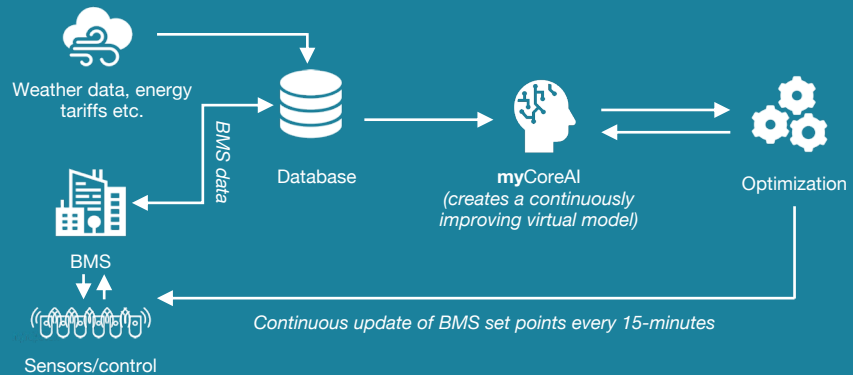


myrspoven core solution

Overview, support and and delivery



The solution

Optimization

The core of Myrspoven's business is our solution called myCoreAI. The system is a complete, scalable HVAC optimization system which optimizes heating, cooling and ventilation. The system uses a combination of cutting-edge artificial intelligence technology and engineering insights from the real estate industry. By applying advanced algorithms, the system autonomously optimizes a building individually, for the set indoor climate at the lowest possible energy usage and cost.

myCoreAI optimizes the building by analyzing data from the BMS, sensors in the building for controlling temperature, CO2 levels, and humidity, as well as external data sources such as weather, energy tariffs, and social data. The solution works much like a human but includes more data when setting new temperature and airflow parameters every 15 minutes. By giving the BMS continuous new setpoints, myCoreAI creates an optimized steering strategy for the individual needs of each building. The system can also pin-point troublesome areas in the building in terms of energy use.

Insights

The performance of myCoreAI is constantly monitored in myPortal. Here we show the technical performance of the algorithm, as well as the building's energy and comfort levels. The user can also interact with the system and override it if circumstances change.

By adding energy meter data, historical energy usage can be analyzed against myCoreAI, and track its performance. Various tools for analysis are merged into myPortal to give a good overview of actual energy usage levels. The user is also able to track the historical indoor climate by observing the behavior of the sensor data.

Integration and support

Integration

Myrspoven's Operations team integrates myCoreAI to the building's BMS, sending new set points every 15 minutes to generate the most optimized steering of the building. As an entirely cloud-based solution, it's incredibly flexible, with no need for hardware in terms of gateway or other connections to the BMS. Myrspoven is also independent of sensor manufacturer and could therefore connect to current as well as new sensors.

It's possible to integrate the solution into both national and international buildings through internet access, without any site visits. As new features are developed, they can easily be deployed and applied to all buildings connected to myCoreAI.

Surveillance

Our Operations team surveils all buildings optimized by myCoreAI. The solution goes automatically into fallback if the AI sends no new, or repeated, data to the BMS. Any problems or error-related queries are managed by the Operations team and reverted to the user when necessary.

Customer support

After the integration, when myCoreAI is up and running, the user can contact the general customer support at Myrspoven if any errors occur or if general queries evolve.

Deliverables

Myrspoven delivers a complete SaaS HVAC optimization system as well as a web portal for monitoring, interacting and reviewing of performance insights.

Additionally, Myrspoven offers skilled project managers to support the implementation and the ongoing projects.

Features

- Optimization for Heating, Cooling and Ventilation, respectively
- Optimized indoor climate
- Technical building diagnostics and guidance
- Performance reports of the energy consumption & AI performance

Prerequisites

- Connected BMS
- Ability to control heat pumps, cooling machines and ventilation

