AIRSTAGE Cloud

HVAC Contractor

CUSTOMER

PROJECT

EQUIPMENT

Commercial property owner in Northern California with 2 million ft² under management Commercial office building energy retrofit

AIRSTAGE Cloud Edge Supervisor, AIRSTAGE VRF, existing RTUs, wireless smart thermostats

- **Single story** 60,000 ft² office building
- **20 5 ton** all electric RTU HVAC system
- 10 RTUs are end of life and will be replaced with VRF
- Remaining 10 RTUs will remain in service until they reach end of life

"...A DOE study found that a **BMS can provide 22%** reduction in energy usage, and industry data shows they

 Customer goal is to increase efficiency reduce and energy operating expenses

can reduce annual HVAC maintenance costs by about 20%."

Problems

- Net zero 2050 Corporate goal
- Tight capital budget
- is current \$0.47/kWh
- space is 15.5 kWh/ft²
- about 930,000 kWh/year



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Solution

Upgrade failing RTUs with AIRSTAGE VRF, add smart thermostats to remaining RTUs and control everything with an AIRSTAGE Cloud virtual private building management system

Equipment

- 50 T AIRSTAGE VRF
- 10 Schneider 8650 thermostats

The AIRSTAGE Cloud BMS made it possible to reduce the building energy consumption by a bit more than 20%. When half the RTUs were replaced by ultra-high efficiency AIRSTAGE VRF there was an additional efficiency gain. The total average energy consumption was reduced by approximately 30%.

- 1 AIRSTAGE Cloud edge supervisor
- AIRSTAGE Cloud account with Site
 Manager and Service Manager

Results

- AIRSTAGE Cloud and AIRSTAGE VRF combined to reduce the sites energy usage by 30%
- **AIRSTAGE Cloud** coupled with AIRSTAGE VRF delivered an annual energy cost savings of \$87,420
- The Return on Investment for the end customer under 48 months



"...The AIRSTAGE Cloud BMS made it possible to reduce the building energy consumption by a bit more than 20%"



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