

AIRSTAGE
Cloud

HVAC Contractor

CUSTOMER

Commercial property owner in Northern California with 2 million ft² under management

PROJECT

Commercial office building energy retrofit

EQUIPMENT

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
- **Customer goal is to increase energy efficiency** and reduce operating expenses

“...A DOE study found that a BMS can provide 22% reduction in energy usage, and industry data shows they can reduce annual HVAC maintenance costs by about 20%.”

Problems

- **Net zero 2050 Corporate goal**
- **Tight capital budget**
- **Need to lower operating expenses**
- **Electric energy** in Northern California is current \$0.47/kWh
- **Average energy** use intensity for office space is 15.5 kWh/ft²
- **60,000 ft² office building** will use about 930,000 kWh/year
- **\$437,100 average annual energy bill**



