessary for heating, while on rare occasions, i.e. a few days a year, the system it will be supported by a classic methane boiler.	ONGOING
<b>Relamping to the Department of Psychology</b> - In the classroom building of the Department of Psychology, in Corso San Maurizio 31, the Construction and Sustainability Department in collaboration with the UniToGO Green Office, carried out a relamping intervention to optimize the efficiency of the lighting system. Out of a total of 176 lighting elements there are 158 LED lighting fixtures. With this intervention, energy savings of 80% on the consumption necessary for lighting are expected.	DONE
<b>Energy efficiency at the Luigi Einaudi Campus with the collaboration of Eurix</b> - Towards a decarbonisation path, the Luigi Einaudi Campus was identified by the Energy working group of the UniToGO Green Office to experiment with energy efficiency interventions in collaboration with EURIX, a Turin-based IT consultancy company oriented towards the design and creation of software solutions based on innovative technologies. The solutions introduced concerned the efficiency of both the air conditioning systems (heating and cooling or Heating Ventilation and Air Conditioning - HVAC) and the lighting systems.	ONGOING
<b>The University agreement for sharing mobility</b> The University of Turin (through the UniToGO Green Office, the Mobility Manager and the Sustainability Area of the Construction and Sustainability Division) has launched subsidized agreements with sharing mobility operators active in the area. Thanks to them, the entire university community can benefit from discounts and benefits for using shared vehicles such as bicycles, electric scooters and scooters and shared cars for their travel. The signing of the agreements is the outcome of the inclusive "Muoviti bene con Unito" path started in 2021 to structure an offer that responds as much as possible to the needs of the university community and encourage a real change in mobility habits with a lower impact on the environment. The University of Turin, in addition to periodically renewing the agreements already signed (currently 10 active agreements), proposes the signing of agreements to any new sharing mobility operators operating in the metropolitan area of Turin.	ONGOING
<b>The University Public Transport discount initiative for academic and administrative staff</b> The University of Turin (through the Human Resources Division, the UniToGO Green Office, the Mobility Manager, the Sustainability Area of the Construction and Sustainability Division) supports the sustainable mobility of academic and administrative staff with a discount policy on public local transport annual pass (GTT Gruppo Torinese Trasporti). The University of Turin participated in the Piedmont Region's call for 'Incentivisation for the use of local public transport for workers' and, by co-financing the expense, allowed professors and technical-administrative staff to purchase the 2023-2024 annual pass for local public transport with a discount of up to 50% of the pass cost	ONGOING
<b>Reimbursement of Transport season tickets for students</b> - Starting from the academic year 2022-2023, UniTo supports the right to education and sustainable mobility with a new initiative dedicated to its	ONGOING

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students. UniTO reimburses students for the cost of transport season tickets, thanks to the cooperation with GTT (Gruppo Torinese Trasporti), the main transport operator in the Piedmont Region. Students receive a refund equal to 80% of the cost of the transport pass, up to a maximum of 400 Euros per capita, with a total budget of 2 million euros for the a.y. 2023-2024.	
<b>Second edition of Re-Bring it in Circulation</b> From 21 to 25 November 2022, the Green Office of the University of Turin UniToGO, on the occasion of the European Week for Waste Reduction, organized the second edition of "Re-bring it back into circulation". At three University sites (Campus Luigi Einaudi, School of Management and Economics and Palazzo degli Stemmi) an extraordinary collection of used clothing, bags/backpacks and medium/large sized fabrics was held alongside an information campaign on the environmental impacts of the textile industry. The materials donated by the participants were collected by the initiative's partners, the Cooperativa Esserci and its social tailoring laboratory Exito. Thanks to this initiative, over 1.7 tons of textile materials were collected in 5 days, of which over 1,150 kg of used clothing and bags/backpacks in good condition and over 550 kg of fabrics and bags to be recovered. Over 200 people participated, of which 36% were students, 47% were University staff but also 17% citizens.	DONE
<b>Relamping:</b> It is planned for the 2030 the relamping intervention to optimize the efficiency of the lighting system of a whole series of buildings, including Palazzo Badini Confalonieri, Campus Luigi Einaudi, Palazzo degli Stemmi and others. With this intervention, energy savings of 80% on the consumption necessary for lighting are expected.	PLANNED
<b>Heat pumps:</b> It is planned to eliminate the methane gas boilers several buildings install heat pumps running on electricity for the heating and cooling. The buildings interested are: Palazzo degli Stemmi, Palazzo Badini Confalonieri, Via Sant'Ottavio 50 and other.	PLANNED
<b>PV Panels:</b> It is planned the installation of photovoltaic panels in United buildings and creation of renewable energy communities. The buildings interested are: Palazzo Nuovo, Grugliasco Campus, Istituto Fisico and others.	PLANNED
<b>Connection to the city district heating network ("Teleriscaldamento"):</b> It is planned the connection for some buildings, reached by the city district network; The buildings interested are Centro della Innovazione and some of the ones in Turin San Salvario quarter.	PLANNED

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2030 Climate-Neutrality Commitments



We, the undersigned, hereby commit to help make the City of Turin climate neutral and to support the acceleration of path towards the goal by 2030 as planned in the present CCC. We agree on the urgency of the climate action and the need of a just transition, sharing the city's values, joint ambition and commitments and will support through the measures reported in annex.

We will also actively participate in the dissemination and information about the Mission and will monitor and update regularly the activities and related achievements under our competence.

Torino, li \_\_21/02/2024\_\_

Prof. Stefano Geuna, Rettore Università degli Studi di Torino\*  
Stefano Geuna  
UNIVERSITA DEGLI STUDI  
DI TORINO/02099550010  
21.02.2024 16:00:28  
GMT+01:00



\* Il documento è firmato digitalmente ai sensi del D.Lgs. 82/2005 s.m.i. e norme collegate e sostituisce il documento cartaceo e la firma autografa

Università degli Studi di Torino



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TECNOLOGIE  
TELEMATICHE  
TRASPORTI  
TRAFFICO  
TORINO

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CAP. SOCIALE € 100.000,00 I.V.

To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Rossella Panero  
As legal representative of 5T Srl, with head office in Corso Novara 96, Turin, Italy.

- Considering that
- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
  - ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
  - iii. 5T Srl is the in-house company, operating on behalf of its shareholders City of Turin, Piedmont Region and Municipality of Turin, focused on planning, designing and managing innovative and sustainable mobility systems and services in Turin and Piedmont. Within the framework of this initiative, the company's activities aim to reduce harmful climate-related emissions through implementation of smart mobility solutions, optimisation of traffic flows, promotion and development of the use of collective, shared and sustainable transport modes.

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 23/02/2024

5T Srl  
Rossella Panero

The legal representative  
Firmato digitalmente da:  
**PANERO ROSSELLA MARIA**  
Firmato il 23/02/2024 10:21  
Seriale Certificato: 3166174  
Valido dal 04/01/2024 al 04/01/2027  
InfoCamere Qualified Electronic Signature CA



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# 6. Annex

## Main Partners

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## Appendix: Individual Signatory Commitments

### 5T S.R.L.

#### Short description of the stakeholder

5T S.R.L. manages the Mobility and Infomobility Centre of the City of Turin, the Metropolitan City of Turin, and the Piedmont Region. Besides planning and managing the territory's mobility, 5T's activities include the collection, analysis, and provision of data to support the sector policies of the local governments. In addition, the Company promotes the development of new concepts for the future of mobility, coordinating the local strategic programmes for a more accessible, equitable and sustainable mobility for our citizens. Mobility as the Service (MaaS) and Cooperative, Connected and Automated Mobility (CCAM) are among its main priorities. 5T also works to foster standardization in the field of transportation, actively participates in Italian and European innovation projects, and shares knowledge and experiences gained in Turin, spreading the word of a more intelligent and green mobility for all.

#### Strategy and policy at 2030

We are 100% committed to support the City of Turin in meeting the Climate-neutral and smart cities goals by 2030, pursuing ambitious goals to slash emissions rapidly and pioneering innovative approaches with citizens and stakeholders, in the field of transportation and mobility.

We are well aware of the importance that the transportation sector plays in the ambition to reach the climate-neutrality goals and we work every day to make transportation and mobility more and more sustainable, equitable and inclusive, for the benefit not only of our local community, but also of the entire Planet.

We have been working since long time with this goal in mind, and we ensure we will keep on doing our part to help the City of Turin, our citizens, our stakeholders to join the EU Mission Climate-neutral and smart cities goals by 2030.

We are on a mission, too.

#### Supporting actions (2019-2030)

##### Macro areas

- Energy systems
  Transport
  Waste
  AFOLU
  Stationary Energy
  Cross-cutting

Description	Status
Travel information services <ul style="list-style-type: none"> <li>Multi-modal and integrated real-time infomobility services for city users, including public transport and shared mobility services (bikes, e-bikes, e-scooters, mopeds) (<a href="https://mato.muoversiatorino.it/POS/-/nearyou">https://mato.muoversiatorino.it/POS/-/nearyou</a>)</li> </ul>	DONE
Mobility Vouchers project <ul style="list-style-type: none"> <li>100 families who gave up or scrapped their cars received 12-months mobility budget (valued around 150 euro/month) to travel with a MaaS app integrating multiple collective and shared mobility services</li> <li>Evaluating user's behaviours and analysing the carbon footprint of their trips, we found out that multi-modal MaaS apps could help reducing around 50% the CO2 emissions compared to using private cars. More info: <a href="https://www.muoversiatorino.it/en/maastorino-en/">https://www.muoversiatorino.it/en/maastorino-en/</a></li> </ul>	DONE
Urban traffic control and priority for public transport <ul style="list-style-type: none"> <li>Traffic light priority is a service that aims to guarantee green lights without waiting for public transport lines, increasing the public transport commercial speed and reducing travel times for all user (over 10%)</li> <li>With the new Transport Plan of the City of Torino and GTT, we will be strongly committed to extending traffic light priority from the current 9 lines to a total of 13 tram and bus lines with priority (<a href="https://www.5t.torino.it/en/traffic-light-priority-public-transport/">https://www.5t.torino.it/en/traffic-light-priority-public-transport/</a>)</li> </ul>	ONGOING
MaaS4Italy: MaaS ToMove project <ul style="list-style-type: none"> <li>Creating the conditions for the uptake of a plurality of Mobility as a Service (MaaS) apps for all our city users</li> <li>Enabling and testing MaaS both for work commuting (Corporate MaaS) and for citizens' mobility needs (Consumer MaaS), promoted by nudging policies defined by the City of Turin</li> </ul>	ONGOING
MaaS4Italy: Living Lab ToMove <ul style="list-style-type: none"> <li>Self-driving bus demonstration in specific areas</li> </ul>	ONGOING

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<ul style="list-style-type: none"> <li>Automated pods for last mile delivery demonstration in specific areas</li> <li>Extension of the local road infrastructure with C-ITS (Cooperative Intelligent Transport Systems) to support CCAM large scale demonstrators</li> </ul>	
Digital services for citizens with special needs <ul style="list-style-type: none"> <li>Digitalization of the taxi voucher service for people with reduced mobility</li> <li>Issuing of digital permits for the mobility of people with disabilities</li> </ul>	ONGOING
Governance of mobility management and Home-Work Commute Plans (HWCP) <ul style="list-style-type: none"> <li>Providing a tool for optimal mobility management, collection and analysis of HWCP produced by the local enterprises at the metropolitan scale</li> </ul>	ONGOING
Training and education on issues relating to sustainable mobility specifically tailored for public administration officers and technicians, for mobility managers of enterprises and schools, and for students of different ages	ONGOING
Management of last mile logistics C-Roads Italy 4 (if awarded the CEF tender)	PLANNED

Arrivo: AOO 074, N. Prot. 00001910 del 23/02/2024

6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 13.nd, 2.a

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#### IL DIRETTORE GENERALE

*N. di prot. nell'oggetto del messaggio PEC  
Dati di prot. nell'allegato "segnatura.xml"*

To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy  
PEC [ambiente@cert.comune.torino.it](mailto:ambiente@cert.comune.torino.it)

The undersigned Secondo BARBERO as legal representative of Regional Agency for Environmental Protection of Piedmont (Arpa Piemonte) with head office in Torino address Via Pio VII n. 9

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the **'100 Climate-Neutral Cities by 2030 - by and for Citizens'** programme. This commitment will be formalised by submitting the **"Climate City Contract"** to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. The Regional Agency for Environmental Protection of Piedmont is a public body with administrative, technical-legal, patrimonial and accounting autonomy; Arpa Piemonte is committed to the control, support, technical-scientific advice and other activities at the service of other public administrations to assist them in the fulfilment of the tasks assigned to them by the laws for the conservation and protection of the environment. Among the various tasks assigned, Arpa Piemonte also performs control and inspection activities on the energy efficiency of buildings. The energy issue is also transversal to multiple activities carried out by the Agency, for example in terms of air quality and environmental assessments of projects, plans and programmes. Arpa is also committed to the dissemination of good practices relating to sustainability

**Arpa Piemonte – Ente di diritto pubblico**

Codice Fiscale – Partita IVA 07176380017

**Direzione Generale**

Via Pio VII, 9 – 10135 Torino – Tel. 011/19681120 – e-mail: [direzionegenerale@arpa.piemonte.it](mailto:direzionegenerale@arpa.piemonte.it)  
pec: [protocollo@pec.arpa.piemonte.it](mailto:protocollo@pec.arpa.piemonte.it)

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#### EXPRESSES ITS INTEREST

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the **'EU Mission for Climate-Neutral and Smart Cities'** label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

The legal representative  
Secondo Barbero

Firmato digitalmente da:  
Secondo Barbero  
Data: 22/02/2024 15:12:21  
(Digitally signed)

Arrivo: AOO 074, N. Prot. 00001937 del 23/02/2024

**Arpa Piemonte – Ente di diritto pubblico**

Codice Fiscale – Partita IVA 07176380017

**Direzione Generale**

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## Individual Signatory Commitments

### ARPA PIEMONTE

#### Short description of the stakeholder

The Regional Agency for Environmental Protection of Piedmont is a public body with administrative, technical-legal, patrimonial and accounting autonomy.

It is placed under the supervision of the President of the Regional Council to guarantee the implementation of the programmatic guidelines of the Piedmont Region in the field of forecasting, prevention and environmental protection. Arpa Piemonte was established with regional law n. 60 of 13 April 1995. Regional law n. 18 of 26 September 2016 also assigned the Agency the powers of forecasting and preventing natural risks, thus making it responsible for all protection and control functions in environmental matters.

#### Strategy and policy at 2030

Arpa Piemonte is committed to the control, support, technical-scientific advice and other activities at the service of other public administrations to assist them in the fulfilment of the tasks assigned to them by the laws for the conservation and protection of the environment.

Among the various tasks assigned, Arpa Piemonte also performs control and inspection activities on the energy efficiency of buildings:

- of the heating systems, in agreement with the competent Authority (Provinces in associated form and Metropolitan City of Turin), pursuant to art. 3 of the D.G.R. 29 December 2015, n. 23-2724;
- of the Energy Performance Certificates of buildings - APE, pursuant to paragraph 7 of the D.G.R. 21 September 2015, n. 14-2119 and subsequent amendments.

The energy issue is also transversal to multiple activities carried out by the Agency, for example in terms of air quality and environmental assessments of projects, plans and programmes.

Arpa is also committed to the dissemination of good practices relating to sustainability such as:

- The GPP Project, launched by the Metropolitan City of Turin with the technical support of Arpa Piemonte, aims to support the purchasing and environment offices of the provincial authorities in order to integrate environmental criteria into the purchasing procedures of an increasingly types of products and services. Today it responds to the twelfth of the seventeen Sustainable Development Goals promoted by the United Nations in the 2030 Agenda "to ensure sustainable modes of consumption and production".
- The eco-active schools is a regional project promoted by the Piedmont Region in coordination also with Arpa Piemonte with a dual line of action:
  - teacher training
  - financial contributions to schools to create educational and educational courses on environmental sustainability.

The school can play a decisive role in the formation of the culture of sustainability, combining the educational dimension with that of concrete actions that can infect all other places of life, i.e. by bringing together education for ecological sustainability with changes in daily behaviour. The school should become the laboratory of citizenship capable of building awareness and prospects for recovery, opening up to the territory as a positive lever for an entire community.

To reduce the environmental impact and assume the exemplary role that public bodies must have, the Agency annually realizes the Sustainability Report, declined in its 3 performances: social, economic and environmental.

The Report makes the priorities and the objectives of the administration, planned and implemented actions, results achieved and impacts on society and the environment.

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### Supporting actions and strategies (2019-2030)

Macro areas

- Energy systems     Transport     Waste     AFOLU     Stationary Energy     Cross-cutting


Description	Status
22 kWp PHOTOVOLTAIC SYSTEM IN BUILDING E1 - TURIN HEADQUARTERS Done	DONE
Disposal of old vehicles with reduction of diesel engines in favor of petrol/LPG ones Increase of 16 units (through PNRR funds) of the electric vehicle fleet, which reached 19 vehicles	DONE
CONSTRUCTION OF ELECTRIC CAR CHARGING STATIONS - TURIN	DONE
MODERNIZATION OF THE LIGHTING SYSTEM FOR COMMON SPACES - TURIN	DONE
IMPROVEMENT OF ENERGY CLASS THROUGH REPLACEMENT OF EXTERNAL FRAMES - TURIN OFFICE	Planned intervention
ENERGY IMPROVEMENT OF THE RECEPTION BUILDING AND MULTIFUNCTIONAL ROOM THROUGH OPTIMIZATION OF THE SUMMER/WINTER AIR CONDITIONING SYSTEM AND INTERVENTIONS ON THE ENVELOPE - TURIN HEADQUARTERS	Planned intervention
ELECTRICITY SUPPLY COMING 100% FROM RENEWABLE SOURCES THROUGH CONSIP AGREEMENTS	DONE
EXTENSION OF THE TURIN HEADQUARTERS PHOTOVOLTAIC SYSTEM	Planned intervention
Sustainability Report - <a href="https://www.arpa.piemonte.it/pubblicazioni-2/bilancio-sociale/bilancio-2023.pdf">https://www.arpa.piemonte.it/pubblicazioni-2/bilancio-sociale/bilancio-2023.pdf</a>	Planned intervention/ DONE

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**AGENZIA TERRITORIALE PER LA CASA DEL PIEMONTE CENTRALE**  
 (ex ATC Torino)  
 Corso Dante, 14 - 10134 Torino (To)  
 tel. +39 01131301 (ric. aut.) - Fax +39 011 3130425  
 P.I. 00499000016 e-mail: [protocollo@atc.torino.it](mailto:protocollo@atc.torino.it) Pec: [atc@pec.atc.torino.it](mailto:atc@pec.atc.torino.it)  
 sito internet: <http://www.atc.torino.it>

Torino, li \_\_\_\_\_  
 Prot. \_\_\_\_\_

To the kind attention of **Chiara Foglietta**  
 Deputy Mayor for Ecological Transition  
 City of Torino, Italy

Anno: 2024			
Tit.	CL.	SCL.	F.

Allegati: \_\_\_\_\_

The undersigned Brossa Luigi per Atc Piemonte Centrale  
 As delegate of Atc Piemonte Centrale with head office in Torino, corso Dante 14

Considering that

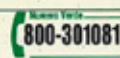
- The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- Atc Piemonte Centrale is a public housing and social housing company. Within the framework of this initiative Atc has carried out energy efficiency interventions (coats, new generators, photovoltaic roofs, fixtures, etc.) and static safety (in over 150 buildings for over 5 thousand real estate units), guaranteeing reductions in consumption that average over 40%. The works listed were carried out through a series of public support measures (Superbonus, Pnrr, Pnc, Pinqua, etc.)

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 21 febbraio 2024

Atc Piemonte Centrale  
 Luigi Brossa  
 Delegate of the legal representative



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Arrivo: AOO 074, N. Prot. 00001877 del 22/02/2024



**Individual Signatory Commitments**

**ATC DEL PIEMONTE CENTRALE**

**Short description of the stakeholder**

The ATCs are public service bodies, non-economic, auxiliary to the Region, equipped with organisational, patrimonial, administrative and accounting autonomy, they implement and manage the social housing assets and exercise the functions attributed to them pursuant to this law with competence extended to the respective territorial scope. The Central Piedmont ATC is based in Turin and is responsible for the 22 aggregates (areas) of Municipalities defined by the Piedmont Region (Turin and over 100 Municipalities of the entire province with a vast geographical distribution). The tasks and functions of the Agency are established by regional law 3 of 17 February 2010 which regulates the rules on social housing. Regional law n. 3 intervened by modifying the previous regulations (L.R. n.11/1993 and L.R. 46/1995) regarding social housing, in order to adopt an organic public residential building policy.

**Supporting actions and strategies (2019-2030)**

Macro areas  
 Energy systems     Transport     Waste     AFOLU     Stationary Energy     Cross-cutting

Description	Status
Participation in the European Wall Ace project, together with universities, research institutions and manufacturers based in France, the United Kingdom, Germany and Switzerland, whose objective is to identify innovative materials and systems for thermal insulation for highly energy-sustainable buildings.	ONGOING
Participation in the European Dreeam project, in which ATC collaborated by providing Bax & Company (the project partner company) with data that was used to develop a kind of "dynamic" software for representing the energy efficiency of various house complexes. The subject of the study is the "energy voracity" of buildings (and possible corrective measures to improve it).	DONE
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO STRADA DELLE CACCE 122-124-126	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO CORSO RACCONIGI 25 SC. 13-15-17	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO CORSO RACCONIGI 25 SC. 14-16-18-18BIS-20-22-24	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO CORSO RACCONIGI 25 SC. 19-21-23	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO CORSO RACCONIGI 25 SC. 2-4-6-8-10-12	ONGOING

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Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) -CA TORINO STRADA DEL CASCINOTTO 48-50-52-54	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO VIA CAREMA 2-4-6-8	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO VIA CUNEO 30 SC. 7-8-9-10-11-12-13 VIA DAMIANO 15 SC.1-2-3-4 VIA DAMIANO 15 SC. 14-15-16-17-18	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) -CA TORINO VIA GHEDINI 12 SC. 19-20-21	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) -CA TORINO VIA IVREA 15-17-19-21-23-25-27	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) -CA TORINO VIA MADDALENE 30 SC. 9-13-VIA MADDALENE 34 SC. 1-8-VIA GHEDINI 12 SC. 14-18	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) -CA TORINO VIA PETRELLA 75 VIA PIETRACQUA 19	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) -CA TORINO VIA PIETRACQUA 35 VIA CRUTO 24	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) -CA TORINO VIA SCIALOJA 28-30-32-34	ONGOING
Energy requalification interventions of buildings (ecobonus) and recovery of the building heritage, including anti-seismic ones (sismabonus) - CA TORINO VIA VERGA 10-12-14	ONGOING



Prot. AD/U/0094/24

To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Dario Scannapieco  
As legal representative of Cassa Depositi e Prestiti S.p.A. with head office in Via Goito, 4, 00185, Rome.

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Cassa Depositi e Prestiti is the Italian National Promotional Institution. Within the framework of this initiative, for example, Cassa Depositi e Prestiti is supporting the City of Turin through all phases of development of the Line 2 of the underground system providing advisory services to the City's Project Manager in order to define the tendering strategy, develop the project schedule, produce design, works and ancillary services tender documents as well as providing interpretation of administrative processes related to authorisation and environmental permits. The support is instrumental to the timely completion of the project by helping the Project Manager in navigating through the various laws and regulations applicable to public tenders as well as establishing project management processes through the whole lifecycle of the initiative.

**EXPRESSES ITS INTEREST**

- to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded;
- to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, March 01, 2024

Firmato digitalmente da: Dario Scannapieco  
Data: 01/03/2024 16:39:12  
Dario Scannapieco  
Chief Executive Officer  
Cassa Depositi e Prestiti S.p.A.

Cassa Depositi e Prestiti

Cassa Depositi e Prestiti  
Società per Azioni  
Via Goito, 4 - 00185 Roma  
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n. REA 1053767

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delle Imprese di Roma  
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Arrivo: AOO 074, N. Prot. 00002240 del 04/03/2024

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## Individual Signatory Commitments

### CDP - CASSA DEPOSITI E PRESTITI

Cassa Depositi e Prestiti is a joint stock company that has been recognized by law as the National Promotional Institution<sup>1</sup>, with the public mandate to support the growth of the Italian economy and invest in the competitiveness of the Country. Since its establishment in 1850, Cassa Depositi e Prestiti (CDP) has been committed to supporting investments with the aim to generate positive impacts for the entire community, stimulate economic growth, and increase Italy's competitiveness always operating with a long-term development view. CDP has strengthened its ability to promote sustainable development and therefore contribute to the achievement of the UN 2030 Agenda Sustainable Development Goals (SDGs). This strategy is coherent with the mandate received by its shareholders, the Italian Ministry of Economy and Finance (MEF) (which owns 82.77% of the share capital) and Foundations of banking origin (which hold an overall stake of 15.93%)<sup>2</sup>, and commits CDP to operate in promoting a more sustainable, inclusive and robust growth for the Italian economy. For further information: <https://www.cdp.it/sitointernet/en/homepage.page>

#### Strategy and policy at 2030

CDP Strategic Plan 2022-2024 focuses on creating a positive and measurable impact for the country.

We have identified **4 major challenges** that need to be addressed to contribute to support the Italian economy and the transition process towards greater economic, social and environmental sustainability:

1. climate change and protection of the ecosystem,
2. inclusive and sustainable growth,
3. rethinking production chains,
4. digitalization and innovation.

These challenges were translated into **10 areas of intervention aligned with the goals of the UN 2030 Agenda for Sustainable Development (SDGs)** and the missions of the National Recovery and Resilience Plan (NRP), to better focus CDP's activities. [Energy Transition, Circular Economy, Land and Water Conservation, Social Infrastructure, Capital Market, Digitalization, Technological Innovation, Support for Strategic Supply Chains, International Cooperation, Transport and Logistics Nodes].

To make these commitments concrete, since 2022 we have introduced:

- **10 strategic guidelines** linked to the areas of intervention set out in the Plan as priorities.
- **10 ESG policies** aimed at guiding CDP's investment and financing choices, by introducing treatment, limitation and exclusion based on ESG criteria.
- **The first ESG Plan** with specific targets and ambitions, related to both internal operations and business activities, such as the reduction of CO2 emissions for our buildings as well as for our financing portfolio.
- **A new way to assess our financing opportunities**, not only through the lens of risk and return. We add a third dimension: the economic, social and environmental impact, with both an ex-ante ESG assessment (so called "**Sustainable Development Assessment**") and an **ex-post impact evaluation**.

Last, ESG risks are identified and established in line with financial and banking regulation. On the climate change, CDP has decided to report, on a voluntary basis, on information relating to climate change, based on the areas set out by Task Force on Climate-related Financial Disclosures (TCFD).

In 2022, thanks to this new approach, **20 bn euro - 70% of our resources – has been committed to sustainability** - including **4.3 billion to fight climate change and protect the ecosystem** - to the benefit of more than 47,000 enterprises and 1,300 public entities, with a growing positive impact on the economy [1.7% impact on GDP; approximately 62 billion euro of activated production value; approximately 470.000 jobs created or maintained

For further information: <https://www.cdp.it/sitointernet/en/sostenibilita.page>

<sup>1</sup> According to the Italian Budget Law 2016

<sup>2</sup> The remaining 1.30% is represented by treasury shares

Arrivo: AOO 074, N. Prot. 00002240 del 04/03/2024

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### Supporting actions and strategies (2019-2030)

#### Macro areas

- Energy systems    Transport    Waste    AFOLU    Stationary Energy    Cross-cutting

Description	Status
<b>10 ESG policies:</b> i) General Responsible Lending Policy, ii) General Responsible Investment Policy, iii) <b>Energy Sector Policy</b> , iv) <b>Transport Sector Policy</b> , v) Defense and Security Sector Policy, vi) Grievance Mechanism Policy, vii) Diversity, Equity and Inclusion Policy, viii) Responsible Procurement, IX) Stakeholder Engagement; X) <b>Agrifood Sector</b>	Approved
<b>2022-2024 ESG plan</b> , including the <b>first portfolio emission intensity reduction target</b> : -30% by 2030 on a 2022 baseline (tons CO2/financed €), which may be reviewed over the next two years. The target refers to «Direct Businesses and Infrastructures and International Cooperation» loans.	On-going
Example of actions on the funding side: <ul style="list-style-type: none"> <li>• Under the <b>CDP Green, Social, and Sustainability Bond Framework</b> (established in 2017, currently under review), CDP is active on the Debt Capital Markets, having successfully issued 10 ESG bonds (7 Social Bonds, 2 Sustainability Bonds, and 1 Green Bond) for a total amount of + 6,7 billion euros.</li> <li>• In February 2023, CDP achieved a milestone by launching its inaugural <b>500 million euros Green Bond</b>. The proceeds from this issuance will be allocated to fund projects aimed at bolstering investments within key sectors including renewable energy, energy and water efficiency, and sustainable mobility.</li> </ul>	On-going
Examples of action on the lending side: <ul style="list-style-type: none"> <li>• <b>Reward of companies setting a clear ESG target:</b> when the company reaches the target (for example: reduction of CO2 emissions, increase of the level of employment), we reduce the cost of the loan.</li> <li>• <b>Public Administration:</b> in 2023, together with the EIB, we have promoted a product (so called "<b>green loan</b>"), with 200 million euro available to support local projects in four areas (green economy and water resources, energy efficiency, public transport, waste treatment), under facilitated financial terms. The first green loan has supported efficiency interventions of the water infrastructure in Valle d'Aosta.</li> </ul>	On-going

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To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Francesco Profumo,  
As legal representative of Fondazione Compagnia di San Paolo with head office in Turin, Corso Vittorio Emanuele II n° 75, Considering that:

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' program.
- ii. This commitment will be formalized by submitting the "Climate City Contract" to the European Commission in March 2024.
- iii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iv. Fondazione Compagnia di San Paolo is today one of the largest private, independent, non-profit philanthropic foundation in Europe. Since its new legal status in 1992, it has granted over 3 B€ - primarily in Piemonte, Liguria, and Valle d'Aosta - in the areas of research, higher education, welfare, health, arts, cultural heritage and environmental protection (including actions on climate change). In particular, following the European approach to the global environmental challenges, the Foundation launched in 2020 a specific *Mission on Environmental Protection* that resulted in a series of actions covering calls for proposal for the selection of projects on restoring natural capital, grants to public administration for adaptation to climate change, fostering the concept of nature & citizens wellbeing and awareness on the biodiversity loss. Most of these activities can be already considered as integral part of the overall initiatives toward the 2030 carbon neutrality. Furthermore, within the actions on Smart Cities, Fondazione Compagnia di San Paolo is supporting a project led by Politecnico di Torino, whose approach consists of a methodology, a coordinated set of models, an advanced data acquisition and valorization tool to support cities and a network of national/international connections and collaborations. With this decision support system dashboard, cities will be able to comprehensively progress in the tasks required for developing and formalizing their Climate City Contract as well as for accompanying its implementation process.

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 20/02/2024

Fondazione Compagnia di San Paolo  
Francesco Profumo  
President

Fondazione Compagnia di San Paolo  
Corso Vittorio Emanuele II, 75 - 10128 Torino (Italia) T: +39 011 15630100 CF 00772450011  
FONDAZIONE ISCRITTA NEL REGISTRO DELLE PERSONE GIURIDICHE PRESSO LA PREFETTURA DI TORINO AL N. 365

compagniadisanpaolo.it



Sistema di Gestione della Qualità certificato ai sensi della normativa UNI EN ISO 9001:2015

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2030 Climate-Neutrality Commitments



**Individual Signatory Commitments**

**FONDAZIONE COMPAGNIA DI SAN PAOLO**

**Short description of the stakeholder**

Fondazione Compagnia di San Paolo (FCSP) is a private, independent, non-profit philanthropic foundation, with full constitutional autonomy. The endowment of FCSP amounts to approximately 8.5 B€ and the income from its asset management is allocated to interventions of collective benefits through grant-making instruments, whose beneficiaries include public and non-commercial entities with an altruistic mission. The annual budget for philanthropic activities exceeds 170 M€.

**Strategy and policy at 2030**

FCSP has a philanthropic mission with a strong commitment to the common good. To be more effective and better serve the local community, it was the first Italian foundation of banking origin to promote a strategic and operational alignment with the United Nations 2030 Agenda and the Sustainable Development Goals (SDGs).

Since 2020, our organization is set to pursue three main interconnected goals: People (promoting welfare and social cohesion, combating poverty and reducing inequality), Culture (supporting culture and arts, creativity, heritage) and Planet (addressing the overarching challenges facing the future of the planet and future generations, through effective action to cope with environmental protection, sustainable economy (local) and carbon reduction strategies).

Through the commitment of the Planet Goal and its key dimensions (Support to Research, Fostering Innovation, Healthcare & Wellbeing, Environment), FCSP sees the European framework as its natural habitat and also recognizes the centrality of the EU strategies and policies (e.g.: Green Deal, Fit for 55 package, EU Mission: Climate-Neutral and Smart Cities). We see care for the environment as a starting point for promoting an idea of prosperity based on a sustainable and equitable relationship between our socioeconomic system, the natural capital (or natural ecosystems) that support it and the citizens well being.

Thanks to a wide range of tools and relevant granting opportunities (around 60 M€ yearly on Planet Goal), Compagnia strive to tackle environmental and climate challenges, support green innovation and disseminate a spirit of active environmental awareness among the public and institutions, built on responsibility, participation and an understanding of the facts. It has to be remarked that for Compagnia Environment is seen as vertical set of actions as well as transversal intention on the three verticals Research, Innovation and Wellbeing. It means that Research & Innovations projects sustained with grants can proactively contributing to local and national environmental challenges. And at the same level, most of the wellbeing supported initiatives find within the environmental the perfect match with respect to the one-health concept.

Facing these great challenges and leveraging a strict relationship with the banking system, Compagnia plays a more holistic role as an agent for the sustainable development and generate a relevant multiplier effect on the economy and society. FCSP offers tailored blended tools, ranging from grants to networking support, financial and managerial efficiency enhancement, customized skills development, targeted training, and assistance with accessing funding.

FCSP, always committed to implementing social, cultural, and territorial development initiatives, identifies a foundational principle in its willingness to collaborate with local authorities and this principle is evidenced by a long tradition of support and collaboration with the City of Turin, where FCSP is based, formalized through a specific protocol worth 16M € annually and a pillar dedicated to the Green Transition of the Municipality (FCSP has also a similar one with the City of Genoa, paired with the Italian Pilot Cities). Note that in such collaborations most of the aforementioned blended tools have been successfully applied.

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Finally, within the 2030 perspective, FCSP already tested the paradigm of Local Energy Communities (LEC), contributing to the promotion of best practices and providing technical assistance for the development of concrete energy community initiatives across the Torino metropolitan area as well as in Piemonte and Liguria. Self-sufficient energy communities-based RES (Renewable Energy Solutions) in an urban area are an unexplored opportunity to promote a new model for energy production as well as a practical toll to cope with energy poverty.

**Supporting actions and strategies (2019-2030)**

**Macro areas**

- Energy systems
- Transport
- Waste
- AFOLU
- Stationary Energy
- Cross-cutting

Description	Status
<p><b>Data-Driven Decision Support System and Data-Lake for Torino 2030 Smart City</b></p> <p>The CLICC initiative provides a methodology, a coordinated set of models and an advanced web tool supporting cities in data insourcing and analysis to comprehensively progress in the tasks required for developing and formalizing their Climate City Contract. In addition, such a platform allows with a data-driven approach the monitoring of the CCC implementation process.</p> <p>CLICC is led by Politecnico di Torino University (Schol of Engineering), endorsed by the City of Torino and funded by FCSP. It is in use for the analytical definition of the Turin's Climate City Contract.</p> <p>Total budget Phase 1: 1M€</p>	ONGOING
<p><b>Actions oriented to Environmental Restoring</b></p> <p>A series of initiative and call for proposal have been issued starting from 2020 in the field of supporting project on environmental restoration. In particular:</p> <p>Call for proposal <i>Restauro Ambientale Sostenibile</i> - Support to projects oriented to regeneration, protection, and enhancement of the natural capital of the most urbanized areas of the Piemonte and Liguria regions. Six projects funded with 1,5 Million of euros.</p> <p>Call for proposal <i>Mutamenti</i> - Support to analysis and implementation of small project on climate adaptation in 6 minor cities in Piedmont. 6 projects funded with almost 400k€</p> <p>Call for proposal <i>Simbiosi</i> - Support to projects aimed at enhancing the quality and quantity of natural capital, protecting and restoring marine and terrestrial ecosystem in Piedmont and Liguria. 13 projects funded with almost 2.7 M€. The <i>Simbiosi</i> Phase II is going to be launched in 2024</p> <p>Total Budget: 6M€</p>	DONE/ONGOING
<p><b>Citizen Engagement on climate-environment related topics</b></p> <p>The call for proposal <i>Re:Azioni</i> has been conceived as a call to action for NGO's to promote more sustainable lifestyles in their communities, in Torino, in Piedmont, Liguria and Valle d'Aosta. Nineteen projects funded with 800k€. The first 2023 call was a sort of test of the engagement model that has been proved to be very successful in terms of increasing citizen sensibility.</p> <p>A new edition is planned for spring 2024.</p> <p>Total budget: 2M€</p>	DONE /ONGOING

<p><b>Local Energy Communities</b></p> <p>The <i>Sinergie</i> call for proposal supports for the development of Renewable Energy Communities (CER) with a social impact, through a multi-tools approach: economic support for analyses and plannings, technical and professional assistance. Ad output reached so far: 25 feasibility studies of CER (with description, organization and governance, business plan, social impact and legal form of the CER), a practical vademecum to realize a CER (in partnership with Regione Piemonte), 4 Informative videos, a one-to-one meeting service with a team of experts, in-person training on Renewable Energy Communities in partnership with Politecnico of Turin. Total budget estimate 2 M€</p> <p>Note that the self-sufficient energy communities-based RES (Renewable Energy Solutions) in an urban environment have been explored by the Foundation throughout specific Proof-of-Concept Projects. It has been proved the reduction of the greenhouse's emissions thanks to a sense of empowerment and collaboration among residents strengthening social cohesion and sustainable development initiatives at the local level.</p> <p>Total budget estimate 2.5 M€</p>	ONGOING
<p><b>Next Generation We</b></p> <p>The largest call for proposals launched by the Foundation aiming at offering a dedicated support to cities (located in the north-west of Italy) involved in the PNRR (Italian recovery and resiliency plan) with two concrete lines of activities: providing economical support for the project definition &amp; access to competences (external and additional to the organization) to deliver projects. Most of the projects founded are related to the Mission 2 of PNRR, "Green revolution and ecological transition", and deal with the important issues of energy transition, sustainable mobility, energy efficiency of buildings, pollution, with the aim of improving the overall sustainability of the economic system and ensuring a fair and inclusive transition toward the realization of a zero environmental impact society.</p> <p>32 projects founded have enabled initiatives within the Renewable Energy Communities (M2C2 - Investment 1.2 Renewable Promotion for Energy Communities and Self-Consumption) and more than 20 have proposed cycling design interventions and the strengthening of sustainable mobility in the reference territories (M2C2 Investment 4.1.2 - Urban cycle routes).</p> <p>Overall, concerning the of fields energy and environment, 55 projects have been funded with a Total Budget of 3.2 M€.</p>	DONE/ONGOING
<p><b>Evolution of Local Public Transport in Torino</b></p> <p>The Torino local public transport company GTT launched an ambitious program on future transport systems partnering with the LINKS Foundation one of the most relevant research institutions in Italy devoted to digital tech.</p> <p>"Team Mobilità Futura" has then the goal of defining a set of architectural innovation and data-driven intelligence to allow the evolution of the fleet of public transport vehicles having the goal of net zero carbon neutrality.</p> <p>Total budget 1.2 M€</p>	ONGOING
<p><b>Techstars Torino – Startups acceleration initiative</b></p> <p>Compagnia di San Paolo Foundation, in partnership with Fondazione CRT and Intesa Sanpaolo Innovation Center, funded since 2020 an accelerator program in Torino powered by Techstars, among the largest startup network in the world. After 4 editions devoted to Smart Mobility and Cities of the Future themes (2020-2023), the 2024 initiative broadens its scope to a Transformative World (2024). This evolution is set to invest in and support companies that are not only shaping the future of mobility and urban living but also those that are creating a lasting change in the world of tomorrow. Startups are one potential asset in fostering changes in the carbon-neutral direction for the continent. More than 50 startups have been supported (capital + opex)</p> <p>Total budget: 6M€</p>	ONGOING
<p><b>Strategic Custom Initiatives</b></p>	ONGOING

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FCPS is involved in a series of strategic custom projects led by the City of Torino that are paving the way for future implementation following the paradigm "from pilot to extension". In particular, worth mentioning are the restoring of a large portion of a public park (formerly devoted to plant growth) and the Strategic Plan of Torino for the valorisation of the Po river.

Totale budget: 3M€

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To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Pietro Pacini,  
as Legal Representative of CSI-Piemonte with head office in Turin, Corso Unione Sovietica 216

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. CSI-Piemonte is a Consortium of over 130 public members (including the City of Turin) operating in the field of information and communication technologies since 1977 supporting Public Administration with the mission to create digital, innovative and quality services for Public Administrations in different fields like: healthcare, production activities, cultural heritage, administrative systems, territory, professional training and work. Its services and projects adopt different technological solutions, including network infrastructures, databases, information systems and web services. CSI have joined the United Nations Global Compact and contributes to making Public Administration increasingly efficient, modern and transparent with a focus on ESG issues and UN Sustainable Development Goals of "Agenda 2030".

Within the framework of this initiative, it becomes relevant the continuous effort of the Consortium to reducing energy consumption and costs through the continuous improvement of energy efficiency. The actions are specifically focused in three directions:

- functional interventions for the development and evolution of the data center from a "green" perspective;
- redevelopment and refunctionalisation interventions of office spaces;
- interventions to increase the environmental sustainability of the CSI-Piemonte in terms of reducing energy consumption for lighting and cooling/heating, reducing the CO2 produced.

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**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the ['EU Mission for Climate-Neutral and Smart Cities'](#) label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Turin, 22<sup>nd</sup> February 2024

CSI-Piemonte  
Pietro Pacini  
The legal representative

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2030 Climate-Neutrality Commitments



**Individual Signatory Commitments**

**CSI-PIEMONTE**

**Short description of the stakeholder**

CSI-Piemonte is a consortium of local public administration, a reality of more than 1.000 employers, with IT system governance as institutional mission. It has been established by Piedmont Region law n. 48/1975 and nowadays it counts more than 130 members, belonging to the public sector, like City, University, Polytechnics of Turin. CSI operates as an *in house* providing IT services to its members and collaborates in several international projects and in R&D activities in emerging technologies fields. CSI-Piemonte has developed a high attention towards issues related to Environment, Social and Governance issues and actively promotes innovation in the public sector by offering ICT solutions that help digital services offered by local PA to be more efficient, interoperable and transparent. CSI has also a deep experience in disseminating open knowledge, facilitating its member in developing and sharing open software and open data and is able to offer a fully open source and controlled cloud platform.

**Strategy and policy at 2030**

In line with the Action Plan defined within the Energy Management System (ISO 50001:2018) and the Environmental Management System (ISO 14001:2015), with the aim of reducing energy consumption and costs and mitigate the environmental impact, CSI-Piemonte in the coming years will continue to implement a set of actions included in the Three-Year Work Plan and in the Investment Plan.

These actions, in line with the strategic planning of the Consortium and with the 2024 Activity Plan, are concentrated on three areas of intervention that characterize the current evolution of the CSI-Piemonte:

1. functional interventions for the development and evolution of the Datacenter, in line with the green objectives and the requirements deriving from the certifications obtained, based on the requirements AgID for the Data Centers constituting National Strategic Poles, in compliance with ISO/IEC 27001, ISO 22301, ISO 50001 and "ANSI TIA-942-B" Rating 3 requirements.
2. redevelopment and refunctionalisation interventions of spaces (internal and external) with the aim of contributing to the efficiency and effectiveness of production processes (with a coworking/Smart Working perspective) and with more energy efficiency and low environmental impact.
3. increase in environmental sustainability of the CSI Piedmont in terms of reduction in energy consumption and increase in green usable space, through the automation of lighting and air conditioning systems and the efficiency of water and sanitary systems.

**Supporting actions and strategies (2019-2030)**

**Macro areas**

- Energy systems    Transport    Waste    AFOLU    Stationary Energy    Cross-cutting

Below are listed the main implementation actions planned to support the three areas of intervention, identified by the three-year work plan (2024-2026) and by the 2024 investment plan.

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Description	Status
1.a) Darkening of part of the Data Center ring	Closed
1.b) Technological renewal of WI-Pie sites	In progress
1.c) Installation of new generation UPS to support the Data Center	In progress
1.d) Implementation of a new space for the expansion of the Data Center, called "Green Room", with high density and energy efficiency	In progress
1.e) The construction of the new power line B (backup in substitution of current obsolete entire electrical distribution)	In progress
1.f) Creation of a double hydraulic supply to the evaporative towers for Data Center	In progress
2.a) Increasing use of smart working	In progress
2.b) Lowering of temperature and reduction of heating period	In progress
2.c) Detachment from the current IREN district heating line and creation of a new independent line for metering of actual consumption	In progress
2.d) Consolidation of the "monumental staircase" of the CSI, in full compliance with the rules of conservation of the artistic heritage and security and safety rules	In progress
2.e) Interventions to adapt the building to the anti-seismic regulatory classification of the regional territory	In progress
3.a) Renewal of the system dedicated to the building's electrical continuity, through the installation of a new highly energy efficient UPS	Closed
3.b) Smart office lighting (through the adoption of LED lamps and installation of a home automation management system)	In progress
3.c) Implement a more efficient office cooling systems	In progress
3.d) Replacement of sanitary water system	In progress
3.e) Replacement of window frames on the internal side of the building	In progress
3.f) Implementation of electrical and thermo-hydraulic accounting and measurement tools	In progress
3.g) Redevelopment of external common green spaces	In progress

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Torino, 1 MAR 2024

n. prot. 5180-2024/7533

Rif. LAN/vi

To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Serena Lancione as legal representative of Gruppo Torinese Trasporti S.p.A. with head office in Turin – Corso Turati 19/6.

Considering that:

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Gruppo Torinese Trasporti S.p.A. (GTT) is the company that provides urban and suburban public transport services with buses, trams and subways. Within the framework of this initiative GTT will promote the following actions:

- increasing the use of electrified vehicles for urban public transportation through the implementation of two key strategies: purchase and commissioning of 70 new electric trams and 23% extension of the city tram infrastructure by 2030, from the current 78.33 kilometers to 96.19 kilometers;
- gradual renewal of the urban and suburban bus fleet purchasing electric buses, state-of-the-art natural gas and low-emission diesel vehicles (E6) to reduce the use of non-renewable fuels sources and minimize the emissions of the transport service offered. The goal is both to enhance the emission profile of the circulating urban and suburban bus fleet and to reduce the average life of buses;
- provide customized mobility services for sporting events or rallies taking place in the city of Turin and organize promotional campaigns to encourage the use of public transport over private mobility, with the aim of reducing traffic congestion and the ecological footprint of the events;

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- enhance energy efficiency and promote renewable energy through the renewal of heating systems of operational sites and the creation of photovoltaic and storage systems;
- promoting the digitalization and dematerialization of parking and travel passes to improve accessibility to Local Public Transport (LPT) in a rapidly evolving urban mobility

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 1<sup>st</sup> March 2024

Gruppo Torinese Trasporti S.p.A.

