SCALABLE SUSTAINABILITY STARTS WITH BETTER DATA

As a pilot initiative for Honeywell Forge Sustainability+ for Buildings, a 4-star hotel in Barcelona is learning firsthand how artificial intelligence can simplify optimization across a complete portfolio

Case Study

Honeywell

SUSTAINABILITY GOALS MADE EASIER AND MORE PRECISE

A large hospitality brand used science-based targets to set significant sustainability goals for 2030.

So when Honeywell proposed a pilot project to easily analyze and optimize any number of sites, they agreed to start at one of their 4-star hotels in Barcelona – and just 20 days later, analysis from the self-learning Honeywell Forge platform was underway.

THE CHALLENGE

Get a clear view of Scope 1 & 2 energy use and carbon emissions with useful analysis of ways to improve

Integrate data from diverse sources – meters, equipment, utility companies, historical data – for a complete picture

Ensure easy remote management at all levels – equipment, room, site, portfolio

Portfolio management and comparisons of sites with differing building systems

THE SOLUTION

This major global hospitality brand is leading corporate sustainability efforts in the industry, as shown by its 2030 sustainability goals to reduce Scope 1 & 2 carbon emissions by 75%, and water use and waste intensity by 50%.

But with more than 7,000 hotels, monitoring, comparing, and optimizing such a diverse portfolio is challenging – especially with different equipment and building management systems (BMS) at each site.

So when Honeywell proposed an initiative to analyze and optimize energy and carbon emissions across any number of sites, this major hospitality brand was intrigued.

Using two cloud platforms – Honeywell Remote Building Manager, and Honeywell Forge Sustainability+ for Buildings – their partner M3i Controls connected the 4-star hotel in Barcelona in a matter of days.

To ensure a holistic view of the site, historical data was also imported as a baseline, and integration is underway for water, electric, and gas utilities.

By integrating with the hotel's BMS, the property can now be monitored and operated remotely via computer, tablet, or smartphone. Facility and property managers can control scheduling, points, and alarms for equipment, rooms, and site, alongside views of energy use and costs.

The pilot has gone very well, and hopes are high for the next phase: Four more properties in Spain will be connected for a portfolio view and site comparisons, and Honeywell Forge will use artificial intelligence (AI) and machine learning (ML) to not only identify trends but also autonomously optimize usage in real time while ensuring guest comfort.

THE BENEFITS

- Fast cloud deployment makes it easy to scale to any number of sites
- Open platform can integrate sites with almost any BMS, for portfolio management and benchmarking of all sites via a single system
- Portfolio integration also enables comparisons between sites of CO_2 emissions, energy use, and costs
- Remote management of alarms, points and schedules at all levels (equipment, room, site), integrated with metering data of energy use and utility rates
- Honeywell Forge can use this integration with AI/ML to autonomously optimize energy use in real time and recommend prioritized actions

See how Sustainability+ for Buildings can simplify sustainability for your property

https://buildings.honeywell.com/us/en/lp/hospitality/reimagine-sustainability-for-your-hotel

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