AI4CITIES ACCELERATING CARBON NEUTRALITY

Energy Solution: SPIKE
Piloting in: Amsterdam & Copenhagen

Introduction

SPIKE, a scalable “plug&play” kit of devices can be installed in every building to fine-tune energy usage in real-time, allowing 20% (on average) operational savings and over 90% in-comfort time for occupants, without any drastic changes to the existing HVAC. The company's most recent solution is an all-in-one-platform, implementing the concept of “Energy as a Service”, which helps orchestrate energy loads and renewable energy production within energy communities.

SPIKE is an all-in-one, cloud-based software/hardware platform supporting data exchange with proprietary IoT-enabled devices and communication with other IoT devices/platforms, knowledge extraction for situation-aware user interaction and engagement, building performance assessments and dedicated energy management services capable of innovative and effective optimization of energy efficiency and flexibility in commercial, service and residential buildings. With these features SPIKE aims to become the world’s first enabler for easily creating a Virtual Power Plant (VPP) at urban level.

SPIKE & AI4Cities

SPIKE was developed by Enerbrain, The Italian company has recently closed a 5M€ investment round thanks to EDF Pulse Croissance and others, ensuring the company’s financial capacity to be ahead of the curve in the upcoming market scenario. With its participation in AI4Cities and the development of SPIKE, the company was able to address the emerging market of Energy Communities, projected to become an EU-wide standard.

Consortium

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AI4CITIES

ABOUT AI4Cities

The AI4Cities project is using AI to make Europe's cities more sustainable. Helsinki, Amsterdam, Copenhagen, Greater Paris, Stavanger and Tallinn are going through a Pre-Commercial Procurement (PCP) to find solutions to make their mobility and energy domains more carbon neutral.

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