EXPRESSİON OF INTEREST – TEPEBASI MUNİCİPALİTY

Contact Information	
Country	Türkiye
Public Autority	Tepebaşı Municipality
Department	Department of Climate Change and Zero Waste
Adress	Hoşnudiye Neighborhood, Şahin Street No:84, 26130, Tepebaşı / Eskişehir, Türkiye
E-Mail	ilayda.kucuk@tepebasi.bel.tr
Phone	+90 (222) 211 40 00 - 3171
Web Site	www.tepebasi.bel.tr

Institutional Profile

Tepebaşı is one of the central districts of Eskişehir, with a population of approximately 400,000, and is recognized for its innovative and sustainability-oriented vision. Tepebaşı Municipality integrates environmental, social, and technological innovation into its urban development, with a strong focus on climate action, sustainability, and citizens' well-being.

The municipality adopts a transparent, accountable, and citizen-oriented governance model, aiming to enhance quality of life through sustainable and inclusive urban policies. Its strategic priorities include protecting the environment, promoting efficient resource use, developing innovative and sustainable projects, and strengthening the balance between urban and rural areas.

Since 2013, Tepebaşı Municipality has been a signatory of the Covenant of Mayors and is committed to implementing its Sustainable Energy and Climate Action Plan (SECAP). The municipality is also a member of ICLEI, reports climate data to CDP, and actively participates in international cooperation. Tepebaşı Municipality has implemented numerous projects supported by European programs and national funds and continues its engagement at both national and international levels.

Tepebaşı Municipality has implemented numerous initiatives supported by various European projects and national funding mechanisms and continues to pursue its national and international activities.

Projects

Remourban

Within the framework of the EU Horizon 2020 Smart Cities and Communities call, Tepebaşı Municipality was awarded second place as part of the REMOURBAN project consortium. The project was implemented over a period of 66 months and was completed in January 2015.

REMOURBAN addressed four main objectives: reducing energy demand and increasing the use of renewable energy sources; promoting sustainable and environmentally friendly urban mobility; enhancing monitoring and management systems through the integration of Information and Communication Technologies (ICT) into urban infrastructure; and ensuring citizen engagement and project replication.

Within the scope of the project, 22 hybrid vehicles, 4 electric buses, and 30 bicycles were introduced to the district. The ESPEDAL bike-sharing system and the Smart City Monitoring Portal were established. As project outcomes, energy consumption and carbon emissions were reduced by approximately 70% through the use of environmentally friendly vehicles. Additionally, the increased use of renewable energy sources resulted in a 53% reduction in energy consumption and a 63% decrease in carbon emissions due to reduced fossil fuel use.

Mustafa Kemal Atatürk Water Sports Center

The Tepebaşı Municipality Water Sports Center is the first public building in Türkiye to receive the LEED (Leadership in Energy and Environmental Design) certification with a Gold rating**.** Designed and constructed in compliance with green building criteria, the facility achieved 64 points out of a total of 110 in 2015, thereby earning the LEED Gold Certificate. Through the use of high-performance insulation materials, efficient mechanical systems, heat recovery ventilation systems, and passive daylighting designs, the building has achieved an overall energy efficiency improvement of up to 25%. The facility includes one semi-Olympic swimming pool, one rehabilitation and recreational pool, and one outdoor pool. Approximately 20% of the thermal energy demand for pool and building heating and 10% of the electrical energy demand are supplied by solar panels. In terms of water efficiency, rainwater is collected, stored, and treated for reuse in landscape irrigation, while greywater from showers is treated and reused in toilet flushing systems. As a result, water savings of up to 70% have been achieved. Furthermore, the passive daylighting system (Daylight Tube Technology) utilizes 11 optical lenses to capture sunlight and transfer it to lower floors through tubes ranging from 1 to 6 meters in length, providing natural illumination. Additionally, an electric vehicle charging station, freely accessible to citizens, is located at the rear of the facility.

Tepebaşı Municipality Main Building

The Tepebaşı Municipality Main Building is a major public facility with a gross indoor area of 20,425 m² and a total usable area of 34,655 m². Within the scope of the 2011 Environmental and Energy Financial Support Program, and with the support of BEBKA (Bursa Eskişehir Bilecik Development Agency), the project titled “Energy Efficient Building for a Low Carbon Footprint” was implemented, enabling the integration of sustainable energy and resource efficiency practices. As part of the project, photovoltaic (PV) solar panels were installed, enabling electricity generation from renewable energy sources and resulting in a 20% reduction in annual energy consumption. In addition, a rainwater harvesting system has achieved a 5% reduction in potable water consumption, with the collected water being utilized for municipal vehicle washing operations. The baseline carbon footprint of building operations was calculated, and carbon emissions were reduced by 20% at the building scale. Moreover, municipal staff received training on energy efficiency, renewable energy sources, and carbon footprint awareness. Within the scope of the project, a grid-connected Solar Power Plant (SPP) with an installed capacity of 95 kW ±5% is currently in operation.

Fields of Interest

- *Artificial Intelligence & Smart City Solutions:*
  Application of AI technologies in urban management, energy efficiency, traffic and mobility optimization, and environmental monitoring systems.
- *Renewable Energy & Clean Technologies:*
  Deployment of renewable energy-based systems, including energy generation, storage

solutions, and smart grid integration, in collaboration with academic and technology partners.

- *Climate Action & Carbon Reduction:*
  Climate change mitigation, reduction of carbon emissions, energy efficiency measures, and public awareness-raising activities.
- *Water Efficiency & Sustainable Water Management:*
  Rainwater harvesting, greywater recycling, smart irrigation systems, reduction of water losses, and optimization of water resource management.
- *Waste Management & Circular Economy:*
  Zero waste practices, source separation, recycling, composting of organic waste, electronic waste management, and development of circular economy solutions.
- *Green Mobility:*
  Promotion and implementation of sustainable and low-carbon transportation solutions.

Projects	**Project Period**	**Funding Program**
REMOURBAN	2015–2020	EU Horizon 2020
Mustafa Kemal Atatürk Water Sports Center	2015	-
Tepebaşı Municipality Main Building	2011	BEBKA