Serena Lancione

*The legal representative*  
*Serena Lancione*

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2030 Climate-Neutrality Commitments

**Appendix: Individual Signatory Commitments**

**GTT – Gruppo Torinese Trasporti S.p.A.**

**Short description of the stakeholder**

The company manages local urban and suburban public transportation.

GTT was born on 1 January 2003 from the merger of the two pre-existing Turin transport companies: ATM, operational manager of public transport in the municipal area and of the parking lots, and SATTI, operational manager of regional transport and of line 1 of the Turin metro. Turin.

The company manages a large part of the bus network, the subway and the entire tram network in the municipal area, extending several of its lines to the metropolitan area and the surrounding metropolitan city. It also manages some extra-urban bus lines for the provinces of Alessandria, Asti and Cuneo.

Also on behalf of the municipality, the company manages signage and some tourist services including the Mole Antonelliana lift, the Sassi-Superga tramway, the restaurant tram, the historic tram line 7 and the shuttle to the Venaria Reale palace.

Until 31 December 2023, GTT also managed the infrastructure of two railway lines, the Turin-Ceres railway and the Canavesana railway, which was subsequently managed by Rete Ferroviaria Italiana (RFI).

Local public transport services cover the area of Turin and 25 surrounding municipalities, registering a ridership of 640,000 customers per day with 55.6 million km traveled per year. The extra-urban transport service covers 220 municipalities and has a user base of 51,000 customers per day with 13.4 million km traveled per year.

**Strategy and policy at 2030**

**Supporting actions (2019-2030)**

**Macro areas**

- Energy systems     Transport     Waste     AFOLU     Stationary Energy     Cross-cutting

Description	Status
The initiative aims to increase the use of electrified vehicles for urban public transportation through the implementation of two key strategies: purchase and commissioning of 70 new electric trams and 23% extension of the city tram infrastructure by 2030, going from the current 78.33 kilometers to 96.19 kilometers. These actions are expected to result in an annual increase of 3.5 million kilometers traveled by trams by the end of 2030, replacing the equivalent distance covered with diesel buses and therefore reducing emissions of the urban fleet. Additionally, the renewing the tram fleet will lead to a significant improvement in quality, comfort and accessibility of vehicles compared to those currently in circulation.	ONGOING
The gradual renewal of the urban and suburban bus fleet involves purchasing electric buses, state-of-the-art natural gas and low-emission diesel vehicles (E6) to reduce the use of non-renewable fuels sources and minimize the emissions of the transport service offered. The goal is both to enhance the emission profile of the circulating urban and suburban bus fleet and to reduce the average life of buses.	ONGOING
GTT provides customized mobility services during sports events or gatherings held in the city of Turin. Additionally, GTT conducts promotional campaigns to encourage the use of public transport over private mobility, with the aim of reducing traffic congestion and the ecological footprint of the events. These promotion activities include establishing agreements with event organizers for combined ticket sales covering also transportation fares.	ONGOING
Efforts to enhance energy efficiency of GTT operational sites and to promote renewable energy are implemented in two phases. Phase 1 (2019 – 2022) involves completing connections to the city district heating network where available or replacing traditional boilers with condensing ones, transitioning to LED lighting and purchasing of 100% renewable electric energy. Phase 2 (2023-2030) includes initiatives for the automation of operational sites heating systems, completion of the replacement of traditional lighting systems with LED systems, installation of photovoltaic systems and energy storage, promotion of biofuel use and energy-saving awareness campaigns via social channels and transportation mediums.	ONGOING
The digitalization and dematerialization of parking and travel passes aim to improve accessibility to Local Public Transport (LPT) in rapidly evolving urban mobility. Technologies include web or app-based tools for trip planning, real-time public transport updates,	ONGOING

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2030 Climate-Neutrality Commitments



and 24/7 ticket purchasing and validation. These features enable citizens to seamlessly combine various modes of transportation for door-to-door journeys under the Mobility as a Service (MaaS) concept, with GTT playing a crucial role. This digital transformation not only facilitates accessibility but also contributes to environmental sustainability by reducing paper-based ticketing in favor of digital solutions like the GTT To Move app. In Phase 1 (2019 – 2022), 70.6% of parking and travel passes were dematerialized through various initiatives, including app adoption, Tap & Go payment system, and e-commerce enhancements. Phase 2 (2023-2030) targets 95% dematerialization through initiatives like upgraded validators, tariff policies, and awareness campaigns, aiming to provide customer-centric services while reducing CO2 emissions and optimizing support processes.

Gruppo Torinese Trasporti S.p.A.  
L'Amministratore Delegato  
*Serena Lancione*

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To the kind attention of Chiara Foglietta  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Prof. Ing. Bernardino Chiaia,  
as legal representative of Infratrasporti.To S.r.l. with head office in Torino – C.so Novara, 96

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Infratrasporti.To S.r.l. owns and manages infrastructure and to engineer, plan, construct and develop facilities, systems and infrastructure, including railways for passenger and freight transportation (both public and private). Within the framework of this initiative Infra.To is building an extension of the living metro (Line 1) and is going to build a new metro line (Line 2). The second metro line is designed with environmental sustainability criteria and for the achieving environmental objectives against the climate change, the conservation and recovery of biodiversity for a better quality of life and human health. The empowerment of the metro lines will so reduce more the cars circulation and, accordingly, the related exhausted gas emission. In different citizen area touched by the metro new trees are planted. As parallel project, so to improve the alternative circulation, bike stations are planned in both the lines. In addition photovoltaic panels will be fitted above the deposit buildings and in identified urban areas.

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the ['EU Mission for Climate-Neutral and Smart Cities'](#) label will be awarded

Infratrasporti.To S.r.l. (Società a Socio Unico Città di Torino)  
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- to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 19th February 2024

Infratrasporti.To S.r.l.  
The Legal Representative  
Prof. Ing. Bernardino Chiaia



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2030 Climate-Neutrality Commitments



### Individual Signatory Commitments

#### INFRATO - Infratrasporti.To S.r.l.

##### Short description of the stakeholder

Infratrasporti.To S.r.l. is one of the most important public companies in Europe capable of managing the entire cycle of engineering activities, from surveys and feasibility studies to work management and testing.

The company is owned exclusively by the City of Turin and it was created on 1 October 2010, following the spin-off scission of the business unit Gruppo Torinese Trasporti S.p.A.

InfraTo aims to own and manage infrastructure and to engineer, plan, construct and develop facilities, systems and infrastructure, including railways for passenger and freight transportation (both public and private).

The City of Turin also conferred upon Infratrasporti.To S.r.l. the assets of Line 1 of the Turin Automatic Underground (13.2 km) and the N. 4 Tramway line (18 km) and the n. 16 Tramway line.

##### Strategy and policy at 2030

Improve the public rail transport with a new metro line and extending the existing one, and with also a requalification of the current transport estate.

##### Supporting actions and strategies (2019-2030)

###### Macro areas

Energy systems     Transport     Waste     AFOLU     Stationary Energy     Cross-cutting

Description	Status
Metro Line 1 – built an extension of the living metro with two new stations (Italia 61 and Bengasi)	DONE
Metro Line 1 - delivery of over 450 trees to the municipal vivarium, to compensate for the 38 fellings carried out during the start of construction work on the section of the metro from Lingotto to Piazza Bengasi.	DONE
Metro Line 1, north-west extension - reduction of cars circulation and related exhausted gas emission (CO2)	ONGOING
Metro Line 1 – Construction of a station for 96 bikes in a covered area of 150 mq	DONE
Metro Line 1 – Installation of photovoltaic panels above the deposit building	ONGOING
Construction of Metro Line 2, with environmental sustainability criteria and with attention to achieving environmental objectives and combating climate change, the conservation and recovery of biodiversity and a better quality of life and human health.	ONGOING
Metro Line 2 - Urban area redevelopment and 700 new trees planted	ONGOING
Metro Line 2 - Installation of photovoltaic panels in an urban area and above the deposit building	ONGOING
Metro Line 2 – Construction of a bike station	ONGOING
Tram Line 12 – Extension using a protected and partially underground route	ONGOING
Company cars – renewal with hybrid ones	ONGOING

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Arrivo: AOO 074, N. Prot. 00001829 del 22/02/2024

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To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

Intesa Sanpaolo,  
Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the **'100 Climate-Neutral Cities by 2030 - by and for Citizens'** programme. This commitment will be formalised by submitting the **"Climate City Contract"** to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Intesa Sanpaolo is one of the top banking groups in Europe, with a significant ESG commitment, a world-class position in social impact and strong focus on climate. The Group is at the forefront in promoting and supporting sustainability development, with a special focus on climate change, also thanks to the implementation of energy efficiency initiatives and the reduction of both direct and indirect Greenhouse Gases Emissions (GHG). The Bank has developed dedicated financing products and services and has made available credit platforms to support the green and circular economy and the ecological transition, and promotes ESG culture diffusion initiatives. The ESG/climate commitment is embedded in the 2022-2025 Business Plan which dedicates one of its four strategic pillars to ESG issues. The Group's initiatives include specific actions in the Turin area, through the Banca dei Territori and IMI-CIB business units and the Intesa Sanpaolo Innovation Center subsidiary.

#### EXPRESSES ITS INTEREST

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the **'EU Mission for Climate-Neutral and Smart Cities'** label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

The contact people for Intesa Sanpaolo are:

- Elena Flor – Head of ESG & Sustainability, [elena.flor@intesasanpaolo.com](mailto:elena.flor@intesasanpaolo.com)
- Stefano Cappellari – Head of Regional Department Piemonte Nord, Valle D'Aosta e Sardegna, Banca dei Territori Division, [stefano.cappellari@intesasanpaolo.com](mailto:stefano.cappellari@intesasanpaolo.com)
- Andreas Karl Feiler – Head of Nord Ovest Region, IMI Corporate & Investment Banking Division, [andreas.feiler@intesasanpaolo.com](mailto:andreas.feiler@intesasanpaolo.com)

Turin, 4 March 2024

Intesa Sanpaolo  
Elena Flor

**Intesa Sanpaolo S.p.A.** Registered Office: Piazza S. Carlo, 156 10121 Torino Italy Secondary Registered Office: Via Monte di Pietà, 8 20121 Milano Italy Share Capital Euro 10,368,870,930.08 Torino Company Register and Fiscal Code No. 00799960158 "Intesa Sanpaolo" VAT Group representative Vat Code No. 11991500015 (IT1991500015) Included in the National Register of Banks No. 5361 ABI Code 3069.2 Member of the National Interbank Deposit Guarantee Fund and of the National Guarantee Fund and Parent Company of the banking group "Intesa Sanpaolo" included in the National Register of Banking Groups

Copia del documento originale con apposizione del protocollo



2030 Climate-Neutrality Commitments



## Individual Signatory Commitments

### GRUPPO INTESA SANPAOLO

#### Short description of the stakeholder

The Intesa Sanpaolo Group is one of the top banking groups in Europe with a significant ESG commitment, a world-class position in Social Impact and strong focus on climate. It's the leading banking group in Italy, with 13.6 million customers and over 3,300 branches, and the leading provider of financial products and services to both households and enterprises in Italy.

Intesa Sanpaolo has a strategic international presence, with over 900 branches and 7.2 million customers, comprising subsidiaries operating in commercial banking in 12 countries in Central Eastern Europe and Middle Eastern and North African areas and an international network of specialists in support of corporate customers across 25 countries, in particular in the Middle East and North Africa and in those areas where Italian companies are most active.

As at 31 December 2023, the Intesa Sanpaolo Group had total assets of 963,570 million euro, customer loans of 429,540 million euro, direct deposits from banking business of 576,136 million euro and direct deposits from insurance business of 172,746 million euro.

Environmental protection and attention to climate change are key dimensions of the Intesa Sanpaolo Group's responsibility and the importance of this commitment is first of all reaffirmed in the group's values and policies. Clear examples are the [Code of Ethics](#), the [Rules for the environmental and energy policy](#), the [Rules on Green Banking Procurement](#), the [Guidelines for the governance of environmental social and governance risks \(ESG\)](#) and, in order to support the transition to a low-carbon economy, the [Rules for the coal sector](#) and the [Rules for lending operations in the unconventional oil&gas sector](#).

Thanks to these foundations, the Bank is able to set up action plans and processes that enables the integrated and effective management of environmental risks and opportunities.

#### Strategy and policy at 2030

In 2021, Intesa Sanpaolo (ISP) has chosen to pursue the "Net Zero" goal by 2050 - for its own emissions, for loans and investments portfolios, asset management and insurance businesses - by joining the Net-Zero Banking Alliance (NZBA) and: through Eurizon Capital SGR, Fideuram Asset Management SGR and Fideuram Asset Management Ireland, the Net Zero Asset Managers Initiative (NZAMI); through Intesa Sanpaolo Vita, the Net-Zero Asset Owner Alliance (NZAOA) and the Net-Zero Insurance Alliance (NZIA).

In February 2022 ISP launched the new 2022-2025 Business Plan, that has one of the four strategic pillars entirely dedicated to ESG also with a strong focus on climate strategy for combating climate change.

In line with the Net Zero commitment, in the 2022-2025 Business Plan the Group has published interim 2030 targets for financed emissions in four high priority sectors (oil and gas, power generation, automotive and coal mining, the latter with a phase out policy by 2025) and has committed to reach carbon neutrality already by 2030, with 100% of electricity purchased from renewable sources. Furthermore, ISP announced a commitment to protect and restore natural capital, preserving and planting up to 100 million trees over the four-year period directly as a Group and with dedicated financing for its clients.

#### Supporting actions and strategies (2019-2030)

Intesa Sanpaolo undertakes to observe the principles of sustainable development and has adhered to important international initiatives aimed at promoting dialogue among firms, international organisations and society in general, and to pursue respect for the environment and human rights.

Copia del documento originale con apposizione del protocollo

Macro areas  
 Energy systems    Transport    Waste    AFOLU    Stationary Energy    Cross-cutting

Description	Status
United Nations Programme for the Environment of the Financial Sector (UNEP FI) - Intesa Sanpaolo has been participating since 2007 to this initiative, that aims to involve a wide range of financial institutions in a constructive dialogue on economic development, environmental protection and sustainable development.	ONGOING
Task Force on Climate-related Financial Disclosure (TCFD) - Established in December 2015 by the Financial Stability Board (FSB), in June 2017 the TCFD published eleven recommendations to promote transparent risk reporting and opportunities related to climate change for businesses. It was disbanded during COP28 and its responsibilities in terms of financial reporting on climate issues have been transferred to the International Sustainability Standards Board (ISSB).	ONGOING
UNEP FI – Principles for Responsible Banking (PRB) - Intesa Sanpaolo is a signatory of the program, that aims to bring the banking sector closer to the UN Sustainable Development Goals and the 2015 Paris climate agreement.	ONGOING
UNEP FI – Principles for Sustainable Insurance (PSI) – A program for the insurance sector, with the aim of addressing risks and opportunities related to environmental, social and governance issues. The Intesa Sanpaolo Group adheres to the Principles as a signatory through Intesa Sanpaolo Vita.	ONGOING
UNEP FI – Principles for Responsible Investment (PRI) - Principles on the integration of ESG criteria in investments, born from the partnership between UNEP FI and the Global Compact. The Intesa Sanpaolo Group adheres to the Principles as a signatory through Eurizon Capital SGR, Fideuram Asset Management SGR, Fideuram Asset Management (Ireland) and the Group Pension Fund.	ONGOING
Equator Principles - In 2007, the Group adopted these guidelines for the assessment and management of social and environmental risk in projects based on the criteria of the International Finance Corporation, an organization of the World Bank.	ONGOING
CDP – Independent non-profit organization that provides companies and countries with a global system of information on climate change. Membership of CDP encourages the diffusion of information on emissions and the management of risks and opportunities associated with climate change. Intesa Sanpaolo and Eurizon Capital SGR have joined the CDP as investor signatories.	ONGOING
Institutional Investors Group on Climate Change (IIGCC) – European association of institutional investors on climate change issues, to help define public policies, investment practices and corporate conduct, in order to address the long-term risks and opportunities associated with climate change. The Group participates through Eurizon Capital SGR, Fideuram Asset Management SGR and Fideuram Asset Management Ireland, who also participate in engagement initiatives such as Net Zero Engagement Initiative, Climate Action 100+ and Nature Action 100.	ONGOING
European Clean Hydrogen Alliance - Promoted by the European Commission as part of the pursuit of EU objectives on climate change, since 2020 the initiative has supported the large-scale deployment of technologies related to renewable and low-carbon hydrogen production by 2030.	ONGOING

To give concrete support to the green and circular economy and the ecological transition, the Group has developed a diversified offer of financing and consulting products, dedicated to all types of customers, for which it has made available € 88 billion, including € 76 billion<sup>1</sup> in relation to the areas of application of Mission 2 of the National Plan Recovery and Resilience Plan (NRRP) and € 12<sup>2</sup> billion of new green credit to individuals.

In addition, to support the sustainable transformation of companies through the development of a new sustainability-oriented corporate culture and the acquisition of specific skills, the Bank has designed a wide-ranging proposal of training and coaching programmes, ESG workshops and laboratories. Some of these initiatives are specifically dedicated to the Turin area.

<sup>1</sup> In 2021-2026.  
<sup>2</sup> In 2022-2025.

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Macro areas  
 Energy systems    Transport    Waste    AFOLU    Stationary Energy    Cross-cutting

Intesa Sanpaolo Innovation Center (ISPIC) is the Intesa Sanpaolo Group company, based in Turin, dedicated to the frontiers of innovation, also according to the criteria of Circular Economy. In particular it analyses future trends with studies and publications (e.g., Decarbonization Report) and generates know-how through multidisciplinary applied research projects and initiatives focused on climate change and spreads the culture of innovation by promoting the dissemination of knowledge and best practices through events and educational formats. It supports corporates and startups in their transformation path towards decarbonization and promotes the development of innovation ecosystems. It adopts Circular Economy criteria for evaluating the investments of the Bank's client companies to be financed by Intesa Sanpaolo through the Circular Economy Plafond and leverages open innovation methodologies to accelerate the re-design of companies' production processes contributing to their decarbonisation and sustainable transition targets. In partnership with Fondazione Compagnia di San Paolo, Fondazione Sviluppo e Crescita - CRT and Techstars, ISPIC supports the growth of the innovation ecosystem and strengthen Turin's strategic positioning as an attractive international hub focused on sustainable topics. Since 2019 it launched acceleration programs dedicated to Smart Mobility and Smart Cities with particular attention to decarbonization, sustainability and circular economy, collecting over 1,500 applications from 60 countries, also leveraging Turin municipality technological infrastructures (Torino City Lab and CTE Next).	ONGOING
The Bank offers Green - Mutuo Domus: a mortgage loan with preferential conditions (reduction of the APR/ANIR/TAN in Italian - and free energy certification for renovation purposes) that allows the purchase and construction of a residential property in Italy in high energy class (equal to or higher than B) or the renovation of a residential property in Italy with an improvement of at least one energy class. In 2023, around 9,700 green mortgages were disbursed, for a consideration of around €1.5 billion (around 15,650 for over €2.6 billion in 2022); for the Turin City properties the green mortgages amounted to €15 million in 2023. Thanks to the disbursements of Green Mortgages, Intesa Sanpaolo supports the forestry project Think Forestry wants to create woods and forests following the characteristics of the territory by donating 30 euros for each Green mortgage disbursed from 1 January 2024 to 31 December 2024, i.e. until the collection target is reached.	ONGOING
ESG Labs are physical and virtual meeting places for supporting Italian businesses in their sustainable transition with positive impacts on the environment and people. The Labs, together with the local institutions that took part, encourage discussion and raise awareness of ESG issues among businesses and supply chains through in-depth meetings and workshops. After the launch event of the Turin ESG Lab, held on 17 July 2023 in collaboration with Intesa Sanpaolo Innovation Center, the Turin Chamber of Commerce, Industry, Crafts and Agriculture and the Turin Order of Chartered Accountants and Accounting Experts, other awareness-raising and information events were scheduled: <ul style="list-style-type: none"> <li>on 28 February 2024 on the topic of the digital revolution and sustainability, which are key assets for competitiveness,</li> <li>in May 2024 on the topic of 'Waste Management'.</li> </ul>	ONGOING

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With the Programma Sviluppo Filiere (Supply Chain Development Programme), the companies of all sectors and sizes in facilitating access to credit and focuses on the between the lead companies and their network of direct and indirect suppliers and, enabling a more accurate understanding of the financial needs of individual supply the Programme, the Bank has decided to develop product and dedicated offerings f impacted by the National Recovery and Resilience Plan (NRP), including in the areas digitisation.

With regard to the ESG sphere, from April 2023, the programme Sviluppo Filiere - F accompanies the lead and supply chain companies in the process of improving their profile. Six 'sustainable supply chain' agreements have been signed in the Turin are: Sanpaolo Group and some of the most prestigious companies Italy that are at the h chain or similar.

To spread the sustainability awareness, Intesa Sanpaolo Group realized some event as:

- In January 2023, with the support of the Intesa Sanpaolo Innovation Cente and smart building" was organised to facilitate meetings between compan construction sector and start-ups with new sustainable technologies.
- In November 2023, together with ANCE, the event "Sustainability for const and ESG criteria in relations with the credit system" on the relationship be parameters and the bank "rating" for construction companies.
- In January 2024, the Agribusiness Global Summit event of Gambero Rosso, Sanpaolo is the main partner, held at the auditorium of the Intesa Sanpaol dedicated to 'Sustainability as a growth factor for companies in the agri-fo dedicated to the potential of the productive fabric of our country, to supp strategic development.
- From September 2023 to February 2024, the exhibition dedicated to the d photography project 'Luca Locatelli. The Circle', whose images address twc pressing issues of our time: the circular economy and ecological transition. recount good practices and experiments to safeguard the survival of the pl solutions and actions taken to protect, sustain and restore natural ecosyst

Macro areas  
 Energy systems  Transport  Waste  AFOLU  Statio

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Macro areas  
 Energy systems  Transport  Waste  AFOLU  Stationary Energy  Cross-cutting

In 2022 Intesa Sanpaolo drafted an Own Emissions Plan, to replace the previous Climate Change Action Plan, which identifies emissions reduction target consisting of two sub-targets for 2030: 100% of electricity purchased from renewable sources (already achieved in Italian branches and buildings in 2021) and a reduction of at least 53% in Scope 1 and 2 Market-Based emissions compared with 2019. Remaining emissions at 2030 will be offset with specific projects. Actually, all the building that are in the city of Turin are totally powered by renewable energy, including the Headquarter of Intesa Sanpaolo. This building has the Leed certification level Platinum in the "construction" category and the Leed certification level Platinum in the category "sustainable management" building.

ONGOING

Macro areas  
 Energy systems  Transport  Waste  AFOLU  Stationary Energy  Cross-cutting

Within the "Think Forestry" project dedicated to reforestation and the protection of natural capital in collaboration with Rete Clima, in 2023 Intesa Sanpaolo launched reforestation activities in Turin on November 14 (1,500 trees planted in Parco Colletta) and in Rome on December 16 (approximately 1,000 trees). Starting from February 2024 all private individuals may support the initiative through **For Funding**, the Intesa Sanpaolo crowdfunding platform.

ONGOING

Macro areas  
 Energy systems  Transport  Waste  AFOLU  Stationary Energy  Cross-cutting

To support a more sustainable commuting of employees, Intesa Sanpaolo proposes a wide range of travel options provided by the Home-Work Travel Plans. A specific Plan has been developed for the Turin city.

ONGOING

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**Iren S.p.A.**  
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irenspa@pec.grupporen.it  
Capitale Sociale i.e. Euro 1.300.931.377,00  
Registro Imprese di Reggio Emilia,  
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Società partecipante al Gruppo IVA Iren  
Partita IVA del Gruppo 02863660399

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Prot. N° IR000619-2024-P

*To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy*

The undersigned Luca Dal Fabbro

As legal representative of Iren S.p.A with head office in Reggio Emilia, Via Nubi di Magellano, 30

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the **'100 Climate-Neutral Cities by 2030 - by and for Citizens'** programme. This commitment will be formalised by submitting the **"Climate City Contract"** to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Iren is one of Italy's leading multi-utility companies, active in the sectors of electricity, gas, district heating, integrated water and environmental services management and integrated solutions for energy efficiency. Within the framework of this initiative, as better described in the Stakeholder Annex, Iren Group is involved in several activities and interventions aimed at reducing GHG emissions, with reference to: energy efficiency improvement in about 800 public buildings (schools, offices, libraries..), renovation and replacing of public lighting fixtures (including historical and decorative ones) with new low-consumption LED lamps, the expansion of heated volumes served by its district heating network, by saturation of served areas and additional connections in new neighbourhoods, studying at the same time new processes for further increase the rate of renewable heat in the overall supply.

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the **'EU Mission for Climate-Neutral and Smart Cities'** label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 20<sup>th</sup> February 2024

*Iren S.p.A  
Luca Dal Fabbro  
The legal representative*

*[digitally signed]*

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2030 Climate-Neutrality Commitments



### Appendix: Individual Signatory Commitments

#### IREN S.p.A.

**Short description of the stakeholder**

Iren S.p.A. is a multi-utility company, specializing in the production and distribution of electricity, district heating services (of which it is the largest operator in Italy), integrated water services management, and environmental and technological services.

**Strategy and policy at 2030**

Iren's Strategic Plan includes investments for 10.5 billion euros by 2030 on three main pillars: Ecological Transition, Territoriality and Service Quality. The ecological transition acceleration is based on the different stream, starting from the development of new renewable capacity (solar and wind) also through the realisation of widespread energy communities. These actions combined with the decarbonisation initiatives of all other businesses will allow Iren to halve its carbon intensity in energy production.

For the ecological transition, Iren Group is committed to become a national leader in the circular economy through an increase in the percentage of sorted waste collection rate, that is expected to reach 76% in 2030 on served areas, enhancing, at the same time, material end energy recovery by developing new waste selection and treatment plants. Finally, Iren has always paid particular attention to the virtuous use of water resources, already reporting a much lower percentage of losses than the Italian average and committing itself to reduce them further, reaching 20% in 2030.

In terms of service quality and territoriality, the ambition is to be a reference partner for municipalities by improving the quality of public services offered and expanding their portfolio: energy efficiency, electric mobility, urban and infrastructure redevelopment and energy communities development.

**Supporting actions (2019-2030)**

**Macro areas**

- Energy systems
- Transport
- Waste
- AFOLU
- Stationary Energy
- Cross-cutting

Description	Status
The <i>EfficientTO</i> project involves a total investment of 110 million euros over a seven-year period. These funds will be allocated to the improvement of about 800 buildings located in the city of Turin. The planned actions include targeted interventions on thermal/mechanical systems, encompassing heating, cooling, air treatment, and hot water production. Additionally, there is a proposed intervention on the electrical system, with a focus on lighting and generation from renewable sources. Other interventions pertain to the building envelope, with particular attention to insulation and windows.	ONGOING
The project <i>TO-LED2</i> involved replacing lighting fixtures equipped with discharge lamps with LED fixtures, as well as replacing incandescent traffic signal lanterns with LED ones. Specifically, it included the replacement of 890 discharge lamps with 275W LED lamps, the redesign of lighting systems in city underpasses, and the replacement of over 12,000 incandescent traffic signal lanterns with LED ones. Additionally, more than 400 control units for traffic signal intersections were replaced with LED units. Before the intervention, energy consumption was 15.2 million kWh, which decreased to 4.9 million kWh after the intervention, resulting in energy savings of 10.3 million kWh.	EXECUTED
Project <i>TO-LED3</i> involves the conversion to LED lighting systems, including historical and decorative fixtures, as well as series installations and floodlights for lighthouses. The project entails replacing 26,580 various types of discharge lamps with 100W LED lamps and 6,638 historical lamps with 50W LED lamps, ensuring specific lighting designs for each street. Before the intervention, energy consumption was 23.7 million kWh, which decreased to 15.1 million kWh post-intervention, resulting in energy savings of 8.6 million kWh.	PLANNED
Concerning district heating, the latest Industrial Plan (2023-2030) projects a volume increase of approximately 12.5 Mm <sup>3</sup> solely within the Municipality of Turin. This expansion will be realized through ongoing saturation in previously serviced areas, additional connections in neighborhoods such as Borgo Vittoria, Madonna di Campagna, and San Salvario, the expansion of services in the northern zone along Corso Grosseto, the northeastern area encompassing neighborhoods like Falchera, Rebaudengo, Regio Parco, and Barriera di Milano, as well as the extension of services into the Valdocco and Borgo Dora areas. In addition, IREN has launched a joint working group with Politecnico di Torino, named "Green District Heating", and an overall investment in R&D of 1 €mln, in order to study new processes for further increase the rate of renewable heat in Turin District Heating Network.	PLANNED

6.v. 90.v. 1\_2024/074.sfa, 074.arm, 20/2024/074.fra, 074.arm, 5.nd

Arrivo: AOO 074, N. Prot. 00002348 del 06/03/2024

To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Paolo Gallo, as legal representative of Italgas S.p.A. with head office in Milan, via Carlo Bo, 11.

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Italgas is the leading gas distribution Company in Italy and third in Europe. Founded in 1837 as the "Gaz Lighting Company for the City of Turin", the Italgas Group, through its companies such as Italgas Reti, Medea, Toscana Energia in Italy, and Enaon in Greece, operates today more than 81,000 km of networks serving about 8 million users. Alongside its core business as a gas distributor, Italgas is also active in the energy efficiency sector with the ESCo, Geoside, and has also recently concluded the acquisition of Veolia's assets, aiming at strengthening the Group presence in the water sector. Within the framework of this initiative, Italgas is committed to initiatives involving the repurposing and digitalization of the natural gas distribution network and has planned energy efficiency interventions in Turin, also with the support of the Group's ESCo Geoside (for further information about the projects, please see Annex n.2). We reserve the right to integrate what is communicated hereby through further supplementary communications.

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino,

*Italgas S.p.A.*  
**Paolo Gallo**  
The legal representative



Firmato da Paolo Gallo  
Data: 05/03/2024  
17:52:28 CET

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### Individual Signatory Commitments

#### ITALGAS S.P.A.

**Short description of the stakeholder**

Italgas is the leading gas distribution Company in Italy and third in Europe. Founded in 1837 as the "Gaz Lighting Company for the City of Turin", the Italgas Group, through its companies such as Italgas Reti, Medea, Toscana Energia in Italy, and Enaon in Greece, operates today more than 81,000 km of networks serving about 8 million users. Alongside its core business as a gas distributor, Italgas is also active in the energy efficiency sector with the ESCo, Geoside, and has also recently concluded the acquisition of Veolia's assets, aiming at strengthening the Group presence in the water sector.

**Strategy and policy at 2030**

As natural gas distributors, we are called to meet the energy needs of our users in a sustainable manner. For this reason, we are committed to the continuous improvement of infrastructure with the goal of making them digital, enabling Italgas to facilitate the distribution of green gases and become a facilitator of the energy transition. Through the enhancement of ESCo Geoside's activities and the reduction of the Group's energy consumption and emissions, Italgas also aims to strengthen its role as an active player in the fight against climate change.

**Supporting actions and strategies (2019-2030)**

**Macro areas**

- Energy systems
- Transport
- Waste
- AFOLU
- Stationary Energy
- Cross-cutting

Description	Status
In line with the objectives of the Strategic Plan and the Sustainable Value Creation Plan, we are committed to initiatives involving the repurposing and digitalization of the natural gas distribution network. The aim is to facilitate the distribution of green gases such as biomethane and green hydrogen.	Ongoing
In alignment with the corporate objectives, we have planned energy efficiency interventions (both managerial and system-related) for our real estate portfolio.  Since 2019, there has been a restructuring and redevelopment effort for the two properties at Largo Regio Parco 9 and 11, focusing on energy efficiency. Monthly trends and consumption patterns are regularly monitored and evaluated to ensure a continuous reduction in energy consumption.  Ongoing control activities involve the use of cutting-edge technologies such as building management systems, with the support of the Group's ESCo Geoside to optimize energy usage for the mentioned properties.  Currently, there is an ongoing renovation of the five buildings comprising the approximately 10,000 sqm complex at Corso Regina Margherita. The project involves creating state-of-the-art properties equipped with digital management systems (BMS) to ensure optimal efficiency in terms of consumption and emissions.  Additionally, an integrated photovoltaic system with a capacity of around 700 kWp for self-consumption is planned.  Simultaneously with the area renovation, the distribution of city offices will be optimized by centralizing resources in the new building complex mentioned above, which is more high-performing and efficient.	Ongoing

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www.realegroup.eu

To the kind attention of

**Chiara Foglietta**

Deputy Mayor for Ecological Transition

City of Torino, Italy

**Object: European Mission "100 Climate-Neutral and Smart Cities by 2030" - expression of interest to support the City of Turin to achieve the Climate neutrality goal**

The undersigned Luca Filippone as Group General Manager of Reale Group with head office in Torino (Italy), 11, Via Corte d'Appello

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Reale Group is an International and multi-service Group operating in Italy, Spain, Chile and Greece, through the Parent Company Società Reale Mutua di Assicurazioni and its subsidiaries. Through its companies, the Group operates in the insurance, real estate, health, and financial services sectors. The Holding Company Reale Mutua is a mutual insurance company and Benefit Corporation (*Società Benefit*).
- iv. Within the framework of this initiative Reale Group commits to "Mitigating environmental impacts of the Company activities, in order to protect the environment and ecosystem" as *foreseen* by the Common Benefit Purpose n°4 stated in the bylaws of the Group Parent Company Reale Mutua Benefit Corporation. Specifically, Reale Group commits to contributing to the City Ambition within the following areas:

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**Transportation:** development of innovative and sustainable home-work mobility plans that measure and reduce the environmental impact resulting from the commuting habits of its employees to reduce polluting emissions, improve traffic congestion and reduce road accidents in the context of home-work travel.

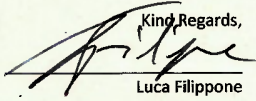
**Waste:** adoption of strategies and practices that maximize the recycling, reconditioning and re-use of resources, encourage waste recycling with the aim of facilitating the waste disposal process and promote environmental awareness and active involvement of employees and citizens.

**Energy efficiency:** development of strategies and policies aimed at optimising the energy consumption of workplaces and buildings owned by the Group, accelerating the energy efficiency and renovation of existing buildings in the perspective of a steady evolution towards zero-emission buildings.

**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 22nd February 2024

Kind Regards,  
  
 Luca Filippone  
 Group General Manager of Reale Group



Arrivo: AOO 001, N. Prot. 000003889 del 26/02/2024

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## Individual Signatory Commitments

### REALE GROUP

#### Short description of the stakeholder

Reale Group is an International and multi-service Group present in Italy, Spain, Chile and Greece, through the Parent Company Società Reale Mutua di Assicurazioni and its subsidiaries. Through its companies, the Group operates in the insurance, real estate, health, and financial services sectors.

The Holding Company Reale Mutua is a mutual insurance company.

In the past almost 200 years, Reale Mutua has been carrying out its activities with a sense of responsibility, respecting its commitments to its Stakeholders and creating and distributing value for the community and territory through a business model based on its founding principles, Mutuality and Sustainability.

This approach finds expression in the Group's Purpose: "*Taking care of people for a better world, together*".

Sustainability is a distinctive feature of Reale Group's strategic positioning. With this in mind, the Parent company Reale Mutua was the first company in the Group to acquire, in 2021, the qualification of Benefit Corporation (*Società Benefit* according to Italian law 28<sup>th</sup> December 2015, n°208), determining a further evolution of the strategy already adopted in recent years towards an "impact driven" business model.

Following the acquisition of the status of Benefit Corporation, Reale Mutua changed its bylaws and defined six Common Benefit Purposes. In particular, Common Benefit Purpose n° 4 is dedicated to the Environment and consists in *mitigating environmental impacts of the Company activities, in order to protect the environment and ecosystem* and more specifically:

- Increasing Financial Resources allocated on art. 9 of the SFDR Regulation (Sustainable Investments)
- Reduction of CO2 Emissions
- Mitigation of the depletion of natural resources
- 100% compensation of CO2 emissions produced.

#### Strategy and policy at 2030

Reale Group's Sustainability Strategy is rooted in the principle of mutuality that has distinguished the Company for almost 200 years and is guided by the Sustainable Development Goals of the United Nations 2030 Agenda (SDGs). This strategy is part of the Industrial Plan through six strategic streams: Capital, Technology, Digital Transformation, People, Internationalization and Customer Centricity.

Reale Group integrates sustainability objectives into business processes by adopting an "impact driven" business model that considers and integrates ESG aspects ex ante as relevant assets in planning, designing, risk analysis and investment processes. This model is based on the generation of intentional, measurable, and additional impacts along the entire value chain, thus contributing to the achievement of SDGs.

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Reale Foundation, the Corporate Foundation of Reale Group, also develops its activity, in line with the values and identity of the Group, supporting, in a constant international dialogue between Italy, Spain and Chile, more and more initiatives with high social and environmental impacts that can develop according to a model of self-sustainability.

#### Supporting actions and strategies (2019-2030)

##### Macro areas

- Energy systems     Transport     Waste     AFOLU     Stationary Energy     Cross-cutting

Description	Status
<p>The Group's commitment towards the environment has always been transversally present in the Group's strategy and business model. In 2012, Reale Mutua was the first Italian insurance company to voluntarily obtain the UNI EN ISO 14001 Environmental Certification; in the following years this approach was gradually extended to all Group companies and to several insurance agencies in Italy, Spain and Chile.</p> <p>Through its Environmental Management System Reale Group:</p> <ul style="list-style-type: none"> <li>- identifies and assesses the direct and indirect impacts of its organisation on the environment;</li> <li>- measures and, where possible, mitigates or offsets the Group's direct and indirect environmental impacts;</li> <li>- ensures the analysis and compliance with environmental laws and regulations;</li> <li>- periodically reports the trend of its environmental indicators and the related actions taken to optimize consumption;</li> <li>- has a positive influence on its business partners through the application of its Supplier Code of Conduct, which requires a responsible socio-environmental conduct;</li> <li>- involves the Agencies to create an effective channel of propagation of the values that Reale Group promotes.</li> </ul> <p>In 2021, Reale Mutua was the first company in the Group to acquire the qualification of Benefit Company, committing to pursuing the 'benefit purpose' aimed at generating, together with economic profit, intentional, measurable, and additional impacts towards all Stakeholders and introducing 6 Common Benefit Purposes in the Parent Company's bylaws setting specific objectives also in the environmental sphere.</p> <p>In March 2023, Reale Group subscribed to the United Nations Principles for Sustainable Insurance, committing to integrating ESG risks and opportunities into its decision-making process and throughout its value chain.</p> <p>In 2023, Reale Group involved some internal stakeholders in a process to update the materiality analysis. The analysis was conducted considering both the Impact Materiality (or inside-out) perspective and the Financial Materiality (or outside-in) perspective and focusing the materiality analysis on the identification of positive impacts and negative, actual and potential, connected to the Group's activities, on the economy, people and the environment. «Direct Environmental Impact and Climate Change» have emerged among the most relevant material themes, in line with the sustainability macro-trends and the rising Stakeholder's interest to these aspects.</p> <p>The Group's commitment to the environment is expressed through the definition of the following actions:</p>	<b>PERMANENT</b>
<p>Offsetting 100% of the Group's greenhouse gas emissions. Those emitted in 2023 were entirely offset through the "Landfill Gas Project" in Chile, a project that transforms biogas in renewable energy, for a total of 3.725 tonnes of CO2-equivalent offset.</p>	<b>DONE</b>
<p>With a view to mitigating CO2 emissions, Reale Group is progressively replacing the company car fleet and commercial vehicles with hybrid, electric or plug-in cars, which in 2023 constitute 76% of the fleet of Italian companies.</p>	<b>IN PROGRESS</b>
<p>- developing new projects on sustainable investments and products.</p>	<b>IN PROGRESS</b>

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With regard to investments, the environmental strategies pursued are:	
1. Exclusion: no investments are made in companies involved in serious environmental disputes and in States that have not ratified the Paris Climate Agreement;	
2. Impact investing: increases the share invested in green bonds, investments that have the declared intention to generate both a financial return and a positive, concrete and measurable environmental impact.	
Regarding the objective of mitigation of climate change, in the first quarter of 2023 Reale Mutua renewed the product "Ecologica Reale" dedicated to the coverage of photovoltaic, wind and solar thermal energy production plants.	DONE
"You Go! Impresa Energie Rinnovabili" is a new product from Banca Reale which supports business in investments for the purchase or construction of renewable energy production plants for direct use or for the sale of energy.	DONE
"You Go! Finanziamento Condominio". The solution to plan change and give new life to residential buildings. Extraordinary maintenance, replacement of old equipment, seismic and energy adjustments: all the expenses to be incurred for small and large projects become easier to bear.	DONE
Reale Mutua and Italiana Assicurazioni adhere to the "Pool Ambiente" ("Environment Pool") in order to offer to their customers insurance coverage for environmental damage resulting from civil and environmental liability.	DONE
In the following years, the Group will work on the development of taxonomy-aligned products for both the insurance (green products) and banking sectors and on the development of products with environmental/social benefits (not necessarily taxonomy-aligned).	IN PROGRESS
- Reale Group has adopted a Group Travel Policy that encourages the use of public transports for business travels.	DONE
- Reale Group is constantly committed to reduce the environmental impact of its operations. The Group constantly monitors its water, electricity and waste consumption, and set annual reduction goals.	IN PROGRESS
Reale Group implemented the following actions to reduce its environmental impact: - operating of a geothermic system in the headquarter - modernization of the first wall box system - improvement of the management of the rainwater system - relamping of the Company Recreational Centre - increasing of the number of photovoltaic panels to boost the self-production of energy in the Company Recreational Centre.	DONE
In January 2024 the Group kicked off a waste optimization project that uses AI technology and evolved scanning methods in order to monitor the level of waste depletion as a test in one of the Turin office buildings.  The objective of the project is to collect relevant data useful to identify any room for improvement in the level and quality of separate waste collection, whilst providing employee training on best recycling practices and increasing the awareness on recycling principles and trigger a virtuous change in behaviour.	IN PROGRESS
Another relevant project of the Group is "Re-Cig" a recycling system contributes to mitigating the polluting effect of cigarette stubs by collecting them in order to recycle them into cellulose acetate that can be used to produce new objects.	IN PROGRESS
Over the past 2 years, Reale Group has started a process of gradually migrating its IT infrastructure from server to cloud. This action has significantly reduced the energy impact of the Group's IT infrastructure.	IN PROGRESS
In order to improve the working environment at Reale Group offices, a project for increasing the extent of green areas in the Office Buildings, as a means of helping to create a more balanced work environment conducive employee physical well-being and improving emotional balance of workers and their disposition.	IN PROGRESS

Turin, 22 February 2024  
Prot. 2024/299

To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Torino, Italy

The undersigned Andrea Andorno and Elisabetta Oliveri  
As legal representatives of SAGAT S.p.A. with head office in Strada San Maurizio, 12 – 10072 - CASELLE T.SE (TO)

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. SAGAT S.p.A. is the company responsible for the management and development of Torino Airport. Within the framework of this initiative, Torino Airport will actively continue its challenging decarbonisation pathway started in 2010 with a focus on efficiency measures to reduce progressively its energy demand (halved in the last decade). Other actions will be carried on to lower the use of fossil fuels and to extend the self-production of energy thanks to the implementation of Renewable Energy Systems (i.e. PV plants and green fuels). This will increase the share of decarbonised energy sources, thus reducing the overall emissions of the airport in line with the targets issued in the Fit for 55 Package. Finally, SAGAT will continue its efforts searching for flexible and innovative solutions to make the airport a dynamic hub exchanging and delivering green energy to the airport ecosystem. In this framework, the participation to innovative projects with other qualifying partners, as already done with European TULIPS consortium, will represent a plus which supports the commitment of Torino Airport in reducing its emissions.

**TORINO BEST AIRPORT 2022**  
ACI EUROPE AWARD

Under 5 million passengers

**SAGAT S.p.A.**  
Strada San Maurizio, 12  
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Società a Socio unico  
Direzione e coordinamento  
di 2i Aeroporti S.p.A.

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**EXPRESS THEIR INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the '[EU Mission for Climate-Neutral and Smart Cities](#)' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Andrea Andorno  
Chief Executive Officer

Elisabetta Oliveri  
Chairwoman

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2030 Climate-Neutrality Commitments

**Appendix: Individual Signatory Commitments****SAGAT S.p.A.****Short description of the stakeholder**

SAGAT is the company that has been responsible for the management and development of Torino Airport since 1956. The concession of the airport is managed by SAGAT until 2037. It manages the entire airport area and is responsible for:

- Planning, construction and maintenance of infrastructures related to air traffic (e.g.: runway and apron);
- Planning, construction and maintenance of the infrastructures and buildings used by passengers and operators (air terminals with relative commercial areas, car parks, offices and installations);
- The management of centralized infrastructures as defined by the Italian Legislative Decree n. 18/99 (including loading bridges, baggage handling systems, airport IT and passenger information systems);
- Activities carried out in the airport area, which are entrusted to other economic entities (including those who run restaurants, bars, shops, car rental companies, etc.).

**Strategy and policy at 2030**

SAGAT S.P.A. - Torino Airport manages the airport infrastructure and operations with a challenging energy-efficiency policy (consuming less and less energy), avoiding the waste of resources (reducing waste and recovering those produced) and inspiring every action to respect the environment (reduce water consumption and reuse it, reduce noise emissions, reduce greenhouse gas emissions and pollutants in the atmosphere) to the best of their ability.

SAGAT targets to 2030 are to be fully in line with Fit for 55 package (-39% on primary energy demand, 40% of energy coming from FER, -55% on CO<sub>2</sub> emissions) compared to the baseline year 2010.

Torino Airport joined the ACI Airport Carbon accreditation protocol in 2019 and in 2022 obtained the Level 3 'Optimisation' certification and intends to reach the Level 3+ 'Neutrality' by the end of 2024. In 2022 it signed the Toulouse Declaration, confirming its commitment to environmental sustainability and its efforts to reach Netzero by 2050 at the very last.

It has started a process aimed at reducing its environmental impact called "Torino Green Airport". In this context, SAGAT adheres to the regional strategy for hydrogen to develop alternative methods of energy supply in synergy with the territory. Torino Airport also participates as a "fellow airport" in the European project TULIPS (Demonstrating lower polluting solutions for sustainable airPorts across Europe), which seeks to accelerate the introduction of sustainable technologies in aviation, contributing to climate-neutral aviation by 2050.

