



A Building Clouds Solution

“Unknown” Occupancy Schedule Using 30% More Energy Than Necessary

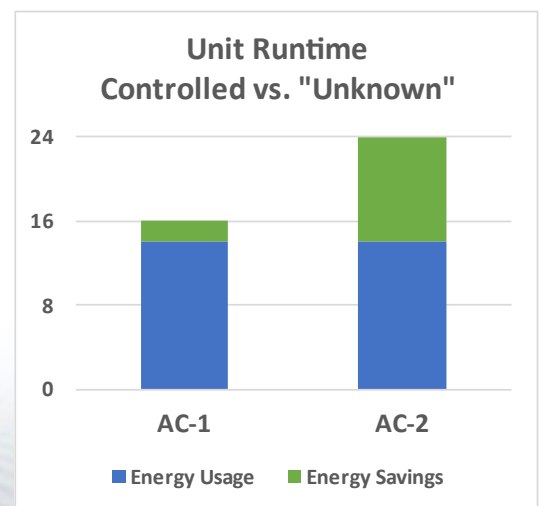
Immediate Energy Savings Through Connect – Monitor - Correct

In the heart of Silicon Valley, California, a medical office building once boasted a state-of-the-art Building Management System (BMS). However, neglect over the years and changes in ownership and management led to a state where even the existence of a BMS was uncertain.

Energy ETC, a Building Clouds Digital Partner, stepped in with an affordable and impactful remedy. Through the implementation of their Connect – Monitor – Correct technology, and by transitioning the building to a Cloud-Native approach, the ambiguity surrounding building operations became a thing of the past.

The Building Clouds solution took over control of two Carrier WeatherMaster large rooftop units by converting their proprietary communication protocol to BACnet. Additionally, the boiler skid, compressed dry air skid, interior and exterior lighting, and zone temperature monitoring were upgraded with Smart Building IoT technology. Convenient control of all the systems was made accessible through a custom user interface on smart devices and computers.

Upon integration with the Carrier RTUs, it was evident that the units weren't adhering to the correct occupancy schedules. AC-1 had been running from midnight to 4:00 pm, whereas AC-2 operated continuously. Actual occupancy hours were programmed to match the needs of the tenants. The result? **An immediate energy consumption reduction of 30%**. Furthermore, projected savings are anticipated through advanced control routines, encompassing supply air temperature and duct static reset schedules. Naturally, the new building owner and property management group are ecstatic about the outcomes.



Solution Components

- Opendiem SAAS by Building Clouds
- Building Clouds Wireless [strati-fi IoT Nodes](#)
- BMS Assurance by Energy ETC
- Industrial Cellular Router

Solution Benefits

- Cost-Effective Straightforward Solution
- Single Pane of Glass for Monitoring and Control
- Energy Savings Over 30% From Previous Operations
- Tracking and Bill-Back of Tenant Afterhours Usage

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Connect – Monitor – Correct

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