

Energy Solution: BEE Piloting in: Helsinki & Stavanger

Introduction

The BEE solution not only controls the building in an optimal way and helps to save emissions, but also uses buildings as a storage capability in the energy grid by using energy in times with a high availability of renewables. The BEE System integrates into the buildings management system (BMS), where it gathers data about the energy consumption, as well as indoor air quality data. The central data storage combines this data with third party data sources.

Every day, the system derives a forecast for the next day's energy grid mix, weather conditions and the buildings utilization and capability to use energy flexible. Based on that the system calculates an optimized control schedule for heating, ventilation, cooling, water heating, EV charging and other flexible appliances. The schedule shifts energy usage towards renewables and minimizes the energy usage through a pro-active control, while maintaining a comfortable environment for the buildings users.

BEE & AI4Cities

"AI4Cities has been the perfect opportunity for us to develop new approaches within an innovative environment and always close to a real-world usage", says Lucas Spreiter, founder of Unetiq; one of the members in the BEE consortium. "Not only did the partners find each other through the AI4Cities project, but also the continuous exchange with the cities and the access to real data, helped BEE to develop their product in less than a year". Asked about the plans for phase 3, Lucas adds: "We are very excited now to deploy our solution in the city of Helsinki and Stavanger and hope that we can contribute as much as possible in saving CO₂ emissions".

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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