The TULIPS project involves SAGAT on several challenging issues as part of the ongoing sustainability programs at the airport:

- development of an airport smart energy hub, including the use of various energy sources and storage systems;
- research into scenarios for future aircraft power supply. As part of the project, SAGAT will work with the Politecnico di Torino to establish a clearing house in Torino for the development and certification of SAFs (Sustainable Aviation Fuels);
- development and testing of hydrogen-powered ground support equipment;
- contribution to the widespread use of biochar as a way to fix carbon into soil;
- development of a structured decarbonisation roadmap which makes use of the cooperation of all participants in the group and outlines decarbonisation pathways.

In 2022, SAGAT also joined the AZEA (Alliance for Zero-Emission Aviation) initiative. The alliance includes various entities of the air transport industry and seeks to encourage the introduction of renewable fuels (electricity and hydrogen) in airport and airline operations.

Torino Airport sorts waste paper, glass, plastic, cans, toner, rubber, iron, WEEE (waste electrical and electronic equipment) and used oil reaching 93% of waste recovery.

SAGAT has carried out a voluntary water quality monitoring campaign for both rain and wastewater every year since 2016. It regularly implements measures to automatically separate and manage rainwater and wastewater.

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Società Metropolitana Acque Torino S.p.A.



To the kind attention of Chiara Foglietta  
Deputy Mayor for Ecological Transition  
City of Turin, Italy

The undersigned Paolo Romano, as legal representative of Società Metropolitana Acque Torino S.p.A. (SMAT) with head office in Turin – Italy – c.so XI febbraio, 14

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '100 Climate-Neutral Cities by 2030 - by and for Citizens' programme. This commitment will be formalised by submitting the "Climate City Contract" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. SMAT is the water utility that manages the integrated water service within 292 municipality of the Metropolitan City of Turin. Within the framework of this initiative SMAT has joined the Science-Based Target initiative, which involves setting decarbonization targets and has begun the process of certifying its greenhouse gas emissions inventory according to UNI EN ISO 14064-1. Once these targets are met, SMAT plans to carry out the completion of the Carbon Disclosure Project (CDP) climate change questionnaire. Moreover, energy efficiency and the utilization of energy from renewable sources are therefore prioritized. From 2021 onwards, the company is supplied with certified electricity that is produced from 100%renewable energy sources. Additionally, work is being done on a 5.1 MW floating photovoltaic system in the lagoon basin of the municipality of La Loggia, that also store raw reserve water for the water purification plant in Turin. The measures to reduce greenhouse gas emissions fully include those aimed at computerizing systems by dividing into districts the network to reduce bottlenecks in water distribution and actively monitor the state of the water network. Furthermore, the business is still working to optimize the Turin distribution network's operating pressure in an effort to lower leakage and breakage rates.

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2030 Climate-Neutrality Commitments



Supporting actions (2019-2030)

Macro areas

Energy systems    Transport    Waste    AFOLU    Stationary Energy    Cross-cutting

Description	Status
ISO 14001 and ISO 50001 certification obtained in order to maintain the entire system under control and keep it efficient through the monitoring of internal KPIs.	DONE
Energy efficiency measures which allowed the site's primary energy demand to be halved.	DONE
Improvement of car sharing service with 3 operators on duty at Torino Airport. Extension of direct shuttle bus connections to city centre thanks to the introduction of a second bus operator in 2023. Railway connection with Turin's central stations and the main tourist destinations in Piedmont in 2024	DONE
By introducing a fleet of electric-powered vehicles, turnarounds at the airport are 100% green from 2022, with a reduction in the environmental impact of aircraft ground handling operations.	DONE
Charging stations available for employees to charge freely electrical cars with the green energy produced internally.	DONE
Increasing the share of self-produced energy through RES: the first big size installation PV plant (1.5 MWp covering 12% of electrical supply) has been completed in 2023, other installations will follow.	ONGOING
Gradual electrification of airport fleet, thus reducing the demand of fossil fuels. This action will extend its benefits along the years thanks to the installation of charging stations for passengers.	ONGOING
Decarbonisation of energy supplies through the transformation of the airport into a smart grid. This action consists in the creation of a flexible hub which accumulates and exchanges energy dynamically with the outside, thus optimizing the use of renewable energy produced on site and coming from territory such as photovoltaics, biogas/biomethane and green hydrogen.	ONGOING
100% of the electricity coming from certified renewable sources.	ONGOING
SAGAT participation as a fellow airport in the TULIPS grouping (Demonstrating lower polluting solutions for sustainable airPorts across Europe) aimed at developing innovations that facilitate the transition towards low-emission mobility.	ONGOING
Achievement of level 3+ of ACA certification through the compensation of residual Scope 1 and 2 emissions and thus achieving Carbon Neutrality.	ONGOING
Monitoring of Scope 3 emissions thanks to dedicated tools: for instance, Ardian Air Carbon platform for aircraft emissions and internal AI platform for the accounting of the emission related to ground transportation.	ONGOING
Recognition of the value of environmental performance including the reduction of aircraft emissions thanks to Torino Airport's traffic development policy.	ONGOING

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Società Metropolitana Acque Torino S.p.A.



2030 Climate-Neutrality Commitments



**EXPRESSES ITS INTEREST**

**Individual Signatory Commitments**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the 'EU Mission for Climate-Neutral and Smart Cities' label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

**SMAT**

**Short description of the stakeholder**

SMAT (acronym for Società Metropolitana Acque Torino) is a company that operates in the field of integrated water services. SMAT was founded on 1 April 2001 following the merger between Azienda Acque Metropolitane Torino S.p.A. and the Po-Sangone Company. Both companies were publicly owned: the Metropolitan Water Company (AAM, former Municipal Aqueduct Company of Turin) managed the drinking water supply of Turin and 36 other municipalities in the area while the Po-Sangone Company (former Consortium Po-Sangone) was responsible for the collection and treatment of waste water from 17 municipalities in the Turin metropolitan area. SMAT was granted the management of the integrated water service within ATO 3 – Turin in 2004, up to 12.31. 2033. The Company expanded to reach, in 2023, 292 municipalities and 2.189.151 inhabitants served. In addition to the Turin area, the company is present with some subsidiary companies in various Italian locations and also participates in international tenders regarding water services and infrastructures.

**Strategy and policy at 2030**

SMAT adheres to specific sustainability goals when doing its business, such as reducing the effects of climate change, supporting the circular economy, increasing energy efficiency, enhancing service quality and encouraging research and development.

SMAT's strategic objectives specifically address energy efficiency, circularity and mitigating climate change in relation to decarbonization. An important consideration in the administration of integrated water services is energy consumption. In the fight against climate change, energy efficiency and the utilization of energy from renewable sources are therefore prioritized. From 2021 onwards, the company is supplied with certified electricity that is produced from 100 per cent renewable energy sources. The final design of the major infrastructure project for the thermal oxidation of sludge at the Castiglione Torinese treatment plant has begun in relation to the strategic objective of energy efficiency. The project's implementation will enable further thermal and critical material recovery, thereby closing the cycle of sludge valorisation. Additionally, work is being done on a 5.1 MW floating photovoltaic system in the lagoon basin of the municipality of La Loggia. This system is storing raw reserve water for the Drinking Water Treatment plant in Turin. The measures to reduce greenhouse gas emissions fully include those aimed at computerizing systems by dividing into districts the network to reduce bottlenecks in water distribution and actively monitor the state of the water network. This is because environmental standards and quality of service are linked. Furthermore, the business is still working to optimize the Turin distribution network's operating pressure in an effort to lower leakage and breakage rates.

Finally, SMAT has joined the Science-Based Target initiative, which involves setting decarbonization targets and has begun the process of certifying its greenhouse gas emissions inventory according to UNI EN ISO 14064-1. Once these targets are met, SMAT plans to carry out the completion of the Carbon Disclosure Project (CDP) climate change questionnaire.

**Supporting actions and strategies (2019-2030)**

**Macro areas**

- Energy systems
- Transport
- Waste
- AFOLU
- Stationary Energy
- Cross-cutting

Description	Status
Research activity developed by the SMAT Research Center aimed at anticipating and mitigating the effects of climate on water resources, assessing the impacts of climate change on underground water resources and managing risks related to water scarcity in climate change scenarios.	ONGOING

Turin, 21 FEB. 2024

Paolo Romano  
President

Arrivo: AOO 074, N. Prot. 00001830 del 22/02/2024

6.v. 90.v. 1\_2024/074.sfa.074.arm. 20/2024A/074.fra.074.arm. 7.nd

6.v. 90.v. 1\_2024/074.sfa.074.arm. 20/2024A/074.fra.074.arm. 7.nd

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Copia del documento originale con apposizione del protocollo



To the kind attention of **Chiara Foglietta**  
Councillor for Ecological Transition  
City of Turin, Italy

Technical intervention (biomethane production from sewage sludge) - The biogas that was previously recovered in internal combustion engines for the production of electricity and thermal energy, starting from June 2020, is subjected to a purification process (dehumidification and removal of H2S and volatile organic compounds) and removal of CO2 through membrane filtration. In this way, a gaseous mixture is produced with a methane content similar to that of natural gas (typically >97%). The biomethane produced, after a continuous analytical monitoring phase which guarantees its compliance with quality standards, is introduced into the natural gas distribution network managed by SNAM to be used in the transport sector as a renewable energy source as an alternative to fossil fuel .	DONE
REM photovoltaic system - Installation of a new photovoltaic system at the SMAT headquarters in Via Salgari, 14 in Turin to guarantee compatibility with architectural and environmental protection needs, the absence of noise pollution, the saving of fossil fuel and the production of electricity without emissions of polluting substances. The energy sizing of the photovoltaic system was carried out taking into account the spaces on which to install the photovoltaic system indicated by the client and the morphological and environmental factors (shading and reflectance). The total installed power will be equal to 112 kW.	DONE
Floating photovoltaic system on the basin with raw reserve water for the water purification plant of the City of Turin - Construction of a 5.1 MW floating photovoltaic system in the municipality of La Loggia, on the lagoon basin for the storage of raw reserve water for the Turin water purification plant.  The technical-economic feasibility project involves the use of a surface area of 6.3 ha, with the installation of 12,752 400 Wp crystalline silicon panels and 210 inverters with a nominal AC side power of 22 kW. Thanks to the refreshing effect of the water, an increase in the efficiency of the panels in the summer period of up to 15% is expected compared to traditional ground-based photovoltaic systems, for a total production of approximately 7,150 MWh/year. Furthermore, the activation of a configuration of "individual self-consumption of renewable energy remotely via the distribution network" is being studied, as envisaged by the TIAD recently published by ARERA, between the photovoltaic plant on the La Loggia basin and the Turin water purification plant. , in order to maximize the percentage of self-consumed energy compared to the total energy produced.	ONGOING
SMAT Water Points - They supply mains water in small dedicated kiosks, avoiding the production and transport of bottled water, as well as the disposal of plastic bottles. Starting from 2019, 8 Water Points have been installed in the territory of the City of Turin, in addition to the other 10 already existing: Based on the average volumes supplied since entry into operation, a total production is expected, for a reference period of 10 years, of 11,426 m³.	DONE
Purchase of certified electricity from renewable sources	ONGOING

The undersigned Marco Borgione, Head of Territorial Development North West Office, as delegate of UNICREDIT S.p.A., with registered office in Milan, Piazza Gae Aulenti n° 3 – Tower A, Share Capital Euro 21,277,874,388.48 fully paid-up - Registered in the Register of Banking Groups and Parent Company of the UniCredit Banking Group, with code 02008.1 - ABI Code 02008.1 - Tax Code, VAT Number and Registration Number in the Register of Companies of Milan-Monza-Brianza-Lodi: 00348170101 - Member of the National Interbank Deposit Guarantee Fund and the National Compensation Fund.

Whereas,

- The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality under the "100 Climate-Neutral Cities by and for Citizens" program. This commitment will be formalised with the presentation of the "Climate City Contract" to the European Commission in March 2024.
- The "Climate City Contract" is a programmatic document with which the administration commits to pursuing the transition towards climate neutrality.
- UniCredit is a pan-European commercial bank with a unique service offering in Italy, Germany, Central and Eastern Europe. Our purpose is to enable communities to move forward, offering best-in-class to all stakeholders, unleashing the potential of our customers and people across Europe.

For this initiative, UniCredit specifies that:

- Supports companies committed to improving their sustainability profile.
- Is a member of the Ellen McArthur Foundation with the aim of accelerating the transition to the circular economy
- Supports highly innovative start-ups and SMEs with the aim of supporting business in the main categories of the sustainable economy
- Is implementing the plastic-free goal in their work environment
- Offers financing for customers who use government bonuses for energy-efficient renovation with green solutions (e.g. purchase of class A-B properties and renovations with energy efficiency scope)
- 100% of its total electricity consumption comes from renewable sources
- Activated car-pooling apps for employees and charging stations at their premises
- The construction of bicycle parking spaces installed in the main locations and stations for the maintenance and charging of bicycles is underway

**UniCredit S.p.A.**  
Share capital Euro € 21.367.680.521,48 fully paid in - Registered in the Register of Banking Groups and Parent Company of the UniCredit Banking Group, with cod. 02008.1 - Cod. ABI 02008.1 - Fiscal Code, VAT number and Registration number with the Company Register of Milan-Monza-Brianza-Lodi: 00348170101 - Member of the National Interbank Deposit Guarantee Fund and of the National Compensation Fund - Stamp duty paid virtually, F. due - Aurb. Agenzia delle Entrate, Ufficio di Roma 1 no. 143106/07 of 21.12.2007.  
  
Registered Office and Head Office  
Piazza Gae Aulenti 3  
Tower A  
20154 Milan

Arrivo: AOO 074, N. Prot. 00001830 del 22/02/2024

Arrivo: AOO 074, N. Prot. 00002244 del 04/03/2024

6.v. 90.v. 1\_2024/074.sfa.074.arm. 20/2024A/074.fra.074.arm. 7.nd

6.v. 90.v. 1\_2024/074.sfa.074.arm. 20/2024A/074.fra.074.arm. 22.nd, 1.a

Copia del documento originale con apposizione del protocollo



**EXPRESSES ITS INTEREST**

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the [EU Mission for Climate-Neutral and Smart Cities](#) label will be awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Torino, 01.03.2024

UniCredit S.p.A  
Marco Borgione



6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 22.nd, 1.a

Arrivo: AOO 074, N. Prot. 00002244 del 04/03/2024

Copia del documento originale con apposizione del protocollo



2030 Climate-Neutrality Commitments



**Individual Signatory Commitments**

**UNICREDIT**

**Short description of the stakeholder**

UniCredit S.p.A. is an international banking group. The bank has its general management and registered office in Milan, in the UniCredit Tower and was until 2023 the only one with its head office in Italy to be included by the Financial Stability Board in the list of the 30 most important financial institutions in the world for its global systemic relevance.

The bank has an extensive international network of representative offices and branches in 18 other countries around the world. The company is listed on the FTSE MIB index of the Milan Stock Exchange and in the Dax of the Frankfurt Stock Exchange.

**Strategy and policy at 2030**

In October 2021, UniCredit joined the Net-Zero Banking Alliance, the industry-led, UN-convened group of banks, which are committed to align their lending and investment portfolios with net-zero emissions by 2050. In line with Net Zero commitment, UniCredit Group disclosed in January 2023 the first set of sectoral targets on selected sectors: Oil&Gas, Power Generation and Automotive. On coal, UniCredit Group already defined a phase out policy by 2028.

As recommended by the NZBA, PCAF, and other relevant industry guidance, the baseline was estimated, and targets were set based on the emissions profile of the bank's lending portfolio (drawn amount), focusing on SME and Large Corporates. The baseline was calculated on the on balance sheet lending drawn exposure at 31/12/2021 for all three sectors. For each sector the Group selected the value chain segments where emissions are most material and where data is available. Clients have been segmented based on the Nomenclature of Economic Activities (NACE). For each sector client's direct emissions (scope 1) and indirect emissions (scope 2 and 3) have been analysed.

With the launch of UniCredit Unlocked, UniCredit's current strategic plan, sustainability is one of the strategic imperatives to unleash the potential of our Group, paving the way for the future of our Bank and all our stakeholders, in order to achieve the goal of enabling local communities to progress in line with ESG (Environmental, Social and Governance )

Our ESG strategy is based on related elements:

1. ESG principles, which are the cornerstones of the UniCredit Unlocked project
2. Best Practices that strive to achieve the same high standards that we seek from those we work with
3. Setting ambitious ESG targets to support the most just and equitable transition for our clients
4. Equip ourselves with tools to assist customers and local communities in the environmental and social transition through sustainable strategic actions in all our building blocks.
5. Invest the resources necessary to achieve ESG objectives and related long-term commitments, through a robust governance model, providing quality monitoring, reporting and disclosure.

6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 22.nd, 2.a

Arrivo: AOO 074, N. Prot. 00002244 del 04/03/2024



Copia del documento originale con apposizione del protocollo



**Supporting actions and strategies (2019-2030)**

**Macro areas**

- Energy systems
- Transport
- Waste
- AFOLU
- Stationary Energy
- Cross-cutting

Description	Status
<p>UniCredit has signed a partnership with CVA for the supply of electricity produced from renewable sources. The collaboration with CVA, a green power company based in the Aosta Valley, will result in the construction of three new solar plants in Piedmont, Lombardy and Sicily.</p> <p>The new solar plants with a total capacity of 25MW were planned operational in 2023, providing 35GWh per year to supply the energy demand of UniCredit data centres in Verona, covering around 20% of the bank's total electricity consumption in Italy.</p>	ONGOING
<p>UniCredit is the first bank in Europe to obtain the Global Real Estate Sustainability Benchmark (GRESB) scoring on its corporate real estate portfolio. The total portfolio analysed based on GRESB's sustainability criteria included properties owned by the Group, with an approximate value of €5bn, located across Italy, Germany and Central and Eastern Europe. The initiative also showcases UniCredit as a frontrunner on ESG reporting for property management.</p>	DONE

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*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Giuseppe Rosso,  
In qualità di rappresentante legale di A.M.A. Factory ETS con sede in via San Pietro in Vincoli 28, 10152 Torino

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **A.M.A FACTORY ETS** è un'impresa di produzione teatrale che si occupa di produzione di spettacoli e di progetti di programmazione culturale sul territorio

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- X Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- X Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in un piano strategico che prevede che entro il 2023 AMA Factory ETS realizzi interventi nel settore della produzione di energie rinnovabili e l'incremento dell'efficienza energetica e nel settore delle NBS del complesso dell'ex cimitero di San Pietro in Vincoli. Tale piano prevede una serie di azioni, alcune già finanziate e altre in fase di ricerca fondi che permetteranno un abbattimento del 50% del consumo elettrico e del 70% delle emissioni di CO2 rispetto al 2019. L'avvio degli interventi è previsto nel 2024.



# 6. Annex

## Supporters



- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Contatto dell'organizzazione per questa attività:

Andrea Panero Geymet, [progettazione@amafactory.it](mailto:progettazione@amafactory.it) 3398309710

Anno previsto per l'avvio dell'azione: 2024

**Efficientamento energetico** dello spazio di proprietà della città di Torino. Ama Factory ETS, concessionaria da dicembre 2023 per 12 anni dello spazio dell'ex-cimitero di San Pietro in Vincoli intende attuare un piano strategico di efficientamento energetico e di riduzione dei consumi e dell'impatto sull'ambiente. Il piano prevede diverse azioni:

Azioni già pianificate e finanziate:

- Efficientamento energetico attraverso installazione di infissi e serramenti di ultima generazione ad alta efficienza
- Installazione di illuminazione a basso consumo: illuminazione portico esterno (finanziato attraverso bando "I luoghi della Cultura" di Compagnia di San Paolo), illuminazione teatro (finanziato attraverso bando TOCC GREEN)

Azioni previste e non ancora finanziate

- Installazione di caldaia a basse emissioni e-o pompa di calore
- Installazione di impianto fotovoltaico
- Attivazione CER
- Installazione di bacini per la raccolta dell'acqua piovana
- Costruzione di un sistema di compostaggio dei rifiuti umidi nell'area verde, che consenta di trasformare i rifiuti in compost utile per le comunità di prossimità oltreché per fertilizzare l'orto urbano, in ottica di economia circolare.
- Azioni di formazione per il personale interno al fine di costruire una comunità di lavoro che sia una best practice in materia di sostenibilità ambientale
- Ottenimento da parte di AMA Factory di certificazioni in materia di sostenibilità ambientale, economica e sociale.

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]

Anno previsto per l'avvio dell'azione: [Anno]

[descrizione azione max 1000 caratteri]

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- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]

Anno previsto per l'avvio dell'azione: [Anno]

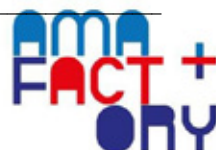
[descrizione azione max 1000 caratteri]

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A.M.A. Factory ETS  
Via San Pietro in Vincoli 28 -  
10152 Torino  
C.F. e P.IVA 07379320018  
tel. 0115217099



- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività:

Andrea Panero Geymet, [progettazione@amafactory.it](mailto:progettazione@amafactory.it) 3398309710

Anno previsto per l'avvio dell'azione: 2024

**St'Orto Urbano**; Orto Urbano, recupero e rifunzionalizzazione delle aree verdi del complesso dell'ex-cimitero di San Pietro in Vincoli, al fine di trasformarle in orto urbano e spazio di aggregazione per famiglie e comunità di prossimità.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 26.02.2024

AMA Factory ETS  
Il Legale Rappresentante  
Giuseppe Rosso

(Firmato digitalmente)

A.M.A. Factory ETS  
Via San Pietro in Vincoli 28 -  
10152 Torino  
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Arcobaleno  
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#### Sede legale

corso Trapani, 95/A  
10141 Torino

Piva 06378620014  
C.C.I.A.A. Torino 782896  
Tribunale di Torino 3815/92  
Albo cooperative A146538

#### Sede Chivasso

Cascina Rapella  
frazione Mandria, 24  
10054 Chivasso (To)  
Tel. 011 91 96 225

#### Socio fondatore di



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto **Potito Ammirati**

In qualità di **rappresentante legale** di Arcobaleno Cooperativa Sociale con sede legale in Torino (TO), Corso Trapani 95/A, 10141 e sede operativa in Torino (TO), Via Paolo Veronese 202, 10148

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;

- ii. Il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;

- iii. **Arcobaleno Cooperativa Sociale di inserimento lavorativo**  
**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i

**Built Environment & Energy Systems (energia ed edifici)**  
**Mobility & Transport (trasporti e mobilità)**

In questo ruolo l'organizzazione è impegnata in:

Arcobaleno Cooperativa Sociale a Torino ha una storia di 30 anni nella raccolta rifiuti, iniziando in modo pionieristico con la metodologia "porta a porta", la prima esperienza del genere in Italia. Hanno iniziato con la raccolta della carta

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e successivamente ampliato le attività includendo i RAEE (rifiuti elettronici) e il multimateriale nella zona del chivassese.

La gestione dei RAEE e rifiuti elettronici da parte di Transistor è progettata per chiudere il ciclo, rientrando così nella definizione di Economia Circolare.

Un altro aspetto distintivo dell'organizzazione è l'impegno verso la sostenibilità ambientale, evidenziato dall'installazione di pannelli fotovoltaici in tutte le sue strutture aziendali - quello della sede operativa installato nel 2008 (potenza 366,08 kWp) e quello sede di Chivasso (potenza di 62,70 kWp). Questa iniziativa è stata avviata diversi anni fa, diventando all'epoca il più grande impianto fotovoltaico del Piemonte all'epoca. Inoltre, l'installazione di pannelli fotovoltaici è stata estesa anche alla palazzina adibita ad Housing Sociale, evidenziando un impegno integrato verso la sostenibilità ambientale e sociale.

Attività che intende realizzare nell'ambito **"Built Environment & Energy Systems (energia ed edifici)"**

Contatto dell'organizzazione per questa attività: **Daniel Iannaci** - [d.iannaci@cooparcobaleno.net](mailto:d.iannaci@cooparcobaleno.net) - **0113841521**

Anno previsto per l'avvio dell'azione: **2024**

La coesione sociale e la sostenibilità ambientale sono i principi a cui si ispira il progetto di UP centro abitato.

Su un progetto realizzato con il Politecnico di Torino e si è dato inizio ai lavori per la realizzazione di un Centro Sportivo polivalente che offra l'opportunità di svolgere attività sportive, ricreative e culturali rivolte a tutti, in un ambiente innovativo e sostenibile, un posto che possa essere vissuto come spazio di vita, socialità e di incontro.

Il territorio interessato al progetto è parte dell'ex area Michelin di via Casteldelfino 64 a Torino, una superficie di circa 15.000 mq in condizioni di importante degrado.

La massimizzazione degli spazi verdi permeabili e un'attenzione alla sostenibilità energetica di tutto il complesso sono le caratteristiche che puntano al massimo risparmio in termini di consumo energetico.

L'analisi di prestazione energetica è stata svolta seguendo le direttive della normativa UNI/TS-11300, con l'adozione di impianti ad elevata efficienza per raggiungere i requisiti minimi di prestazione energetica degli edifici a energia quasi zero (nZEB) già prima dell'inserimento di pannelli solari termici e fotovoltaici da integrare nella copertura che creeranno la possibilità di scambiare energia con il quartiere nell'ottica delle comunità energetiche

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Tel. 011 91 96 225

#### Socio fondatore di



Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: **Daniel Iannaci** - [d.iannaci@cooparcobaleno.net](mailto:d.iannaci@cooparcobaleno.net) - **0113841521**

Anno previsto per l'avvio dell'azione: **2024-2025**

Arcobaleno intende avviare un progetto di formazione coinvolgendo 350 lavoratori e dipendenti di società collegate, con l'obiettivo di analizzare le esigenze di mobilità individuale e consapevolezza dei costi. L'iniziativa risponde alle nuove tendenze di consumo, in particolare nel settore del Delivery, che ha generato una crisi nella logistica urbana.

Il progetto promuove una riflessione sul modello organizzativo della movimentazione merci, proponendo una visione rivisitata della logistica di prossimità. Arcobaleno crede che tale revisione possa creare nuove opportunità professionali, inclusa l'occupazione per individui vulnerabili in cerca di reinserimento sociale.

L'approccio si basa sull'integrazione della rete logistica esistente, ottimizzando l'utilizzo degli automezzi già presenti, compresi quelli impiegati per la raccolta differenziata. La collaborazione con altri soggetti mira a valutare la fattibilità di un progetto che consideri valutazioni dei trend di consumo, identificazione di attori per una nuova rete logistica, utilizzo di intelligenza artificiale nella movimentazione urbana, ridefinizione della logistica come servizio alla città e promozione di veicoli a basso impatto.

Il progetto prevede anche la formazione interna sulla mobilità condivisa e l'implementazione di un sistema integrato di operatori per rispondere alle esigenze di movimentazione in modo efficiente, sostenibile e di alta qualità. Un obiettivo importante è sensibilizzare la cittadinanza sull'impatto ambientale delle consegne, promuovendo comportamenti consapevoli in questo contesto.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 - by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li **21/02/2024**

Arcobaleno  
Cooperativa Sociale  
via Paolo Veronese, 202  
10148 Torino  
Tel. 011 38 41 511  
Fax 011 38 41 525  
info@cooparcobaleno.net  
cooparcobaleno@mypc.eu  
www.cooparcobaleno.net



#### Sede legale

corso Trapani, 95/A  
10141 Torino  
Piva 06578620014  
C.C.I.A.A. Torino 782896  
Tribunale di Torino 5815/92  
Albo cooperative A146538

#### Sede Chivasso

Cascina Rapella  
frazione Mandria, 24  
10054 Chivasso (To)  
Tel. 011 91 96 225

#### Socio fondatore di



**Arcobaleno Cooperativa Sociale**

**Il Legale Rappresentante**

**Potito Ammirati**

(Firmato digitalmente)

Firmato digitalmente da: Ammirati Potito  
Luogo: Torino  
Data: 23/02/2024 13:16:38



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto **Antonio Convertino**

In qualità di Rappresentante Legale di **Associazione Al Cicapui ASD e APS** con sede in **Comune di Groscavallo**, Frazione Biollé – Migliere, Provincia di Torino.

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Associazione Al Cicapui ASD e APS** la cui mission è: “*Favorire il benessere fisico e psicologico, offrire aiuto alle situazioni fragili, con azioni durature. Ridurre il divario culturale, educativo e relazionale dei minorati coinvolti, rafforzarne l'autostima e le soft skills, sostenendo le famiglie e costruendo in coprogettazione una Comunità educante.. Percorsi per favorire fin dall'infanzia il gusto dell'arte e del bello, sviluppando la creatività anche con l'utilizzo consapevole di materiali di riuso in ottica di economia circolare. Promuovere il territorio favorendone una fruizione sostenibile ed inclusiva. Operare per la rigenerazione di beni comuni e di riqualificazione urbana attraverso attività di edilizia circolare.*”

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolti quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i Built Environment & Energy Systems (energia ed edifici)

- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

#### ASSOCIAZIONE AL CICAPUI A.S.D. ED A.P.S.:

Sede Legale: Corso re Umberto I nr 3 – 10070 Frazione Migliere Comune di Groscavallo (To).

#### Sedi operative:

**Area Sportiva Comune di Groscavallo (To):** Area Beppe Ferrando – 10070 Fraz. Migliere e Area Sportiva – 10070

Fraz. Richiardi / **Co-working:** Piazza Vetta d'Italia 13, 10149 Torino

C.F.: 92054730012 mail: [presidenza@albicapui.it](mailto:presidenza@albicapui.it) pec: [info@pec.albicapui.it](mailto:info@pec.albicapui.it)

CODICE UNIVOCO: KRRH6B9



In questo ruolo l'organizzazione è impegnata in **[descrizione sintetica delle attività che svolge in Torino con obiettivi di riduzione delle emissioni climalteranti distinte per ambito tematico di interesse]**

- Attività che intende realizzare nell'ambito “Built Environment & Energy Systems (energia ed edifici)”

Contatto dell'organizzazione per questa attività: **[Nome]** **[Cognome]** **[Email]** **[Tel]**

Anno previsto per l'avvio dell'azione: **[Anno]**

**[descrizione azione max 1000 caratteri]** \_\_\_\_\_

- Attività che intende realizzare nell'ambito “**Mobility & Transport (trasporti e mobilità)**”

Contatto dell'organizzazione per questa attività: Antonio Convertino 3398654032 [presidenza@albicapui.it](mailto:presidenza@albicapui.it)

Anno previsto per l'avvio dell'azione: **dal 2019 in poi**

**NAVETTA** L'associazione intende continuare a colmare l'assenza di un servizio alla famiglie ed in futuro desidera acquistare un nuovo mezzo di trasporto (poiché quello attualmente in uso è vecchio), dando continuità al servizio navetta attuato per il Centro Estivo raccogliendo adesioni dal Comune di Ceres a quello di Groscavallo sollevando così le famiglie dall'impegno ed ottimizzando il trasporto persone in un'unica corsa (con risparmio di emissioni nell'ambiente). Il servizio è messo a disposizione della Comunità anche a chiamata: per es. per trasferire i camminatori del GTA da una frazione ad un'altra o in fascia notturna per accompagnare alle fiere del territorio gruppi di giovani e di adolescenti, evitando l'uso di auto in stato di ebbrezza. Accogliendo i bisogni del Territorio, l'associazione ha deciso di investire su un trasporto condiviso per ridurre l'impatto sull'ambiente, riducendo il numero dei veicoli con una o al massimo due persone a bordo che transitano nella Valgrande di Lanzo.

- Attività che intende realizzare nell'ambito “**Waste & Circular Economy (rifiuti ed economia circolare)**”

Contatto dell'organizzazione per questa attività: Antonio Convertino 3398654032 [presidenza@albicapui.it](mailto:presidenza@albicapui.it)

e Chiara Ferraris 3479430952 [chiara@albicapui.it](mailto:chiara@albicapui.it)

Anno previsto per l'avvio dell'azione: **dal 2019 in poi**

L'associazione, da sempre impegnata sul fronte dell'economia/edilizia circolare, attuando collaborazioni contrattuali efficaci, finalizzate al recupero di materiali nobili di riuso, con grosse aziende profit (Decathlon e Regusto), con una rete di imprese artigianali della città metropolitana di Torino e del suo hinterland (Confartigianato Imprese Torino) e con una Comunità di pratica non formale tra ETS: attui progetti ad impatto sociale/ambientale quali “SocialPro- l'Opificio dei mestieri”; “il vulcano delle scarpe”. Realizziamo rigenerazione di Beni Comuni con materiali nobili di Riuso ed abbiamo coprogettato il 1° orto sociale

#### ASSOCIAZIONE AL CICAPUI A.S.D. ED A.P.S.:

Sede Legale: Corso re Umberto I nr 3 – 10070 Frazione Migliere Comune di Groscavallo (To).

#### Sedi operative:

**Area Sportiva Comune di Groscavallo (To):** Area Beppe Ferrando – 10070 Fraz. Migliere e Area Sportiva – 10070

Fraz. Richiardi / **Co-working:** Piazza Vetta d'Italia 13, 10149 Torino

C.F.: 92054730012 mail: [presidenza@albicapui.it](mailto:presidenza@albicapui.it) pec: [info@pec.albicapui.it](mailto:info@pec.albicapui.it)

CODICE UNIVOCO: KRRH6B9



interamente realizzato con il recupero delle casse lignee del trasporto Vetro. In ambito educativo sono state tutorate tesi curriculari e tesi magistrali di Tirocinanti del POLITO aventi come oggetto buone prassi per una circolarità dei materiali giunti a fine vita ed eco-design. Ci occupiamo di interior design per housing sociale con materiali donati riutilizzati.

- **Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)**

Contatto dell'organizzazione per questa attività: Antonio Convertino 3398654032 [presidenza@alcicapui.it](mailto:presidenza@alcicapui.it) e Chiara Ferraris 3479430952 [chiara@alcicapui.it](mailto:chiara@alcicapui.it)

Anno previsto per l'avvio dell'azione: **dal 2020 in poi**

Utilizzo concimi naturali.

Potature naturali.

Irrigazione acqua consortile anche nei bagni.

L'associazione gestisce l'area Beppe Ferrando, circa 4000 mq, di proprietà del Comune di Groscavallo e consiste in una ampia area sportiva outdoor immersa nel verde. Da sempre abbiamo opzionato come irrinunciabile la concimazione naturale ottenuta contemporaneamente e alla rasatura del manto erboso ed alla decespugliazione delle rive, attraverso l'accoglienza di greggi di pecore, capre e asini al fine di mantenere un equilibrio con la fauna da allevamento locale, la flora autoctona, le tradizioni d'alpeggio e la gestione del Presidio Civico adottando una manutenzione coerente con azioni sostenibili e green. In quest'ottica abbiamo anche convogliato l'acqua consortile, che utilizziamo per l'irrigazione dell'area anche all'interno delle tubature per gli scarichi dei bagni per non intaccare risorse idriche finalizzate ad un uso alimentare.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

**ASSOCIAZIONE AL CICALPUI A.S.D. ED A.P.S.:**

**Sede Legale:** Corso re Umberto I nr 3 – 10070 Frazione Migliere Comune di Groscavallo (To).

**Sedi operative:**

**Area Sportiva Comune di Groscavallo (To):** Area Beppe Ferrando – 10070 Fraz. Migliere e Area Sportiva – 10070 Fraz. Richiardi / **Co-working:** Piazza Vetta d'Italia 13, 10149 Torino

**C.F.:** 92054730012 **mail:** [presidenza@alcicapui.it](mailto:presidenza@alcicapui.it) **pec:** [info@pec.alcicapui.it](mailto:info@pec.alcicapui.it)

**CODICE UNIVOCO:** KRRH6B9



Torino, li 16 FEBBRAIO 2024

**ASSOCIAZIONE AL CICALPUI A.S.D. ED A.P.S.:**

**Sede Legale:** Corso re Umberto I nr 3 – 10070

Frazione Migliere Comune di Groscavallo (To).

**Sedi operative:**

**Area Sportiva Comune di Groscavallo (To):**

Area Beppe Ferrando – 10070 Fraz. Migliere e

Area Sportiva – 10070 Fraz. Richiardi / **Co-**

**working:** Piazza Vetta d'Italia 13, 10149 Torino

**C.F.:** 92054730012 **mail:** [presidenza@alcicapui.it](mailto:presidenza@alcicapui.it)

**pec:** [info@pec.alcicapui.it](mailto:info@pec.alcicapui.it)

**CODICE UNIVOCO:** KRRH6B9

**ANTONIO CONVERTINO**

**PRESIDENTE PRO TEMPORE**

(Firmato digitalmente)



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Anna Ianniello

In qualità di rappresentante legale dell'associazione "Donne per la difesa della società civile" con sede in Torino, via O. Morgari, 14

**PREMESSO CHE**

- i.* La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii.* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii.* L'associazione "Donne per la difesa della società civile" esiste dal 2001 come Gruppo e dal 2006 come Associazione con statuto depositato presso il Comune di Torino, ha come obiettivo diffondere una cultura politica sui temi che riguardano la qualità della vita dei/le cittadini/e, e si è occupata in questi anni di iniziative riguardanti la mobilità sostenibile e il verde

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

Built Environment & Energy Systems (energia ed edifici)

- **Mobility & Transport (trasporti e mobilità)**
- Waste & Circular Economy (rifiuti ed economia circolare)
- **Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)**

In questo ruolo l'associazione è impegnata da sempre con azioni immateriali – petizioni, conferenze, organizzazione di eventi, scritti- a diffondere una cultura della mobilità sostenibile e del verde urbano, (per promuovere una diversa modalità di spostamento che porti a un miglioramento della qualità dell'aria)

- **Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"**

1

Contatto dell'organizzazione per questa attività:

Silvana Ranzato, silvana.@ranzato@ gmail.com 347 1443494

Bice Fubini, [fubinibice@gmail.com](mailto:fubinibice@gmail.com) 3478761719

Anno previsto per l'azione: 2024 (e gli anni seguenti)

L'Associazione ha per anni organizzato e attualmente partecipa attivamente all'organizzazione dell'evento "San Salvario ha un Cuore Verde", manifestazione floro vivaistica che si tiene in corso Marconi dal 2012 nella settimana dedicata all'ambiente, e che ha l'obiettivo di sensibilizzare i cittadini relativamente alla pedonalizzazione della parte centrale del Corso, attualmente in parte ancora destinato a parcheggio e al passaggio delle automobili.

La pedonalizzazione porterà verosimilmente ad una riduzione del passaggio di automobili con conseguente miglioramento della qualità dell'aria.

Quest'anno la Manifestazione è prevista per l'1 giugno

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

]

Contatto dell'organizzazione per questa attività:

Silvana Ranzato, silvana.@ranzato@ gmail.com 347 1443494

Bice Fubini, [fubinibice@gmail.com](mailto:fubinibice@gmail.com) 3478761719

Anno previsto per l'azione: 2024 (e gli anni seguenti)

Azione di monitoraggio due volte all'anno (indicativamente aprile e ottobre) dello stato del verde pubblico nel quadrilatero di San Salvario e conseguente invio dei risultati agli uffici competenti \_\_\_\_\_

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 22, febbraio 2024

*La legale rappresentante*

2




**Associazione Il Tuo Parco**

Viale Michelotti 166 – 10132 - Torino

 Email : [info@iltuoparco.it](mailto:info@iltuoparco.it)

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Piergiorgio Tenani

In qualità di rappresentante legale dell'Associazione Il Tuo Parco con sede in Torino Viale Michelotti 166

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Il Tuo Parco, Associazione senza fini di lucro, fondata nel 1990, è impegnata su tematiche specifiche che si sono approfondite ed evolute nel tempo quali: Sostenibilità (energia - acqua – rifiuti – alimentazione – stili di vita – mobilità leggera ) - Valorizzazione e Salvaguardia del territorio - Educazione e Didattica Ambientale - Beni Comuni --- Comportamenti individuali e collettivi - Economia Solidale e Circolare (blue economy) - Diritti della persona - Reti Territoriali - Progettazione Partecipata – Cittadinanza Attiva - Rapporti e collaborazioni con le Istituzioni.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- X - Built Environment & Energy Systems (energia ed edifici)
- X - Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- X - Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)


**Associazione Il Tuo Parco**

Viale Michelotti 166 – 10132 - Torino

 Email : [info@iltuoparco.it](mailto:info@iltuoparco.it)

In questo ruolo l'organizzazione è impegnata in particolare per:

la Realizzazione di Percorsi Educativi rivolti alla scuola, alle famiglie e ai cittadini: grazie alla conoscenza delle valenze naturalistiche offerte dall'ambiente urbano ricercando forme innovative di sostegno e gestione;

la salvaguardia e lo sviluppo del verde come elemento indispensabile alla vita in città sia per il contrasto alle conseguenze del mutamento climatico in atto, sia per garantire condizioni di vita più salubri per la salute e la coesione sociale;

il sostegno ai sistemi di mobilità “dolce”, alla modifica delle attuali condizioni di spostamento anche in termini di mezzi utilizzati, ma anche come strumento di un cambio culturale, utile alla riduzione dei consumi energetici, alle emissioni di CO2 e degli inquinanti nocivi alla salute;

il Bilancio Energetico, l'Impronta Ecologica, l'Impronta Idrica, la Carbon Footprint, il Climate Fresk come strumenti di approfondimento e analisi scientifica per creare maggiore consapevolezza sulle problematiche legate al futuro del pianeta;

la creazione di uno spazio di Informazione e Formazione continua creando un luogo dove stimolare la capacità di incontro, ascolto e rispetto;

il sostegno alla produzione di qualità e al “consumo consapevole” per costruire orientamenti indirizzati a stili di vita salubri e alla riduzione degli sprechi produttivi e di consumo;

l'arte come motivo e strumento di incontro, aggregazione e stimolo; la musica ed il teatro come ponti tra culture, come occasione di incontro tra le persone, come stimolo alla conoscenza di opportunità personali e collettive; per educare al valore della differenza e alla valorizzazione della diversità.

Attività che intende realizzare nell'ambito “Built Environment &amp; Energy Systems (energia ed edifici)”

 Contatto dell'organizzazione per questa attività: Piergiorgio Tenani – [info@iltuoparco.it](mailto:info@iltuoparco.it) – 335 230482

Anno previsto per l'avvio dell'azione: 2024

L'associazione, nell'ambito del Patto di Collaborazione stipulato con la Città di Torino e il SIES Spinelli, (dicembre 2021), per la gestione condivisa dell'immobile di viale Michelotti 166, avente come obiettivo: “**AMBIENTE - La cultura del cambiamento - Progetto per lo sviluppo di attività educative e culturali in campo ambientale per sviluppare nuove forme di cittadinanza,**” vuole stimolare la nascita di una CER che utilizzando in particolare gli edifici a disposizione, possa essere un esempio di collaborazione Istituzione/privato per il risparmio e la corretta gestione energetica delle strutture, e lo sviluppo di buone pratiche per la riduzione dei consumi, coinvolgendo sul piano formativo e culturale gli studenti e le loro famiglie.

Attività che intende realizzare nell'ambito “Mobility &amp; Transport (trasporti e mobilità)”

 Contatto dell'organizzazione per questa attività: Francesco Forleo – [francesco.forleo.to@gmail.com](mailto:francesco.forleo.to@gmail.com) – 335 5785854.

Anno previsto per l'avvio dell'azione: 2024

L'associazione è impegnata in attività di analisi e proposte per tutela della salute pubblica e dell'ambiente. A fronte della analisi sull'inquinamento dell'aria come epifenomeno del traffico veicolare, ha individuato le cause in tre fattori principali:

- 1) la tipologia dei veicoli privati, sia per il trasporto di persone, sia per il delivery




**Associazione Il Tuo Parco**

Viale Michelotti 166 – 10132 - Torino

 Email : [info@iltuoparco.it](mailto:info@iltuoparco.it)

2) la tipologia di veicoli per il trasporto pubblico

3) La conduzione dei veicoli.

A fronte di queste cause principali sono state avanzate alcune proposte di cui si sta studiando il perfezionamento per consentire l'applicazione delle soluzioni migliorative proposte ed attivare azioni pilota in città.

Green Infrastructure &amp; Nature Based Solutions (verde e soluzioni naturali)

 Contatto dell'organizzazione per questa attività: Piergiorgio Tenani – [info@iltuoparco.it](mailto:info@iltuoparco.it) – 335 230482

Anno previsto per l'avvio dell'azione: 2024

La natura insegna: un ambiente è armonico e in grado di sostenersi nella misura in cui ha garantita la biodiversità: il verde in città, quindi come momento di crescita di iniziative e progettazioni che pongano i servizi ecosistemici al centro del contenimento degli effetti del cambiamento climatico in atto, tramite tavoli di co progettazione Istituzioni/Stakeholders/Organizzazioni/Imprese/Cittadini.

La rigenerazione dei locali di viale Michelotti come strumento ed obiettivo per ricreare un luogo di incontro e condivisione, favorendo inclusione e coesione sociale, sostenendo il valore sociale dell'autocostruzione come forma di responsabilizzazione, condivisione al risparmio, con la realizzazione di percorsi formativi per sviluppare proposte ed individuare azioni anche sul piano strutturale, stimolando una cultura capace di sostenere azioni concrete, individuali e collettive di Cittadinanza Attiva e azioni di Co progettazione partecipata di spazi urbani.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 23 febbraio 2024

Associazione Il Tuo Parco

Il Presidente

Piergiorgio Tenani

(Firmato digitalmente)



Copia del documento originale con apposizione del protocollo



Alla attenzione di Chiara Foglietta  
 Assessora alla Transizione Ecologica  
 della Città di Torino

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

 Il sottoscritto **CARLO MARIA TRESSO**

 In qualità di Legale rappresentante di **ATT SRL IMPRESA SOCIALE** con sede in **TORINO, VIA MURRONI 3**
**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. ATT Srl è una impresa sociale la cui mission è dare occupazione a persone fragili, con particolare attenzione a giovani con disabilità di tipo autistico o cognitivo, tramite la vendita di merende negli intervalli scolastici in scuole superiori della città metropolitana di Torino

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata nella produzione e distribuzione di alimenti, venduti in 11 scuole della città di Torino, nonché nella realizzazione di coffee break e light lunch

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: Carlo Maria Tresso, [carlomaria.tresso@attimpresasociale.it](mailto:carlomaria.tresso@attimpresasociale.it), 3519589219

Anno previsto per l'avvio dell'azione: 2024

Ogni mattina a partire dalle 6,00 le merende per gli studenti e i professori vengono preparate e confezionate presso il laboratorio dell'impresa sito in Cascina Fossata, da un team di giovani con disabilità di tipo autistico o cognitivo; da qui devono essere consegnate entro le 9,30 nelle scuole presso le quali altri team, uno per scuola, le ricevono per poi preparare i banchetti e procedere alla vendita durante gli

ATT Srl Impresa Sociale – sede legale in Torino, via Murrone 3 – CF 12520900015 – tel. 3519589219  
[carlomaria.tresso@attimpresasociale.it](mailto:carlomaria.tresso@attimpresasociale.it)      [attimpresasociale@pec.it](mailto:attimpresasociale@pec.it)

Arrivo: AOO 001, N. Prot. 00000328 del 16/02/2024

8.v, 70.v, 18/2024A/001.fra, 001.arm, 2.nd, 2.a

Copia del documento originale con apposizione del protocollo



intervalli. Alle 12,30, dopo l'ultimo intervallo, gli eventuali avanzi e gli incassi devono essere riportati a Cascina Fossata. A partire da quest'anno, l'azione prevista è quella di affidarsi per la distribuzione a cargo bike anziché organizzare la stessa con veicoli a motore come l'anno scorso. Due bici a pedalata ordinaria, non assistita che prevederebbe un utilizzo di energia elettrica, riescono a sostituire tre veicoli a motore che utilizzavamo l'anno scorso con maggiore efficienza poiché più veloci, più affidabili e meno condizionate dal traffico cittadino.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Carlo Maria Tresso, [carlomaria.tresso@attimpresasociale.it](mailto:carlomaria.tresso@attimpresasociale.it), 3519589219

Anno previsto per l'avvio dell'azione: 2024

Nell'ambito delle attività di produzione e confezionamento delle merende per le scuole è necessario disporre di un frigorifero, di un freezer, di un forno e di una affettatrice per ciascun punto di preparazione degli alimenti, che sono 4: Cascina Fossata è il principale, poi gli alimenti si preparano anche presso la scuola Maiorana di Torino, Galileo Ferraris di Settimo Torinese e Monti di Chieri. L'impresa prevede di non acquistare mai attrezzature nuove ma sempre rigenerate.

