

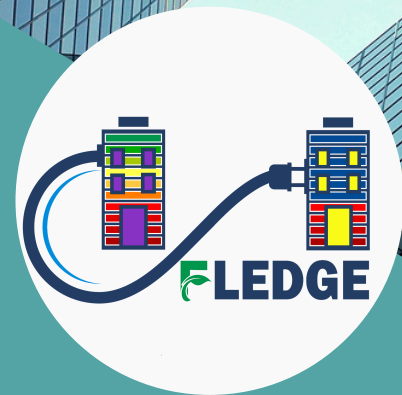
About Project

The FLEdge project focuses on creating a flexible, decentralized energy management system with the aim of transforming cities into Positive Energy Districts (PEDs)

Project Challenge

City energy systems are constantly evolving, requiring flexible management to adapt to shifting demands and optimize resources for urban environments.

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FLEdge Project

"Buildings that transform to PED Cities that Thrive"



Project Goals

Hierarchical Energy Management:

Develop a distributed system using Edge-Energy Management (EEM) devices to optimize energy across buildings, neighborhoods, districts, and cities.

Energy Resource Optimization:

Maximize energy efficiency by integrating renewable energy, storage, and demand-side management at all levels.

Enhanced Human Comfort:

Prioritize resident well-being with intelligent systems that automate energy management for optimal comfort.

Smart Grid Integration:

Implement demand-response strategies to support grid stability and zero-net emissions.

Energy Security:

Use advanced forecasting and optimization algorithms to reduce energy costs and prevent energy poverty.

Innovative Flexibility Solutions:

Leverage cutting-edge technologies like AI, IoT, and Digital Twins to create sustainable, decarbonized urban environments.

Project Partners

- Project Coordinator:** IHU
- Partners of Sweden:** CHALMERS, THERMO-LOGIC, DOING GOOD
- Partners of Estonia:** TAL TECH, elering, FinEst Centre
- Partners of Bulgaria:** GATE, energomonitor, Sofia Municipality

