



The Initiation of Sustainable Energy Community for the City of Liberec

LIBEREC, CZECHIA

Emissions domains addressed by the Pilot Activity



Consumption of non-electricity energy for thermal uses in buildings & facilities



Consumption of electricity generated for buildings, facilities & infrastructure



All vehicles & transport (mobile energy)

Key Focus Areas

Energy community | Electrification | RES | Transport roadmap | Stakeholder engagement | PV sharing | Community energy

Levers of Change

Democracy and participation | Financing and funding | Learning and capabilities | Social innovation | Technology/infrastructure

Description of the Pilot Activity

Liberec launched a citywide energy community to drive renewable adoption, transport electrification, and public engagement. The pilot built foundations for distributed energy planning, stakeholder mapping, and behavioural change—linking building-scale retrofits with e-mobility and citizen participation to address local fragmentation and create a more resilient energy future.

Innovation Highlights

The phased expansion roadmap starts with PV sharing across municipal buildings, then opens to citizens and housing associations—demonstrating a pragmatic path from municipal demonstration to broader community participation.

The energy community model navigates Czech regulatory frameworks, offering a blueprint for other Czech cities.

Impact & Results

Energetické společenství Liberec was registered with the Energy Regulatory Office in January 2025—the city's first concrete legal entity for community energy, providing a mechanism to integrate decentralised renewable energy into municipal operations.

In 2023, municipal electricity consumption totalled 12,338 MWh, fully sourced from the grid. Starting in 2024, rooftop PV systems targeted annual production of approximately 1,800 MWh by 2028. By 2025, PV systems are projected to produce around 530 MWh annually (4.3% of the city's total consumption), rising to 14% by 2028.

The City Transition Team was created with five new positions (two sustained beyond the pilot). Through workshops, partner collaboration, and sensemaking activities, staff gained practical expertise in energy policy, EU project management, and monitoring. Officials shifted from purely technical focus to valuing participation and social dimensions.

Relationships between the city, local heating plant (Teplárna Liberec), technical university, and private SMEs significantly strengthened. All consortium members signed the Climate City Contract.