Inoltre l'impresa intende affrontare il problema dell'inventario in modo da evitare o ridurre comunque al minimo lo spreco di cibo. Lo fa in primo luogo con un accordo con l'organizzazione Too Good To Go, quindi con un accordo con un doposcuola, quindi intende farlo con l'organizzazione Eco delle Città che lo distribuisce gratuitamente ai bisognosi.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 16 febbraio 2024



*Carlo Maria Tresso*

(Firmato digitalmente)

ATT Srl Impresa Sociale – sede legale in Torino, via Murrioni 3 – CF 12520900015 – tel. 3519589219  
[carlomaria.tresso@attimpresasociale.it](mailto:carlomaria.tresso@attimpresasociale.it) [attimpresasociale@pec.it](mailto:attimpresasociale@pec.it)



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Franco Dipietro

In qualità di rappresentante legale di Biova srl società benefit con sede in Torino, Via Vela 42

#### PREMESSO CHE

- La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- Biova srl** è un'azienda che recupera invenduti e sottoprodotti della filiera agroalimentare per trasformarli in prodotti dal nuovo valore, seguendo i principi dell'economia circolare e dell'upcycling

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative

- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata in **recupero** di pane invenduto, sfridi di pasta, rotture di riso, trebbie esauste e in generale prodotti alimentari non commercializzabili o destinati allo smaltimento. Dopo il recupero avviene la trasformazione in prodotti alimentari quali birre, snack dolci e salati, latti vegetali e soft drink frutto di upcycling, ovvero fatti utilizzando meno risorse e materie prime. In questo modo si ha una diminuzione di spreco, una riduzione di sfruttamento delle risorse vergini e una diminuzione di emissioni di CO2 rispetto al processo equivalente.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy"  
Contatto dell'organizzazione per questa attività: Franco Dipietro – [franco@biovaproject.com](mailto:franco@biovaproject.com)  
Anno previsto per l'avvio dell'azione: servizio già attivo ma da ampliare

Recupero di almeno il 30% dell'inventario totale di pane della città di Torino e creazione di un prodotto da dedicare al territorio.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

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Torino, li 13 febbraio 2024

*Biova srl  
Franco Dipietro  
Fondatore e Amministratore Delegato*



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Moh'd Juma Eid

In qualità di Legale rappresentate di BLUE Engineering s.r.l. con sede in Rivoli, Via Albenga, 98.

#### PREMESSO CHE

- i.* La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii.* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii.* **BLUE Engineering s.r.l.** è una società d'ingegneria impegnata nella progettazione di veicoli (ferroviari, automotive, aerospazio, navale) e di servizi ICT per l'industria.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti :

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

**BLUE Engineering S.r.l.**  
Registered Office and Headquarters:  
98 Albenga Street  
Rivoli (TO) ITALY, 10098  
Phone: +39 011 950.42.11 | Fax: +39 011 950.42.17  
info@blue-group.it | www.blue-group.it

MOD.51-2-PQ03 26.05.21

Share Capital: Euro 190.000  
VAT 06791840017  
Fiscal Code: 01560630061



Company Certified DIN EN ISO 9001:2015 since 13.03.2009



In questo ruolo l'organizzazione è impegnata nell'incentivo del principio "Do No Significant Harm" sia nell'attività di progettazione di sistemi complessi (mission aziendale) sia nelle azioni che svolge al proprio interno atte al contenimento dell'impatto ambientale della propria attività sul territorio.

In questo contesto, BLUE Engineering ha in programma la promozione delle seguenti azioni:

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività: Pierangelo Farina – [p.farina@blue-group.it](mailto:p.farina@blue-group.it) – 342 7101104  
Anno previsto per l'avvio dell'azione: 2025  
L'attività lavorativa di BLUE Engineering si svolge in uno stabile nell'area industriale di Rivoli. In un ampio open space, circa 120 persone svolgono attività intellettuali.  
In collaborazione con UniTo (Agraria e Psicologia), BLUE Engineering sta progettando e sperimentando l'applicazione di un muro verde per purificare l'aria. L'installazione di una superficie estesa di "green wall" all'interno dello stabile consentirà di valutare:

- la riduzione del consumo dell'impianto di ricircolo d'aria forzato;
- gli effetti benefici sulla compensazione dell'umidità;
- l'impatto sul miglioramento del consumo per la filtrazione d'aria;
- il benessere psicologico indotto dalla presenza di piante nell'ambiente lavorativo.

In collaborazione con Thales Alenia Space, è in corso la realizzazione di un prototipo dell'applicazione in ambito spaziale. Progetto LiW@Space.



- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: Pierangelo Farina – [p.farina@blue-group.it](mailto:p.farina@blue-group.it) – 342 7101104  
Anno previsto per l'avvio dell'azione: 2025  
L'attività di BLUE Engineering comporta l'itinerario giornaliero di circa 120 persone.  
BLUE Engineering propone l'attuazione di un piano per la diminuzione delle emissioni strutturato sulle seguenti linee guida:

- Incentivo all'utilizzo dei mezzi pubblici: con il contributo da parte dell'azienda all'acquisto di abbonamenti e/o facilitazione degli orari di presenza;

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- Incentivo all'utilizzo di veicoli elettrici: con l'installazione di colonnine di ricarica nell'area pertinente allo stabile e l'erogazione di energia ad una tariffa agevolata (sperimentazione a tariffa gratuita per il primo anno);
- Incentivo utilizzo bicicletta: attraverso la generazione di premialità in termini facilitazione degli orari di lavoro e bonus cumulativo;
- Conversione graduale della flotta di veicoli aziendali in veicoli a bassa emissione (< 60 g/km di CO2);
- Attuazione di regole strutturali per lo svolgimento dell'attività lavorativa in smart working (lavoro agile), diminuzione della presenza media annua delle maestranze;

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività: Pierangelo Farina – [p.farina@blue-group.it](mailto:p.farina@blue-group.it) – 342 7101104  
Anno previsto per l'avvio dell'azione: 2025

L'attività lavorativa di BLUE Engineering si svolge in uno stabile nell'area industriale di Rivoli. In un ampio open space, circa 120 persone svolgono attività intellettuali.

In collaborazione con UniTo (Agraria e Psicologia), BLUE Engineering sta progettando e sperimentando l'applicazione di un muro verde per purificare l'aria. L'installazione di una superficie estesa di "green wall" all'interno dello stabile consentirà di valutare:

- la riduzione del consumo dell'impianto di ricircolo d'aria forzato;
- gli effetti benefici sulla compensazione dell'umidità;
- l'impatto sul miglioramento del consumo per la filtrazione d'aria;
- il benessere psicologico indotto dalla presenza di piante nell'ambiente lavorativo.

In collaborazione con Thales Alenia Space, è in corso la realizzazione di un prototipo dell'applicazione in ambito spaziale. Progetto LiW@Space.



*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.  
Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

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Torino, li 23 febbraio 2024

BLUE Engineering s.r.l.  
Il Legale Rappresentante  
Moh'd Juma Eid



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Andrea Maria Pirollo,

In qualità di Socio di CA' MARIUCCIA SSA, con sede in FRAZ. SAN EMILIANO, 2 14022 ALBUGNANO (AT)

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (*Climate City Contract*)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. CA' MARIUCCIA SSA è un'azienda agricola biologica e sociale, centro di formazione in agricoltura naturale.

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CA' Mariuccia S.S.A.  
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## MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti di Waste & Circular Economy (rifiuti ed economia circolare) e Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Andrea Maria Pirollo, email: [andrea.pirollo@camariuccia.it](mailto:andrea.pirollo@camariuccia.it) tel. 348 228 0993  
Anno previsto per l'avvio dell'azione: 2024

La società prevede importanti investimenti per il recupero di materiali e scarti del settore agroalimentare di varie filiere, tra cui quella del caffè e degli scarti vegetali della GDO, per nutrire gli animali presenti in cascina. Prevede inoltre la riduzione di imballaggi primari e secondari da parte dei fornitori.

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività: Andrea Maria Pirollo, email: [andrea.pirollo@camariuccia.it](mailto:andrea.pirollo@camariuccia.it) tel. 348 228 0993  
Anno previsto per l'avvio dell'azione: 2024

L'azienda prevede importanti investimenti per la produzione di energie rinnovabili e l'incremento dell'efficienza energetica di Ca' Mariuccia per avvicinarsi all'autosufficienza energetica. Tali azioni comprendono l'installazione di pannelli fotovoltaici sugli edifici (120 kW), il revamping della centrale degli edifici e rafforzare la bioedilizia. Con tali interventi si prevede un abbattimento del consumo elettrico e delle emissioni di CO2 rispetto ai precedenti anni.

Ca' Mariuccia S.S.A.  
Località San'Emiliano 2, 14022 Albugnano (AT)  
+39 3357507496 - [info@camariuccia.it](mailto:info@camariuccia.it)  
P.IVA 01572320057 - REA AT-126266  
[www.camariuccia.it](http://www.camariuccia.it)



2



Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 - by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, Il 21 Febbraio 2024

CA' MARIUCCIA S.S.A.  
FRAZ. SAN EMILIANO, 2  
14022  
ALBUGNANO AT  
tel: 00393357507496  
CODICE univoco: W7YVJK9  
P.I: 01572320057

La Legale Rappresentante

  
CA' MARIUCCIA S.S.A.  
FRAZ. SAN EMILIANO, 2  
14022 ALBUGNANO (AT)  
P.I. 01572320057

Angela Calligaro

147

Ca' Mariuccia S.S.A.  
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3



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Anna Franca Maria Capetti  
in qualità di rappresentante legale di Capetti Elettronica S.r.l. (C.F. e P.I. 04837130014), con sede legale in  
Castiglione Torinese (TO), Strada Rainero Stratta, 57

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **“100 Climate-Neutral Cities by 2030 – by and for Citizens”**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **“Contratto per il Clima (Climate City Contract)”**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. la **Capetti Elettronica S.r.l.** si occupa di progettazione, realizzazione e assistenza post-vendita di apparecchiature elettroniche di controllo per uso civile e industriale, e apparecchi elettronici per uso scientifico.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **“EU Mission for Climate-Neutral and Smart Cities”**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito

- Built Environment & Energy Systems (energia ed edifici)

In questo ruolo l'organizzazione è impegnata nella progettazione, nella realizzazione e nella fornitura di prodotti e servizi a realtà multiservizi di primaria importanza nel panorama italiano ed europeo dell'energy management.

- Attività che intende realizzare nell'ambito “Built Environment & Energy Systems (energia ed edifici)”  
Contatto dell'organizzazione per questa attività: Stefano Ippolito, [stefano.ippolito@capetti.it](mailto:stefano.ippolito@capetti.it) 011-98198235.

Capetti Elettronica S.r.l. – Strada Rainero Stratta, 57 - 10090 CASTIGLIONE TORINESE - TORINO - ITALIA  
Tel. 011.981.98.11 - Fax 011.981.98.210 - e-mail [info@capetti.it](mailto:info@capetti.it) - web [www.capetti.it](http://www.capetti.it) - P.I. 04837130014

Anno previsto per l'avvio dell'azione: 2024

Capetti Elettronica è una PMI che ha fatto dell'ecosostenibilità la sua ragion d'essere: la Mission aziendale è utilizzare il proprio know-how tecnologico e la propria vocazione all'innovazione continua per progettare e realizzare strumenti elettronici di ultima generazione al servizio della comunità, con lo scopo primario di tutelare l'ambiente per noi e per le generazioni future. Per ottenere una significativa riduzione delle emissioni inquinanti la Capetti Elettronica produce un'ampia gamma di datalogger per sistemi di monitoraggio finalizzati all'ottimizzazione dei consumi, all'efficiamento energetico, alla verifica delle dispersioni termiche e alla qualità dell'aria. In accordo con questa visione, l'azienda ha intrapreso un percorso verso l'integrazione delle performance di sostenibilità ambientale con quelle economiche che porterà la Capetti Elettronica ad ottenere nel 2024 la certificazione ISO14001 e a pubblicare il suo primo Report di Sostenibilità.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“il Programma”), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”.*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 19/02/2024

CAPETTI ELETTRONICA SRL  
La Legale Rappresentante  
Anna Franca Maria Capetti

(Firmato digitalmente)

Firmato digitalmente da: ANNA  
FRANCA MARIA CAPETTI  
Data: 19/02/2024 11:18:14

Pagina 2 di 2

Capetti Elettronica S.r.l. – Strada Rainero Stratta, 57 - 10090 CASTIGLIONE TORINESE - TORINO - ITALIA  
Tel. 011.981.98.11 - Fax 011.981.98.210 - e-mail [info@capetti.it](mailto:info@capetti.it) - web [www.capetti.it](http://www.capetti.it) - P.I. 04837130014





*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Giuliano Antoniciello

In qualità di rappresentante legale di CarpeCarbon SRL SB con sede in via Oropa 137, 10153, Torino

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **CarpeCarbon SRL SB** è la prima startup italiana, fondata con la missione di rendere economica e scalabile la cattura diretta dell'anidride carbonica dall'atmosfera sviluppando un sistema altamente efficiente e dall'impatto positivo misurabile.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito

- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata in

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività:  
Giuliano Antoniciello, [giuliano.antoniciello@carpecarbon.com](mailto:giuliano.antoniciello@carpecarbon.com), +39 3401942229  
Anno previsto per l'avvio dell'azione: 2024

Descrizione sintetica dell'attività:

Progettazione e insediamento sul territorio della Città Metropolitana di Torino dell'impianto pilota di CarpeCarbon per la rimozione permanente di 1000 tonnellate/anno di CO2

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 27 febbraio 2024

*CarpeCarbon SRL SB  
Il Legale Rappresentante  
Giuliano Antoniciello*

Firmato digitalmente da:

*Giuliano Antoniciello*  
Data: 01/03/2024 09:59:18

(Firmato digitalmente)



Alla attenzione di Chiara Foglietta

Assessora alla Transizione Ecologica  
della Città di Torino

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto dott. ing. Pietro Calò, in qualità di Rappresentante legale di Is CLEAN AIR S.r.l. – Società Benefit con sede in Roma - 00187, Via Sardegna n. 50

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Is CLEAN AIR S.r.l. – Società Benefit (ISCLEANAIR SB) è una PMI innovativa che si occupa della realizzazione e dell'implementazione di soluzioni di purificazione dell'aria ambiente in tutti gli spazi di vita e di lavoro grazie ad una tecnologia avanzata proprietaria, brevettata e certificata, validata e qualificata, senza alcun tipo di filtro e basata sull'impiego di semplice acqua, creando ambienti più sani e sicuri, efficienti dal punto di vista energetico e sostenibili da quello ambientale e sociale.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito/i “**Green Infrastructure & Nature Based Solutions**” (verde e soluzioni naturali).

In questo ruolo l'organizzazione è impegnata a garantire che la città di Torino possa divenire un modello ed una Smart City in cui il problema dell'inquinamento dell'aria che si respira, e che la affigge ed opprime in maniera significativa, possa essere affrontato in maniera radicale, modulare, scalabile e strutturale e, pertanto, risolto con efficacia grazie all'impiego della tecnologia e delle relative soluzioni innovative APA (Air Pollution Abatement), nell'ambito d'interventi ed integrazioni multidisciplinari rapidi e concreti, con implementazioni di effetto tempestivo a servizio degli spazi urbani, delle infrastrutture, degli edifici e, in generale, in tutti gli spazi di vita e di lavoro a beneficio della Municipalità, della qualità della vita della popolazione e, ovviamente, dell'ambiente in generale, contrastando i cambiamenti climatici ed il riscaldamento globale, considerando che gli inquinanti, seppure sia poco noto, costituiscono uno dei principali fattori climalteranti a discapito della nostra amata Terra.

Is CLEAN AIR S.r.l. – Società Benefit  
Capitale Sociale i.v. € 846.590,67  
P.IVA, C.F. e Registro delle Imprese  
n. 02368940223

Sede Legale:  
Via Sardegna n. 50  
00187 ROMA (RM – Italia)  
Presso Studio Legale “P&I Guccione e Associati”

Principale Sede Operativa:  
Via Padre Ugolino Frasca n. 10,  
66013 Chieti (CH - Italia)  
Presso stabilimenti Alma c.i.s. S.r.l.

1

In effetti, ISCLEANAIR SB ha rivoluzionato il settore della sostenibilità ambientale e dell'efficienza energetica con la proposizione di valore della tecnologia APA (20+ brevetti) e delle relative soluzioni, innovative e versatili, che impiegano semplice acqua e l'intelligente forza della natura e procedimenti meccanici, eliminando costi ed implicazioni derivanti dall'uso di filtri e con limitatissime spese di gestione; in tempi estremamente l'impiego di APA permette un'impressionante riduzione del 99+% dell'inquinamento, eliminando dell'aria ambiente la più ampia gamma di sostanze tossiche e nocive di natura solida, chimica e gassosa simultaneamente (provenienti dalle emissioni industriali, dagli spazi urbani, da allevamenti ed aree agricole, ecc.) quali: Particolato (PM 1, 2.5 – PM 10), metalli pesanti, idrocarburi policiclici aromatici, idrocarburi leggeri, ossidi e biossidi di azoto (NOx), ossidi e biossidi di zolfo (SOx), ossido di carbonio (CO), Anidride carbonica (CO2) e ozono (O3), pollini e spore.

In particolare, test, verifiche ed analisi estese e numerose certificazioni hanno dimostrato un'elevata capacità di assorbimento in acqua dei gas serra, come la CO2, dell'ammoniaca (NH3) e del particolato sino a particelle di dimensione di 20 nanometri, decisamente più piccole di quelle che costituiscono il primario vettore di dispersione dei virus e di rischio di contaminazione, abilitando la tecnologia a nuove funzioni ed attività, quali la rilevazione - detection - dei microorganismi in semplice acqua, ed estendendo le funzionalità di protezione della salute dell'uomo.

ISCLEANAIR SB vanta una vasta gamma di soluzioni tecnologiche validate per l'implementazione in ambiti complessi caratterizzati da forte inquinamento, sia industriali e produttivi sia di tipo urbano, grazie alla versatilità di sistemi multi-forma e multifunzione, i quali hanno mostrato e posto in risalto risultati rilevanti, e la possibilità d'intervenire con approcci modulari, scalabili e flessibili; sono stati eseguite sinora oltre 200 installazioni in ambienti reali nell'ambito di circa 60 progetti, dispone di prerogative e titolarità di brevetti e di diritti di proprietà intellettuale, prestigiose certificazioni e riconoscimenti in tutto il mondo, è si è affermata per una chiara leadership e supremazia tecnologica nel proprio settore, ormai acclarata, a livello globale.

L'azione di purificazione dell'aria eseguita da APA è rapidissima e di norma immediata, offrendo significativi benefici già nel breve termine dopo sole poche settimane d'utilizzo dei sistemi senza filtro e basati su acqua; l'implementazione segue una precisa strategia di distribuzione e dei modelli d'intervento con soluzioni versali, multi-forma e multiservizio, brevettato, che permette di rispondere alle esigenze tecnologiche in maniera modulare, sia su spazi limitati sia su vaste aree cittadine di rischio.

La tecnologia e le soluzioni APA si sono dimostrate molto concrete per eseguire azioni di decarbonizzazione, ottenendo riconoscimenti importanti come BAT – Best Available Technology (EU – IPCC Direttiva 2008/1/CE), certificazioni da parte della prestigiosa Solar Impulse Foundation (2019 e 2023) da “The Arch – Parlamento Europeo (2023), queste ultime come soluzioni efficienti e profittevoli e come una delle migliori 100 per apportare concreti benefici per il pianeta.

Di recente, un'importante azienda di servizi specializzata nel comparto ambiente ed energia ha esaminato e valutato la capacità di purificazione dell'aria eseguita dai sistemi APA in equivalenza con quella d'assorbimento degli alberi, ed ha dimostrato e posto in evidenza che un singolo sistema standard (APA Panel) presenta una capacità di cattura dell'inquinamento (absorbing power) pari a circa 3.000 alberi in termini di abbattimento della CO2, di 1.598 alberi in termini di sequestro degli NOx e di 125 alberi per quanto concerne il particolato, usando la preziosa risorsa acqua ben 500 volte di meno.

Is CLEAN AIR S.r.l. – Società Benefit  
Capitale Sociale i.v. € 846.590,67  
P.IVA, C.F. e Registro delle Imprese  
n. 02368940223

Sede Legale:  
Via Sardegna n. 50  
00187 ROMA (RM – Italia)  
Presso Studio Legale “P&I Guccione e Associati”

Principale Sede Operativa:  
Via Padre Ugolino Frasca n. 10,  
66013 Chieti (CH - Italia)  
Presso stabilimenti Alma c.i.s. S.r.l.

2



Posta a servizio della città di Torino, in risposta alle esigenze ambientali ed a quelle di circa 900.000 persone che vivono nel capoluogo piemontese, la tecnologia e le soluzioni APA rivestirebbero un ruolo primario per abilitare la configurazione e realizzazione d'interventi sostenibili negli spazi d'impiego, dal punto di vista sociale così come a livello economico ed energetico, abilitando una drastica riduzione dell'inquinamento e delle emissioni climalteranti e nocive per il benessere dei cittadini che, quotidianamente, sono impattati da scarsa qualità dell'aria, troppo spesso al limite della accettabilità (fonte: IPQA).

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)
- Contatto dell'organizzazione per questa attività:
  - Chiara Verderese:
    - [cverderese@iscleanair.com](mailto:cverderese@iscleanair.com)
    - +39 3929574967
- Anno previsto per l'avvio dell'azione: 2024

Le soluzioni a beneficio della città di Torino sono molteplici: progetti tecnologici e di tipo "città sostenibile del futuro" negli spazi urbani, interventi diretti in aree di rischio, soluzioni di *Institutional Social Responsibility* e in aree esterne ed interne delle infrastrutture cittadine, soluzioni per applicazioni in ambiti industriali impattanti, scuole, Università, musei, teatri..

Disponiamo di soluzioni avanzate, di design, adattabili ai vari spazi d'impiego, sistemi certificati con massimo livello di prontezza tecnologica (TRL 9 e 8, in termini di impiantistica) pronti a produzione e implementazione di scala industriale: pannello, fioriera, mini – pannello ed impianti speciali.

A servizio delle infrastrutture (Smart Buildings, stazioni ferroviarie..) offriamo una soluzione intelligente che prevede l'accoppiamento di pannelli APA con le Unità di Trattamento dell'Aria (HVAC) che consente un efficiente sistema di eliminazione dell'inquinamento dell'aria negli edifici, diffusamente, e un risparmio del 25% di consumi energetici e del 20-25% delle emissioni di CO<sub>2</sub>.

*Le informazioni sopra riportate sono fornite dalla nostra Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima", per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa ed a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma. Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma". La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Roma, li 19 febbraio 2024

**Is CLEAN AIR S.r.l. – Società Benefit**  
 Capitale Sociale i.v. € 846.590,67  
 P.IVA, C.F. e Registro delle Imprese  
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**Sede Legale:**  
 Via Sardegna n. 50  
 00187 ROMA (RM – Italia)  
 Presso Studio Legale "P&I Guccione e Associati"

**Principale Sede Operativa:**  
 Via Padre Ugolino Frasca n. 10,  
 66013 Chieti (CH - Italia)  
 Presso stabilimenti Alma c.i.s. S.r.l.

3



**Is CLEAN AIR S.r.l. – Società Benefit**  
 Il Legale Rappresentante e Presidente del  
 Consiglio d'Amministrazione  
 dott. ing. Pietro Calò  
 (Firmato digitalmente)



Firmato digitalmente da:  
 CALO' PIETRO  
 Firmato il 21/02/2024 10:13  
 Seriale Certificato: 3101262  
 Valido dal 12/12/2023 al 12/12/2026  
 InfoCamere Qualified Electronic Signature CA

155



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Alberto Ferrari,  
In qualità di Legale Rappresentante dell'Associazione culturale Club Silencio con sede in Corso Massimo  
d'Azeglio, 60, Torino, prov. TO, C.A.P. 10126

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Associazione culturale Club Silencio**, un'associazione culturale torinese impegnata in progetti esperienziali che **stimolino la partecipazione attiva dei giovani under 35 alla vita culturale, sociale e democratica del proprio territorio**

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Built Environment & Energy Systems (energia ed edifici)
- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo, l'organizzazione si impegna a diffondere e sensibilizzare il suo pubblico sullo sviluppo sostenibile, perseguendo una visione a 360 gradi della sostenibilità che abbracci sia l'ambiente, sia la società, sia l'economia.

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività: Andrea Lucia Goffredo, [andrealucia@clubsilencio.it](mailto:andrealucia@clubsilencio.it), +39 340 142 3550  
Anno previsto per l'avvio dell'azione: Avviato e previsto proseguire nei prossimi anni.

1



Con l'assistenza dell'ente di certificazione RINA S.p.A., Club Silencio lavora costantemente per ridurre l'impatto ambientale dei suoi eventi e ha ottenuto la certificazione ISO 20121 Sustainable Event Management.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Andrea Lucia Goffredo, [andrealucia@clubsilencio.it](mailto:andrealucia@clubsilencio.it), +39 340 142 3550 e Beatrice Dema, [progettazione@clubsilencio.it](mailto:progettazione@clubsilencio.it), +39 338 671 3423  
Anno previsto per l'avvio dell'azione: Avviato e previsto proseguire nei prossimi anni.
- 1. Club Silencio adotta pratiche volte a limitare l'impatto ambientale dei suoi eventi, tra cui l'utilizzo di biglietti digitali, comunicazioni digitali, bicchieri riutilizzabili, raccolta differenziata dei rifiuti, illuminazione a batteria e segnaletica su carta riciclata. Inoltre, privilegia partner e fornitori locali che adottano pratiche sostenibili;
- 2. Club Silencio, in collaborazione con AWorld, ogni anno organizza il festival giornaliero Earth Day Torino. L'obiettivo è promuovere la partecipazione attiva dei cittadini allo sviluppo sostenibile, incoraggiando il cambiamento dello stile di vita verso pratiche allineate con gli obiettivi dell'Agenda 2030;
- 3. Club Silencio organizza almeno una volta all'anno l'evento "Una Notte al Museo" focalizzato sul tema dello sviluppo sostenibile e sulla diffusione di informazioni sull'ambiente. "Una notte al Museo" è un format degli eventi di audience engagement finalizzato a rendere accessibile il patrimonio culturale e artistico locale ai giovani under 35.

Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 26/02/2024

*Associazione Club Silencio  
Il Legale Rappresentante  
Alberto Ferrari*



Name: Ferrari Alberto  
Issued by: InfoCamere Qualified Electronic Signature C.

(Firmato digitalmente)

2



+39 011 189 56 338  
info@coesaenergy.com  
Via Claudio Beaumont 7 - 10143 Torino

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Federico Sandrone  
In qualità di rappresentante legale di COESA srl con sede in Torino, Via Claudio Beaumont 7.

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. COESA srl, Semplifichiamo la transizione energetica, per noi e per il nostro pianeta. Offriamo ai clienti le migliori soluzioni di efficienza energetica. Facilitiamo l'accesso a incentivi dedicati e forniamo la messa in opera chiavi in mano.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i Built Environment & Energy Systems e Waste & Circular Economy

In questo ruolo l'organizzazione è impegnata in progetti di efficientamento energetico di edifici, installazione di impianti fotovoltaici per aziende e di economia circolare, grazie alla creazione del primo marketplace italiano dedicato interamente al fotovoltaico usato.

Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Contatto dell'organizzazione per questa attività: Matteo Stoppa, [stoppa@coesaenergy.com](mailto:stoppa@coesaenergy.com) 3498641572  
Anno previsto per l'avvio dell'azione: potenzialmente per 2024 (già attivi dal 2012)

Coesa srl | Semplifichiamo la transizione ecologica | P.IVA/CF 10734760019



+39 011 189 56 338  
info@coesaenergy.com  
Via Claudio Beaumont 7 - 10143 Torino

*Gli incentivi statali dedicati all'efficientamento energetico hanno incrementato l'accessibilità a questo tema, importante e fondamentale per la transizione energetica. In una pianificazione industriale 2024-2026, vogliamo puntare alla manutenzione di questa opportunità lavorando in stretta sinergia con le Comunità Energetiche e l'integrazione di sistemi di monitoraggio atti a sensibilizzare i cittadini a un corretto utilizzo delle fonti energetiche.*

Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Matteo Stoppa, [stoppa@coesaenergy.com](mailto:stoppa@coesaenergy.com) 3498641572  
Anno previsto per l'avvio dell'azione: [2024]

*Il progetto nasce dall'estensiva ricerca di un tema forse poco noto, ma che ha e avrà un impatto ambientale molto importante: stiamo parlando del fotovoltaico usato.*

*Siamo arrivati a un punto di svolta, i grandi impianti fotovoltaici stanno compiendo operazioni di revamping e pannelli con soli 10 anni di vita, e con performance dell'80% sono destinati alla discarica, a fronte di tecnologie più moderne ed efficienti (previsti in Europa 60mln di tonnellate di pannelli destinati alla discarica entro il 2030 – Fonte SolarPower Europe).*

*Per questa ragione nasce KeepTheSun, il primo marketplace interamente dedicato alla compravendita di fotovoltaico usato e supporto alla corretta gestione dei pannelli di rifiuto (non più funzionanti) con una filiera di stakeholder in grado di recuperare fino al 95% di materie prime di un pannello.*

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 21/02/2024

COESA srl  
Il Legale Rappresentante

Coesa srl | Semplifichiamo la transizione ecologica | P.IVA/CF 10734760019



+39 011 189 56 338  
info@coesaenergy.com  
Via Claudio Beaumont 7 – 10143 Torino

Federico Sandrone

(Firmato digitalmente)



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino  
[fondieuropei@cert.comune.torino.it](mailto:fondieuropei@cert.comune.torino.it)

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto Andrea Fabbri, in qualità di rappresentante legale di Fondazione Collegio Universitario di Torino Renato Einaudi con sede in Torino, Via Maria Vittoria 39

#### PREMESSO CHE

- La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- il Contratto è un documento programmatico con il quale l’Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- Fondazione Collegio Universitario di Torino Renato Einaudi è una fondazione privata senza fini di lucro che gestisce Collegi di Merito, riconosciuti e accreditati dal MUR (Ministero dell’Università e della Ricerca). Il Collegio Einaudi ha come missione la valorizzazione del merito e del potenziale di studenti universitari motivati, che desiderano sviluppare maggior autonomia, nuove capacità e raggiungere risultati eccellenti, offrendo loro non solo un ambiente di studio e di vita vivace, stimolante e interdisciplinare, ma soprattutto un percorso di formazione personalizzato e trasversale, integrato da attività di coaching e di tutoring.

#### MANIFESTA

l’interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all’ambito:

- Built Environment & Energy Systems (energia ed edifici)

In questo ruolo l’organizzazione è impegnata in un’intensa opera di riqualificazione edilizia degli immobili di sua proprietà (5 residenze universitarie in Città per oltre 850 posti di studio) con un duplice obiettivo: 1) adeguarli alle esigenze di vita contemporanea delle comunità studentesche (soprattutto in materia di comfort, sicurezza, ecosostenibilità) e 2) ampliare il numero di posti di studio da mettere a disposizione di studenti meritevoli.



Via Maria Vittoria, 39 | 10123 TORINO  
Tel. 011 8126853 | Fax 011 8171008 - C.F. 80082160013 - [www.collegioeinaudi.it](http://www.collegioeinaudi.it)



Enti  
fondatori





Per quel che riguarda l'impegno nella ridurre dell'impatto ambientale delle proprie strutture residenziali sul territorio gli interventi sono stati negli anni molteplici e via via più complessi: dalla sostituzione di tutte le lampade interne con illuminazione a LED, all'impianto solare termico sulle coperture di 3 dei 5 edifici; dall'impianto di riciclo delle acque grigie della Sezione Valentino alla certificazione LEED Gold per la Sezione Po di Via Maria Vittoria 39 (solo per citarne alcuni).

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Contatto dell'organizzazione per questa attività: Loris Grasso [loris.grasso@collegioeinaudi.it](mailto:loris.grasso@collegioeinaudi.it) cell. 335 7845701

Anno previsto per l'avvio dell'azione: Anno 2025

**Intervento di efficientamento energetico presso le Sezz San Paolo e Crocetta site in Via Bobbio 3 e Corso Leone 24, Torino.**

Elementi-chiave:

- diagnosi energetica preliminare per l'individuazione di interventi di efficientamento e/o miglioramento energetico per:
  - redazione di un **attestato di prestazione energetica ante (e post) intervento (APE)**;
  - redazione di una **relazione di audit energetico, comprensiva di bilancio energetico**, con definizione dei possibili interventi di efficientamento energetico e valutazione fattibilità tecnica ed economica;
- sulla base dei risultati delle analisi effettuate, potranno essere realizzati i seguenti interventi:
  - **riqualificazione energetica** dell'edificio con interventi migliorativi finalizzati all'aumento della resistenza termica dell'involucro;
  - **adeguamento del sistema di riscaldamento** mediante nuovo impianto ad alta efficienza;
  - **sostituzione di impianti di condizionamento estivo** presenti nei locali comuni con altri ad alta efficienza;
  - sostituzione di **impianti ascensore** per il superamento delle barriere architettoniche con altri ad alta efficienza.

Infine nell'ambito del progetto si valuteranno soluzioni progettuali tali da consentire al Collegio di contenere al meglio i consumi di acqua potabile, energia elettrica e combustibile.

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]

Anno previsto per l'avvio dell'azione: [Anno]

[descrizione azione max 1000 caratteri] \_\_\_\_\_

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- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]

Anno previsto per l'avvio dell'azione: [Anno]

[descrizione azione max 1000 caratteri] \_\_\_\_\_

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- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]

Anno previsto per l'avvio dell'azione: [Anno]

[descrizione azione max 1000 caratteri] \_\_\_\_\_

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*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.  
Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".  
La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 15/02/2024

Fondazione Collegio Universitario Einaudi  
Il delegato del Legale Rappresentante  
Ing. Andrea Fabbri  
*Direttore Generale*  
*(Documento informatico sottoscritto  
con firma digitale ai sensi del D.Lgs n. 82/2005)*





*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto GIOVANNI GALLO

In qualità di Rappresentante Legale di CONFCOOPERATIVE PIEMONTE NORD  
con sede in TORINO - C.SO FRANCIA 15 – 10138 TORINO

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. CONFCOOPERATIVE PIEMONTE NORD è una associazione giuridicamente riconosciuta, di rappresentanza, assistenza, tutela e revisione del movimento cooperativo. Confcooperative Piemonte Nord rappresenta le zone dell'area metropolitana torinese, di Novara, Biella e Vercelli e del Verbano Cusio Ossola.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i:

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in:



- Attività che intende realizzare nell'ambito “Built Environment & Energy Systems (energia ed edifici)”  
Contatto dell'organizzazione per questa attività:  
Alessandra Brogliatto  
[alessandra.brogliatto@confpiemontenord.coop](mailto:alessandra.brogliatto@confpiemontenord.coop) - 3396757385  
Anno previsto per l'avvio dell'azione: 2025  
Descrizione Attività: sostenere le imprese associate nell'intervenire sugli edifici in uso, in particolare quelli destinati ai servizi alla persona, affinché siano introdotte misure di contenimento dei costi di gestione energetica. Sia sostenendo adeguate riqualificazioni degli stabili che accompagnando alla scelta di soluzioni energetiche a basso impatto ambientale. Confcooperative stessa opererà per sostenere e accompagnare gli investimenti che verranno effettuati dalla proprietà dei locali presso cui opera.
- Attività che intende realizzare nell'ambito “Mobility & Transport (trasporti e mobilità)”  
Contatto dell'organizzazione per questa attività:  
Alessandra Brogliatto  
[alessandra.brogliatto@confpiemontenord.coop](mailto:alessandra.brogliatto@confpiemontenord.coop) - 3396757385  
Anno previsto per l'avvio dell'azione: 2025  
Descrizione Attività: sostenere e supportare la creazione di figure quali i mobility manager anche in contesti di piccole medie dimensioni, condividendone l'investimento. Agevolare ed incentivare non solo l'utilizzo dei mezzi pubblici ma anche sostenendo il ricambio del parco autoveicoli destinati a servizi nella direzione del veicolato elettrico e attrezzando tutte le sedi di lavoro dove questo sia strutturalmente possibile con colonnine di ricarica. Confcooperative formerà figure professionali al proprio interno che possano essere messe a disposizione delle proprie associate affinché tale obiettivo possa assumere concretezza, in particolare modo quello di mettere a disposizione Mobility Manager.
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività:  
Alessandra Brogliatto  
[alessandra.brogliatto@confpiemontenord.coop](mailto:alessandra.brogliatto@confpiemontenord.coop) – 3396757385  
Anno previsto per l'avvio dell'azione: 2024  
Descrizione Attività: sostenere la creazione di comunità energetiche a cui possano partecipare tutte le figure previste dalle norme generando hub di consumo e produzione territoriali. In particolar







modo sosterrà la rete che all'interno della CCIAA di Torino si è venuta a generare con le altre Associazioni di Rappresentanza delle Imprese denominata CerTo.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola*

*organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 22 febbraio 2024

Confcooperative Piemonte Nord  
Il Legale Rappresentante  
Giovanni Gallo

(Firmato digitalmente)

CONFCOOPERATIVE  
Piemonte Nord

Corso Francia 15  
10138 TORINO



t +39 011 4343181 confcoop@confpiemontenord.coop  
f +39 011 4342128 www.piemontenord.confcooperative.it



## CONSULTA COMUNALE PER L'AMBIENTE E IL VERDE CITTA' DI TORINO

Alla attenzione di Chiara Foglietta

Assessora alla Transizione  
Ecologica

della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Piergiorgio Tenani

In qualità di rappresentante legale della Consulta Ambiente <verde della Città di Torino con sede presso Municipio di Torino piazza Palazzo di Città 1 Torino

PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. la CONSULTA COMUNALE PER L'AMBIENTE E IL VERDE della CITTA' DI TORINO, istituita il 16 ottobre del 2017 con delibera n. ord. 105 2017 02853/002, si è impegnata in questi anni sulle tematiche specifiche dettate dai doveri di istituto come previsto dalla succitata delibera, inserendosi e proponendosi con osservazioni, proposte ed azioni che sono state presentate all'attenzione del Consiglio Comunale ed alla cittadinanza per dare uno specifico contributo alle tematiche ambientali con particolare attenzione al verde cittadino nelle sue varie espressioni.

MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart

ISTITUITA CON DELIBERAZIONE MECC.N.2017 02853/002  
APPROVATA DAL CONSIGLIO COMUNALE IN DATA 16/10/2017  
web: [consulte.comune.torino.it/ambienteverde/](https://consulte.comune.torino.it/ambienteverde/) mail: [consultaambienteverde@comune.torino.it](mailto:consultaambienteverde@comune.torino.it)  
Presidente: [pgtenani@gmail.com](mailto:pgtenani@gmail.com) – Vicepresidente: [oscarbrunasso@yahoo.it](mailto:oscarbrunasso@yahoo.it)

Pag. 1 di 3



## CONSULTA COMUNALE PER L'AMBIENTE E IL VERDE CITTA' DI TORINO

**Cities**", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- X - Built Environment & Energy Systems (energia ed edifici)
- X - Mobility & Transport (trasporti e mobilità)
- X - Waste & Circular Economy (rifiuti ed economia circolare)
- X - Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in particolare per:

- lo sviluppo di azioni per stimolare sia la cittadinanza ad un ruolo proattivo, sinergico e collaborativo per la crescita della consapevolezza e delle conseguenti azioni che possono essere realizzate sia singolarmente sia collettivamente;
- altresì si è sentita in dovere di stimolare concretamente il Consiglio Comunale nell'approfondimento delle tematiche che la riguardano, avendo sempre un occhio estremamente attento sia alla salvaguardia e lo sviluppo del verde come elemento indispensabile alla vita in città sia per il contrasto alle conseguenze del mutamento climatico in atto, sia per garantire condizioni di vita più salubri per la salute e la coesione sociale;
- il sostegno ai sistemi di mobilità "dolce", alla modifica delle attuali condizioni di spostamento anche in termini di mezzi utilizzati, ma anche come strumento di un cambio culturale, utile alla riduzione dei consumi energetici, alle emissioni di CO2 e degli inquinanti nocivi alla salute con interventi, svolti in collaborazione con gli Assessorati di competenza per creare migliori condizioni e comportamenti della cittadinanza (es. il decalogo per una guida etica sicura e meno inquinante che sta per essere proposto alle scuole della città;);
- il Bilancio Energetico, il sistema integrato della raccolta rifiuti, lo studio e le proposte per l'abbattimento almeno parziale delle cause che provocano un aumento dei fenomeni legati al cambiamento climatico in atto l'Impronta Idrica con strumenti di approfondimento e analisi scientifica per creare maggiore consapevolezza sulle problematiche legate al futuro del pianeta;

Contatto dell'organizzazione per tutte le attività:

Piergiorgio Tenani - Presidente — 335 230482 – mail [consultaambienteverde@comune.torino.it](mailto:consultaambienteverde@comune.torino.it).

Ad oggi le attività specifiche della consulta si sviluppano grazie all'opera di gruppi di lavoro:

- rifiuti, economia circolare: obiettivo zero sprechi e "rifiuti zero"
- verde, salvaguardia delle aree protette, valorizzazione della biodiversità e dei servizi ecosistemici;
- la preservazione degli aspetti naturalistici ancora presenti in città che influiscono sul piano ambientale ma anche sociale (inclusione, cittadinanza attiva,...)

ISTITUITA CON DELIBERAZIONE MECC.N.2017 02853/002  
APPROVATA DAL CONSIGLIO COMUNALE IN DATA 16/10/2017  
web: [consulte.comune.torino.it/ambienteverde/](http://consulte.comune.torino.it/ambienteverde/) mail: [consultaambienteverde@comune.torino.it](mailto:consultaambienteverde@comune.torino.it)  
Presidente: [pgtenani@gmail.com](mailto:pgtenani@gmail.com) – Vicepresidente: [oscarbrunasso@yahoo.it](mailto:oscarbrunasso@yahoo.it)

Pag. 2 di 3



## CONSULTA COMUNALE PER L'AMBIENTE E IL VERDE CITTA' DI TORINO

- energia (es. sviluppo CER) e qualità dell'aria, inquinamento, salute, mobilità dolce e sistemi di trasporto a basso impatto con particolare rilievo a proposte per cambiare il paradigma dell'uso dell'automobile privata e dei mezzi pubblici;
- il Po, ecosistema di alto valore naturalistico, paesaggistico e turistico legato ad iniziative di salvaguardia, sicurezza e promozione anche culturale

tutte le attività fanno capo alla Consulta nel suo complesso; quindi per qualsiasi sviluppo futuro si prega di fare riferimento al Presidente che provvederà a coinvolgere le varie componenti la Consulta stessa ed i gruppi di lavoro per interesse.

Anno previsto per l'avvio dell'azione: 2024 - continuazione

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 1 marzo 2024

Consulta Ambiente verde Città di Torino

Il Presidente

Piergiorgio Tenani

(Firmato digitalmente)

ISTITUITA CON DELIBERAZIONE MECC.N.2017 02853/002  
APPROVATA DAL CONSIGLIO COMUNALE IN DATA 16/10/2017  
web: [consulte.comune.torino.it/ambienteverde/](http://consulte.comune.torino.it/ambienteverde/) mail: [consultaambienteverde@comune.torino.it](mailto:consultaambienteverde@comune.torino.it)  
Presidente: [pgtenani@gmail.com](mailto:pgtenani@gmail.com) – Vicepresidente: [oscarbrunasso@yahoo.it](mailto:oscarbrunasso@yahoo.it)

Pag. 3 di 3



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto **Diego Vezza**,  
In qualità di **Presidente** della **Consulta della Mobilità Ciclistica e Moderazione del Traffico**, organo del  
Consiglio Comunale della città di Torino

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **“100 Climate-Neutral Cities by 2030 – by and for Citizens”**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **“Contratto per il Clima (Climate City Contract)”**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. La Consulta della Mobilità Ciclistica e Moderazione del Traffico, secondo la Delibera del Consiglio Comunale del 13 marzo 2017, ha funzioni propositive, consultive e di confronto con l'Amministrazione sui temi relativi a una città più sicura e vivibile, quali la mobilità ciclabile, pedonalizzazioni e scuole car free, in vista di una futura città 30.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **“EU Mission for Climate-Neutral and Smart Cities”**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito:

- Built Environment & Energy Systems (energia ed edifici)
- **Mobility & Transport (trasporti e mobilità)**
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in supportare e promuovere la cultura della mobilità ciclabile, di nuove ciclabili e strade condivise a priorità ciclabile, pedonalizzazioni di fronte alle scuole, in un ruolo propositivo e consultivo con i tecnici comunali e l'Assessorato di riferimento verso la Città 30.

