Efficiency through Smart Heating: Optimizing Costs in Spanish Healthcare Centers

Successful implementation of a smart heating solution in Spanish healthcare centers, achieving a 30% reduction in heating costs and a decrease in carbon footprint.

"Although we are still in a very initial phase, this solution offers us all the necessary information to optimize the management of our centers". Chief Technical Officer of Regional Healthcare Authority

Challenges

Aritium, a leading provider of IoT solutions in healthcare, approached MClimate with an exciting opportunity to partner with the Asturias Health Service on a mutual project. With over 213 health centers and clinics spread across 10,000 km2, serving a population of over 1 million, the Asturias Health Service faced a significant challenge in managing the energy efficiency of their properties. Traditional methods of controlling the heating system were expensive, uncoordinated, and required extensive manual labor, resulting in high energy bills and little data on usage patterns. The lack of real-time data made it difficult to optimize operations without undertaking costly major renovations.

Solution

We successfully addressed the primary challenge by the implementation of 100 Vicki LoRaWAN® Smart Radiator Thermostats on the existing old radiators. These innovative devices provide property managers with remote access to monitor and set schedules for the heating system, ultimately saving costs on fuel.

The implementation of Vicki LoRaWAN® Smart Radiator Thermostats together with other manufacturer devices such as sensors for detecting open doors, temperature and humidity, resulted in a 30% reduction in costs in the first 6 months and a remarkable ROI of 12 months based on the first 3 months of usage.

What's more Vicki LoRaWAN® Smart Radiator Thermostats, compatible with all standard radiators, as well as with majority of the industry sensors and devices can be easily installed within 24 hours. Additionally, they are helping reducing CO2 emissions and improving carbon footprint.

Results

- Up to 30% reduction of the heating costs.
- 12 months ROI, Based on the first 3 months of usage.
- Real-time Data and remote control through the app.
- 24 hours installation time.
- Up to 10 years of battery of life.
- CO2 footprint improvement.

User benefits

- 13,500 kg of CO2 saved per winter season.
- €2,970 approximate savings.
- 1370 liter saved in the first winter season.

Measuring method: based on a general approximation of the saved fuel quantities and prices during the period from November 2020 to May 2021.