PEAK SHAVING AI

FOR HOTELS AND HOSPITALITY

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THE NEED:

The hospitality industry is focused on creating a comfortable guest experience while keeping an eye on overall costs, and improving the overall operational efficiency of the facility's staff.
The main contributor to inflated maintenance costs is over usage of energy. HVAC systems alone account for the majority of energy consumption in commercial buildings.

To maintain climate comfort for guests and staff, HVAC systems must remain active for extended amounts of time, using excessive amounts of energy. This issue is exacerbated in buildings with old infrastructure, where there are no sensors or climate automation in the rooms.

To help combat this, Airkind offers a two-pronged approach: Climate Intelligence to reduce demand as well as innovative Peak Shaving capabilities, to level out peaks in electricity use by old infrastructure in hotels and buildings in the hospitality industry.

Airkind 's goal is to digitize and automate old and dated heating and cooling infrastructure, while drastically cutting energy consumption to avoid peak loads and to keep grid usage costs low. Implementing peak shaving measures will in turn achieve improvements in power reliability, cost savings, and reduce CO2 emissions.

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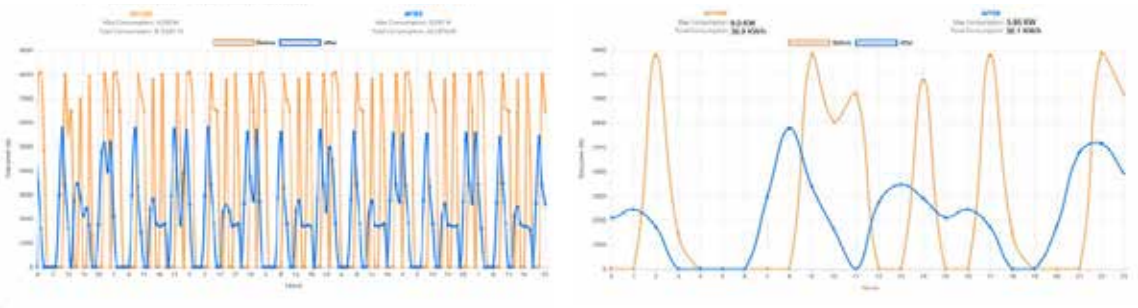
THE SOLUTION:
PEAK SHAVING AI

The Climate Intelligence platform displays a solution to the problem of simultaneous HVAC system usage by multiple end-users and its consequent peak demand.
By applying pre-heating or pre-cooling to individual rooms, and by syncing simultaneous HVAC unit activity during peak hours, the software is able to “flatten” the electricity demand curve throughout the entire building, based on site-specific pricing models, usage patterns and weather variables.



Reducing peak demand can be achieved by controlling or reducing electrical usage during periods of maximum demand. This allows end users to reduce demand penalties and the corresponding demand charges during peak periods without compromizing on climate comfort.

Airkind's Climate Intelligence platform is able to constantly learn and analyze room thermal profiles, behaviour routines, ambient conditions and electricity tariffs- all as an integral part of the innovative machine learning capabilities. Using all this data, the Climate intelligence system is able to optimize energy usage, reducing consumption during peak hours.

Airkind's Climate Intelligence platform showcases benefits on both economic as well as environmental scales, helping digitize and automate hotels worldwide.

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