1



- Attività che intende realizzare nell'ambito **“Mobility & Transport (trasporti e mobilità)”**  
Contatto dell'organizzazione per questa attività: **Diego Vezza** – [vezza.diego@gmail.com](mailto:vezza.diego@gmail.com) – 333 2336289  
Anno previsto per l'avvio dell'azione: -
  - Consultazione per il nuovo **PRG di Torino**
  - Consultazione per il progetto di **Città 30**
  - Proposte di **un'infrastruttura ciclabile** estesa e interconnessa in continuità con Biciplan urbano e metropolitano
  - Proposte di **manutenzione** della rete ciclabile già esistente e relativa segnaletica
  - Proposte di **eliminare la sosta alle intersezioni** con ciclabili, fonte di scarsa visibilità e possibili collisioni
  - Proposte di **ciclo-parcheggi** in occasione dei grandi eventi (Salone Libro, ATP Finals, partite e concerti negli stadi)
  - Proposte di nuove **velostazioni** nelle stazioni ferroviarie e della metropolitana
  - Organizzazione e realizzazione del **“Park(ing) Day”** durante la Settimana Europea della Mobilità Sostenibile
  - Rilevazioni durante il **“Giretto d'Italia”**
  - **Sopralluoghi e funzioni consultive**: la Consulta esprimerà parere obbligatorio non vincolante su progetti e deliberazioni della Città che riguardino le tematiche di propria competenza, entro 30 giorni dal ricevimento della documentazione necessaria all'elaborazione del parere
  - **Supporto comunicativo e organizzativo** alle attività/eventi delle singole associazioni della Consulta

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“il Programma”), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”.*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 19.02.2024

**Consulta della Mobilità Ciclistica e  
Moderazione del Traffico**

Il/la Legale Rappresentante  
**Diego Vezza**

*Diego Vezza*

2



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

PEC: [fondieuropei@cert.comune.torino.it](mailto:fondieuropei@cert.comune.torino.it)

PROT.2024-AG/739

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto Roberto Galassi

In qualità di presidente del Consiglio di Amministrazione e Legale Rappresentante pro tempore della Cooperativa Sociale P.G. Frassati scs onlus con sede legale in Torino Strada della Pellerina 2/7 Torino 10146

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. Il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. La cooperativa Sociale P.G. Frassati scs onlus è un'impresa sociale senza fini di lucro che progetta e gestisce servizi socio-assistenziali, sanitari ed educativi. La mission consiste principalmente nella creazione di nuove opportunità di lavoro, investendo su innovazione e alta professionalità per la cura e il benessere delle persone. La cooperativa ha una crescita equilibrata, sceglie con cura le attività da intraprendere e valorizza le potenzialità del territorio attraverso l'utilizzo virtuoso delle risorse finanziarie. Operare con lo sguardo rivolto al futuro, nell'interesse generale della comunità, dei cittadini e dei soci è il core business della Frassati. Il benessere del lavoratore, primaria garanzia di una migliore qualità dei servizi, costituisce uno dei principali obiettivi propri della cooperativa.

Cooperativa Sociale P.G. Frassati s.c.s. Onlus  
Sede Legale e Amministrativa:  
Strada della Pellerina, 2/7  
10146 Torino

Tel. 011 710114  
Fax 011 7792785  
segreteria@coopfrassati.com  
www.coopfrassati.com

C.F./P.IVA 02165980018  
R.I./TO 02165980018  
C.C.I.A.A./TO, n.e.a. 516681  
Albo Cooperative A151757



#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in:

- Built Environment & Energy Systems (energia ed edifici):
  - Ammodernamento e controllo dei propri consumi energetici, attraverso l'utilizzo di moderni sistemi di Intelligenza Artificiale e attraverso il "relamping" delle proprie strutture
  - Attività di partecipazione a tavoli dedicati alla futura costituzione di Comunità Energetiche Rinnovabili e/o configurazioni di Autoconsumo Individuale e/o Collettivo
  - Formazione del proprio personale relativamente al recente Decreto del M.A.S.E. e precedenti e futuri decreti/direttive/comunicazioni del M.A.S.E., del G.S.E. e dell'A.R.E.R.A. sempre nell'ambito delle C.E.R. e dell'Autoconsumo Collettivo e/o Individuale
- Mobility & Transport (trasporti e mobilità):
  - Analisi di possibili investimenti e partecipazione a Bandi per l'acquisto e/o leasing di mezzi elettrici
- Waste & Circular Economy (rifiuti ed economia circolare):
  - Attività di recupero e contrasto allo spreco alimentare
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)
  - Adesione al progetto "Treedom"
- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"



Contatto dell'organizzazione per questa attività: Andrea Mastroluca

Email: [a.mastroluca@coopfrassati.com](mailto:a.mastroluca@coopfrassati.com) Tel: 011/710114-1

Anno previsto per l'avvio dell'azione: 2024

La Cooperativa intende analizzare e comprendere, anche grazie alla formazione del proprio personale e con la collaborazione di professionisti esterni qualificate, quali delle proprie strutture potrebbero prevedere l'installazione di pannelli fotovoltaici, anche in previsione di una possibile adesione a C.E.R. e configurazioni di Autoconsumo Collettivo e/o Individuale. Inoltre, intende proseguire nelle attività di ammodernamento e controllo dei propri consumi energetici, come descritti sopra.

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: Andrea Mastroluca

Email: [a.mastroluca@coopfrassati.com](mailto:a.mastroluca@coopfrassati.com) Tel: 011/710114-1

Anno previsto per l'avvio dell'azione: 2024

La Cooperativa intende approfondire e valutare l'eventuale investimento, anche attraverso la prosecuzione delle proprie attività di crowdfunding e partecipazione a Bandi, per l'acquisto e/o leasing di mezzi elettrici che andrebbero a sostituire quelli attualmente in uso per il trasporto dei beneficiari delle proprie attività e per il trasporto dei pasti che la Cooperativa distribuisce quotidianamente in alcune delle proprie strutture.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Andrea Mastroluca

Email: [a.mastroluca@coopfrassati.com](mailto:a.mastroluca@coopfrassati.com) Tel: 011/710114-1

Anno previsto per l'avvio dell'azione: 2024

La Cooperativa intende proseguire il progetto "Frassati FoodPrint", finanziato dalla Compagnia di San Paolo, grazie al quale sta realizzando un percorso di analisi, sistematizzazione, prototipazione e implementazione di una metodologia e di un software che permettano di misurare, aumentare e perfezionare l'impatto delle azioni di recupero e contrasto allo spreco alimentare, con conseguente impatto ambientale, favorendo allo stesso tempo lo sviluppo di una cultura dell'alimentazione sostenibile e sana all'interno dei propri servizi.



- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività: Andrea Mastroluca

Email: [a.mastroluca@coopfrassati.com](mailto:a.mastroluca@coopfrassati.com) Tel: 011/710114-1

Anno previsto per l'avvio dell'azione: 2024

La Cooperativa intende proseguire la propria adesione al progetto "Treedom", avendo già contribuito con la nascita della "Foresta Frassati" che si compone di 200 alberi piantati in tutto il mondo e regalati ai propri Soci. Inoltre, la Cooperativa intende partecipare a Bandi che e attività di crowdfunding per la piantumazione di alberi nelle aree della Val di Susa, colpite da recenti incendi boschivi.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 19/02/2024

COOPERATIVA SOCIALE PG FRASSATI SCS ONLUS  
IL LEGALE RAPPRESENTANTE  
ROBERTO GALASSI  
DOCUMENTO INFORMATICO FIRMATO DIGITALMENTE  
AI SENSI DEL D. LGS 82/2005 S.M.I.



SEGRETARIO GENERALE

*To the kind attention of **Chiara Foglietta**  
Deputy Mayor for Ecological Transition  
City of Turin, Italy*

The undersigned Andrea Varese

As delegated legal representative of Fondazione Cassa di Risparmio di Torino (hereinafter "Fondazione CRT") with head office in Turin, Via XX Settembre 31, 10121,

Considering that

- i. The City of Turin has been selected as one of the first 100 cities to pursue climate neutrality within the '**100 Climate-Neutral Cities by 2030 - by and for Citizens**' programme. This commitment will be formalised by submitting the "**Climate City Contract**" to the European Commission in March 2024.
- ii. The "Climate City Contract" is a policy document by which the administration commits to pursuing the transition to climate neutrality.
- iii. Fondazione Cassa di Risparmio di Torino is a private non-profit organization constantly engaged in the valorisation of artistic and cultural assets, in scientific research and the training of young people, social entrepreneurship and assistance, the protection of the environment and people. Within the framework of this initiative Fondazione CRT established and funded The Energy Center, which focuses on guiding urban centers through significant changes driven by climate change and technological advancements. Its activities align with global and European sustainability goals, particularly emphasizing ecological, socio-economic, and digital transitions. Through comprehensive modeling and innovative tools, it aims to support policy decisions, monitor regulatory frameworks, and engage stakeholders. Key initiatives include data-driven approaches, policy analysis, and stakeholder coordination. The project addresses energy vulnerability and poverty by developing concrete tools for energy donations and investments, leveraging blockchain technology for transparency and efficiency. It encompasses activities such as marketing, technology development, personnel, and external collaborations to foster a robust ecosystem for energy transition and poverty alleviation.

#### EXPRESSES ITS INTEREST

to support the submission of the City of Turin's Climate City Contract proposal to the European Commission and - whether the ['EU Mission for Climate-Neutral and Smart Cities'](#) label will be

**Fondazione CRT**  
Via XX Settembre 31 - 10121 Torino  
T. +39 011 50 65 100

info@fondazionecert.it  
segreteria@cert.fondazionecert.it  
www.fondazionecert.it



SEGRETARIO GENERALE

awarded - to be involved as a stakeholder in the path towards climate neutrality through the measures outlined in the attached sheet.

Turin, 7<sup>TH</sup> March 2024[

*Fondazione Cassa di Risparmio di Torino  
Andrea Varese  
The delegated legal representative  
[digitally signed]*

Copia del documento originale con apposizione del protocollo



### Individual Signatory Commitments

#### FONDAZIONE CRT

##### Short description of the stakeholder

Fondazione CRT is a private non-profit organization founded in 1991 and for over 30 years it has been an "engine" of development and growth in Piedmont and the Aosta Valley. Thanks to its own projects and resources, it is constantly engaged in the valorisation of artistic and cultural assets, in scientific research and the training of young people, social entrepreneurship and assistance, the protection of the environment and people.

##### Strategy and policy at 2030

None.

##### Supporting actions and strategies (2019-2030)

###### Macro areas

- Energy systems
  Transport
  Waste
  AFOLU
  Stationary Energy
  Cross-cutting

Description	Status
The call "Small municipalities – construction sites for the environment and the territory" promotes the protection of the territory through care and prevention projects, with a view to resilience and ability to adapt to the new characteristics of current meteorological phenomena. The call encourages the adoption of measures to prevent hydrogeological instability and the ability of territories to deal with extreme droughts.	DONE
The Energy Center, established and funded by Fondazione CRT, focuses on guiding urban centers through significant changes driven by climate change and technological advancements. Its activities align with global and European sustainability goals, particularly emphasizing ecological, socio-economic and digital transitions. Through comprehensive modeling and innovative tools, it aims to support policy decisions, monitor regulatory frameworks and engage stakeholders. Key initiatives include data-driven approaches, policy analysis and stakeholder coordination. The project addresses energy vulnerability and poverty by developing concrete tools for energy donations and investments, leveraging blockchain technology for transparency and efficiency. It encompasses activities such as marketing, technology development, personnel and external collaborations to foster a robust ecosystem for energy transition and poverty alleviation.	DONE

6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 32.nd, 1.a

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Arrivo: AOO 074, N. Prot. 00002619 del 11/03/2024

Copia del documento originale con apposizione del protocollo



Alla attenzione di Chiara Foglietta  
 Assessora alla Transizione Ecologica  
 della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Domenico Auriemma

In qualità di rappresentante legale di **Cube Italia Ltd** con sede in St Albans 55 Beverley Gardens (UK)

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. *Cube Italia Ltd è una realtà tecnologica, innovativa che utilizza l'energia rinnovabile come pilastri centrali nella mission di un'azienda di urban farming in Italia, mirando a rivoluzionare l'agricoltura urbana attraverso la sostenibilità e l'efficienza.*  
 Questa visione include:  
Tecnologie Avanzate di Coltivazione: Adozione di sistemi come l'idroponica, l'aerponica e l'agricoltura verticale che ottimizzano l'uso dello spazio e delle risorse.  
Automazione e Controllo Ambientale: Utilizzo di tecnologie automatizzate (5G, IoT, AI, blockchain) per garantire condizioni ideali di crescita, migliorando l'efficienza e riducendo gli sprechi.  
Software e Analisi Dati: Impiego di strumenti digitali per la gestione ottimale delle coltivazioni e l'analisi dei dati, al fine di migliorare continuamente i processi produttivi.  
Energia Rinnovabile: Integrazione di pannelli fotovoltaici e sistemi di recupero dell'acqua per alimentare le operazioni in modo sostenibile ed eco-compatibile.  
 Questo approccio all'urban farming non solo promuove la produzione locale di cibo fresco e di qualità, ma si impegna attivamente nella riduzione dell'impatto ambientale e nella promozione di un futuro più verde e sostenibile per le città italiane.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart

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8.v, 70.v, 18/2024A/001.fra, 001.arm, 22.nd, 1.a

## Copia del documento originale con apposizione del protocollo

**Cities**", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito/i:

- Built Environment & Energy Systems (energia ed edifici)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in

*"sviluppare l'urban farming a Torino si radica in un desiderio di promuovere un futuro più verde e sostenibile, che valorizzi l'innovazione e il benessere collettivo, rispondendo in modo creativo e proattivo alle sfide ambientali, sociali ed economiche del XXI secolo."*

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Contatto dell'organizzazione per questa attività: Domenico Auriemma [domenico.auriemma@gmail.com](mailto:domenico.auriemma@gmail.com)  
3921636225

Anno previsto per l'avvio dell'azione: 2025

*L'urban farming si lega all'energia e agli edifici attraverso la promozione di sistemi integrati che uniscono agricoltura urbana con soluzioni energetiche sostenibili e l'efficientamento degli edifici. Utilizzando tetti, terrazzi e aree dismesse degli edifici per l'agricoltura, si incrementa il verde urbano riducendo le isole di calore e migliorando l'isolamento termico, contribuendo così all'efficienza energetica. L'installazione di pannelli fotovoltaici sui tetti delle strutture di urban farming non solo fornisce energia rinnovabile per l'illuminazione e l'irrigazione delle colture, ma integra anche la produzione alimentare con la generazione di energia pulita. Questa sinergia crea ecosistemi urbani resilienti, riducendo le emissioni di gas serra e promuovendo la sostenibilità ambientale. Inoltre, l'urban farming in contesti edilizi stimola l'innovazione nell'uso degli spazi urbani, supportando la transizione verso città più verdi e autosufficienti.*

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Domenico Auriemma [domenico.auriemma@gmail.com](mailto:domenico.auriemma@gmail.com)  
3921636225

Anno previsto per l'avvio dell'azione: 2024

*L'urban farming si lega ai temi dei rifiuti e dell'economia circolare attraverso la valorizzazione dei rifiuti organici e la promozione di un sistema agricolo urbano sostenibile. Gli scarti organici, provenienti da cucine domestiche, ristoranti e industrie alimentari, possono essere trasformati in compost per fertilizzare le colture urbane, riducendo il bisogno di fertilizzanti chimici e minimizzando la produzione di rifiuti. Questo approccio non solo contribuisce a chiudere il ciclo dei rifiuti in città, ma promuove anche la biodiversità e la resilienza degli ecosistemi urbani. Inoltre, l'agricoltura urbana incoraggia la produzione e il consumo locali, riducendo le distanze di trasporto e l'impronta carbonica del cibo, in linea con i principi dell'economia circolare.*

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività: Domenico Auriemma [domenico.auriemma@gmail.com](mailto:domenico.auriemma@gmail.com)  
3921636225

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## Copia del documento originale con apposizione del protocollo

Anno previsto per l'avvio dell'azione: 2024

*L'urban farming integra verde e soluzioni naturali in città, migliorando la sostenibilità e la qualità della vita. Contribuisce alla riduzione delle isole di calore, aumenta l'assorbimento di CO2 e purifica l'aria grazie alle piante. Orti urbani e giardini verticali forniscono cibo fresco, promuovono la biodiversità e creano habitat per la fauna. Integrando la raccolta dell'acqua piovana, riduce l'uso di acqua potabile e mitiga i rischi di alluvioni. Queste aree verdi migliorano anche il benessere sociale e psicologico, offrendo spazi per il relax e l'interazione comunitaria. L'urban farming rende le città più resilienti e armoniose con l'ambiente, unendo produzione alimentare e valorizzazione del verde urbano.*

Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 22/02/2024

**Cube Italia ltd**  
Il Legale Rappresentante  
Domenico Auriemma

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Arrivo: AOO 001, N. Prot. 00000380 del 23/02/2024

8.v, 70.v, 18/2024A/001.fra, 001.arm, 22.nd, 1.a

Arrivo: AOO 001, N. Prot. 00000380 del 23/02/2024

8.v, 70.v, 18/2024A/001.fra, 001.arm, 22.nd, 1.a

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Copia del documento originale con apposizione del protocollo



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

Milano, 23 Febbraio 2024

**Oggetto: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Luca Montinari, in qualità di rappresentante legale di Data Reply Srl con sede in Corso Francia 110, 10143 Torino

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)";**
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Data Reply è la società del gruppo Reply che offre servizi di eccellenza per trarre valore dai dati attraverso soluzioni di Advanced Analytics e AI. Collaborando a stretto contatto con professionisti di livello esecutivo e Chief Officer, opera sulle diverse industry e funzioni aziendali. Dall'idea fino all'implementazione, con un approccio data e design oriented, realizza soluzioni di alto valore per gli utenti finali, conciliando esigenze di business e vincoli applicativi e assicurando la sicurezza del dato e la cybersecurity. Costruiamo piattaforme Big Data e implementiamo modelli di ML e AI, in modo sicuro, efficiente, replicabile e scalabile, attraverso le competenze in Big Data Engineering, Data Science e IPA. La società è attiva da tre anni nel campo del Quantum, dell'Accelerated Computing e Space.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- Built Environment & Energy Systems (energia ed edifici)

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con Socio Unico

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data@reply.it

Via Nizza, 262 int 26/56 - 10126 Torino - Italia  
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Direzione e Coordinamento ex. art. 2497 c.c. Reply S.p.A.

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Direzione e Coordinamento ex. art. 2497 c.c. Reply S.p.A.

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in:

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"
  - o Contatto dell'organizzazione per questa attività: Alberto Falletta, [a.falletta@reply.it](mailto:a.falletta@reply.it), 3402935927
  - o Anno previsto per l'avvio dell'azione: 2024
  - o Sviluppo algoritmi che analizzano i dati satellitari per identificare le posizioni ottimali per gli impianti di energia rinnovabile come i parchi solari ed eolici. Sviluppo di strumenti di intelligenza artificiale che utilizzino dati satellitari per la valutazione del rischio di catastrofi e la pianificazione della resilienza.
- Attività che intende realizzare nell'ambito Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)
  - o Contatto dell'organizzazione per questa attività: Alberto Falletta, [a.falletta@reply.it](mailto:a.falletta@reply.it), 3402935927
  - o Anno previsto per l'avvio dell'azione: 2025
  - o Utilizzo di intelligenza artificiale e dati satellitari per supportare la pianificazione urbana per lo sviluppo sostenibile.

Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Arrivo: AOO 001, N. Prot. 00000439 del 28/02/2024

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Arrivo: AOO 001, N. Prot. 00000439 del 28/02/2024

8.v, 70.v, 18/2024A/001.fra, 001.arm, 42.nd, 1.a

Copia del documento originale con apposizione del protocollo



Torino, li 27 Febbraio 2024

Data Reply Srl  
 Il/la Legale Rappresentante  
 Luca Montinari

(Firmato digitalmente)

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Giuseppe Carlo Giordano  
 In qualità di rappresentante legale di Enerbrain srl con sede in Torino, Via Chisola 5, 10126.

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Enerbrain srl, scale-up torinese presente sul mercato dal 2015, nasce per semplificare e digitalizzare la gestione energetica degli edifici, rendendoli efficienti e sostenibili. Offre e sviluppa internamente una gamma di servizi per monitorare, ottimizzare e ridurre i consumi energetici, con particolare focus su quelli provenienti dagli impianti di climatizzazione, ventilazione e raffrescamento, utilizzando soluzioni digitali basate su tecnologie IoT e Algoritmi in Cloud.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al ambito **Built Environment & Energy Systems (energia ed edifici)**

In questo ruolo l'organizzazione è impegnata in:

- **Attività che intende realizzare nell'ambito “Built Environment & Energy Systems (energia ed edifici)”**

Contatto dell'organizzazione per questa attività: Filippo Ferraris f.ferraris@enerbrain.com 3482280068

Anno previsto per l'avvio dell'azione: 2024

Torino è una delle città più inquinate al mondo e necessita l'adozione di soluzioni tecnologiche applicabili su larga scala per ridurre i consumi energetici. Enerbrain intende consolidare la propria offerta tecnologica e potenziare lo sviluppo di algoritmi di intelligenza artificiale per il monitoraggio, la visualizzazione e la riduzione dei consumi energetici e delle emissioni climalteranti provenienti dall'attività di climatizzazione, ventilazione e riscaldamento degli edifici non residenziali. L'applicazione di tali soluzioni sugli edifici pubblici oppure nei settori industriali, retail, GDO e terziario, permette una riduzione dei consumi energetici dal 12 al 30% sulla

Enerbrain S.r.l.

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 enerbrain.com

P.IVA IT1249860013  
 Codice SDI: KUPCRM

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8.v., 70.v., 18/2024A/001.fra, 001.arm, 42.nd, 1.a

Arrivo: AOO 001, N. Prot. 00000439 del 28/02/2024



quota HVAC, con conseguente riduzione delle emissioni di CO<sub>2</sub>, controllo da remoto in tempo reale di grandi parchi edifici, digitalizzazione dei consumi e intervento mirato sulle criticità.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 23/02/2024

**Enerbrain srl**

**Il Legale Rappresentante**

**Giuseppe Carlo Giordano**

Firmato digitalmente da:  
GIUSEPPE CARLO GIORDANO  
Data: 23/02/2024 13:48:56

(Firmato digitalmente)



*Alla attenzione di Chiara FOGLIETTA*

*Assessora alla Transizione Ecologica*

*Città di Torino*

**OGGETTO: Manifestazione di interesse al Torino Climate City Contract**

Il sottoscritto **Giacomo PORTAS**

In qualità di Presidente e Legale Rappresentante di ENVIRONMENT PARK SPA con sede in TORINO, VIA LIVORNO 60

**PREMESSO CHE**

- i.* La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii.* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii.* **ENVIRONMENT PARK** è il parco tecnologico per l'ambiente di Torino che, dal 1996, gestisce un centro di innovazione sulle tecnologie ambientali nel qual operano 70 aziende, oltre a laboratori di ricerca e sviluppo sulle tecnologie per l'ambiente e l'energia

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti **Built Environment & Energy Systems (energia ed edifici)** e **Mobility & Transport (trasporti e mobilità)**.

In questo ruolo l'organizzazione è impegnata in :

**Attività che intende realizzare** nell'ambito **"Built Environment & Energy Systems (energia ed edifici)"**-

*Contatto dell'organizzazione per questa attività:* Davide DAMOSSO, [davide.damosso@envipark.com](mailto:davide.damosso@envipark.com) +39.011.2257.224 ; Anno previsto per l'avvio dell'azione: 2024

*Con il progetto Carbon Neutral 2030, avviato nel 2019, Environment Park intende annullare tutte le emissioni climalteranti del parco tecnologico, in particolare dei servizi resi alle imprese insediate, al 2030 attraverso una serie di investimenti sulle infrastrutture con tecnologie green innovative, l'adozione di procedure di gestione innovative e lo sviluppo di nuovi servizi alle imprese ed alle persone che lavorano nel Parco. Il piano industriale approvato per il triennio 2024 – 2026, denominato "Fit for 65", prevede a*

**Enerbrain S.r.l.**

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Codice SDI: KUPCRM

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**ENVIRONMENT PARK S.p.A.**  
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envipark.com

Sede Legale:  
Galleria San Federico, 54 - 10121 Torino - Italia  
C.F./P.I./R.I. 07154400019 - R.E.A. 849538





questo scopo investimenti per raggiungere, rispetto al 2019, una riduzione del 39% del fabbisogno di energia primaria, un incremento del 42% della produzione di FER grazie a nuovi impianti installati nel parco tecnologico, portando ad una riduzione del 65% delle emissioni di CO<sub>2</sub>.

#### Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: Davide DAMOSSO, [davide.damosso@envipark.com](mailto:davide.damosso@envipark.com)  
+39.011.2257.224; Anno previsto per l'avvio dell'azione: 2024

La società ha adottato già dal 2023 Piano annuale di Spostamento casa Lavoro (PSCL). Il programma prevede l'erogazione di un contributo per l'acquisto dell'abbonamento annuale al TPL, azioni per uno spostamento "Sempre + Bike Friendly" con la messa a disposizione di una Ciclo officina mobile, l'acquisto e installazione di un totem con attrezzi per la manutenzione della bicicletta, organizzazioni di corsi di manutenzione della bicicletta, messa a disposizione di una flotta di biciclette per i dipendenti di Environment Park ed estesi a quelli delle imprese insediate nel parco (circa 700 persone)

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 21/02/2024

Environment Park S.p.A.

Giacomo PORTAS

(Presidente)

(Firmato digitalmente)



Firmato digitalmente da:

Portas Giacomo

Firmato il 21/02/2024 14:19

Seriale Certificato: 2664282

Valido dal 02/08/2023 al 02/08/2026

InfoCamere Qualified Electronic Signature CA



Firmato digitalmente da:

GIULIO TRONCARELLI



Energy  
of things

Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Giulio Troncarelli

In qualità di rappresentante legale di EOT SRL con sede in Galleria San Federico 16, 10121, Torino

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. EOT SRL è una PMI Innovativa che ha sviluppato la piattaforma digitale Energy of Things – EOT, basata su tecnologie cloud e IoT, dedicata alla gestione dei costi, dei ricavi e dell'impatto ambientale derivanti dall'ottimizzazione di consumi, produzioni e condivisioni di energia.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)

In questo ruolo l'organizzazione è impegnata nello sviluppo di iniziative per diffondere l'utilizzo di tecnologie digitali per accelerare la transizione energetica e raggiungere gli obiettivi climatici.

EOT s.r.l. - PMI Innovativa  
P. IVA e CF: 12517180019 | REA TO-1295894  
Sede Legale: Galleria San Federico, 16 – 10121 Torino  
Sede Operativa: via Livorno, 60 – 10143  
[www.e-ot.it](http://www.e-ot.it)



EOT SRL è una PMI Innovativa ed è insediata presso l'Environment Park a Torino e ha sviluppato diverse iniziative sia rivolte ai propri dipendenti, sia rivolte al territorio, contribuendo a realizzare iniziative di comunicazione e informazione.

EOT SRL è stata selezionata da UNEP, IEA e MASE, in partenariato con Planet Holding Ltd, come piattaforma digitale nell'ambito dell'iniziativa internazionale 3DEN per accelerare la transizione energetica attraverso l'adozione di tecnologie digitali.

Il sottoscritto Giulio Troncarelli, Founder e CEO di EOT SRL, è un EU Climate Pact Ambassador e ha svolto iniziative di formazione e informazione a livello cittadino, organizzando eventi sulle Comunità Energetiche Rinnovabili. In particolare, un evento è stato selezionato nell'ambito della European Sustainable Energy Week 2023 come Sustainable Day.

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività: Giulio Troncarelli, [g.troncarelli@e-ot.it](mailto:g.troncarelli@e-ot.it), +39 342 8972047  
Anno previsto per l'avvio dell'azione: Attività già avviata nel 2023

Descrizione dell'attività:

#### Smart Energy Welfare.

È un servizio digitale, basato su tecnologie IoT e cloud, che permette alle aziende di creare Comunità di dipendenti per la riduzione dell'impatto ambientale, collegando il sistema di Welfare aziendale al raggiungimento di obiettivi climatici, coinvolgendo i dipendenti anche al di fuori delle attività di lavoro.

Al momento l'iniziativa è stata adottata da EOT srl e da Wattsdat srl. Nel corso del 2024 saranno ampliati i servizi e attivati gli obiettivi di Comunità.

Vogliamo portare questa proposta verso altre Società che operano nel territorio torinese, in modo che si possano coinvolgere i dipendenti e si possa generare legami virtuosi fra azienda e territorio, con un impatto ambientale misurabile e ricadute occupazionali.

#### Piattaforma di simulazione benefici Comunità Energetiche Rinnovabili e Flessibilità energetica negli edifici

EOT srl intende mettere a disposizione un ambiente di test e simulazione della piattaforma Energy of Things - EOT per iniziative di Comunità Energetiche Rinnovabili che integrino sistemi di gestione della flessibilità, con particolare riferimento all'utilizzo dell'inerzia Termica degli edifici come Batteria a impatto zero. L'ambiente di test e simulazione è reso disponibile configurato secondo le recenti disposizioni del MASE e in linea con i Regolamenti GSE e le disposizioni dell'ARERA. Nell'ambiente che viene messo a disposizione sarà possibile condurre delle POC per valutare l'impatto economico, energetico e ambientale delle CER con strumenti di flessibilità.

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[www.e-ot.it](http://www.e-ot.it)



- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: Giulio Troncarelli, [g.troncarelli@e-ot.it](mailto:g.troncarelli@e-ot.it), +39 342 8972047  
Anno previsto per l'avvio dell'azione: Q4 2024

Descrizione dell'attività

#### Piattaforma di simulazione benefici Comunità Energetiche Rinnovabili e Veicoli Elettrici con carica bidirezionale

EOT SRL intende mettere a disposizione un ambiente di test e simulazione della piattaforma Energy of Things - EOT per iniziative di Comunità Energetiche Rinnovabili che integrino Veicoli elettrici e punti di ricarica bidirezionali. L'ambiente di test e simulazione è reso disponibile configurato secondo le recenti disposizioni del MASE e in linea con i Regolamenti GSE e le disposizioni dell'ARERA.

Nell'ambiente che viene messo a disposizione sarà possibile condurre POC integrando dati relativi a profili tipo o acquisiti dal campo per valutare l'impatto economico e ambientale delle CER e identificare strategie di gestione integrata di edifici (siano essi residenziali o lavorativi) e veicoli.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 23 febbraio 2024

EOT SRL PMI Innovativa  
Il Legale Rappresentante  
Giulio Troncarelli

(Firmato digitalmente)

EOT s.r.l. - PMI Innovativa  
P. IVA e CF: 12517180019 | REA TO-1295894  
Sede Legale: Galleria San Federico, 16 - 10121 Torino  
Sede Operativa: via Livorno, 60 - 10143  
[www.e-ot.it](http://www.e-ot.it)



**APS FIAB TORINO BICI & DINTORNI ETS**  
 aderente FIAB (Federazione Italiana Ambiente e Bicicletta)  
 ETS dotato di personalità giuridica ex art.22 D.Lgs. 117/2017  
 riconosciuto dal Ministero dell'Ambiente quale associazione di protezione ambientale  
 (art. 13 legge n. 349/86) e dal Ministero dei Lavori Pubblici tra gli enti e associazioni  
 di "comprovata esperienza nel settore della prevenzione e della sicurezza stradale"

Alla c.a. di **Chiara Foglietta**  
 Assessora alla Transizione  
 Ecologica della Città di Torino

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto Massimo TOCCI in qualità di rappresentante legale di

**APS Fiab Torino Bici & Dintorni ETS con sede legale in Torino Corso Ferrucci 46**

#### PREMESSO CHE

- i* La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (*Climate City Contract*)";
- ii* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii* **FIAB Torino Bici & Dintorni** è un'associazione che si prefigge in via principale di realizzare azioni ed interventi finalizzati alla salvaguardia e al miglioramento delle condizioni dell'ambiente e all'utilizzazione accorta e razionale delle risorse naturali realizzando, tra gli altri, il noto itinerario ciclo-turistico "**Corona di Delizie**" ed in particolare si adopera per:
  - iii.a* promuovere e sviluppare la cultura e la pratica di un uso abituale della bicicletta per una mobilità più rispettosa dell'ambiente per il miglioramento della qualità della vita ;
  - iii.b* proporre la realizzazione di strutture, provvedimenti e politiche che facilitino ed incentivino la diffusione e l'uso della bicicletta e per la moderazione del traffico e per la sicurezza stradale, in particolare nei riguardi di ciclisti e pedoni;
  - iii.c* incentivare il cicloturismo come aggregazione sociale anche con modalità mista in combinazione con il trasporto pubblico;

APS FIAB TORINO BICI & DINTORNI - Via Andorno 35/B - 10153 TORINO  
 Sede legale Corso Ferrucci 46 - 10138 TORINO tel / fax 011 888.981  
 e-mail: [info@biciedintorni.it](mailto:info@biciedintorni.it) - <http://www.biciedintorni.it>  
 Cod. Fisc. 97532720014 - P. IVA 07894180012

1



**APS FIAB TORINO BICI & DINTORNI ETS**  
 aderente FIAB (Federazione Italiana Ambiente e Bicicletta)  
 ETS dotato di personalità giuridica ex art.22 D.Lgs. 117/2017  
 riconosciuto dal Ministero dell'Ambiente quale associazione di protezione ambientale  
 (art. 13 legge n. 349/86) e dal Ministero dei Lavori Pubblici tra gli enti e associazioni  
 di "comprovata esperienza nel settore della prevenzione e della sicurezza stradale"

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "**EU Mission for Climate-Neutral and Smart Cities**", ad essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al seguente ambito:

- **Mobility & Transport (trasporti e mobilità)**

In questo ruolo l'organizzazione che, tra l'altro, fa parte della "Consulta Mobilità Ciclistica e Moderazione del Traffico" e "Ambiente e Verde", è impegnata in attività per:

- volontariato nei confronti di terzi (es. corsi per insegnare ad andare in bici agli adulti, guida in tandem di ciechi, ipovedenti e disabili, donazione di bici dismesse ai bisognosi;
- formazione e informazione sul territorio con progetti in collaborazione con le scuole per la promozione della mobilità attiva e l'insegnamento di un uso consapevole e sicuro della bicicletta, anche, dove possibile in collaborazione con la Polizia Municipale con particolare attenzione all'utilizzo, in sicurezza, della bicicletta nel rispetto del Codice della Strada;
- organizzare escursioni in bicicletta non competitive (in Italia ed all'estero) a scopo culturale e di aggregazione sociale, lungo piste ciclabili e/o strade poco battute dal traffico, promuovendo un turismo alternativo, attento alla natura ed ai tesori del nostro patrimonio storico e artistico;

Inoltre l'associazione:

- collabora con le istituzioni piemontesi, ad esempio con il **Comune di Torino**, con il quale organizza la manifestazione nazionale FIAB "Bimbibici" ed anche con le circoscrizioni nell'ottica di ottimizzare la convergenza di intenti verso gli obiettivi del "Climate City Contract";
- collabora con la **Regione Piemonte**, per la realizzazione delle nuove ciclovie sul territorio, e con Patto Territoriale Zona Ovest di Torino che coordina numerose attività dei Comuni dell'hinterland torinese.

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 Sede legale Corso Ferrucci 46 - 10138 TORINO tel / fax 011 888.981  
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 Cod. Fisc. 97532720014 - P. IVA 07894180012

2



**APS FIAB TORINO BICI & DINTORNI ETS**  
aderente FIAB (Federazione Italiana Ambiente e Bicicletta)  
ETS dotato di personalità giuridica ex art.22 D.Lgs. 117/2017  
riconosciuta dal Ministero dell'Ambiente quale associazione di protezione ambientale  
(art. 13 legge n. 349/86) e dal Ministero dei Lavori Pubblici tra gli enti e associazioni  
di "comprovata esperienza nel settore della prevenzione e della sicurezza stradale"

Contatto dell'organizzazione per questa attività:

dott. Ing. Massimo TOCCI [massimo.tocci@fiabititalia.it](mailto:massimo.tocci@fiabititalia.it) Cell- 3336384797

Anno previsto per l'avvio dell'azione: 2024 (maggiori informazioni si possono reperire sul sito [www.biciedintorni.it](http://www.biciedintorni.it) e sui principali canali social)

Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua italiana e/o inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma. Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 22/02/2024

**APS FIAB Torino Bici & Dintorni ETS**

Il Presidente

Ing. Massimo TOCCI



APS FIAB TORINO BICI & DINTORNI - Via Andorno 35/B - 10153 TORINO  
Sede legale Corso Ferrucci 46 - 10138 TORINO tel / fax 011 888.981  
e-mail: [info@biciedintorni.it](mailto:info@biciedintorni.it) - <http://www.biciedintorni.it>  
Cod. Fisc. 97532720014 - P. IVA 07894180012

3



Prot. 391 - 8.70.18

Torino, 26/02/2024

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Mattia Basile,

In qualità di rappresentante legale di Fratelli Basile Srl con sede in Collegno (TO) – Via Marchesi 9

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Fratelli Basile è un'azienda multiservice che opera nell'ambito della riparazione di autoveicoli per quanto riguarda i servizi di carrozzeria, meccanica, gomme, centro revisione, cristalli.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i

- ✘ Built Environment & Energy Systems (energia ed edifici)
- ✘ Mobility & Transport (trasporti e mobilità)
  - Waste & Circular Economy (rifiuti ed economia circolare)
  - Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in progetti volti a ridurre l'impatto energetico, a sostenere la mobilità attraverso l'uso di auto elettriche, a ridurre l'impatto ambientale utilizzando prodotti e materiale di consumo ecosostenibile

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Fratelli Basile Srl – Via Marchesi 9 10093 Collegno (TO)  
011/4551125 [info@carrozzeriafratellibasile.it](mailto:info@carrozzeriafratellibasile.it) [www.carrozzeriafratellibasile.it](http://www.carrozzeriafratellibasile.it)

Contatto dell'organizzazione per questa attività: Edoardo Arione [edoardo@carrozzeriafratellibasile.it](mailto:edoardo@carrozzeriafratellibasile.it)  
327/8414770

(Firmato digitalmente)

Anno previsto per l'avvio dell'azione: 2024

L'installazione di pannelli fotovoltaici sull'intera struttura (100 kW) consente di ridurre all'incirca del 70% i consumi elettrici. Abbiamo inoltre la possibilità di monitorare la riduzione di emissioni di CO<sub>2</sub> attraverso un programma specifico che regala la possibilità di piantare degli alberi in misura equivalente al nostro risparmio. Abbiamo installato una wallbox, con due prese da 22 kw cad, per la ricarica di veicoli elettrici accessibile ai nostri clienti e a tutti gli utilizzatori di questo tipo di auto.

Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: Edoardo Arione [edoardo@carrozzeriafratellibasile.it](mailto:edoardo@carrozzeriafratellibasile.it)  
327/8414770

Anno previsto per l'avvio dell'azione: 2024

Progetto per l'elettrificazione totale di vecchi camper al fine di dar loro una nuova vita, cercando di rispettare al massimo l'ambiente e di ridurre gli sprechi.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]

Anno previsto per l'avvio dell'azione: [Anno]

[descrizione azione max 1000 caratteri] \_\_\_\_\_

\_\_\_\_\_

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]

Anno previsto per l'avvio dell'azione: [Anno]

[descrizione azione max 1000 caratteri] \_\_\_\_\_

\_\_\_\_\_

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte*

Collegno, 21/02/2024

*Fratelli Basile Srl  
Mattia Basile*

Fratelli Basile Srl – Via Marchesi 9 10093 Collegno (TO)  
011/4551125 [info@carrozzeriafratellibasile.it](mailto:info@carrozzeriafratellibasile.it) [www.carrozzeriafratellibasile.it](http://www.carrozzeriafratellibasile.it)

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*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Santina Aiassa

In qualità di rappresentante legale di Geosolving srl con sede in Torino, Corso Orbassano 336, 10137

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Geosolving srl** nello svolgimento dei propri servizi e attività di progettazione mira a perseguire gli obiettivi posti dalla Risoluzione adottata dall'Assemblea Generale dell'ONU il 25 settembre 2015 n. 70/1: “Trasformare il nostro mondo: l'Agenda 2030 per lo Sviluppo Sostenibile” con particolare riferimento ai seguenti ambiti:
  - Obiettivo 3. Assicurare la salute e il benessere per tutti e per tutte le età;
  - Obiettivo 7. Assicurare a tutti l'accesso a sistemi di energia economici, affidabili, sostenibili e moderni;
  - Obiettivo 13. Promuovere azioni, a tutti i livelli, per combattere il cambiamento climatico, nonché alle pubblicazioni e studi di settore elaborati in argomento.

Geosolving è infatti costantemente impegnata nella riduzione delle emissioni di CO<sub>2</sub> promuovendo e favorendo l'impiego di energia rinnovabile a basso impatto ambientale per mezzo di applicazioni innovative come le geostrutture energetiche.

Per geostrutture energetiche si intende quell'insieme di opere geotecnico-strutturali, come ad esempio una fondazione o una galleria, capaci di coniugare in un unico elemento la duplice finalità di stabilità strutturale e di scambio di calore con il terreno circostante (Barla et al. 2016). Agli elementi costruttivi dell'opera geotecnica sono accoppiati sistemi a circuito chiuso in grado di assorbire il calore dal terreno con cui sono a contatto e di trasferirlo alla relativa pompa di calore grazie alla quale verrà successivamente utilizzato.

**Geosolving srl**  
Corso Orbassano 336, 10137 Torino (TO) – Italy | P.IVA 11591760019  
Cap. Soc. i.v. 10.000,00 EUR | Tel: +39 3357254104 | info@geo-solving.com | geosolvingsrl@pec.geo-solving.com | http://www.geo-solving.com

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Le geostrutture energetiche non necessitano di elementi specifici nel sfruttamento geotermico, riducendo notevolmente i costi economici e ambientali rispetto a un impianto geotermico tradizionale. I vantaggi rispetto a quest'ultimo dal fatto che non è richiesto lo scavo di trincee o pozzi in cui installare le sonde si rende possibile la realizzazione di impianti geotermici anche in zone urbanizzate finora, data la limitata disponibilità di spazio, non era di fatto possibile installare. Tra le geostrutture energetiche rientrano opere geotecniche quali fondazioni, dispositivi di ancoraggio, paratie e rivestimenti di gallerie.

Nel corso degli ultimi anni la Geosolving ha sviluppato consulenze e supporti per la progettazione di geostrutture energetiche in diverse applicazioni; in particolare ha supportato la progettazione per l'attivazione geotermica delle strutture (linee e pareti intermedie) della Linea 2 della Metropolitana di Torino. La produzione termica delle geostrutture (tratta Politecnico – Rebaudengo) è stata stimata complessivamente pari a quella necessaria per essere impiegata per rispondere al fabbisogno energetico di stazioni ed ulteriori lungo il tracciato della linea. La produzione di questo quantitativo di energia con le geostrutture energetiche consente di risparmiare potenzialmente fino al 60% all'utilizzo di gas naturale, fino al 74% nel caso di combustibili diesel e petroliferi all'utilizzo del carbone. Fra le altre attività nell'ambito delle geostrutture energetiche, oltre gli studi di prefattibilità, redatti per conto di Engie Solutions e NGE, per la progettazione di tunnel, stazioni e pozzi delle LN15O (Linea 15 Ovest) e LN15E (Linea 15 Est) del progetto Grand Paris Express. Oltre a questi, si menziona il recente contratto con l'Ente Energia per il supporto alla progettazione esecutiva per l'attivazione termica delle pareti dell'edificio “Nuovo HUB servizi area ex Zuffo” Demo site 1 del Piano Urbano Europeo ARV Climate Positive Circular Communities nel comune di Trento.

**MANIFESTAZIONE**

L'interesse a sostenere la presentazione della proposta di Climate City Contract della Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate**”



Anno previsto per l'avvio dell'azione: **2024/2025**

Geosolving srl intende avvalersi delle sue conoscenze e della sua lunga e pionieristica esperienza in campo ingegneristico nel settore delle geostrutture energetiche per avvicinare ed accompagnare la città di Torino verso una transizione energetica ecosostenibile, andando a progettare e sviluppare sistemi di riscaldamento e raffrescamento di edifici esistenti, mediante l'applicazione di queste innovative tecnologie che sfruttano l'energia geotermica. L'attivazione geotermica può essere effettuata sia su edifici esistenti per mezzo di retrofitting, sia su edifici (pubblici o privati) e infrastrutture di nuova costruzione come ad esempio piccoli fabbricati, parcheggi sotterranei, sottopassi, gallerie, ecc. Geosolving intende inoltre mettere in campo azioni di formazione e informazione al pubblico, ai professionisti coinvolti, agli enti pubblici e privati al fine di promuovere una riqualificazione urbana sostenibile.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, il 23/02/2024

Geosolving srl  
la Legale Rappresentante  
Santina Aiassa

(Firmato digitalmente)

Geosolving srl  
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GHIGGIA S.r.l.

Strambino, 15 febbraio 2024

**C.A di Chiara Foglietta**  
Assessora alla Transizione Ecologica  
di Torino

Ns. rif. 005/24

**OGGETTO: Manifestazione di interesse Torino Climate City contract**

Il Sottoscritto Giovanni Ghiggia in qualità di Legale Rappresentante della Ghiggia S.r.l. con sede in Strambino (TO), Piazza Don Luigi Vesco 5,

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Ghiggia S.r.l. è proprietaria di impianti per la produzione di energie rinnovabili, due centrali idroelettriche ed un impianto fotovoltaico. È aperta ad analizzare la fattibilità per realizzare nuovi investimenti nel settore dell'energia green. Inoltre con il marchio commerciale EnergTrade si rende parte attiva per la fornitura di prodotti per la produzione e la gestione dell'energia. Il core business del marchio è la fornitura di moduli in quanto nell'ultimo periodo, sono stati venduti in tutta Europa quasi un centinaio di MW con pannelli di ogni potenza, caratteristica e dimensione.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relativa all'ambito

Piazza Don Luigi Vesco, 5 10019 STRAMBINO (TO) ITALIA – Cap. Soc. € 50.000 – P.IVA 04008440010 – CCIAA 251109  
Tel. 039 0125/711.294 – Sito: [www.ghiggia.it](http://www.ghiggia.it)

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**GHIGGIA** s.r.l.

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- Built Environment & Energy Systems (energia ed edifici)

In questo ruolo l'organizzazione è impegnata a contribuire immettendo nel mercato energia green grazie alla produzione derivante dalle centrali idroelettriche ed all'impianto fotovoltaico e fornendo moduli fotovoltaici ad installatori e grossisti.

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
 Contatto dell'organizzazione per questa attività: Dott. Luca Cuneo [luca.cuneo@energtrade.com](mailto:luca.cuneo@energtrade.com)  
 +39 320 339 4348  
 Anno previsto per l'avvio dell'azione: 2024  
 Fornitura di pannelli fotovoltaici destinata ad installatori e grossisti di materiale elettrico, per la creazione ed il revamping di impianti residenziali, industriali, agrivoltaici e CER.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua italiana e/o inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.  
 Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".  
 La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sole organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Strambino, lì 15/02/2024

Ghiggia S.r.l.  
**GHIGGIA** S.r.l.  
 Il legale Rappresentante  
 (Dott. Giovanni Ghiggia)  
 +39 320 339 4348

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Piazza Don Luigi Vesco, 5 10019 STRAMBINO (TO) ITALIA – Cap. Soc. € 50.000 – P.IVA 04008440010-CCLIAA 251109  
 Tel. 039 0125711.294 – Sito: [www.ghiggia.it](http://www.ghiggia.it)

Copia del documento originale con apposizione del protocollo

Giustizia Climatica Ora!  
 Via Rosolino Pilo 60, 10143 Torino  
 Cod fiscale: 97880670019 P.Iva 12727210010  
 Email: [giustiziaticlimaticaora@gmail.com](mailto:giustiziaticlimaticaora@gmail.com)  
 Pec: [giustiziaticlimaticaora@legalmail.it](mailto:giustiziaticlimaticaora@legalmail.it)



Alla attenzione di Chiara Foglietta  
 Assessora alla Transizione Ecologica  
 della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Andrea John Déjanaz

In qualità di rappresentante legale di Giustizia Climatica Ora! APS con sede in Torino, Via Rosolino Pilo 60,  
 10143

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Giustizia Climatica Ora! APS è una realtà impegnata nella sensibilizzazione dei cittadini e della politica, intorno ai temi della crisi climatica e della giustizia climatica.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata in:

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
 Contatto dell'organizzazione per questa attività: Andrea Paolucci, [andreapaolucci5@gmail.com](mailto:andreapaolucci5@gmail.com),  
 tel: 3273676953  
 Anno previsto per l'avvio dell'azione: [2024]

Arrivo: AOO 001, N. Prot. 00000401 del 26/02/2024

8.v. 70.v. 18/2024A/001.fra. 001.arm. 36.nd. 1.a

## Copia del documento originale con apposizione del protocollo

Nell'ambito delle iniziative previste per l'anno 2024, Giustizia climatica ora Torino è impegnata attivamente nel processo di avviamento di una comunità energetica all'interno del contesto di Vanchiglietta, quartiere sede dell'associazione. Questo intervento produrrebbe una riduzione di emissioni climalteranti per gli edifici interessati e faciliterebbe l'accesso a fonti energetiche rinnovabili per gli abitanti del quartiere.

Altra iniziativa in programma riguarda l'efficientamento energetico dei locali dell'associazione, che presentano una classe energetica F-G e per i quali occorre intervento immediato, a partire dagli infissi. Tale intervento produrrebbe una generale riduzione dei consumi con conseguente abbattimento delle emissioni generate. A tal proposito, Giustizia climatica ora si pone come attore facilitatore rispetto al tema delle CER, riconoscendo il loro fondamentale ruolo in una transizione ecologica dal basso, vissuta attraverso una partecipazione attiva dei cittadini.

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: Tommaso Dreina, dreinatommaso@gmail.com n. tel: 3240743871  
Anno previsto per l'avvio dell'azione: [2024]

Uno degli obiettivi che si è data l'associazione è quello di una mobilità ad emissioni zero che vede nella bicicletta l'elemento centrale. Per questo motivo l'associazione è impegnata nell'acquisto di biciclette e cargobike ad uso condiviso.

A supporto di questo intervento l'associazione intende, attraverso un'interlocuzione con il comune, promuovere l'istallazione di stalli per biciclette. Di questa iniziativa beneficerebbe, ovviamente, anche il vicinato.

Infine, è volontà dell'associazione la realizzazione di una ciclofficina all'interno dei locali della medesima accessibile non solo ai membri, ma alla cittadinanza tutta con l'idea di applicare per questo servizio dei prezzi popolari. Uno dei fini che si prefigge l'associazione è infatti quello di una sostenibilità sociale ed accessibile a tutti e tutte.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Ferdinando Pezzopane, [ferdinando.pezzopane@icloud.com](mailto:ferdinando.pezzopane@icloud.com), tel: 3458106813  
Anno previsto per l'avvio dell'azione: [2024]

Una delle iniziative relative al "Waste & Circular Economy" riguarda l'adesione a reti locali di distribuzione di beni di prima necessità come le Comunità di supporto agricolo, al fine di favorire l'acquisto di prossimità, riducendo il numero degli imballaggi e finanche le emissioni climalteranti associate al trasporto. Determinando una ricaduta positiva sui produttori agricoli del territorio torinese. Ulteriore iniziativa riguarda il recupero degli oggetti di scarto per utilizzi diversi da quelli originali, per allungare il ciclo vita degli stessi e conseguentemente ridurre non solo la produzione di rifiuti, ma anche le life-cycle emissions. Un'iniziativa particolarmente importante per l'associazione è la cosiddetta "biblioteca degli oggetti", con la quale l'associazione intende creare una rete di realtà per lo scambio di oggetti e di beni inutilizzati, i quali altrimenti diventerebbero rifiuti. Da ultimo l'associazione incentiva le azioni della raccolta differenziata e sensibilizza intorno a questa buona pratica.

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## Copia del documento originale con apposizione del protocollo

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*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

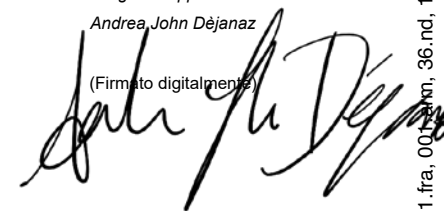
Torino, li 23/02/2024

Giustizia Climatica Ora! APS

Il/la Legale Rappresentante

Andrea John Déjanaz

(Firmato digitalmente)



8.v., 70.v., 18/2024A/001.fra, 001.arm, 36.nd, 1.a

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Arrivo: AOO 001, N. Prot. 00000401 del 26/02/2024

8.v., 70.v., 18/2024A/001.fra, 001.arm, 36.nd, 1.a

Arrivo: AOO 001, N. Prot. 00000401 del 26/02/2024



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Reg. Trib. Torino n.714/49  
info@globalchimica.com  
www.globalchimica.com

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Clara Besson

In qualità di rappresentante legale di Globalchimica S.r.l. con sede in Lombardore, Via del Boschetto 16/18 (To)

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Globalchimica S.r.l. è azienda familiare manifatturiera, da 75 anni impegnata in ricerca, sviluppo, produzione e commercializzazione di sistemi per edilizia e scavo meccanizzato, sistemi a protezione ed impermeabilizzazione, sistemi siliconici e poliuretanic per l'industria ed il settore artistico. L'organizzazione ed il carattere familiare dell'azienda vogliono mantenere la flessibilità e la dinamicità proprie e, nello stesso tempo, rispondono alle attenzioni, sempre maggiori, del contesto.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito/i

Waste & Circular Economy (rifiuti ed economia circolare)  
Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione si è impegnata nell'approvvigionamento energetico, ad oggi parziale, da fonti rinnovabili, mediante l'installazione di un impianto fotovoltaico che produce circa 117.000 kWh/anno. L'azienda ha risposto alla call del Cottino Social Impact Campus, immaginando un modello di open innovation per



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agevolare la circolarità dei materiali e il laboratorio ha intrapreso la ricerca finalizzata alla sostituzione di alcune materie prime con altre di origine naturale o di origine seconda.

Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Clara Besson [clara.besson@globalchimica.com](mailto:clara.besson@globalchimica.com)  
0119951663

Anno previsto per l'avvio dell'azione: 2024

Proseguo del progetto di open innovation su circolarità dei materiali e proseguo ricerca su materie prime "più sostenibili" da implementare nei propri processi di industrializzazione.

Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività: Clara Besson [clara.besson@globalchimica.com](mailto:clara.besson@globalchimica.com)  
0119951663

Anno previsto per l'avvio dell'azione: 2024

Proseguo del progetto di open innovation su circolarità dei materiali e proseguo ricerca su materie prime "più sostenibili" da implementare nei propri processi di industrializzazione.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 21/2/24

*Globalchimica S.r.l.  
Il Legale Rappresentante  
Clara Besson*

(Firmato digitalmente)



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

La sottoscritta Gabriella Esposito

In qualità di rappresentante legale di Green Growth Generation con sede (operativa) in Torino, zona Aurora (Circoscrizione 7); e sede legale a Nola (Napoli).

#### PREMESSO CHE

La Città di Torino è stata selezionata tra le 100 Città Europee del programma “100 Climate-Neutral Cities by 2030 – by and for Citizens”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “Contratto per il Clima (*Climate City Contract*)”;

il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;

**Green Growth Generation** è un acceleratore di comunità sostenibili: partendo dall'analisi del contesto socio-economico locale, coinvolge imprenditori, studenti e ricercatori, pubblica amministrazione ed enti del terzo settore per co-creare progettualità e pratiche sostenibili e circolari che abbiano impatto nel business, nell'agricoltura, nella realizzazione di città resilienti ed inclusive e nell'arte socialmente utile.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “EU Mission for Climate-Neutral and Smart Cities”, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in:

- Attività che intende realizzare nell'ambito “**Waste & Circular Economy** (rifiuti ed economia circolare)”

Contatto dell'organizzazione per questa attività:

Gabriella Esposito [gabriella@greengrowthgeneration.com] [+39 392446584]

Anno previsto per l'avvio dell'azione: 2023-2024

**Pratica di Comunità (Torino Social Impact - TSI)** - Green Growth Generation è parte attiva del progetto di TSI “Comunità di Pratica sulla Circular Economy”, nata nell'ambito della missione #100Climate-

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NeutralCities di Torino. Coinvolgendo e collaborando con altri partner di TSI, Green Growth Generation ha lanciato il primo clean-up a Torino nel settembre 2023, coinvolgendo attivamente la comunità locale. Questo impegno mira a creare una comunità consapevole sui benefici della circular economy. Il progetto, sostenuto dalla Camera di Commercio di Torino e dalla Fondazione Compagnia di San Paolo, si concentra su obiettivi chiave: coinvolgere attivamente i partner dell'ecosistema, sviluppare progetti strategici e rafforzare le azioni di comunità e di circolarità. Attraverso incontri, analisi delle esigenze e co-progettazione di programmi di formazione, il gruppo ha già ottenuto importanti risultati. Eventi come la pulizia ecologica e il convegno sull'economia circolare hanno coinvolto un vasto pubblico, dimostrando l'impatto tangibile della Comunità di Pratica. Con nuove iniziative in cantiere per il 2024, Green Growth Generation e i suoi partner continueranno a promuovere azioni concrete per un cambiamento positivo verso un futuro più sostenibile.

- **Green Infrastructure & Nature Based Solutions** (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività:

Gabriella Esposito [gabriella@greengrowthgeneration.com] [+39 392446584]

Anno previsto per l'avvio dell'azione: 2024-2026

**FARClimate (Horizon Project)** - Green Growth Generation è un partner chiave nel progetto FARClimate, finanziato dall'Unione Europea, che mira a trasformare i sistemi economici regionali europei in modelli di resilienza climatica e sostenibilità. Attraverso formazione personalizzata, workshop e l'implementazione di soluzioni innovative (Urban Living Labs) basate sulle Nature Based Solutions, lavoriamo con la municipalità di Torino, le start-up e le aziende del territorio, le università coinvolte nel Partenariato (Università di Vigo in Spagna, Uliege in Belgio, e NOVA in Portogallo) e le comunità locali per affrontare la crisi climatica con azioni innovative e sostenibili. Operiamo in 20 comunità europee, promuovendo una rete di comunità resilienti al clima e offrendo una piattaforma di apprendimento condiviso.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“Il Programma”), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”.*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 19/02/2024

Green Growth Generation

Gabriella Esposito

(Firmato digitalmente)



Gabriella Esposito  
19.02.2024 23:49:48  
GMT+01:00

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Associazione Culturale Hiroshima Mon Amour ETS

Via Bossoli 83 - 10135, Torino (TO)

P.IVA 05207720011

C.F 97517980013

hiroshimamonamour@pec.it

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Fabrizio Aldo Gargarone

In qualità di rappresentante legale dell'Associazione Hiroshima Mon Amour ETS con sede in Torino, Via Bossoli 83

**PREMESSO CHE**

- i.* La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 -- by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (*Climate City Contract*)";
- ii.* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii.* Hiroshima Mon Amour nasce nel 1986 per agire nel campo della produzione e dell'organizzazione di spettacoli e di eventi culturali. La sua storia, in questi anni, è stata la storia della nuova musica italiana e internazionale, del teatro comico, dei nuovi artisti che sul nostro palco hanno avuto le prime opportunità e che sono tornati, raggiunta la celebrità, nelle rassegne e nei festival promossi dalla nostra organizzazione.  
Sempre mantenendo un occhio di riguardo per l'arte e le culture giovanili, Hiroshima Mon Amour è andata oltre la dimensione locale dello spettacolo, diventando nel corso degli anni un punto di riferimento nazionale e internazionale per i grandi eventi e i festival: oltre che con le istituzioni pubbliche e gli enti locali, hanno avuto come partner, tra gli altri, il Goethe Institut, Smemoranda, il Museo Nazionale del Cinema, il Torino Film Festival, il Teatro Stabile di Torino, il Dams dell'Università di Torino.

Oggi, la nostra attività spazia dall'ideazione artistica all'allestimento di mostre di grafica e design, dall'organizzazione di festival con artisti internazionali alla programmazione di rassegne e stagioni teatrali, all'attività di clubbing, e ancora alla produzione di eventi esclusivi di spettacolo.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- Built Environment & Energy Systems (energia ed edifici)
- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata in "Built Environment & Energy Systems (energia ed edifici)" e "Waste & Circular Economy (rifiuti ed economia circolare)"

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Contatto dell'organizzazione per questa attività: Alessandro Roggero -

[a.roggero@hiroshimamonamour.org](mailto:a.roggero@hiroshimamonamour.org) - 3343424100

Anno previsto per l'avvio dell'azione: 2024

Descrizione azione: Con il bando, l'Associazione prevede importanti investimenti per la produzione di energie rinnovabili e l'incremento dell'efficiamento energetico della struttura che ospita il club e le sue attività. Tali azioni comprendono l'installazione di pannelli fotovoltaici sulla copertura dell'edificio (40 kW).

Con questo tipo di intervento si prevede un abbattimento del 39% del consumo elettrico rispetto al 2022 e il conseguente revamping degli impianti dell'edificio. Avvio investimenti nel 2024.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Alessandro Roggero -

[a.roggero@hiroshimamonamour.org](mailto:a.roggero@hiroshimamonamour.org) - 3343424100

Anno previsto per l'avvio dell'azione: 2024

Descrizione azione: Hiroshima Mon Amour ETS cerca di ridurre il proprio impatto sull'ambiente utilizzando durante le sue attività di somministrazione bicchieri lavabili e riutilizzabili per il pubblico abbattendo così il 90% della produzione di rifiuti in plastica. Riduciamo inoltre le emissioni di Co2 nelle forniture dei bar attraverso fusti in Pet Riciclabili, con il conseguente 50% in meno di trasporti su gomma derivati. Accanto a queste azioni, incentiviamo il pubblico ad un utilizzo di ticket smaterializzati quindi nella loro versione digitale, e nelle procedure interne, con la smaterializzazione dei documenti diminuendo così i consumi di inchiostro e carta che, così come eventuale produzione di scarti di vetro, plastica e rae, vengono raccolti in modo differenziato. Ogni azione viene quindi promossa e adottata nei due livelli, sia nei processi interni sia in quelli esterni diretti verso la sensibilizzazione del pubblico.

Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 23/02/2024

Associazione Culturale Hiroshima Mon Amour ETS

Il Legale Rappresentante

**Fabrizio Aldo Gargarone**

HIROSHIMA MON AMOUR ETS  
Via Bossoli, 83 - 10135 TORINO  
(Fabrizio Gargarone)  
C.F. 97517980013



ICRE sas è un'Azienda certificata ISO9001:2015, un segno dell'impegno verso la completa soddisfazione del Cliente.



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Vittorio Padovan

In qualità di titolare e Legale rappresentante della I.C.R.E. Automazione di V. Padovan & C.sas con sede in Torino Strada del drosso 128/41

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (*Climate City Contract*)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **I.C.R.E. automazione** è un'Azienda storica operante nel settore automazione industriale

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative ad/agli ambito/i

Built Environment & Energy Systems (energia ed edifici)

Mobility & Transport (trasporti e mobilità)

Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata nel riutilizzare gli oli ed i liquidi industriali che sono utilizzati nelle industrie meccaniche.

Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

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E: [info@icreautomazione.com](mailto:info@icreautomazione.com)  
PEC: [icreautomazione@pec.it](mailto:icreautomazione@pec.it)

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ICRE sas è un'Azienda certificata ISO9001:2015, un segno dell'impegno verso la completa soddisfazione del Cliente.



Contatto dell'organizzazione per questa attività: Alessandro Padovan – [a.padovan@icreautomazione.com](mailto:a.padovan@icreautomazione.com)- 0113273792

Anno previsto per l'avvio dell'azione: [2024]

Il Luber è un macchinario che mantiene puliti gli oli usati per le lavorazioni meccaniche; taglio, fresatura, tornitura, trafilatura. Il tutto viene effettuato grazie ad un sistema che analizza gli oli costantemente e aggiunge acqua o olio nelle percentuali impostate. Il sistema Luber inoltre grazie all'implementazione di funzionalità internet 4.0 lavora con i dati nel cloud e permette di monitorare lo stato delle vasche contenenti l'olio lubrificante da qualsiasi parte del mondo attraverso una app per telefono o tablet.

Oggi giorno si tende a cambiare l'olio dopo un tot di h di fruizione. Il nostro sistema è innovativo e sostenibile per l'ambiente in quanto è manutenzione predittiva pura. Si monitora la quantità di impurità, e si corregge per mantenere le caratteristiche di questi oli da taglio (per esempio) sempre con il livello di lubrificazione consigliata dal produttore dell'olio e del costruttore degli utensili da taglio allungando anche la vita di essi e delle macchine utensili usate.

Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Alessandro Padovan – [a.padovan@icreautomazione.com](mailto:a.padovan@icreautomazione.com)- 0113273792

Anno previsto per l'avvio dell'azione: [2024]

Il Luber è un macchinario che mantiene puliti gli oli usati per le lavorazioni meccaniche; taglio, fresatura, tornitura, trafilatura. Il tutto viene effettuato grazie ad un sistema che analizza gli oli costantemente e aggiunge acqua o olio nelle percentuali impostate. Il sistema Luber inoltre grazie all'implementazione di funzionalità internet 4.0 lavora con i dati nel cloud e permette di monitorare lo stato delle vasche contenenti l'olio lubrificante da qualsiasi parte del mondo attraverso una app per telefono o tablet.

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Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività: Alessandro Padovan – [a.padovan@icreautomazione.com](mailto:a.padovan@icreautomazione.com)- 0113273792

Anno previsto per l'avvio dell'azione: [2024]

Il Luber è un macchinario che mantiene puliti gli oli usati per le lavorazioni meccaniche; taglio, fresatura, tornitura, trafilatura. Il tutto viene effettuato grazie ad un sistema che analizza gli oli costantemente e aggiunge acqua o olio nelle percentuali impostate. Il sistema Luber inoltre grazie all'implementazione di funzionalità internet 4.0 lavora con i dati nel

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PEC: [icreautomazione@pec.it](mailto:icreautomazione@pec.it)

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ICRE sas è un'Azienda certificata ISO9001:2015, un segno dell'impegno verso la completa soddisfazione del Cliente.



cloud e permette di monitorare lo stato delle vasche contenenti l'olio lubrificante da qualsiasi parte del mondo attraverso una app per telefono o tablet.

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*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li [23/02/2024]

**I.C.R.E. AUTOMAZIONE SAS**

**VITTORIO PADOVAN**

I.C.R.E. AUTOMAZIONE di V. Padovan & C. sas  
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Pag. 3



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Fabrizio du Chêne de Vère, In qualità di Amministratore Delegato di IGPDecaux S.p.A. con sede ad Assago (MI) c/o Centro Direzionale Milanofiori Strada 3 - Palazzo B10

**PREMESSO CHE**

- i.* La Città di Torino è stata selezionata tra le 100 Città Europee del programma **“100 Climate-Neutral Cities by 2030 – by and for Citizens”**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **“Contratto per il Clima (Climate City Contract)”**;
- ii.* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii.* IGPDecaux SpA è una Società che fa parte del Gruppo JCDecaux ed opera nel settore pubblicitario offrendo servizi di pubblica utilità alle Città. Sviluppa arredi e servizi di cui tutti possono beneficiare adottando impegni concreti a supportare lo sviluppo di città e mobilità intelligenti e sostenibili. Dal 2015 il Gruppo JCDecaux aderisce al Global Compact, il patto mondiale delle Nazioni Unite relativo a diritti umani, lavoro, ambiente e lotta alla corruzione. Il gruppo si impegna a sostenerne ed attuarne i principi fondamentali ed è inoltre partner ufficiale dell'UNDP, Joint Sustainable Development Goals Fund.  
Per IGPDecaux gli obiettivi di sviluppo sostenibile (SDGs) fissati dalle Nazioni Unite sono dunque una leva per l'innovazione, che permettono di offrire prodotti e servizi sempre più responsabili. Nello specifico contribuiamo a tutti i 17 SDGs e in particolare a 6 di questi, accelerando la loro promozione e diffusione in tutto il mondo. Valorizza gli spazi pubblicitari contribuendo al decoro urbano e garantendo la sicurezza degli impianti, sostenendo le trasformazioni digitali e infrastrutturali per accompagnare le città nel futuro.

IGPDecaux S.p.A.  
Centro Direzionale Milanofiori  
Strada 3 - Palazzo B10  
20057 Assago - (MI)  
Tel. 02 654651 - Fax 02 6599037

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R.E.A. di Milano 171322  
C.C.P. 35179209



**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **“EU Mission for Climate-Neutral and Smart Cities”**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata in

- Attività che intende realizzare nell'ambito **“Built Environment & Energy Systems (energia ed edifici)”**  
Contatto dell'organizzazione per questa attività: Rossana Bosi, rossana.bosi@igpdecaux.it, +39 02 62498273  
  
Anno previsto per l'avvio dell'azione: 2024
  1. Attività di efficientamento energetico del Polo Logistico di IGPDecaux di Torino;
  2. Impegno di utilizzo di energia rinnovabile al 100%;
  3. Sostituzione progressiva della flotta operativa con mezzi elettrici.
- Attività che intende realizzare nell'ambito **“Mobility & Transport (trasporti e mobilità)”**  
Contatto dell'organizzazione per questa attività: Rossana Bosi, rossana.bosi@igpdecaux.it, +39 02 62498273  
Anno previsto per l'avvio dell'azione: dal 2022

Mediante la stipulazione del contratto con GTT, Gruppo Torinese Trasporti, per la gestione degli spazi pubblicitari nelle concessioni della città di Torino, IGPDecaux si impegna nel finanziare il trasporto pubblico, contribuendo così al raggiungimento degli obiettivi ESG del TPL.

IGPDecaux crede in uno sviluppo sostenibile per consentire una crescita economica rispettosa nei confronti di persone e ambiente, migliorando la qualità dei suoi processi e diminuendo l'impatto ambientale delle sue attività.



Il modello di business di IGPDecaux rappresenta un esempio di collaborazione virtuosa tra pubblico e privato: mission del gruppo JCDecaux, di cui IGPDecaux fa parte, è quella di dotare le città di asset e servizi utili ai cittadini e di contribuire a finanziare il trasporto pubblico attraverso la raccolta pubblicitaria.

Il Gruppo JCDecaux infatti ha inventato il concetto di Arredo Urbano Pubblicitario basato sui principi dell'economia funzionale e dell'eco design per dare ai cittadini e alle società di trasporti servizi utili e sostenibili, senza impattare sulle finanze locali o sui contribuenti.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Rossana Bosi, rossana.bosi@igpdecaux.it, +39 02 62498273

Anno previsto per l'avvio dell'azione: dal 2021

Massimizzare il riciclo e il recupero dei materiali derivanti dalle diverse attività svolte. Per le esposizioni pubblicitarie utilizziamo carta certificata FSC, recuperata e riciclata a fine campagna. Per la stampa utilizziamo inchiostri UV / Water Based.

Nel caso di allestimenti pubblicitari *full-wrap*, rivestendo tram, bus o le stazioni della metropolitana con grandi campagne pubblicitarie, ci impegniamo a limitarne l'impatto ambientale, massimizzando il riciclo delle pellicole e facendo sì che si possa dare una seconda vita anche ai prodotti adesivi.

Le tabelle pubblicitarie di autobus e tram, dopo molteplici utilizzi, vengono recuperate e in gran parte riciclate. Vetro e metalli vengono sostituiti sugli impianti danneggiati e recuperati per l'industria di settore.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui*



*descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Milano, li 28 febbraio 2024

**IGPDecaux S.p.A.**

L'Amministratore Delegato

Fabrizio du Chêne de Vère

(Firmato digitalmente)

Firmato digitalmente da:  
Fabrizio Du Chene De Vere  
Data: 29/02/2024 12:53:15



Iveco Group N.V.  
Corporale Saat: Amsterdam,  
the Netherlands  
Chamber of Commerce  
Registration no.  
83102703

Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione non vincolante di interesse Torino Climate City Contract**

La sottoscritta Annalisa Citterio

In qualità di Head of Sustainability di Iveco Group N.V. con sede in Torino, via Puglia 35

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"** ("Contratto");
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Iveco Group N.V. ("Iveco Group") è dedicato alla progettazione, realizzazione e commercializzazione della completa gamma di veicoli commerciali e speciali e una offerta completa di propulsori. L'attenzione a soluzioni sostenibili avanzate rende il gruppo un leader globale nei settori dei trasporti e dei veicoli commerciali, al servizio dei clienti in tutto il mondo.

#### MANIFESTA

l'interesse non vincolante a:

- a) sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea, attraverso la condivisione, con il presente documento, delle informazioni che seguono in merito alle iniziative in corso da parte di Iveco Group sul territorio della città di Torino con effetti positivi rispetto alla riduzione delle emissioni clima alteranti; e
- b) in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative ai seguenti ambiti:

Sede principale:  
Via Puglia, 35 – 10156  
Torino - Italia  
Tel. +39 011 00.72.111  
Capitale sociale  
Euro 3.454.589,70 i.v.  
Reg. Impr. di Torino  
Cod. Fiscale e P. IVA  
12520180014  
Rea di Torino  
1296847



- X Built Environment & Energy Systems (energia ed edifici)
- X Mobility & Transport (trasporti e mobilità)
- X Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo Iveco Group è impegnato in un percorso di riduzione del 50% delle emissioni assolute di CO<sub>2</sub> al 2030, con l'obiettivo di raggiungere il NET ZERO CARBON al 2040.

A tale riguardo, Iveco Group intende realizzare le seguenti attività:

- Attività nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto di Iveco Group per questa attività: Federico Cartasegna,  
federico.cartasegna@ivecogroup.com  
Anno previsto per l'avvio dell'azione: [2024-2025]
  - LED lighting con sistema di gestione: nuovo sistema di illuminazione LED con sistema di controllo per ridurre i consumi di energia elettrica.
  - Refurbishment dei canali: nuovo sistema di distribuzione dell'aria tramite canali microforati, che permetteranno una distribuzione interna del calore omogenea, riducendo le perdite di distribuzione.
  - Pompa di calore: sostituzione delle resistenze elettriche al servizio del reparto di sgrassaggio e della caldaia al servizio della CTA di appassimento con una pompa di calore aria/acqua, risparmiando energia elettrica e gas.
  - Sostituzione bruciatori:
    - intervento 1: sostituzione degli attuali bruciatori a gas, al servizio della cabina di verniciatura con due pompe di calore di tipo rooftop. Il principale vantaggio consiste nell'elettrificare la produzione di energia termica, riducendo così le emissioni di CO<sub>2</sub>.
    - Intervento 2: sostituzione degli attuali bruciatori sui forni dei trattamenti termici con bruciatori rigenerativi (RTO) ad alta efficienza, ottenendo risparmi di gas, evitando emissioni di CO<sub>2</sub>.
  - Installazione di motori elettrici di ultima generazione ad alta efficienza: sostituzione dei motori IE1 con motori ad alta efficienza al fine di registrare un netto calo dei consumi elettrici.
- Attività nell'ambito "Mobility & Transport (trasporti e mobilità)":  
Contatto di Iveco Group per questa attività: Federico Cartasegna,  
federico.cartasegna@ivecogroup.com



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Anno previsto per l'avvio dell'azione: [2024-2030]

Le iniziative che Iveco Group ha previsto nell'ambito della mobilità sostenibile, inserite nel PSCL sono: **MYshuttle!** e **UP2GO**

**MYshuttle!** è un servizio gratuito di "ultimo miglio" complementare al TPL (Trasporto Pubblico Locale), con corse prenotabili, con App e codice azienda, sia in anticipo che in tempo reale. Le navette a disposizione sono 2 minibus a natural gas. L'operatore del servizio è BUS COMPANY e lo sviluppatore dell'App è VIA VAN TECHNOLOGIES.

**UP2GO** è un servizio di carpooling: scaricando l'App si può condividere un tragitto casa.lavoro/lavoro.casa, in una community aziendale. Questa App consente di creare un sistema premiante (App GreenApes) per incentivare le scelte di mobilità sostenibile, non solo con la condivisione dell'auto, ma anche con l'utilizzo di mezzi alternativi (biciclette classiche, assistite, monopattini, ecc). Iveco Group con i sistemi integrati di UP2GO è in grado di tracciare il risparmio di CO<sub>2</sub> che la community genera muovendosi in modo sostenibile.

#### **Veicoli elettrici per logistica periurbana**

A partire dal 2022 è stata avviata una nuova soluzione di logistica per movimentazioni urgenti nell'area periurbana di Torino per mezzo di furgoni Daily. Nell'area di Torino si trovano oltre 150 fornitori di Iveco Group, con un volume di trasporto che richiede 16 viaggi al giorno con una percorrenza media di 15 km.

A partire dal 2024 è iniziato il percorso di conversione di questa soluzione logistica con veicolo elettrici Daily, con una considerevole riduzione di emissioni di CO<sub>2</sub> e di altri inquinanti nell'area di Torino.

- Attività che Iveco Group intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Contatto dell'organizzazione per questa attività: Federico Cartasegna, federico.cartasegna@ivecogroup.com

Anno previsto per l'avvio dell'azione: [2024]

#### **IVECO GROUP CONTAINERS MANAGEMENT**

Iveco Group ha avviato nel 2023 un programma di gestione di container riutilizzabili per i suoi centri di logistica, inclusi quelli dell'area di Torino, con lo scopo di ottimizzare la logistica e ridurre l'impatto ambientale. A partire dal 2024 è previsto una ulteriore estensione ed evoluzione del programma con gli obiettivi di:

- Ridurre i rifiuti
- Incrementare la quota di riciclo di parti in metallo e plastica

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- Migliorare l'ergonomia e la sicurezza
- Ottimizzare la modularità per incrementare l'efficienza della logistica con riduzione dell'impatto ambientale e dei costi.

Le informazioni sopra riportate sono fornite da Iveco Group alla Città di Torino al solo scopo di essere inserite (in lingua italiana e/o inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" (il "Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e l'interesse ad essere informati e coinvolti nelle future attività del Programma. E' vietato qualsiasi altro utilizzo da parte della Città di Torino per scopi diversi da quelli sopra descritti. E' altresì vietata la divulgazione delle informazioni contenute nel presente documento senza previo consenso scritto di Iveco Group.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che Iveco Group ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, Iveco Group prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della presente manifestazione di interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, né al sostenimento di spese e/o costi, rimanendo facoltà della sola Iveco Group di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

La presente manifestazione di interesse ha validità limitata fino al 2030.

Torino, li 07/03/2024

Iveco Group N.V.  
Annalisa Citterio  
Head of Sustainability

Annalisa Citterio

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KAIROS



Alta attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

#### OGGETTO: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto Daniele Caccherano, nato a Torino (TO) il 29/06/1972, residente a Torino Via San Simone n.3 codice fiscale CCCDNL72H29L219N in qualità di rappresentante legale del KAIROS CONSORZIO DI COOPERATIVE SOCIALI - SOCIETA COOPERATIVA SOCIALE - O.N.L.U.S. C.F/ P. I.V.A. 08134210015 Tel. 3294876573

E-mail: [progetti@consorziokairos.org](mailto:progetti@consorziokairos.org)

PEC: [consorziokairos@pec.it](mailto:consorziokairos@pec.it)

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “100 Climate-Neutral Cities by 2030 – by and for Citizens”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Consorzio Kairòs** è luogo di sperimentazione di innovazione sociale, proponendo in proprio progetti in settori sociali innovativi per favorire l'implementazione di know how a servizio dei soci. La struttura opera soprattutto valorizzando il capitale umano delle proprie associate. Consorzio Kairòs è ente generatore ed erogatore di servizi a elevato “capitale immateriale” per favorire l'accesso della propria base sociale a opportunità non diversamente avvicinabili da parte dei singoli aderenti. **Consorzio Kairòs** è ente strumentale alla realizzazione delle politiche di qualificazione delle risorse umane delle realtà aderenti direttamente o indirettamente alla propria rete, in merito allo sviluppo di nuove competenze o esigenze tecniche emergenti particolari. **Consorzio Kairòs** sviluppa un progetto “education”, che è diventato settore di pertinenza del consorzio, costruendo una vera business unit dedicata in modo particolare all'outdoor education e al mondo STEAM. **Consorzio Kairòs** gestisce gli edifici dei Bagni Pubblici di via Agliè e Cascina Falchera in Strada Cuorgnè a Torino.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart**”

Via Giambattista Lulli 5/7  
10148 Torino  
Tel. 011 22 07 819  
Fax 011 22 01 342  
P. IVA 08134210015

info@consorziokairos.org  
www.consorziokairos.org  
Iscrizione Albo Nazionale  
delle Cooperative n.A158643

Iscrizione R.E.A. 947866  
Registrazione Tribunale di Torino  
n.1274 del 31/01/2001



KAIROS



**Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in:

- Attività che intende realizzare nell'ambito “Built Environment & Energy Systems (energia ed edifici)”
1. Contatto dell'organizzazione per questa attività: Erika Mattarella - [erika.mattarella@coopliberitutti.it](mailto:erika.mattarella@coopliberitutti.it)  
Tel: 3381577881; Anno previsto per l'avvio dell'azione: 2024/2025.  
presso i BAGNI PUBBLICI DI VIA AGLIE - tali specifiche attività consistono nell'esecuzione di interventi sul fabbricato in cui sono alloggiati i Bagni Pubblici Comunali di via Agliè, miranti a svolgere azioni di mitigazione energetica nell'ambiente urbano, potenziare i servizi giudicati più centrali dai gestori e dall'amministrazione, garantendo il più possibile la continuità operativa della struttura e rimanendo fedeli al complessivo impianto del contesto urbano in cui sorge l'edificio, costruito a cavallo del XIX e del XX secolo, mantenendo inalterate le caratteristiche fondamentali dell'immobile e potenziando le funzioni via via insediatesi e aggiunte nel corso degli anni. L'intervento prevede efficientamento energetico della struttura (sostituzione degli infissi storici, motorizzazione meccanica delle aperture per garantire il raffrescamento estivo) e riduzione dell'accumulo termico sulle superfici orizzontali (guaine di colore scuro del tetto piano nel cortile) al fine di contribuire al comfort climatico estivo delle abitazioni prospicienti.
  2. Contatto dell'organizzazione per questa attività: Laura Fornaro - [laura.fornaro@coopliberitutti.it](mailto:laura.fornaro@coopliberitutti.it)  
Tel: 3294876573; Anno previsto per l'avvio dell'azione: 2024.  
presso il compendio CASCINA FALCHERA STRADA CUORGNE Consorzio Kairos s.c.s. Onlus attuerà un progetto basato sull'efficientamento energetico dell'involucro opaco, trasparente e della componente impiantistica che si concretizza nell'isolamento termico delle facciate con sistema a cappotto; nell'isolamento termico della copertura e delle superfici verso locali non riscaldate; nella sostituzione serramenti esterni con nuovi aventi trasmittanza prevista dalle normative vigenti;
    - sostituzione impianto termico esistente e installazione di sistema a pompa di calore;
    - impianto fotovoltaico per produzione di energia elettrica;
    - posa in opera di colonnine di ricarica per macchine elettriche;
    - eventuali interventi per il miglioramento sismico delle strutture.

KAIROS



- Attività che intende realizzare nell'ambito "Green Infrastructure & Nature Based Solutions" (verde e soluzioni naturali)

Contatto dell'organizzazione per entrambe queste attività: Nicole Defli [nicole.defli@coopiberitutti.it](mailto:nicole.defli@coopiberitutti.it) Tel: 3485367971

Anno previsto per l'avvio dell'azione: inizio anno 2023 e in fase di implementazione

1. Ecosistema Agro Forestale Urbano. In Cascina Falchera l'obiettivo del progetto è la ricostruzione di una trama verde diversificata, affinché la produzione agricola diventi compatibile con la conservazione e valorizzazione delle risorse ecosistemiche naturali. Il modello proposto può inoltre avere caratteri di replicabilità su quasi 600 ettari di aree agricole cittadine, di cui 190 di proprietà della città di Torino. Il progetto Ecosistema Agro Forestale Urbano sperimenta su 12,5 ettari un modello innovativo di gestione agricola partecipata, a scala d'uomo e non dei mezzi meccanici, volto alla tutela e miglioramento dell'ambiente, dello spazio naturale, del paesaggio periurbano, del suolo, delle risorse naturali e della diversità genetica per rendere la città più verde e resiliente agli effetti del cambiamento climatico, ripristinando ecosistemi fortemente compromessi dallo sfruttamento agricolo.
2. In Cascina Falchera i campi di proprietà del compendio sono stati coltivati nell'ultimo anno e continueranno anche quest'anno, a grani antichi all'interno di un progetto dal titolo "Per un futuro più buono" in collaborazione con Mulino Valsusa. Gli 8 ettari di Cascina sono stati coltivati con buone pratiche agricole, senza l'uso di fertilizzanti, diserbanti, antiparassitari di sintesi chimica e nel pieno rispetto delle rotazioni triennali necessarie per salvaguardare la fertilità del terreno. Per ogni ettaro di terreno coltivato a grani antichi vengono coltivate il 3% a miscela di erbe erbacee per creare aree fiorite. Le tecniche colturali sono finalizzate a un utilizzo sostenibile delle risorse naturali e alla più efficiente integrazione di tutti gli elementi del sistema culturale.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, 22/02/2024

(Firmato digitalmente)

**KAIROS s.c.s.**  
Sede leg. e amm. yy:  
Via G. Lullio - 10148 TORINO  
Tel. 011.2267810 - Fax 011.2261342  
Partita IVA 08134210015



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

**OGGETTO: Manifestazione di Interesse Torino Climate City Contract**

La sottoscritta Silvana Ranzato

In qualità di rappresentante legale di LaQUP APS con sede in Torino, via Saluzzo 100

**PREMESSO CHE**

- La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- Il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- LaQUP (Laboratorio Qualità Urbana e Partecipazione) è un'associazione di promozione sociale che "persegue le finalità civiche, solidaristiche e di utilità sociale di cui all'art. 2 mediante lo svolgimento in favore dei propri associati, di loro familiari o di terzi, delle seguenti attività di interesse generale di cui all'art. 5 del CTS:
  - d) educazione, istruzione e formazione professionale, ai sensi della legge 28 marzo 2003, n. 53, e successive modificazioni, nonché le attività culturali di interesse sociale con finalità educativa;
  - e) interventi e servizi finalizzati alla salvaguardia e al miglioramento delle condizioni dell'ambiente e all'utilizzazione accorta e razionale delle risorse naturali, con esclusione dell'attività, esercitata abitualmente, di raccolta e riciclaggio dei rifiuti urbani, speciali e pericolosi;
  - h) ricerca scientifica di particolare interesse sociale;
  - i) organizzazione e gestione di attività culturali, artistiche o ricreative di interesse sociale, incluse attività, anche editoriali, di promozione e diffusione della cultura e della pratica del volontariato e delle attività di interesse generale di cui al presente articolo;
  - l) formazione extra-scolastica, finalizzata alla prevenzione della dispersione scolastica e al successo scolastico e formativo, alla prevenzione del bullismo e al contrasto della povertà educativa;
  - z) riqualificazione di beni pubblici inutilizzati o di beni confiscati alla criminalità organizzata.
 Tutti i campi in cui si manifestano esperienze culturali, ricreative e formative e tutti quelli in cui si può dispiegare una battaglia civile contro ogni forma d'ignoranza, d'intolleranza, di violenza, di censura,

ASSOCIAZIONE LAQUP • via Saluzzo 100 • 10126 Torino • info@laqup.it • www.laqup.it

d'ingiustizia, di discriminazione, di razzismo, di emarginazione, di solitudine forzata, sono potenziali settori d'intervento dell'Associazione." (art. 3 dello Statuto)

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Mobility & Transport (trasporti e mobilità)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata sia in attività di informazione, sensibilizzazione e formazione (funzionali a co-costruire una cultura della sostenibilità urbana indispensabile per creare le condizioni di attesa, comprensione e sostegno di azioni finalizzate alla neutralità climatica) sia in attività di coprogettazione di microinterventi di rigenerazione incentrati sulla promozione della mobilità attiva e sul potenziamento del verde urbano:

- **Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"**  
Contatto dell'organizzazione per questa attività: Chiara Viano [comunicazione@laqup.it](mailto:comunicazione@laqup.it) 348 139 0583  
Anno previsto per l'avvio dell'azione: 2024
  - Partecipazione al Festival della sostenibilità dell'associazione Manzoni People con attività di informazione e sensibilizzazione sul tema della mobilità attiva
  - Organizzazione dell'annuale seminario "Quartieri di qualità" con interventi di relatori internazionali sui temi della mobilità, del verde urbano e della partecipazione
  - Organizzazione di webinar mensili (i Martedì di LaQUP) con esperti di settore su tematiche legate alla sostenibilità urbana
  - Progetto Outdoor in collaborazione con il Liceo Alfieri: progetto educativo rivolto alle studentesse e agli studenti della scuola e finalizzato alla messa in sicurezza delle strade limitrofe all'edificio (proposta di pedonalizzazione di un tratto di via Giuria)
- **Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)**  
Contatto dell'organizzazione per questa attività: Elisa Cocimano [progetti@laqup.it](mailto:progetti@laqup.it) 339 840 5627  
Anno previsto per l'avvio dell'azione: 2024
  - Organizzazione dell'annuale seminario "Quartieri di qualità" con interventi di relatori internazionali sui temi della mobilità, del verde urbano e della partecipazione
  - Organizzazione di webinar mensili (i Martedì di LaQUP) con esperti di settore su tematiche legate alla sostenibilità urbana
  - Progetto Madama Giotto Spazio Attivo finalizzato alla rivitalizzazione di uno spazio urbano residuale (Giardino Anglesio) anche mediante attività di partecipazione civica attiva sul tema del verde di prossimità
  - Progetto Outdoor in collaborazione con il Liceo Alfieri: progetto educativo rivolto alle studentesse e agli studenti della scuola e finalizzato anche alla rigenerazione a verde di un tratto di via Giuria

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limitrofo alla scuola (inserimento di fioriere oggetto di un patto di collaborazione fra scuola e Circostrizione).

*Le informazioni sopra riportate sono fornite dalla es Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua italiana e/o inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, il 23 febbraio 2024

LaQUP APS  
La Legale Rappresentante  
Silvana Ranzato

(Firmato digitalmente)

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*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Mario Cerutti  
In qualità di Chief Institutional Relations & Sustainability Officer del Gruppo Lavazza con sede in Via Bologna  
32, 10152, Torino (TO)

#### PREMESSO CHE

- i.* La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii.* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii.* Il Gruppo Lavazza è impegnato in un percorso volto a ridurre al minimo l'impatto ambientale delle proprie attività, collaborando con organizzazioni globali e ONG nella promozione di progetti finalizzati alla sensibilizzazione sulle tematiche ambientali e alla tutela della natura;

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Built Environment & Energy Systems (energia ed edifici)
- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo il Gruppo Lavazza, in quanto realtà produttiva, riconosce l'impatto ambientale attualmente generato dall'emissione in atmosfera dei gas ad effetto serra, derivanti dalla combustione per la produzione e tostatura del caffè, e dal consumo delle risorse, quali energia, acqua, materie prime per il processo produttivo. Con questa consapevolezza, il Gruppo si impegna a implementare strategie e soluzioni per la riduzione la mitigazione di tali impatti.

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Luigi Lavazza S.p.A.  
Sede legale ed amministrativa: Via Bologna, 32 - 10152 Torino, Italia - Tel. +39 011.2398.1 - Fax +39 011.2398.324  
Capitale Sociale Euro 25.090.000 int. vers. - Registro delle Imprese di Torino 00470550013 - Rea di Torino 257143  
Codice Fiscale - Partita IVA 00470550013

Copia del documento originale con apposizione del protocollo



Contatto dell'organizzazione per questa attività: Barbara Conti; [barbara.conti@lavazza.com](mailto:barbara.conti@lavazza.com) ; +39 3356567772

Sulla base dei risultati della misurazione e del monitoraggio costante dell'impatto ambientale, il Gruppo ha implementato progetti di efficientamento energetico, risultanti in una riduzione progressiva delle sue emissioni dirette e indirette da uso di energia elettrica. Oggi tutti gli stabilimenti italiani del Gruppo sono alimentati al 100% da energia elettrica proveniente da fonti rinnovabili. Tale azione permette di produrre il 98% del caffè dell'intero Gruppo utilizzando energia elettrica rinnovabile. Il Gruppo, oltre ad approvvigionarsi per il 34,8% da energia elettrica proveniente dalla rete, di cui il 90% coperti da Garanzie d'Origine, autoproduce e consuma energia grazie al parco fotovoltaico installato presso lo stabilimento di Gattinara e la sede Nuvola di Torino. Nel corso del 2022, l'azione svolta dall'Energy Management Team (EMT) del Gruppo ha permesso di ridurre i consumi energetici degli stabilimenti di Torino e Gattinara, evitando, a parità di produzione, il consumo di oltre 1.170 MWh/anno, equivalente a quello di più di 400 famiglie italiane. Inoltre, l'edificio Nuvola Lavazza di Torino ha ottenuto la certificazione **Leed** Platinum. Importanti ai fini della certificazione i materiali dell'involucro edilizio e da costruzione in un'ottica di progettazione tesa a ridurre i consumi energetici globali, Nuvola Lavazza è stata riconosciuta come uno degli edifici più eco-sostenibili al mondo.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Dario Toso; [dario.toso@lavazza.com](mailto:dario.toso@lavazza.com) ; +393407945926

L'inclusione dei principi di economia circolare all'interno delle proprie scelte aziendali serve al Gruppo per ridurre al minimo l'impatto ambientale generato dai suoi processi produttivi. Ad oggi il 97% degli scarti vegetali derivanti dalla lavorazione del caffè degli stabilimenti italiani, che nel 2022 contano per l'85% della produzione dei volumi del Gruppo, viene conferito ad una società che ne produce fertilizzante organico. L'attenta gestione dei rifiuti nel 2022 ha inoltre portato il Gruppo Lavazza a riciclare o riutilizzare l'89% degli scarti produttivi. In ambito packaging, il Gruppo ha lanciato un percorso ad-hoc che mira a rendere riciclabile, compostabile o riutilizzabile gli imballaggi dell'intero portfolio prodotti. Questo risulterà in una riduzione dell'uso di materiali necessari al confezionamento del caffè sia mediante una loro ottimizzazione in peso e tipologia (privilegiando ad esempio materiali riciclabili), sia attraverso una efficiente gestione del loro fine vita.

Inoltre, nel 2023, il Gruppo Lavazza ha dato vita ad "Il Centro per l'Economia Circolare nel Caffè", una piattaforma globale precompetitiva per valorizzare e promuovere i principi e le pratiche dell'Economia Circolare nel settore del caffè. Il Centro è istituito a Torino e supportato da una rete globale di partner, con l'ambizione e l'obiettivo di raccogliere e condividere tutte le buone pratiche, le soluzioni, gli studi e le informazioni pratiche sull'economia circolare applicata alla catena del valore del caffè, dalla coltivazione al consumo e allo smaltimento.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Luigi Lavazza S.p.A.*

Sede legale ed amministrativa: Via Bologna, 32 - 10152 Torino, Italia - Tel. +39 011.2398.1 - Fax +39 011.2398.324  
Capitale Sociale Euro 25.090.000 int. vers. - Registro delle Imprese di Torino 00470550013 - Rea di Torino 257143  
Codice Fiscale - Partita IVA 00470550013

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...ns" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare  
...ture attività del Programma.

...ta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla  
...l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse  
...i contenuti del "Programma".

...sse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura  
...one, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola  
...o da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione  
...a realizzazione delle attività sopra descritte.

Luigi Lavazza S.p.A.

Chief Institutional Relations & Sustainability Officer

Mario Cerutti



Torino, 23/02/2024  
Prot. 58/DB/me

Spett.le Città di Torino  
Via Corte d'Appello, 16  
10122 – Torino

Alla C/A Assessora Chiara Foglietta  
Assessorato alla Transizione ecologica e  
digitale

### Oggetto: Manifestazione di interesse Torino Climate City Contract

Il sottoscritto Dimitri Buzio, in qualità di Rappresentante Legale di Legacoop Piemonte con  
sede in Torino, Via Livorno 49

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100  
Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà  
il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024,  
di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si  
impegna a favorire la transizione verso la neutralità climatica;
- iii. **Legacoop Piemonte** è l'associazione di rappresentanza delle società cooperative  
che aderiscono alla Lega Nazionale delle Cooperative e Mutue con sede legale in  
Piemonte. Legacoop Piemonte si presenta come un sistema di imprese solide e  
competenti la cui nascita e sviluppo è sempre stata contraddistinta dal principio  
della mutualità e dalla centralità dei soci.

#### Legacoop Piemonte

Sede Regionale  
Via Livorno, 49-10144 Torino  
Tel. + 39 011 518 71 69  
Fax + 39 011 517 89 75  
info@legacoop-piemonte.coop  
www.legacoop-piemonte.coop

Codice Fiscale 80091060014

## MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **“EU Mission for Climate-Neutral and Smart Cities”**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- Built Environment & Energy Systems;
- Waste & Circular Economy.

Legacoop Piemonte sviluppa servizi e progetti rivolti a imprese cooperative e promuove la cultura cooperativa affermandone i valori distintivi e sostenendone con la propria azione di rappresentanza il ruolo economico e sociale. Alla base del proprio operato, Legacoop pone la volontà di contribuire a far crescere un mercato plurale, in sintonia con una società giusta, sostenibile e in armonia con il futuro, attraverso una forma d'impresa democratica, equilibrata e competitiva, in grado di operare per il benessere economico. In tal senso va riconosciuto che è insito nella natura stessa della forma d'impresa cooperativa la capacità di stare sul mercato unita all'impegno per la coesione sociale e l'attenzione alla sostenibilità economica ed ambientale.

Di seguito si indicano le attività svolte nei due ambiti Built Environment & Energy Systems e Waste & Circular Economy.

- Attività nell'ambito **“Built Environment & Energy Systems (energia ed edifici)”**:

In tema energia Legacoop sviluppa **azioni concrete di supporto alle strategie di approvvigionamento energetico** delle proprie associate creando le migliori condizioni per l'accesso al mercato, valorizzando la produzione e il consumo finale di energia da **fonti rinnovabili**: da queste premesse nasce un accordo per rendere disponibile alle cooperative energia elettrica e gas naturale certificato a condizioni favorevoli. Il progetto



**“CoopToCoop”**, previsto nell'accordo, consente alle cooperative produttrici di energia da FER di cederla alle cooperative consumatrici finali.

La collaborazione con stakeholders territoriali, tra i quali IREN, ha l'obiettivo di sviluppare progetti che favoriscano la diffusione di energie rinnovabili, il risparmio e l'efficientamento energetico, e la creazione di **Comunità Energetiche Rinnovabili in forma cooperativa**, come il progetto **CERTO** della Camera di Commercio di Torino, dell'Energy Center e che vede Legacoop Piemonte co-coordinatrice del tavolo di lavoro.

- Attività nell'ambito **“Waste & Circular Economy (rifiuti ed economia circolare)”**:

Le attività del sistema Legacoop in ambito economia circolare coinvolgono numerose cooperative del sistema. Il servizio di **raccolta differenziata**, dalla carta ad apparecchiature elettroniche, è legato all'**inclusione** lavorativa; i progetti di **riciclo** coinvolgono una filiera che va dall'elaborazione dei materiali, quali carta e alluminio per nuovi **packaging sostenibili**, al **reinsediamento del prodotto nel ciclo economico** con una **nuova funzione**, come si può riscontrare negli scaffali della Grande Distribuzione cooperativa (dal 100% di plastica riciclata per le bottiglie d'acqua al minimo del 70% di materiale riciclato per la realizzazione di pentole, padelle, caffettiere).

La presenza di un **centro per il riuso** permette ai cittadini del territorio di consegnare gratuitamente beni usati in buono stato, integri e funzionanti che possono essere efficacemente riutilizzati: ad esempio mobili, materassi, biciclette, passeggini, giocattoli, stoviglie, suppellettili ed oggettistica varia.

Il contatto dell'organizzazione per le attività è il dott. Alessandro Regge, [alessandro.regge@legacoop-piemonte.coop](mailto:alessandro.regge@legacoop-piemonte.coop) - 3443486445.

Le azioni indicate sono in corso di realizzazione.

### Legacoop Piemonte

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Via Livorno, 49-10144 Torino  
Tel. + 39 011 518 71 69  
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[info@legacoop-piemonte.coop](mailto:info@legacoop-piemonte.coop)  
[www.legacoop-piemonte.coop](http://www.legacoop-piemonte.coop)

Codice Fiscale 80091060014

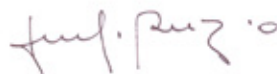
Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 23/02/2024

**Il Presidente**  
(Dimitri Buzio)




Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

La sottoscritta ALICE DE MARCO

In qualità di PRESIDENTE E LEGALE RAPPRESENTANTE di LEGAMBIENTE PIEMONTE E VALLE D'AOSTA APS con sede in TORINO, VIA MARIA AUSILIATRICE, 45 - 10152

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "**100 Climate-Neutral Cities by 2030 – by and for Citizens**". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "**Contratto per il Clima (Climate City Contract)**";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **LEGAMBIENTE PIEMONTE E VALLE D'AOSTA APS** è un'associazione no-profit senza fini di lucro. Opera per la tutela e valorizzazione della natura e dell'ambiente, delle risorse naturali, della salute collettiva, delle specie animali e vegetali, del patrimonio storico, artistico e culturale, del territorio e del paesaggio; promuove stili di vita, di produzione e di consumo improntati all'ecosviluppo a tutela dei consumatori e ad un equilibrato rapporto tra gli esseri umani, gli altri esseri viventi e la natura. Promuove la partecipazione dei cittadini alla difesa dell'ambiente e alla definizione della propria qualità della vita. Le azioni introdotte da Legambiente Piemonte e Valle d'Aosta hanno tutte la finalità di sensibilizzare la cittadinanza sulle tematiche ambientali e tutelare il nostro territorio. Circa una volta al mese ha luogo una campagna o un'iniziativa sull'emergenza climatica, sul risparmio energetico, sulla mobilità sostenibile, sull'inquinamento atmosferico, tutela della risorsa idrica, etc. La maggior parte delle campagne punta sulla sensibilizzazione della cittadinanza verso l'adozione di stili di vita sostenibili, sull'educazione ambientale organizzando diverse iniziative nelle scuole ed ha coinvolto grandi numeri di volontari in giornate di volontariato attivo come "Puliamo il Mondo", o "Festa dell'Albero" che in Piemonte ha coinvolto in una sola giornata diverse migliaia di volontari. Il ruolo dell'Associazione è anche quello di interloquire con amministrazioni locali e regionali in modo da condividere proposte di soluzione nei vari ambiti.

**MANIFESTA**

Legambiente Piemonte e Valle d'Aosta APS  
Sede legale e operativa: via Maria Ausiliatrice 45  
C.A.P. 10152 - Torino  
FAX: +39 011 210001  
PEC: legambientepiemontevda@pec.it  
P.IVA C.Fiscale: 06478780015

 [info@legambientepiemonte.it](mailto:info@legambientepiemonte.it)  
 [www.legambientepiemonte.it](http://www.legambientepiemonte.it)  
 +39 011 2215851



- l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **“EU Mission for Climate-Neutral and Smart Cities”**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti
  - Built Environment & Energy Systems (energia ed edifici)
  - Mobility & Transport (trasporti e mobilità)
  - Waste & Circular Economy (rifiuti ed economia circolare)
  - Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in

- Attività che intende realizzare nell'ambito **“Built Environment & Energy Systems (energia ed edifici)”**  
Contatto dell'organizzazione per questa attività: RUBINA PINTO, [rubina.pinto@legambientepiemonte.it](mailto:rubina.pinto@legambientepiemonte.it), 0112215851  
Anno previsto per l'avvio dell'azione: 2024-2027  
L'Associazione, di concerto con i circoli territoriali dell'area metropolitana di Torino, si impegnerà in campagne informative e di sensibilizzazione sul ruolo che gli edifici hanno in tema di riduzione dei gas climalteranti rivolte a cittadini, famiglie e amministratori di condominio. Questo verrà fatto affrontando i temi legati allo sviluppo delle CERS e dell'autoproduzione, strumenti che oltre ad abbattere i consumi e la dipendenza dalle fonti fossili sono un valido aiuto per la riduzione dei costi in bolletta e quindi di supporto alle famiglie che vivono in condizioni di disagio economico e sociale. Ma anche affrontando i temi legati alla decarbonizzazione dei sistemi di riscaldamento e del condizionamento, tra i principali emettitori di emissioni inquinanti e climalteranti, e nella promozione dei materiali innovativi e sostenibili, e quindi della filiera delle costruzioni a fronte delle riqualificazioni degli edifici, senza intervenire anche in questa filiera rischiano da qui al 2050 di pesare per oltre il 50% delle emissioni climalteranti.
- Attività che intende realizzare nell'ambito **“Mobility & Transport (trasporti e mobilità)”**  
Contatto dell'organizzazione per questa attività: ALICE DE MARCO, [presidente@legambientepiemonte.it](mailto:presidente@legambientepiemonte.it), 0112215851  
Anno previsto per l'avvio dell'azione: 2024- 2027  
L'Associazione di concerto con i circoli territoriali dell'area metropolitana di Torino, si impegnerà ad un confronto su opere ritenute incompatibili con i piani e le politiche per la riduzione delle emissioni climalteranti e inquinanti, così come implicito nella Missione. A supportare l'ammodernamento e lo sviluppo della rete trasportistica locale, incluso lo sviluppo di una rete diffusa e capillare di infrastrutture ciclabili, in favore della mobilità dolce e attiva. A supportare l'elettrificazione dei principali vettori di trasporto su gomma fino al raggiungimento di flotte 100% elettriche, vigilando su possibili scelte alternative (es. idrogeno) incompatibili con i tempi e gli obiettivi dettati dalla Missione. A definire e

Legambiente Piemonte e Valle d'Aosta APS  
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 [www.legambientepiemonte.it](http://www.legambientepiemonte.it)  
 +39 011 2215851



supportare sistemi di incentivo all'uso del TPL, quali abbonamenti integrati a costi progressivi in base al reddito, fino alla gratuità per le fasce più fragili. A sostenere il potenziamento e la diffusione di sistemi della sharing mobility 100% elettrica. A realizzare azioni di monitoraggio della coerenza con l'obiettivo di neutralità climatica dei piani comunali in forza e in fase di redazione in materia di mobilità e trasporti. A realizzare campagne di monitoraggio scientifico e di opinione sul fronte della qualità dell'aria e del depauperamento delle altre risorse inficiate dall'attuale modello di mobilità, quali il suolo, la sicurezza e la salute pubblica. A contribuire allo sviluppo di soluzioni per la riduzione della domanda di mobilità urbana, quali, ad esempio, l'ampliamento dei servizi telematici della PA, sistemi DRT (demand responding transport) e l'assistenza domiciliare alle categorie fragili.

- Attività che intende realizzare nell'ambito **“Waste & Circular Economy (rifiuti ed economia circolare)”**  
Contatto dell'organizzazione per questa attività: SERGIO CAPELLI, [sergio.capelli@legambientepiemonte.it](mailto:sergio.capelli@legambientepiemonte.it), 0112215851  
Anno previsto per l'avvio dell'azione: 2024 - 2027  
L'Associazione, di concerto con i circoli territoriali dell'area metropolitana di Torino, si impegnerà a:
  - Promuovere il GPP come strumento indispensabile per la transizione ecologica e l'economia circolare, poiché permette di dare mercato ai prodotti e servizi per le stazioni appaltanti pubbliche a minor impatto ambientale e climatico;
  - Promuovere azioni che vadano verso l'informazione e sensibilizzazione alla raccolta differenziata di qualità, in particolare nella riduzione del secco residuo;
  - Promuovere una coscienza della riduzione della produzione dei rifiuti (il miglior rifiuto è quello che non è prodotto) sensibilizzando e mettendo in atto azioni che sensibilizzino al riutilizzo e alla possibilità di allungare la vita a prodotti (rigenerazione, riparazione e upcycling);
  - Promuovere azioni che vadano nella direzione di favorire la filiera del recupero e riciclo dei RAEE e del Tessile, anche secondo le indicazioni della Commissione Europea e dei progetti Faro del PNRR
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività: FEDERICA SISTI, [federica.sisti@legambientepiemonte.it](mailto:federica.sisti@legambientepiemonte.it), 0112215851  
Anno previsto per l'avvio dell'azione: 2024 - 2027  
L'Associazione, di concerto con i circoli territoriali dell'area metropolitana di Torino, si impegnerà a promuovere la creazione di foreste urbane per ridurre l'impatto dei cambiamenti climatici e migliorare il benessere delle persone che abitano nelle aree urbanizzate. L'attività punta a trasformare la strategia di sviluppo degli spazi verdi urbani al Piano locale di adattamento ai cambiamenti climatici attraverso la creazione di infrastrutture verdi e blu e l'applicazione di soluzioni basate sulla natura nelle aree urbane e periurbane. Realizzare una maggiore integrazione tra le aree protette dell'area metropolitana e le politiche

Legambiente Piemonte e Valle d'Aosta APS  
Sede legale e operativa: via Maria Ausiliatrice 45  
C.A.P. 10152 - Torino  
FAX: +39 011 210001  
PEC: [legambientepiemontevda@pec.it](mailto:legambientepiemontevda@pec.it)  
P.IVA C.Fiscale: 06478780015

 [info@legambientepiemonte.it](mailto:info@legambientepiemonte.it)  
 [www.legambientepiemonte.it](http://www.legambientepiemonte.it)  
 +39 011 2215851



per il verde urbano con azioni di rigenerazione che ponga la natura, il più potente strumento di assorbimento della CO2, al centro di azioni di mitigazione e adattamento ai cambiamenti climatici. Si propone di realizzare un Accordo/Contratto per il verde urbano e un laboratorio partecipato per la gestione del percorso progettuale, l'implementazione di attività di piantagione di nuovi alberi in ambiente urbano, la promozione della Festa dell'Albero, e il Forum del Verde Urbano.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 26/02/2024

LEGAMBIENTE PIEMONTE E VALLE D'AOSTA  
PRESIDENTE E LEGALE RAPPRESENTANTE  
ALICE DE MARCO

(Firmato digitalmente)

Alice De  
Marco  
26.02.2024  
17:48:18  
GMT+01:00



Legambiente Piemonte e Valle d'Aosta APS  
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*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Stefano Buscaglia,

In qualità di rappresentante legale di Fondazione LINKS - Leading Innovation & Knowledge for Society, con sede in Torino, Via Pier Carlo Boggio, 61

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. La missione della Fondazione LINKS - Leading Innovation & Knowledge for Society consiste nel porre le basi per lo sviluppo di innovazioni ad alto impatto socio-economico facendo leva su conoscenze e tecnologie di frontiera - una pluralità di sensibilità e prospettive – e su una forte capacità progettuale e prototipale oltre che su una fitta rete di collaborazioni con attori appartenenti al mondo dell'accademia e dell'industria che operano a livello locale ed internazionale, serbatoio di eccellenza e di reciproca contaminazione multidisciplinare.
- iv. La Fondazione LINKS intende contribuire ad una visione ecosistemica di progresso basata sul riconoscimento della forte interdipendenza tra società, natura e tecnologia che permetta di affrontare i problemi strutturali del nostro tempo mettendo a frutto le migliori energie presenti nell'ecosistema all'interno di una cornice di sostenibilità, di equità e di sviluppo dei territori e del bene comune.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart**

FONDAZIONE LINKS Leading Innovation & Knowledge for Society  
Via Pier Carlo Boggio, 61 - 10138 Torino (Italia) T: +39 011 22 76 150  
CF 97810470019 P.IVA 11904960017 PEC: [fondazione.links@pec.it](mailto:fondazione.links@pec.it)

FONDAZIONE ISCRITTA NEL REGISTRO DELLE PERSONE GIURIDICHE PRESSO LA PREFETTURA DI TORINO AL N. 365

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**Cities**", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo, la Fondazione si impegna su due fronti:

- iniziative interne, volte a ridurre consumi ed emissioni legate alle proprie attività e ai propri dipendenti,
- iniziative di sistema, che includono l'attrazione di fondi e il supporto tecnico per studiare, sviluppare e sperimentare soluzioni e azioni di riduzione delle emissioni climalteranti in ambito cittadino, coinvolgendo imprese e pubbliche amministrazioni locali.

Di seguito si riportano le attività che la Fondazione intende realizzare nei seguenti ambiti.

- **Built Environment & Energy Systems (energia ed edifici)**

Contatto dell'organizzazione per questa attività: Maurizio Arnone, [maurizio.arnone@linksfoundation.com](mailto:maurizio.arnone@linksfoundation.com), tel. 334 6288721

TIPS4PED (iniziativa di sistema)

Anno previsto per l'avvio dell'azione: 2024

Nell'Ambito del progetto Horizon Europe TIPS4PED (Turning cities Planning actionS for Positive Energy Districts into success); Fondazione LINKS, insieme a Politecnico di Torino, Città di Torino e IREN, studierà la fattibilità della realizzazione di un Positive Energy District (PED) in un'area di circa 260.000 mq che include la cittadella politecnica, l'Energy Center, la sede di LINKS, alcuni uffici comunali e un impianto di accumulo calore di IREN. Il progetto prevede l'elaborazione, la simulazione e la sperimentazione di scenari di intervento che includano, ad esempio, l'incremento della produzione di energia rinnovabile mediante tecnologie innovative, l'efficientamento dei consumi degli edifici e la transazione energetica delle flotte.

- **Mobility & Transport (trasporti e mobilità)**

Contatto dell'organizzazione per questa attività: Maurizio Arnone, [maurizio.arnone@linksfoundation.com](mailto:maurizio.arnone@linksfoundation.com), tel. 334 6288721

Mobility Management (iniziativa interna)

Anno previsto per l'avvio dell'azione: 2023



Nel 2023 Fondazione LINKS ha predisposto il proprio Piano Spostamenti Casa Lavoro al fine di avviare iniziative di mobility management volte a ridurre l'impatto degli spostamenti dei propri dipendenti. Al momento sono state attivate misure per la riduzione del numero di spostamenti (10 gg di smart working a disposizione al mese), per l'incentivazione dell'uso di modi di trasporto sostenibili (bonus per l'acquisto di abbonamento annuale del trasporto pubblico locale e bonus per la manutenzione della propria bicicletta) e per l'uso condiviso della automobile (accesso gratuito alla piattaforma di car pooling Jojob).

Centro di Innovazione per la transizione green del trasporto pubblico (iniziativa di sistema)

Anno previsto per l'avvio dell'azione: 2024

Su mandato della Compagnia di San Paolo e del Comune di Torino, Fondazione LINKS sta costituendo con GTT un Centro di Innovazione per la transizione green del trasporto pubblico, composto da 10 nuovi ricercatori, che avrà lo scopo di effettuare studi, ricerche e progetti volti a supportare GTT nel percorso verso la decarbonazione del trasporto pubblico locale della Città di Torino. L'operatività del Centro sarà guidata da tre filoni tematici: a) transizione energetica ed ecologica; b) l'innovazione del servizio offerto e c) l'innovazione del modello operativo.

- **Waste & Circular Economy (rifiuti ed economia circolare)**

Contatto dell'organizzazione per questa attività: Raffaella Motta, [raffaella.motta@linksfoundation.com](mailto:raffaella.motta@linksfoundation.com), tel. 334 6895393

Together WE STAND (iniziativa interna)

Anno previsto per l'avvio dell'azione: 2024

Nell'ambito del progetto Together WE STAND - WEIfare for SusTAiNability and Development, co-finanziato dalla Regione Piemonte, Fondazione LINKS e Collegio Carlo Alberto avvieranno percorsi di sensibilizzazione dei propri dipendenti sul tema della sostenibilità che includeranno formazione (es. laboratori di rigenerazione di strumenti tecnologici, workshop di cucina sostenibile) e call to action per azioni di comportamento sostenibile.

- **Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)**

Contatto dell'organizzazione per questa attività: Maurizio Arnone, [maurizio.arnone@linksfoundation.com](mailto:maurizio.arnone@linksfoundation.com), tel. 334 6288721

Sensibilizzazione, pianificazione e implementazione azioni di adattamento al cambiamento climatico (iniziativa di sistema)

Anno previsto per l'avvio dell'azione: 2023



Nell'ambito di numerosi progetti Europei (es. Horizon Europe Distender e Climaborough) LINKS, in collaborazione con decisori e stakeholder locali (es. Comune di Torino) avvierà attività di sensibilizzazione della comunità locale sui temi dell'adattamento ai cambiamenti climatici e supporterà la redazione di Piani d'Azione per l'Energia Sostenibile e il Clima e l'implementazione di azioni pilota e soluzioni integrate di adattamento climatico basate su servizi ecosistemici per la riduzione di specifici impatti (es. isole di calore, inondazioni improvvise).

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 21/02/2024

Fondazione LINKS Leading Innovation &  
Knowledge for Society  
Il Legale Rappresentante  
Stefano Buscaglia

(Firmato digitalmente)

Firmato digitalmente da: Stefano Buscaglia  
Data: 26/02/2024 12:42:41

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Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Laura Sciolla

In qualità di presidente di **Associazione Manzoni People OdV** con sede in Torino 10125, Corso Marconi 28

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Manzoni People** è un gruppo di genitori dell'Istituto Comprensivo A. Manzoni, che si era fatto promotore di diverse iniziative a sostegno della scuola e il suo contesto.

<http://www.manzonipeople.org>

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata dal 2021 nell'organizzare annualmente il "Festival della Sostenibilità" per costruire un futuro migliore attraverso la educazione alimentare, ambientale e la mobilità dolce nel quartiere di San Salvario. <https://festival.manzonipeople.org/>

- Attività che intende realizzare riferendosi a più ambiti.  
Anno previsto per l'avvio dell'azione: [2024]

Arrivo: AOO 001, N. Prot. 00000398 del 26/02/2024

8.v, 70.v, 18/2024A/001.fra, 001.arm, 34.nd, 1.a



## Copia del documento originale con apposizione del protocollo

- Nel ambito del "Festival della Sostenibilità 2024" iniziare un discorso con la comunità educativa della scuola per trasformare l' I.C. Manzoni in una "Scuola Carbonfree" con l'organizzazione di un primo appuntamento sul tema.
- Promuovere lo "Sportello docenti – educazione all'ambiente urbano" della associazione Laqup attraverso una presentazione ed un workshop (lo sportello di consulenza, fisso alla Casa del Quartiere di San Salvario, si rivolge a docenti per essere orientati sull'educazione all'ambiente urbano sostenibile per progetti nelle scuole).
- Acquisire libri sulle diverse tematiche della sostenibilità e su come affrontare il cambiamento climatico per la Biblioteca Shahrazad dell'I.C. Manzoni aperto anche ai/alle ragazzi/e dell'intero quartiere.
- Dal 2025 coinvolgere attivamente la scuola e i docenti con le loro classi nella realizzazione del Festival della Sostenibilità.

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività:  
Mirjam Struppek, struppek@interactionfield.de, mob. 3311232998  
Anno previsto per l'avvio dell'azione: [2025]  
- Creare e allestire un laboratorio all'interno della scuola a disposizione dei docenti o delle iniziative postscuola per fare esperimenti sui temi del risparmio energetico, dell'inquinamento dell'aria ed altri processi ambientali.  
- Organizzare un percorso formativo per i docenti sui temi della sostenibilità e la decarbonizzazione utilizzando la didattica STEAM (Science Technology Engineering Arts Mathematics) per stimolare la curiosità e la creatività.
- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività:  
Mirjam Struppek, struppek@interactionfield.de, mob. 3311232998  
Anno previsto per l'avvio dell'azione: [2024]  
- Introdurre nelle classi quarte della scuola primaria un corso di sicurezza stradale con lo scopo di ricevere una "patente di guida della bicicletta" con la collaborazione dei vigili del territorio.
- Attività nell'ambito Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività:  
Mirjam Struppek, struppek@interactionfield.de, mob. 3311232998  
Anno previsto per l'avvio dell'azione: [2025/26]  
- Riattivare un orto didattico all'interno degli spazi Scuola  
- Sperimentare con un patto di collaborazione coinvolgendo alcune classi della Scuola che si potrebbero prendere cura dell'Aiuola Natalia Levi Ginzburg insieme con il Casa del Quartiere di San Salvario.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo*

## Copia del documento originale con apposizione del protocollo

*"100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 22/02/24

Manzoni People ODV  
la Legale Rappresentante

Laura Sciolta

(Firmato digitalmente)



**AZZURRA  
S.R.L. A SOCIO  
UNICO**

Via Don Eugenio Bruno, 12  
10029 Villastellone (TO)  
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Reg. Imp. di Torino  
n° iscriz. 02014870063  
REA n° 1230640

Società soggetta all'attività di  
direzione e coordinamento da  
parte di Gruppo Marazzato  
Holding S.r.l. sede legale Borgo  
Vercelli (VC), via Boschetto 21  
Cap. Soc. € 394.000,00 i.v.  
Reg. Imp. di Vercelli  
C.F./N° iscriz. 02528240027

**DIREZIONE GRUPPO MARAZZATO HOLDING S.R.L. SISTEMI DI GESTIONE CERTIFICATI**

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13012 Borgo Vercelli (VC)  
Tel. 0039 320311  
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info@gruppomarazzato.com  
www.gruppomarazzato.com



UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
UNI EN ISO 45001:2018



**AZZURRA  
S.R.L. A SOCIO  
UNICO**

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n° iscriz. 02014870063  
REA n° 1230640

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Cap. Soc. € 394.000,00 i.v.  
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C.F./N° iscriz. 02528240027

**DIREZIONE GRUPPO MARAZZATO HOLDING S.R.L. SISTEMI DI GESTIONE CERTIFICATI**

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www.gruppomarazzato.com



UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
UNI EN ISO 45001:2018

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Bosi Ivano

In qualità di rappresentante legale di Azzurra srl a socio unico con sede a via Don Eugenio Bruno 12 10029 Villastellone (TO)

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Il Gruppo Marazzato mostra un chiaro impegno verso la sostenibilità, come evidenziato dalla nostra storia, dalla trasformazione in Società Benefit della capogruppo Marazzato Soluzioni Ambientali nel 2023 e dall'impegno verso gli SDG come riportato nel Bilancio di Sostenibilità pubblicato annualmente. Questo approccio è visibile nei nostri servizi di gestione ambientale, che includono la gestione dei rifiuti speciali, le bonifiche ambientali e la manutenzione di infrastrutture critiche per la comunità.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

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- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività: Carlo Palestini –carlo.palestini@gruppomarazzato.com-3371408173  
Anno previsto per l'avvio dell'azione: 2024

Il Gruppo Marazzato, attraverso le sue attività, promuove l'efficienza energetica e l'uso sostenibile delle risorse. Il nostro impegno è quello di installare impianti fotovoltaici sui nostri impianti di Casale e Villastellone e garantire acquisto di energia elettrica esclusivamente da fonti rinnovabili.

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: Carlo Palestini –carlo.palestini@gruppomarazzato.com-3371408173

Anno previsto per l'avvio dell'azione: 2024  
Il Gruppo possiede una flotta di veicoli per servizi ambientali, inclusi quelli per trasporti specializzati e interventi di pronto intervento ambientale. L'investimento in manutenzione e l'aggiornamento della flotta sono dei passi concreti verso la decarbonizzazione dei trasporti, inoltre ci impegniamo su questo tema a migliorare la % di combustibile consumata su motori Euro 6 e iniziare la sperimentazione dell'utilizzo di combustibili alternativi come LNG o HVO.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Carlo Palestini –carlo.palestini@gruppomarazzato.com-3371408173

Anno previsto per l'avvio dell'azione: 2024  
Il Gruppo Marazzato svolge un ruolo significativo nella gestione dei rifiuti e nell'economia circolare. Offriamo servizi che vanno dalla raccolta e trasporto dei rifiuti speciali, al trattamento e recupero/riciclo dei rifiuti, fino alle bonifiche ambientali. Questo impegno si allinea con l'obiettivo di ridurre la produzione di rifiuti e promuovere la circolarità dei materiali, essenziale per un'economia sostenibile.

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività: Carlo Palestini –carlo.palestini@gruppomarazzato.com-3371408173

Anno previsto per l'avvio dell'azione: 2024  
L'orientamento generale del Gruppo Marazzato verso la sostenibilità ambientale si traduce in un forte interesse anche in quest'area. L'attenzione alla tutela del territorio e il loro ruolo nella bonifica e nella gestione dei rifiuti contribuiscono indirettamente al miglioramento degli ecosistemi e alla valorizzazione del verde urbano. Ciononostante ci impegniamo a sostenere opere di piantumazione per la

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**AZZURRA  
S.R.L. A SOCIO  
UNICO**

Via Don Eugenio Bruno, 12  
10029 Villastellone (TO)  
C.F. / P.IVA 02014870063  
Cap. Soc. € 100.000,00 i.v.  
Reg. Imp. di Torino  
n° iscriz. 02014870063  
REA n° 1230840

Società soggetta all'attività di  
dirigenti e coordinamento da  
parte di Gruppo Marazzato  
Holding S.r.l. sede legale Borgo  
Vercelli (VC), via Boschetta 21  
Cap. Soc. € 594.000,00 i.v.  
Reg. imp. di Vercelli  
C.F./N° iscriz. 02528240027

**DIREZIONE GRUPPO MARAZZATO HOLDING S.R.L. SISTEMI DI GESTIONE CERTIFICATI**  
Via Boschetta 21  
13012 Borgo Vercelli (VC)  
Tel. 0039 320311  
Fax 0039 0161 32816  
info@gruppomarazzato.com  
www.gruppomarazzato.com



UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
UNI EN ISO 45001:2018

valorizzazione di aree verdi cittadine, per la compensazione delle emissioni di CO2 del Gruppo, per migliorare la biodiversità e ridurre l'effetto isola di calore.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("Il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 20/02/2024

**AZZURRA SRL A SOCIO UNICO**

**Il Legale Rappresentante**

**BOSI IVANO**

(Firmato digitalmente)



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Nadia Lambiase, in qualità di rappresentante legale di Mercato Circolare srl Società Benefit con sede in Torino Corso Re Umberto 6

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Mercato Circolare srl Società Benefit** è una impresa a vocazione sociale che crea connessioni digitali e culturali tra cittadini, aziende, associazioni e istituzioni all'interno dell'ecosistema dell'economia circolare. Sviluppa servizi e strumenti crossmediali innovativi diversi per rendere l'economia circolare applicabile e accessibile, perché ogni persona possa essere protagonista del cambiamento.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "[EU Mission for Climate-Neutral and Smart Cities](#)", a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito/i

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- X Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

**Mercato Circolare Srl Società Benefit**  
Corso Re Umberto, 6 – 10121 – Torino  
C.F. e P.IVA: 11936220018  
www.mercatocircolare.it amministrazione@mercatocircolare.it



In questo ruolo l'organizzazione è impegnata in:

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

#### Reusable Packaging Revolution

Contatto dell'organizzazione per questa attività:

Nadia Lambiase, [nadia.lambiase@mercatoCircolare.it](mailto:nadia.lambiase@mercatoCircolare.it), 3392281230

Anno previsto per l'avvio dell'azione: 2024

Sperimentazione di 6 mesi grazie al progetto europeo EIT Food, in collaborazione con l'Università di Torino, Crai e Arounds. Obiettivo: riduzione del packaging monouso e la promozione di contenitori riutilizzabili.

#### DistretTO "Living Lab cibo circolare"

Contatto dell'organizzazione per questa attività:

Carlotta Cicconetti, [carlotta.cicconetti@mercatoCircolare.it](mailto:carlotta.cicconetti@mercatoCircolare.it), 3485923255

Anno previsto per l'avvio dell'azione: 2024

Grazie all'aggiornamento della app Mercato Circolare, si offre alla Città di Torino (cittadini, imprese, amministrazione) uno strumento di facile consultazione, approfondimento e interazione su ciò che riguarda cibo ed economia circolare in città. Grazie allo strumento della *circular&systemic value chain*, si intende offrire all'ecosistema del cibo torinese uno strumento di valutazione e monitoraggio dell'impatto in chiave sistemica e circolare.

Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma. Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma". La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 23 febbraio 2024

Firmato digitalmente da:  
Mercato Circolare Srl Società Benefit  
Lambiase Nadia  
Amministratore Unico  
Firmato il 23/02/2024 10:41  
Nadia Lambiase  
Segno Certificato: 3252756  
Valido dal 31/01/2024 al 31/01/2027  
InfoCamere Qualified Electronic Signature CA

Mercato Circolare Srl Società Benefit  
Corso Re Umberto, 6 – 10121 – Torino  
C.F. e P.IVA: 11936220018  
[www.mercatocircolare.it](http://www.mercatocircolare.it) [amministrazione@mercatoCircolare.it](mailto:amministrazione@mercatoCircolare.it)



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Eman Saffo in qualità di amministratore unico di Mercato Itinerante srl con sede in Torino, Via O. Vigliani 25/16, 10135 Torino (TO)

#### PREMESSO CHE

- La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- Mercato Itinerante srl è una startup innovativa che ha l'obiettivo di promuovere i mercati rionali come centri di commercio innovativi e sostenibili.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti (in grassetto gli ambiti selezionati):

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)**
- Waste & Circular Economy (rifiuti ed economia circolare)**
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in attività che stimolano una mobilità commerciale a zero impatto, un sistema di riuso degli imballaggi e servizi anti-spreco alimentare.

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: Andrea Scalogna [andrea@mercatoitinerante.it](mailto:andrea@mercatoitinerante.it)  
3663246755

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Anno previsto per l'avvio dell'azione: 2024

L'organizzazione è impegnata nello sviluppo di un sistema di mobilità a zero impatto tramite l'utilizzo di cargo bike. Con il nuovo piano, la società prevede di aumentare il numero di spedizioni 100% green eliminando inquinamento acustico, ambientale e riducendo il traffico urbano. veicoli e da utilizzare nelle procedure di delivery

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Andrea Scalogna [andrea@mercatoitinerante.it](mailto:andrea@mercatoitinerante.it)  
3663246755  
Anno previsto per l'avvio dell'azione: 2024  
Sviluppo di un sistema di tracciatura automatico degli imballaggi utilizzati nelle fasi di delivery collegato ad un modello di ritiro, igienizzazione e riuso. Dalle nostre previsioni, questo sistema ci permetterà di migliorare le pratiche di riuso già attuate del 30% e ottimizzare i tempi.  
Sviluppo soluzione "svuota banco" che permetterà alle piccole e micro attività di azzerare lo spreco di prodotti invenduti destinandoli al settore Horeca con prezzi concorrenziali.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 16/02/24

*Eman Saffo*  
*Mercato Itinerante srl*



*Alla attenzione di Chiara Foglietta*  
*Assessora alla Transizione Ecologica*  
*della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Francesco Pennaroli

In qualità di rappresentante legale di Modelway s.r.l. con sede in Torino (TO), Piazza San Carlo 197

#### PREMESSO CHE

- La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- Modelway s.r.l.** è una società di software engineering specializzata in servizi di modellazione matematica, sensori virtuali e controlli automatici, basati su tecniche di intelligenza artificiale (AI). La società fornisce soluzioni altamente innovative che hanno consentito significative riduzioni in termini di tempi e costi di sviluppo, risolvendo importanti problemi tecnologici. Le applicazioni di Modelway sono industrializzate in settori di avanguardia come Automotive, Aerospazio, Energia e Ambiente.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere

Modelway S.r.l. soggetta all'attività di direzione e di coordinamento esercitata dalla società "Bluethink S.p.A"

Piazza San Carlo 197, 10123 Torino - Tel e Fax: 011-19118615- [www.modelway.it](http://www.modelway.it) - [info@modelway.it](mailto:info@modelway.it)  
Capitale Sociale € 20.000 i.v. – C.F./P.IVA n.08944320012 - R.E.A. n.1012602 Torino



coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito/i

Built Environment & Energy Systems (energia ed edifici)

Mobility & Transport (trasporti e mobilità)

In questo ruolo l'organizzazione è impegnata in **attività di sviluppo di sensori virtuali basati su tecniche di intelligenza artificiale (AI) finalizzati alla individuazione dei gas di scarico prodotti da motori a combustione interna oltre che alla realizzazione di soluzioni per il controllo intelligente della qualità dell'aria (quali, temperatura, umidità e concentrazione di CO<sub>2</sub>) per ambienti interni.**

Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Contatto dell'organizzazione per questa attività: Mario Bonansone, [mario.bonansone@modelway.it](mailto:mario.bonansone@modelway.it), +393509474998

Anno previsto per l'avvio dell'azione: 2025

Modelway si propone di mettere in campo i suoi expertise e soluzioni ingegnerizzate per le seguenti tematiche:

- **Monitoraggio consumo** energetico, **qualità dell'aria**, del **comfort** e controllo/ottimizzazione degli **attuatori/sistemi HVAC** per garantire il **trade off** tra **comfort** e **consumo** energetico (sia su impianti disposti su building **nuovi** che **esistenti**);
- **Ottimizzazione** dei **processi** produttivi mediante tecniche di **controllo avanzato** basate su AI al fine di raggiungere un **trade off** tra KPI di produzione e sostenibilità

Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: Mario Bonansone, [mario.bonansone@modelway.it](mailto:mario.bonansone@modelway.it), +393509474998

Anno previsto per l'avvio dell'azione: 2025

Modelway si propone di mettere in campo i suoi expertise e soluzioni ingegnerizzate per le seguenti tematiche:

- Soluzioni **software** di **Virtual Sensing** per il monitoraggio e **stima** dei livelli di **inquinanti** (CO<sub>2</sub>, Soot, NOx, etc...) su diverse zone cittadine a partire da pochi sensori dislocati in città e da dati meteo, al fine di **stimare** e **prevedere l'evoluzione dell'inquinamento** nei diversi giorni dell'anno e **guidare le azioni** potenziali da intraprendere (decision making);

Modelway S.r.l. soggetta all'attività di direzione e di coordinamento esercitata dalla società "Bluethink S.p.A"

Piazza San Carlo 197, 10123 Torino - Tel e Fax: 011-19118615- [www.modelway.it](http://www.modelway.it) - [info@modelway.it](mailto:info@modelway.it)  
Capitale Sociale € 20.000 i.v. - C.F./P.IVA n.08944320012 - R.E.A. n.1012602 Torino



- Soluzione **App** basata su software di **AI** per il suggerimento e la **schedulazione** delle **colonnine di ricarica** in maniera ottimizzata in maniera da garantire il miglior numero di ricariche possibili, **riducendo tempi di attesa** e tenendo conto dei diversi tempi di ricarica delle vetture;

- Software di **diagnosi** real time e cloud per la **predizione** di **guasti** o malfunzionamenti di **batterie** adibite alla propulsione elettrica.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 - by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 23 febbraio 2024

Modelway s.r.l.

//la Legale Rappresentante

Francesco Pennaroli

(Firmato digitalmente)



Firmato digitalmente da:  
PENNAROLI FRANCESCO  
Firmato il 23/02/2024 11:37  
Seriale Certificato: 1097505  
Valido dal 20/01/2022 al 20/01/2025  
InfoCamere Qualified Electronic Signature CA

Modelway S.r.l. soggetta all'attività di direzione e di coordinamento esercitata dalla società "Bluethink S.p.A"

Piazza San Carlo 197, 10123 Torino - Tel e Fax: 011-19118615- [www.modelway.it](http://www.modelway.it) - [info@modelway.it](mailto:info@modelway.it)  
Capitale Sociale € 20.000 i.v. - C.F./P.IVA n.08944320012 - R.E.A. n.1012602 Torino

ORTI GENERALI S.R.L.  
IMPRESA SOCIALE  
CF. 97764900011  
PIVA 12063750017  
VIA PANETTI 1  
C/O CASA NEL PARCO  
10127 TORINO

ORTIGENERALIT  
INFO@ORTIGENERALIT  
+39 3311370672

Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Stefano Olivari

In qualità di rappresentante legale di Orti Generali Srl con sede in Torino, strada castello di Mirafiori 38/15

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Orti Generali Srl** nasce con l'obiettivo di costruire un modello di impresa sociale per la trasformazione e la gestione di aree agricole residuali cittadine. Il progetto è l'esito di un percorso di 4 anni di progettazione partecipata che ha coinvolto scuole, associazioni, ortolani e abitanti di Mirafiori (Miraorti). Grazie alle sue componenti di innovazione sociale e tecnologica Orti Generali vince il bando indetto dal MIUR Smart cities and Communities and Social Innovation e dal 2016 al 2019 ha avviato una fase di ricerca supervisionata dall'Università Ca' Foscari di Venezia.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all' ambito

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività: Stefano Olivari, [info@ortigenerali.it](mailto:info@ortigenerali.it), 3403020815  
Anno previsto per l'avvio dell'azione: in corso  
Orti generali è un modello di gestione compartecipata tra soggetto pubblico e soggetto privato per aree agricole residuali, e per la riqualificazione di aree degradate. Gli obiettivi sono: restituire alla comunità un parco urbano precedentemente degradato ed utilizzato abusivamente; includere nel processo una diversità di partecipanti, in particolare coloro che vivono in una situazione di fragilità socio-economica; proporre una struttura paesaggistica che valorizzi le tracce del paesaggio agrario preindustriale e che

sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) **"Percorso di partecipazione"** allegato al Piano di Azione del **"Contratto per il Clima"** per la partecipazione al programma Europeo **"100 Cities by 2030 – by and for Citizens"** ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare **essere informati e coinvolti nelle future attività del Programma.**


Le azioni qui riportate rappresentano una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse **prevedute e consentite dalle previsioni e dai contenuti del "Programma".**

La **Manifestazione di Interesse** e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura realizzazione del Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione contrattuale e alla realizzazione o mancata realizzazione delle attività sopra descritte.

10/02/2024

Orti Generali S.r.l.  
Il Legale Rappresentante  
Stefano Olivari

(Firmato digitalmente)





Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Azzurra Beddini

In qualità di rappresentante legale di PartecipaTO con sede in Torino Via Edoardo Daneo 4

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. PartecipaTO è un'associazione libera, apartitica, laica, senza finalità di lucro, ispirata ai valori fondanti la Carta costituzionale che si propone di promuovere l'approfondimento di tematiche culturali, civili, sociali e politiche.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all' ambito

**Built Environment & Energy Systems (energia ed edifici)**

In questo ruolo l'organizzazione è impegnata nelle attività della CER VALLETTE.

Attività che intende realizzare nell'ambito “Built Environment & Energy Systems (energia ed edifici)” è la seguente: “studio della applicazione della pompa di calore (pdc) al riscaldamento della chiesa

e dei locali come dimostrazione della possibilità di applicazione del consumo zero per il riscaldamento delle singole unità abitative.”

Contatto dell'organizzazione per questa attività: Vittorio Bonamin [vittorio.bonamin@gmail.com](mailto:vittorio.bonamin@gmail.com)  
3337590707

Anno previsto per l'avvio dell'azione: **2024**

Si tratta dello studio e realizzazione della applicazione della pompa di calore (PDC) al riscaldamento dei locali della parrocchia Sacra Famiglia di Nazareth per realizzare una soluzione a “consumo zero” per il riscaldamento. L'idea è di applicare la PDC al riscaldamento della chiesa e delle strutture parrocchiali al fine di avvicinarsi al consumo quasi zero e dimostrare l'estensione della soluzione anche ai condomini abitativi per migliorare l'efficienza energetica sul territorio. Un nuovo impianto fotovoltaico alimenterà una PDC del tipo aria-acqua per fornire acqua già calda alla nuova centrale termica che a sua volta provvederà al riscaldamento parrocchiale con consumo globale quasi zero. È fondamentale individuare aree per installare più pannelli per poter garantire il corretto funzionamento della PDC. Oltre all'applicazione della PDC, avvieremo lo studio di una soluzione di energia geotermica congiuntamente alla PDC, valutandone l'impatto in termini di costi e vantaggi.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“Il Programma”), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”. La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 23 febbraio 2024

PartecipaTO  
La Legale Rappresentante  
Azzurra Beddini

(Firmato digitalmente)

Via Edoardo Daneo 4 10135 TORINO - C.F.97839850019  
Sito: <https://www.associazionepartecipato.it/>

Via Edoardo Daneo 4 10135 TORINO - C.F.97839850019  
Sito: <https://www.associazionepartecipato.it/>





Professional Consulting &amp; Management

Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Matteo Baldi in qualità di legale rappresentante di PCM S.r.l. presso c/o Environment Park -Via Livorno 60 Torino - PadB2

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. PCM S.r.l. fondata nel 2004 a Torino, è una società di consulenza informatica con l'obiettivo primario di semplificare attività complesse, bilanciando qualità e velocità. I suoi principi guida permeano tutte le operazioni, dall'implementazione di software personalizzato e siti web, alla fornitura di consulenza specializzata in ambiti chiave come organizzazione aziendale, analisi dati, progettazione e sicurezza delle reti informatiche.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "EU Mission for Climate-Neutral and Smart Cities", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in

**PCM Srl**  
c/o Environment Park -Via Livorno 60 Torino - PadB2 -Liv1 Stanza 2  
P.IVA e CF: 08868350011  
Tel. 011.22.57.831 - [info@pcmitaly.it](mailto:info@pcmitaly.it) | [PEC:pec@pcmitaly.it](mailto:pec@pcmitaly.it) | [www.pcmitaly.it](http://www.pcmitaly.it)

1



Professional Consulting &amp; Management

Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Annalaura Benincasa – [benincasa@pcmitaly.it](mailto:benincasa@pcmitaly.it)  
- 340.6089007

Anno previsto per l'avvio dell'azione: 2004

PCM S.r.l. dalla sua fondazione ha lavorato nel settore informatico con un forte focus sull'ottimizzazione dei processi e della dematerializzazione aziendale. Ad oggi sono numerosi i progetti in cui si è passati ad una completa allocazione e generazione di documenti in precedenza cartacei (attestati, contratti, report e altro ancora) grazie all'esperienza maturata nel settore e nell'uso delle migliori tecnologie. Inoltre dallo scorso anno, PCM collabora con la realtà "Io cresco Circolare" e con OSSON; questa interazione ha permesso l'acquisizione di competenze informatiche sì, ma applicate all'economia circolare e alla gestione dei rifiuti e del loro tracciamento.

Dal punto di vista interno aziendale, PCM ha sempre avuto sede nell'Environment Park, sposando le linee di rispetto ambientale e di apprezzamento per gli spazi verdi. All'interno degli uffici non sono presenti distributori ma una macchina per il filtro dell'acqua per disincentivare l'uso di bottiglie di plastica ma usare borracce riutilizzabili.

Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Contatto dell'organizzazione per questa attività: Annalaura Benincasa – [benincasa@pcmitaly.it](mailto:benincasa@pcmitaly.it)  
- 340.6089007

Anno previsto per l'avvio dell'azione: 2023

PCM S.r.l. ha stabilito un contatto con il Comune di Torino per trasformare la sua consueta donazione benefica per i regali di Natale aziendali nell'acquisto di alberi in città per il verde comune.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

**PCM Srl**  
c/o Environment Park -Via Livorno 60 Torino - PadB2 -Liv1 Stanza 2  
P.IVA e CF: 08868350011  
Tel. 011.22.57.831 - [info@pcmitaly.it](mailto:info@pcmitaly.it) | [PEC:pec@pcmitaly.it](mailto:pec@pcmitaly.it) | [www.pcmitaly.it](http://www.pcmitaly.it)

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Professional Consulting &amp; Management

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, lì 22/02/2023

PCM S.r.l.  
Il legale Rappresentante  
Matteo Baldi

(Firmato digitalmente)



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Massimiliano Cipolletta,  
In qualità di Legale Rappresentante della Fondazione Piemonte Innova, avente sede legale in Galleria San  
Federico n. 54, 10121 Torino, e sede operativa in Via Vincenzo Vela n. 3,  
10128 Torino,

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Fondazione Piemonte Innova contribuisce alla competitività del territorio, accelerando la crescita delle imprese che utilizzano le tecnologie come fattore strategico di sviluppo e affiancando le istituzioni nella progettazione e gestione di processi di innovazione.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i:

- ✗ Built Environment & Energy Systems (energia ed edifici)
- ✗ Mobility & Transport (trasporti e mobilità)
- ✗ Waste & Circular Economy (rifiuti ed economia circolare)
  - Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo la Fondazione è impegnata nella realizzazione del Progetto DC4ET – Digital Competences for Energy Transition e porta avanti, attraverso la filiera Green&Circular del Polo ICT, lo sviluppo di modelli di business più sostenibili.

- Attività che intende realizzare nell'ambito “**Built Environment & Energy Systems (energia ed edifici)**”:

**PCM Srl**  
c/o Environment Park -Via Livorno 60 Torino - PadB2 -Liv1 Stanza 2  
P.IVA e CF: 08868350011  
Tel. 011.22.57.831 - [info@pcmitaly.it](mailto:info@pcmitaly.it) | [PEC:pcmitaly@pec.it](mailto:pec@pcmitaly.it) | [www.pcmitaly.it](http://www.pcmitaly.it)

3

**Fondazione Piemonte Innova**  
Via Vincenzo Vela, 3 - 10128 Torino  
Tel +39 011 9501401  
[info@piemonteinnova.it](mailto:info@piemonteinnova.it)

[PEC.piemonteinnova@pec.piemonteinnova.it](mailto:PEC.piemonteinnova@pec.piemonteinnova.it)  
C.F. 97634960010 P.IVA 09049730014  
SDI: J6URRTW

[piemonteinnova.it](http://piemonteinnova.it) 1



Contatto dell'organizzazione per questa attività: Luca Mancino; luca.mancino@piemonteinnova.it; Mob.: +39 339 7734011

Anno previsto per l'avvio dell'azione: 2024 – attività già in corso

Il progetto **DC4ET**, ideato e realizzato con il supporto di Fondirigenti, intende definire, attraverso il coinvolgimento diretto delle imprese con metodi partecipativi e strumenti per la digital collaboration, un modello per supportare le aziende, in particolare le PMI, verso una maggiore sicurezza energetica e nella transizione ambientale ed ecologica. Il percorso intende sviluppare uno strumento di valutazione del profilo energetico di ogni impresa e individuare in otto mesi un mix innovativo di buone pratiche, competenze, strumenti e metodi da adottare per la transizione ambientale ed ecologica, testarli presso le aziende partecipanti e consegnare a Fondirigenti un modello replicabile che garantisca alle imprese una migliore capacità di comprendere le priorità energetiche su cui investire.

Contatto dell'organizzazione per questa attività: Veronica Spadoni; veronica.spadoni@piemonteinnova.it; Mob.: +39 334 6720209

Anno previsto per l'avvio dell'azione: 2024 – attività già in corso

Il Polo di Innovazione ICT, tramite la sua **Filiera Green & Circular**, sostiene l'adozione delle tecnologie digitali da parte delle imprese, per favorire la riconversione e l'innovazione in chiave sostenibile dei sistemi produttivi esistenti, aumentando l'offerta di beni e servizi con impatto ambientale positivo. Le singole imprese e le filiere produttive del territorio hanno infatti l'esigenza crescente di competenze e soluzioni digitali a supporto dell'innovazione di prodotti, efficientamento dei processi e design di modelli di business più sostenibili.

In questo ruolo la Fondazione è impegnata nel supporto di numerosi enti, collaborando soprattutto a livello regionale, metropolitano e a fianco della Città di Torino.

- Attività che intende realizzare nell'ambito **"Mobility & Transport (trasporti e mobilità)"**:

Contatto dell'organizzazione per questa attività: Cesar Pacheco; cesar.pacheco@piemonteinnova.it; Mob.: +39 334 218 1106

Anno previsto per l'avvio dell'azione: attività in corso

Nel contesto del **progetto Europeo SUMP's Ups**, Piemonte Innova ha contribuito all'analisi delle barriere e delle sfide nell'adozione del **PUMS** per la Città di Torino supportando il processo di pianificazione, il monitoraggio e la valutazione dell'impatto. Nel quadro di queste attività, la Fondazione ha coordinato l'implementazione di alcune misure di mobilità urbana sostenibile nella Città di Torino. A partire da ottobre 2023 inoltre, FPI è parte del **progetto Living Lab ToMove** del Comune di Torino che intende sviluppare un Living Lab diffuso sul territorio della Città e focalizzato sullo sviluppo di nuovi scenari di mobilità urbana smart e sostenibile, che utilizzino soluzioni innovative di mobilità autonoma, connessa e cooperativa. In questo contesto, FPI invita piccole, medie e grandi imprese nazionali interessate ad esplorare ed investire su tecnologie e sperimentazioni nell'ambito della mobilità urbana ad esprimere il proprio interesse a partecipare al percorso. Infine la Fondazione, tramite la **filiera Smart Mobility** del Polo ICT, stimola la



collaborazione tra i membri del Polo, sviluppando e potenziando reti lunghe caratterizzate da soluzioni per la mobilità intelligente e sostenibile.

In questo ruolo la Fondazione prende parte sia internamente, sia tramite l'adesione progetti in ambito di economia circolare e gestione dei rifiuti.

- Attività che intende realizzare nell'ambito **"Waste & Circular Economy (rifiuti ed economia circolare)"**:

Contatto dell'organizzazione per questa attività: Laura Morgagni, laura.morgagni@piemonteinnova.it; +39 335 678 0728

Anno previsto per l'avvio dell'azione: 2025 e in parte già avviate

Nello specifico delle sue **attività interne**, FPI ha già messo in atto alcune iniziative nei luoghi di lavoro: la riduzione del consumo di carta; il riciclo e smaltimento responsabile dei rifiuti tramite la raccolta differenziata dei rifiuti; la promozione della riutilizzo delle attrezzature e forniture d'ufficio; la sensibilizzazione e formazione del personale e, in ottica futura, la riduzione degli imballaggi delle proprie forniture e il monitoraggio e la valutazione delle prestazioni per tracciare i propri progressi in ambito di sostenibilità.

In ambito invece di partecipazione a progetti esterni, FPI ha preso parte al **progetto europeo Circular4.0**, per la transizione circolare e digitale delle imprese. Questo percorso propone alle PMI interessate un modello di supporto alla circolarità, con spunti per introdurre nuovi prodotti (ecodesign) e nuovi materiali nei loro cicli produttivi, per innovare prodotti o processi già presenti, e per avviare pratiche di reverse logistics e gestione dei rifiuti.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 22/02/2024

Fondazione Piemonte Innova  
Il Legale Rappresentante  
Massimiliano Cipolletta

Firmato digitalmente da:  
Massimiliano Cipolletta  
Data: 22/02/2024 09:46:48



Prot. 381- 8.70.18  
Torino, 23/02/2024

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Gabriele Francesco Maria PALA

In qualità di rappresentante legale di Planet Idea Srl con sede in Corso Stati Uniti 45 a Torino,

#### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Planet Idea Srl è il Competence Center per il real estate smart del gruppo Planet Smart City che studia e sviluppa soluzioni intelligenti vocate all'innovazione ambientale, digitale e sociale con particolare riferimento – ma non escludendo interventi anche in altri domini - al settore residenziale in particolare alla scala di quartiere. Il Competence Center è asservito ai progetti residenziali che Planet sviluppa nei Paesi target del gruppo, ma collabora anche con sviluppatori ed asset/property manager terzi a livello nazionale ed internazionale.

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito “**Built Environment & Energy Systems (energia ed edifici)**”.

In questo ruolo l'organizzazione è impegnata nella ricerca, sviluppo e commercializzazione di soluzioni digitali per la gestione energetica e conseguente potenziale decarbonizzazione progressiva degli usi finali negli immobili.

Attività che intende realizzare nell'ambito “**Built Environment & Energy Systems (energia ed edifici)**”

Contatto dell'organizzazione per questa attività: Andrea PALISCA, tel: 011 0890040, email:

[a.palisca@planetsmartcity.com](mailto:a.palisca@planetsmartcity.com)

Anno previsto per l'avvio dell'azione: 2024

Planet Idea s.r.l.  
c.so Stati Uniti, 45  
10129 Torino, Italia

T: +39 011 0890040  
www.planetsmartcity.com

planetidea@pec.it  
P.I. e C.F. 11370400019  
REA TO-1208463

Cod. Fatturazione  
Elettronica:  
USAL8PV



Planet Idea, entrata nel 2023 nella nuova sede di Corso Stati Uniti 45 a Torino, ha in programma di valutare una serie di interventi mirati all'efficiamento energetico dell'edificio storico utilizzando le seguenti soluzioni digitali sviluppate internamente per i progetti immobiliari smart:

- la piattaforma **Smart Energy** per la raccolta automatizzata di dati di consumo, la gestione attiva degli usi energetici dell'immobile e la simulazione e pianificazione di interventi di efficientamento, con l'obiettivo di ridurre i consumi del 10%;
- la soluzione **Smart Energy CER** per la simulazione, pianificazione e gestione di una nuova Comunità Energetica Rinnovabile di quartiere, creata da Planet, installando 40 kWp di impianto fotovoltaico sulla sede;
- l'applicazione **Planet App**, a disposizione di tutti gli utenti dell'immobile come strumento di informazione e automazione, con l'obiettivo di dare consapevolezza dei consumi e consentire l'adozione di azioni dirette per ridurre l'impatto ambientale.

Con l'iniziativa Torino CCC, Planet Idea intende mettere a disposizione della Città di Torino e di portatori di interesse pubblici e privati del territorio urbano queste tecnologie, con l'obiettivo di supportare la transizione energetica e la progressiva potenziale decarbonizzazione attraverso l'utilizzo di soluzioni digitali asservite ai sistemi energetici e più in specifico ai sistemi edificio-impianto, prevedendo anche un forte coinvolgimento degli utenti finali

Torino, li 22/02/2024

Planet Idea Srl  
Il Legale Rappresentante  
Gabriele Francesco Maria PALA

(Firmato digitalmente)

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“il Programma”), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”.*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Planet Idea s.r.l.  
c.so Stati Uniti, 45  
10129 Torino, Italia

T: +39 011 0890040  
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Cod. Fatturazione  
Elettronica:  
USAL8PV



## Pro Natura Torino APS

Via Pastrengo 13, 10128 Torino – Tel. 011/50.96.618

e-mail: torino@pro-natura.it Internet: <https://torino.pro-natura.it>

PEC: pronatura.torino@pec.it Orario: lunedì-venerdì 14-18

Codice Fiscale: 80090150014 - Partita IVA: 04575080017 - C.C. Postale n. 22362107

Aderente a Pro Natura Piemonte e alla Federazione Nazionale Pro Natura. Socio fondatore di Cipra Italia  
Associazione con personalità giuridica (Deliberazione Giunta Regionale del Piemonte N. 10-38484 del 19/06/1990)  
Iscritta nel Registro Regionale delle APS al n. 399/TO – Iscritta nel RUNTS con Determinazione 1201-A1419A del 29/05/2023

Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Paola Maria Campassi,

In qualità di presidente e legale rappresentante di Pro Natura Torino APS, con sede in Torino, Via Pastrengo 13, C.F. 80090150014,

### PREMESSO CHE

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **“100 Climate-Neutral Cities by 2030 – by and for Citizens”**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **“Contratto per il Clima (Climate City Contract)”**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Pro Natura Torino APS si prefigge come scopo la difesa da ogni alterazione dell'ambiente naturale in tutti i suoi aspetti e il miglioramento dell'ambiente di vita dell'uomo in particolare, ritenendo che l'ambiente naturale sia un patrimonio comune di tutti gli esseri viventi;

### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **“EU Mission for Climate-Neutral and Smart Cities”**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito

- Mobility & Transport (trasporti e mobilità)

In questo ruolo l'organizzazione è impegnata da decenni nel promuovere l'uso della mobilità dolce e del mezzo pubblico di trasporto con un'azione volta ad eliminare gli sprechi tramite l'utilizzo razionale dei mezzi e delle risorse.

- Attività che intende realizzare nell'ambito **“Mobility & Transport (trasporti e mobilità)”**

Contatto dell'organizzazione per questa attività: Renato Bauducco,  
[renatobauducco468@gmail.com](mailto:renatobauducco468@gmail.com), tel. 338.2364237.

Anno previsto per l'avvio dell'azione: 2024.

- Promozione Città 30;
- Implementazione piste ciclabili;
- Disincentivazione utilizzo auto private;
- Potenziamento TPL;
- Parcheggi di interscambio per intercettare la maggior parte delle 235.000 auto che ogni giorno entrano in città;
- Cicloparcheggi in sicurezza;
- Scuole car free.

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“il Programma”), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”.*  
*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 22/02/2024

Pro Natura Torino APS  
La Legale Rappresentante  
*Paola Maria Campassi*

(Firmato digitalmente)

Firmato digitalmente da:  
CAMPASSI PAOLA MARIA  
Firmato il 22/02/2024 13:53  
Seriale Certificato: 1568700  
Valido dal 22/06/2022 al 22/06/2025  
InfoCamere Qualified Electronic Signature CA



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Riccardo Leonardi

In qualità di rappresentante legale di ReLearn srl con sede in Torino, Via Cernaia 24

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **“100 Climate-Neutral Cities by 2030 – by and for Citizens”**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **“Contratto per il Clima (Climate City Contract)”**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. ReLearn è una startup innovativa torinese nata con l'obiettivo di trasformare i rifiuti in una risorsa utilizzando l'Intelligenza Artificiale.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **“EU Mission for Climate-Neutral and Smart Cities”**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- **Waste & Circular Economy (rifiuti ed economia circolare)**
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in aiutare le aziende e i comuni a raggiungere l'obiettivo rifiuti zero. Grazie all'intelligenza artificiale, ReLearn raccoglie dati precisi sulla quantità di rifiuti prodotti per rendere i nostri clienti conformi al bilancio di sostenibilità e alle normative europee di rendicontazione sostenibile, riducendo le emissioni di CO2 legate ai rifiuti e sensibilizzando la comunità. ReLearn è attiva in più di 6 paesi europei e aiuta più di 45 aziende a rendicontare e ridurre l'impatto dei loro rifiuti. In particolare a Torino lavora con il campus delle Nazioni Unite – ITCILO e con IREN Ambiente per il miglioramento della qualità della raccolta differenziata. Ogni giorno coinvolge più di 12.000 persone educandole alla corretta differenziazione dei rifiuti, generando un aumento medio del tasso di riciclaggio (+58%) e quindi un aumento dei rifiuti correttamente differenziati (+12.400 kg). I chilogrammi di rifiuti correttamente differenziati sono il risultato

Re Learn srl - Via Cernaia 24, 10122, Torino, Italia  
www.re-learn.eu - [info@re-learn.eu](mailto:info@re-learn.eu) - [relearn@epec.it](mailto:relearn@epec.it)  
Partita IVA 1242841001 - Società a responsabilità limitata - Startup innovativa



operativo di NANDO nelle strutture dei nostri clienti. Considerando che i rifiuti sono la quarta fonte di emissioni di CO2, possiamo calcolare la CO2 risparmiata grazie alla corretta differenziazione: - 15.150 kg.

- Attività che intende realizzare nell'ambito **“Waste & Circular Economy (rifiuti ed economia circolare)”**  
Contatto dell'organizzazione per questa attività: Riccardo Leonardi – [riccardo.leonardi@re-learn.eu](mailto:riccardo.leonardi@re-learn.eu) - 3395211020  
Anno previsto per l'avvio dell'azione: ReLearn è già attiva nel settore quindi potremmo partire da subito.  
Attività: ReLearn vorrebbe utilizzare NANDO, il primo strumento di monitoraggio dei rifiuti, alimentato dall'AI. NANDO raccoglie dati accurati sulla quantità e qualità dei rifiuti prodotti, calcolando la qualità della raccolta differenziata, consentendo di redigere rapporti di sostenibilità più rigorosi e sensibilizzando la comunità aziendale e cittadina. Attraverso la gamification, infatti, NANDO fornisce un servizio di comunicazione coinvolgente che permette all'azienda di diffondere una maggiore consapevolezza sui temi dell'ambiente e dei rifiuti, presso i propri stakeholder.
  1. MONITORAGGIO E REPORTING: NANDO riporta la quantità e la qualità dei rifiuti attraverso dati precisi su una dashboard di monitoraggio dei rifiuti, creando un report professionale secondo lo standard GRI 306.
  2. ENGAGEMENT: NANDO diffonde pratiche sostenibili per ottenere il miglior tasso di riciclaggio e ridurre la produzione dei rifiuti prodotti. Attraverso un tablet, aiuta a identificare in quale cassonetto devono andare i rifiuti, in base alle normative sullo smaltimento dei rifiuti della città e inoltre notifica gli errori di conferimento. Non è possibile risolvere un problema se non lo si monitora.

ReLearn vuole aiutare le aziende e le municipalità visionarie a raggiungere l'obiettivo RIFIUTI ZERO rispettando gli SDG (9,11,12,13).

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“il Programma”), con il solo scopo di manifestare il proprio supporto all’iniziativa e a manifestare l’interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”.*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 20/02/24

*ReLearn srl  
//la Legale Rappresentante  
Riccardo Leonardi*

(Firmato digitalmente)

Re Learn srl - Via Cernaia 24, 10122, Torino, Italia  
www.re-learn.eu - [info@re-learn.eu](mailto:info@re-learn.eu) - [relearn@epec.it](mailto:relearn@epec.it)  
Partita IVA 1242841001 - Società a responsabilità limitata - Startup innovativa



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

La sottoscritta Laura Piana, in qualità di legale rappresentante dell'associazione Rifiuti Zero Piemonte con sede in Torino, corso Trapani 193

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Rifiuti Zero Piemonte** è attiva da anni in attività volte alla difesa ambientale promuovendo una gestione virtuosa dei rifiuti nonché politiche per la loro riduzione con iniziative rivolte sia alla popolazione che alle istituzioni

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative all'ambito

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- • **Waste & Circular Economy (rifiuti ed economia circolare)**
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata in iniziative rivolte sia alla popolazione che alle istituzioni nell'ambito della gestione rifiuti e dell'economia circolare

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]  
Anno previsto per l'avvio dell'azione: [Anno]  
[descrizione azione max 1000 caratteri] \_\_\_\_\_

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- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]  
Anno previsto per l'avvio dell'azione: [Anno]  
[descrizione azione max 1000 caratteri] \_\_\_\_\_
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- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Oscar Brunasso - [oscarbrunasso@yahoo.it](mailto:oscarbrunasso@yahoo.it) -  
Cell. 3474196617  
Anno previsto per l'avvio dell'azione: dal 2024 in poi  
Le nostre attività informative e partecipative nelle sedi istituzionali, con analisi, proposte e confronto nei procedimenti autorizzativi e progettuali riguardanti i processi di gestione dei rifiuti e di generazione energetica nel territorio piemontese.

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività: [Nome] [Cognome] [Email] [Tel]  
Anno previsto per l'avvio dell'azione: [Anno]  
[descrizione azione max 1000 caratteri] \_\_\_\_\_
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Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportate rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 22 febbraio 2024

Rifiuti Zero Piemonte  
La legale rappresentante  
Dott.ssa Laura Piana - Presidente

(Firmato digitalmente)

Associazione **Rifiuti Zero Piemonte**, corso Trapani, 193 - CAP 10141 - Torino - C.F. 97798440018  
[piemontefiutizero@gmail.com](mailto:piemontefiutizero@gmail.com) - [rifiutizeropiemonte@pec.it](mailto:rifiutizeropiemonte@pec.it)

Copia del documento originale con apposizione del protocollo



Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Bruno Lanfranco In qualità di amministratore unico di Siborg Srl con sede legale in Torino Via Barberis 5 e sede operativa in Torino Via Livorno 60 (Environment Park)

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma “**100 Climate-Neutral Cities by 2030 – by and for Citizens**”. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato “**Contratto per il Clima (Climate City Contract)**”;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. Siborg Srl è una società che svolge consulenza organizzativa, ambientale, energetica, nel campo della sostenibilità e compensazione di emissioni di carbonio mediante la scelta e l'impianto di alberi a forte cattura di CO2

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio “**EU Mission for Climate-Neutral and Smart Cities**”, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti TRANSIZIONE ECOLOGICA e DECARBONIZZAZIONE

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

In questo ruolo l'organizzazione è impegnata nell'offrire quotidianamente alle imprese consulenza per le certificazioni ISO 9001(organizzazione), ISO 14001(ambiente), ISO 50001(energia), UNI 11352 (ESCo), ISO 14046 (Water Foot Print), ISO 14064 (Carbon Foot Print), altre. Utilizza tecnologie per la riduzione dei consumi energetici. Ricerca di terreni agricoli per l'agroforestazione e la compensazione di CO2.

V. Livorno 60 <a href="mailto:info@siborg.it">info@siborg.it</a>	10144 <a href="http://www.siborg.it">www.siborg.it</a>	Siborg Srl TORINO	Tel. 011- 2257331 rev.0/2024	Pag. 2 di 2
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8.v, 70.v, 18/2024A/001.fra, 001.airm, 1.nd, 1.a

Copia del documento originale con apposizione del protocollo



- Attività che intende realizzare nell'ambito “Built Environment & Energy Systems (energia ed edifici)”  
Contatto dell'organizzazione per questa attività: Bruno Lanfranco [info@siborg.it](mailto:info@siborg.it) Tel. 340-5753927  
Anno previsto per l'avvio dell'azione: 2024  
**Installazione di sensoristica per riduzione consumi elettrici**

- Attività che intende realizzare nell'ambito “Mobility & Transport (trasporti e mobilità)”  
Contatto dell'organizzazione per questa attività: Bruno Lanfranco [info@siborg.it](mailto:info@siborg.it) Tel. 340-5753927  
Anno previsto per l'avvio dell'azione: 2024  
**Utilizzo di auto a GPL**

- Attività che intende realizzare nell'ambito “Waste & Circular Economy (rifiuti ed economia circolare)”  
Contatto dell'organizzazione per questa attività: Bruno Lanfranco [info@siborg.it](mailto:info@siborg.it) Tel. 340-5753927  
Anno previsto per l'avvio dell'azione: 2024  
**Aumento della digitalizzazione in ufficio**

- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)  
Contatto dell'organizzazione per questa attività: Bruno Lanfranco [info@siborg.it](mailto:info@siborg.it) Tel. 340-5753927  
Anno previsto per l'avvio dell'azione: 2024  
**Aumento dell'offerta ai Clienti di compensazione mediante Agriforestazione**

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento “Percorso di partecipazione” allegato al Piano di Azione del “Contratto per il Clima” per la partecipazione al programma Europeo “100 Climate-Neutral Cities by 2030 – by and for Citizens” (“il Programma”), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.  
Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del “Programma”.  
La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 15/02/2024

Siborg Srl  
L'amministratore Unico  
Bruno Lanfranco

V. Livorno 60 <a href="mailto:info@siborg.it">info@siborg.it</a>	10144 <a href="http://www.siborg.it">www.siborg.it</a>	Siborg Srl TORINO	Tel. 011- 2257331 rev.0/2024	Pag. 2 di 2
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8.v, 70.v, 18/2024A/001.fra, 001.airm, 1.nd, 1.a



Copia del documento originale con apposizione del protocollo



*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

OGGETTO: **Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Daniele CHIARI

In qualità di rappresentante legale di Stellantis Europe SpA con sede in Torino, Corso Agnelli 200

**PREMESSO CHE**

- i.* La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii.* il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii.* Stellantis Europe SpA è un'azienda manifatturiera impegnata nella fornitura di beni e servizi di mobilità sostenibile, impegnata nella completa decarbonizzazione dei suoi prodotti e processi entro il 2038, con una riduzione del 50% rispetto al 2021 entro il 2030, come da obiettivi del suo piano strategico Dare Forward 2030.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti:

- ✓ Built Environment & Energy Systems (energia ed edifici)
- ✓ Mobility & Transport (trasporti e mobilità)
- ✓ Waste & Circular Economy (rifiuti ed economia circolare)
- Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)

Stellantis Europe S.p.A.  
C.so G. Agnelli 200, 10135 Turin, Italy  
Ph. +39 011 003 1111  
Registered Office: C.so G. Agnelli 200,  
10135 Turin, Italy

Share Capital Euros 850.000.000  
fully paid-up  
Reg. of Comp. of Turin, Fiscal Code,  
and VAT n.: 07973780013  
REA Turin n. 934697, Foreign Trade -  
Position n. TO 084920

Company with a sole shareholder  
"Direzione e Coordinamento"  
(art. 2497 Italian Civil Code):  
Stellantis N.V.

6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 26.nd, 1.a

Copia del documento originale con apposizione del protocollo



In questo ruolo l'organizzazione è impegnata in:

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività: Daniele Chiari- email : daniele.chiari@stellantis.com  
cell : 335-1044594  
Anno previsto per l'avvio dell'azione: **2026**  
Progetto GrEEn Campus – Trasformazione della sede di Mirafiori in un polo di lavoro collaborativo e ad emissioni zero di CO2, tramite:
  - Integrazione di pannelli fotovoltaici nell'architettura
  - Impiego di tecnologie di ventilazione a bassissimo consumo
  - Riutilizzo dei materiali
  - Scelte architettoniche che assicurano efficienza ambientale, resilienza e adattabilità all'evoluzione del clima
  - Ampi spazi verdi che contribuiscono alla regolazione termica e al benessere dei dipendenti.
- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: Daniele Chiari- email : daniele.chiari@stellantis.com  
cell : 335-1044594  
Anno previsto per l'avvio delle azioni: **2020-2024**
  - Produzione dal 2020 nello Stabilimento di Mirafiori della 500e, unica vettura BEV attualmente prodotta in Italia, ad emissioni zero di CO2 allo scarico, esportata principalmente in tutta Europa e negli Stati Uniti.
  - Produzione dal 2024 nello Stabilimento di Mirafiori della nuova trasmissione e-DCT, che equipaggerà i veicoli MHEV e PHEV di Stellantis, a basse e bassissime emissioni di CO2.
  - Inaugurazione a Settembre 2023 dell'innovativo Battery Technology Center per testing e sviluppo dei pacchi batteria che equipageranno i futuri veicoli di Stellantis. Con 8000 metri quadrati e 32 celle climatiche, il Battery Technology Center è il più grande in Italia e uno dei più importanti in Europa
- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: Daniele Chiari- email : daniele.chiari@stellantis.com  
cell : 335-1044594  
Anno previsto per l'avvio dell'azione: **2023**  
Inaugurazione a Novembre 2023 del SUSTAINera Circular Economy Hub, con un approccio a 360° basato sulla strategia delle 4R : Rigenerazione, Riparazione, Riutilizzo e Riciclo, applicata a batterie, componenti ed interi autoveicoli. Il sito occupa un'area di 73000 metri quadrati, di cui 55000 riconvertendo una struttura parzialmente inutilizzata, riciclando circa 5000 tonnellate di metallo proveniente da risorse obsolete e utilizzando attrezzature e macchinari recuperati da altre sedi.

Arrivo: AOO 074, N. Prot. 00002400 del 06/03/2024

6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 26.nd, 1.a

Copia del documento originale con apposizione del protocollo



Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 - by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 5 marzo 2024

Stellantis Europe SpA  
Il Legale Rappresentante  
Daniele Chiari

6.v, 90.v, 1\_2024/074.sfa, 074.arm, 20/2024A/074.fra, 074.arm, 26.nd, 1.a

**SUNSPEKER SRL****Via Luigi Cibrario 83, Torino.**

Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Fabrizio Chiara,

In qualità di rappresentante di Sunspeker srl con sede in Torino, Via Luigi Cibrario 83, Torino.

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "**100 Climate-Neutral Cities by 2030 - by and for Citizens**". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "**Contratto per il Clima (Climate City Contract)**";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Sunspeker Srl** è una società attiva nella realizzazione di soluzioni estetiche per il settore del fotovoltaico, con lo scopo di aumentare l'adozione della tecnologia dei pannelli solari in ogni contesto paesaggistico e di aree sottoposte a tutela comprese le città, aumentando l'impatto positivo per l'ambiente, con materiali che a fine vita tornano ad essere materia prima seconda.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "**EU Mission for Climate-Neutral and Smart Cities**", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i Built Environment & Energy Systems (energia ed edifici)

In questo ruolo l'organizzazione è impegnata nello sviluppo delle sue attività sul territorio piemontese, in primis a Torino, aprendo la sua sede nella città, con lo scopo di realizzare progetti con una ricaduta reale sul territorio, mediante l'utilizzo della sua tecnologia che va ad aumentare l'autoproduzione di energia solare, in totale armonia estetica e rispettando le norme di protezione dei territori imposti dagli organi preposti.

- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"  
Contatto dell'organizzazione per questa attività: Fabrizio Chiara, [fabrizio@sunspeker.com](mailto:fabrizio@sunspeker.com), +393492930181  
Anno previsto per l'avvio dell'azione: 2024

Trasformazione di facciate e tetti di edifici, in impianti solari estetici/pubblicitari, in grado di supportare l'autoproduzione e l'autoconsumo di energia solare, riducendo l'impatto ambientale, e i costi di realizzazione degli impianti, grazie a nuovi modelli di business che rendono più profittevoli gli investimenti in energia green

*Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.*

*Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".*

*La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.*

Torino, li 19.02.2024

*Sunspeker Srl  
Il Legale Rappresentante  
Fabrizio Chiara*



(Firmato digitalmente)  
Firmato digitalmente da:  
**FABRIZIO CHIARA**  
Firmato il 19/02/2024 09:45  
Seriale Certificato: 6585181093111719169  
Valido dal 13/07/2023 al 13/07/2026  
ArubaPEC EU Qualified Certificates CA G1



Triciclo Società Cooperativa Sociale  
Sede legale: Corso Chieri 121/6 - 10132 Torino  
Sede operativa: Via Ferrero 96 - 10098 Rivoli (TO)  
tel 011/2476311 - fax 011/2472230  
www.triciclo.com - info@triciclo.com - info@pec.triciclo.com  
p.Iva/codice fiscale/Reg.Imp.To 07211740019 Albo cooperative n°

*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Pier Andrea Moiso

In qualità di rappresentante legale di Triciclo Società Cooperativa Sociale con sede legale in Torino,  
Corso Chieri 121/6, 10132

#### PREMESSO CHE

1. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
2. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
3. **Triciclo Società Cooperativa Sociale** da oltre 25 anni si occupa di riduzione dei rifiuti ed economia circolare attraverso il recupero e la valorizzazione di beni usati, sviluppando opportunità lavorative per persone con difficoltà

#### MANIFESTA

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolta quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambiti

- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)

**In questo ruolo l'organizzazione è impegnata in attività strutturate di riduzione dei rifiuti tramite il riutilizzo e la diffusione della mobilità non emissiva attraverso la promozione dell'uso e riparazione di biciclette usate**





Triciclo Società Cooperativa Sociale  
Sede legale: Corso Chieri 121/6 - 10132 Torino  
Sede operativa: Via Ferrero 96 - 10098 Rivoli (TO)  
tel 011/2476311 - fax 011/2472230  
www.triciclo.com - info@triciclo.com - info@pec.triciclo.com  
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www.triciclo.com - info@triciclo.com - info@pec.triciclo.com  
p.Iva/codice fiscale/Reg.Imp.To 07211740019 Albo cooperative n°

Torino, lì 23/2/2024

Triciclo scs  
Il Legale Rappresentante  
Pier Andrea Moiso

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"  
Contatto dell'organizzazione per questa attività: **Pier Andrea Moiso, e-mail [p.moiso@triciclo.com](mailto:p.moiso@triciclo.com), cell. 3487613325**  
Anno previsto per l'avvio dell'azione: **2024-2025**  
**Triciclo scs intende migliorare la propria capacità di promuovere l'utilizzo della bicicletta come mezzo di trasporto urbano ed ordinario, realizzando:**
  - **Verificare con le Istituzioni Pubbliche locali, le organizzazioni associative di promozione della bicicletta, Aziende interessate al tema, la possibilità per strutturare comunicazione ed eventi adeguati al contesto attuale per modalità ed efficacia, in grado di rappresentare la validità dell'alternativa di questo mezzo all'automobile privata individuale**
  - **Incrementare la capacità di recupero di biciclette usate o loro parti per poter avere maggiore capacità di offerta ad un pubblico generale in cerca di un'alternativa valida alla automobile**
  - **Aumentare la confidenza con il mezzo biciclette attraverso momenti di approfondimento, specificamente orientati alla RIPARAZIONE E MANUTENZIONE.**

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"  
Contatto dell'organizzazione per questa attività: **Pier Andrea Moiso, e-mail [p.moiso@triciclo.com](mailto:p.moiso@triciclo.com), cell. 3487613325**  
Anno previsto per l'avvio dell'azione: **2024-2025-2026**  
**Triciclo scs si occupa di ridurre il volume dei rifiuti tramite l'attività di riutilizzo. In particolare lavora presso il Centro del Riuso di via Arbe 12 Torino nell'avvio al riutilizzo dei rifiuti conferiti dai cittadini presso il contiguo Centro di Raccolta Rifiuti.**  
**Triciclo scs vorrebbe incrementare questa azione ed intende verificare la possibilità di attivare questa specifica attività di riduzione rifiuti tramite il riutilizzo e la riparazione presso almeno un ulteriore Centro di Raccolta Rifiuti delle Città di Torino, in gestione al gruppo Amiat-Iren. La Città di Torino ed Amiat Iren, insieme ai cittadini di Torino, rappresenta gli stakeholder che possono rendere possibile l'incremento dell'attività di riutilizzo e riparazione.**

Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 - by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.  
Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".  
La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.





*Alla attenzione di Chiara Foglietta  
Assessora alla Transizione Ecologica  
della Città di Torino*

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Angelo Cappetti, in qualità di Direttore Generale di Unione Industriali Torino con sede in Torino, Via Fanti 17.

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma **"100 Climate-Neutral Cities by 2030 – by and for Citizens"**. A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato **"Contratto per il Clima (Climate City Contract)"**;
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. **Unione Industriali Torino** è un'associazione volontaria d'impresе di livello territoriale aderente a Confindustria, per la rappresentanza, la tutela, la promozione e lo sviluppo delle aziende e dei loro interessi.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio **"EU Mission for Climate-Neutral and Smart Cities"**, a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative al/agli ambito/i

- Built Environment & Energy Systems (energia ed edifici)
- Mobility & Transport (trasporti e mobilità)
- Waste & Circular Economy (rifiuti ed economia circolare)

In questo ruolo l'organizzazione è impegnata al momento, anche in considerazione del ruolo associativo svolto sul territorio, in attività con impatto indiretto sugli ambiti sopra citati, e più in particolare:

Unione Industriali Torino  
Via Manfredo Fanti, 17  
10128 Torino (TO)

Codice Fiscale 80082190010  
info@ui.torino.it - www.ui.torino.it  
Tel. +39 011 57181 - Fax +39 011 544634



- Attività che intende realizzare nell'ambito "Built Environment & Energy Systems (energia ed edifici)"

Contatto dell'organizzazione per questa attività: Alessandro Moschini – [a.moschini@ui.torino.it](mailto:a.moschini@ui.torino.it) - 0115718255

Anno previsto per l'avvio dell'azione: 2024

Attivazione di percorsi di informazione e sensibilizzazione nei confronti delle imprese associate del territorio attraverso la realizzazione di eventi, presentazioni, distribuzione di documenti a imprenditori, energy manager e dirigenti aziendali sul tema dell'efficiamento energetico di edifici e impianti. Uno di questi percorsi, denominato Coaching energetico, ha intenzione di aumentare la consapevolezza delle imprese negli strumenti di autoproduzione di energia da fonti rinnovabili.

- Attività che intende realizzare nell'ambito "Mobility & Transport (trasporti e mobilità)"

Contatto dell'organizzazione per questa attività: Alessandro Moschini – [a.moschini@ui.torino.it](mailto:a.moschini@ui.torino.it) - 0115718255

Anno previsto per l'avvio dell'azione: 2024

Promuovere e collaborare a iniziative che hanno l'intento di favorire lo sviluppo e la conoscenza di diversi strumenti rivolti a una mobilità più sostenibile di merci e persone. Attraverso la costituzione di una filiera di imprese associate che si occupano di energia e mobilità sostenibile l'organizzazione intende inoltre individuare ogni sinergia utile sul territorio allo scopo di agevolare lo sviluppo di imprese e progetti che prevedono l'impiego di fonti alternative di alimentazione e/o la diffusione di sistemi di trasporto più efficienti in termini ambientali.

- Attività che intende realizzare nell'ambito "Waste & Circular Economy (rifiuti ed economia circolare)"

Contatto dell'organizzazione per questa attività: Paolo Piagneri – [p.piagneri@ui.torino.it](mailto:p.piagneri@ui.torino.it) - 0115718233 / Daniela Laigueglia – [d.laigueglia@ui.torino.it](mailto:d.laigueglia@ui.torino.it) – 011 5718348

Anno previsto per l'avvio dell'azione: 2024

Attivazione di percorsi di informazione e sensibilizzazione nei confronti delle imprese associate del territorio attraverso la realizzazione di eventi, presentazioni, distribuzione di documenti a imprenditori e dirigenti aziendali in tema di gestione rifiuti, impiego di sottoprodotti, gestione degli imballaggi. Attraverso inoltre lo Sportello ESG viene garantito un orientamento alla definizione di strategie e politiche di circular economy per le imprese.



Le informazioni sopra riportate sono fornite dalla ns Organizzazione alla Città di Torino al solo scopo di essere inserite (in lingua Italiana e/o Inglese) nel documento "Percorso di partecipazione" allegato al Piano di Azione del "Contratto per il Clima" per la partecipazione al programma Europeo "100 Climate-Neutral Cities by 2030 – by and for Citizens" ("il Programma"), con il solo scopo di manifestare il proprio supporto all'iniziativa e a manifestare l'interesse ad essere informati e coinvolti nelle future attività del Programma.

Il contenuto delle azioni qui riportato rappresenta una mera descrizione sintetica di attività che l'organizzazione ha intrapreso e/o di attività che, alla data di sottoscrizione del presente documento, l'organizzazione prevede di intraprendere in maniera autonoma e volontaria e con ricorso a risorse proprie, indipendentemente dalle previsioni e dai contenuti del "Programma".

La sottoscrizione della Manifestazione di Interesse e di ogni altro documento correlato non rappresenta un obbligo e/o un vincolo né alla futura partecipazione al Programma né alla realizzazione, in forma parziale o integrale, delle azioni descritte qui descritte, rimanendo facoltà della sola organizzazione di recedere in qualsiasi momento da qualsivoglia impegno, sollevando nel contempo la Città di Torino da qualsivoglia obbligazione legata ai contenuti e alla realizzazione o mancata realizzazione delle attività sopra descritte.

Torino, li 23/02/2024

Unione Industriali Torino

Il Direttore Generale

Angelo Cappelli



Alla cortese attenzione di Chiara Foglietta  
 Assessora alla Transizione Ecologica  
 della Città di Torino

**OGGETTO: Manifestazione di interesse Torino Climate City Contract**

Il sottoscritto Piero Boccoardo

In qualità di Presidente e Legale rappresentante dell'Associazione Urban Lab con sede in Piazza Palazzo di Città 8/f, Torino

**PREMESSO CHE**

- i. La Città di Torino è stata selezionata tra le 100 Città Europee del programma "100 Climate-Neutral Cities by 2030 – by and for Citizens". A questo fine, formalizzerà il proprio impegno con la presentazione alla Commissione Europea, a marzo 2024, di un documento denominato "Contratto per il Clima (Climate City Contract)";
- ii. il Contratto è un documento programmatico con il quale l'Amministrazione si impegna a favorire la transizione verso la neutralità climatica;
- iii. L'associazione Urban Lab è un'associazione autonoma nata per raccontare i processi di trasformazione di Torino e area metropolitana. È un centro di documentazione, divulgazione e dibattito sulla città, un luogo di confronto e informazione a disposizione di cittadini, pubblico esperto e operatori economici. Urban Lab parla ai cittadini interessati alle trasformazioni urbane accompagnandoli alla scoperta del territorio torinese, delle sue architetture, dei suoi spazi e dei loro usi. Urban Lab offre al pubblico esperto e agli addetti ai lavori la possibilità di approfondire le politiche, i piani e i progetti di trasformazione urbana guardando all'esperienza locale e alle buone pratiche internazionali.

**MANIFESTA**

l'interesse a sostenere la presentazione della proposta di Climate City Contract della Città di Torino alla Commissione Europea e, in caso di conferimento del marchio "[EU Mission](#)

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for [Climate-Neutral and Smart Cities](#)", a essere coinvolto quale stakeholder nel percorso verso la neutralità climatica, con particolare riferimento ad attività relative agli ambito/i:

- **Built Environment & Energy Systems (energia ed edifici)**
- **Mobility & Transport (trasporti e mobilità)**
- **Waste & Circular Economy (rifiuti ed economia circolare)**
- **Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)**

Relativamente ai 4 ambiti Urban Lab è coinvolto già dalla primavera del 2023 nel complesso di azioni che riguardano lo [sviluppo del nuovo Piano Regolatore della Città di Torino](#). La realizzazione di un nuovo Piano Regolatore è un processo complesso i cui indirizzi generali devono essere affrontati anche attraverso una prospettiva condivisa con i diversi soggetti che sul territorio agiscono e operano. Per queste ragioni, dal mese di giugno 2023, e con due appuntamenti successivi nei mesi di ottobre e novembre) la Città di Torino insieme a Urban Lab hanno avviato un [percorso di ascolto del territorio](#) articolato in diverse attività che ha intercettato le molte componenti organizzate dell'ecosistema locale. Questo lavoro continuerà per tutto il 2024 con una campagna di ascolto e di ingaggio dei cittadini nei quartieri, che, tra le altre cose, affronterà anche in maniera estesa ed articolata i quattro principali ambiti di lavoro identificati dalla Missione.

Contatto dell'organizzazione per questa attività:

Chiara Lucchini (sviluppo territoriale)  
[chiara.lucchini@urbancenter.to.it](mailto:chiara.lucchini@urbancenter.to.it)  
 +39 349 34 24 760

Si coglie inoltre l'occasione per segnalare che nell'ambito delle attività relative a **Green Infrastructure & Nature Based Solutions (verde e soluzioni naturali)**, nell'arco del 2024 Urban Lab porterà a termine le attività di animazione e comunicazione territoriale nel quartiere Valdocco, attraverso il Life Lab Valdocco Vivibile insieme alla Città di Torino. Le attività si sviluppano nell'ambito del progetto CONEXUS – Urban ecosystem renewal in EU and CELAC cities, finanziato dall'Unione Europea attraverso il programma Horizon 2020, e comprendono in particolare il coinvolgimento degli stakeholder del quartiere, con specifico riferimento agli istituti scolastici (scuole secondarie di primo e secondo grado). L'obiettivo è quello di mettere a sistema le realtà del territorio, così che possano dialogare

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e co-progettare un percorso comunicativo, informativo e di sensibilizzazione su Valdocco Vivibile, in particolare in relazione ai contributi che porterà per contrastare il cambiamento climatico attraverso l'introduzione e la messa a sistema di una serie di soluzioni basate sulla natura per l'adattamento climatico degli spazi urbani.

La sperimentazione torinese di Conexus si sviluppa attraverso la costruzione di un percorso di sensibilizzazione, animazione territoriale e comunicazione nel quartiere Valdocco sui temi della sostenibilità ambientale e in particolare sui benefici che le soluzioni basate sulla natura sono in grado di portare ai contesti urbani.

Contatto dell'organizzazione per questa attività:

Alessandro Tempia Valenta (relazioni con il territorio)  
[alessandro.tempiavalenta@urbancenter.to.it](mailto:alessandro.tempiavalenta@urbancenter.to.it)  
 +39 340 429 7218

Torino, li 21/02/2024

Associazione Urban Lab  
 Il Presidente e legale rappresentante  
*Piero Boccardo*

(Firmato digitalmente)

Firmato digitalmente da: PIERO BOCCARDO  
 Organizzazione: POLITECNICO DI TORINO/00518460019  
 Limitazioni d'uso: Explicit Text: Il titolare fa uso del presente certificato solo per le finalità di lavoro per le quali esso è rilasciato. The certificate holder must use the certificate only for the purposes for which it is issued.  
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