Greening Hospital & Clinic Operations



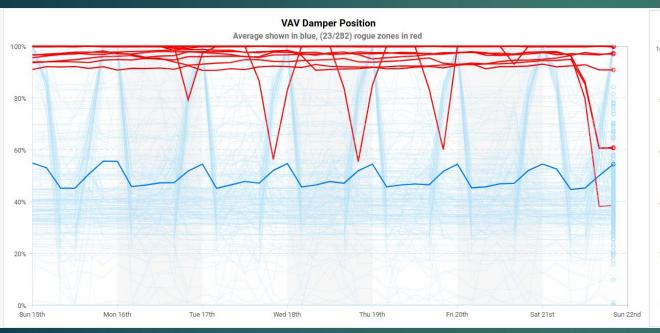
President's Climate Leadership Commitment: Carbon-Neutral by 2040

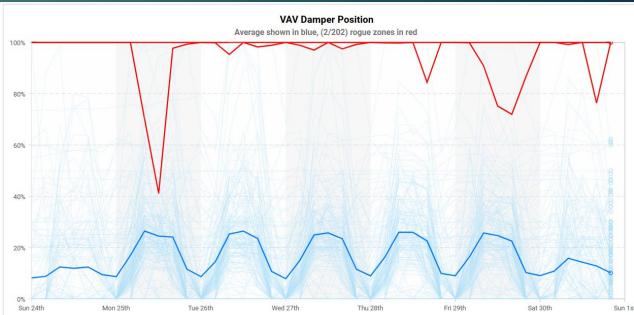
- https://sustainability.utah.edu/wpcontent/uploads/sites/56/2024/01/24-0128-CAP-Booklet_v10.pdf
- https://secondnature.org/climate-leadershipnetwork/signatories/commitments-implementation-handbook/
- https://sustainability.utah.edu/climatecommitment/

Operational Emissions Reduction: 2-Prong Strategy

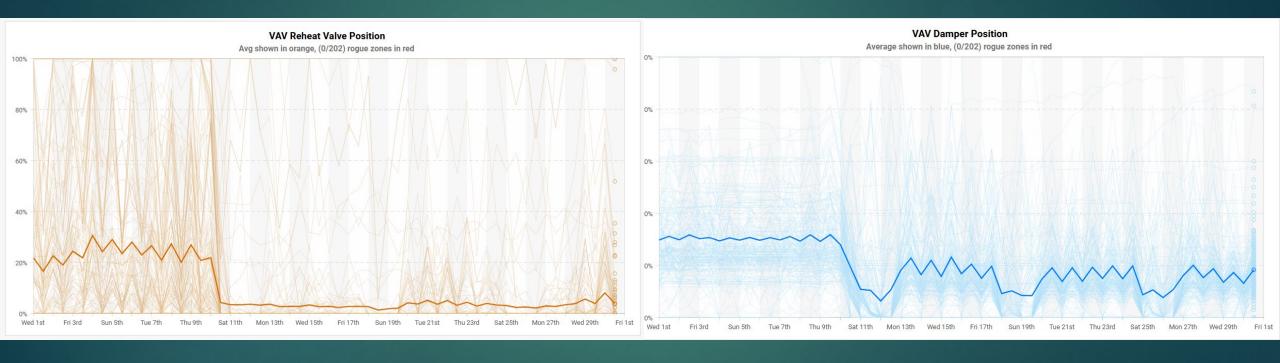
- 1. Increase Building Efficiency
 - ► HVAC
 - Scheduling reduce 24/7 conditioning in spaces that can be scheduled
 - Smart Programming reduce over-conditioning & simultaneous heating/cooling
 - Air Handler Optimization reduced flow & conditioning
 - Pneumatic to DDC Upgrades
 - Energy Dashboard & Monitoring-Based Commissioning long-term efficiency
 - ▶ Lighting Conversion to High-Efficiency LED
- Renewable Energy
 - Power Purchase Agreements
 - Onsite Renewables
 - Renewable Energy Credits

HVAC Scheduling & Smart Programming Orthopaedics Center



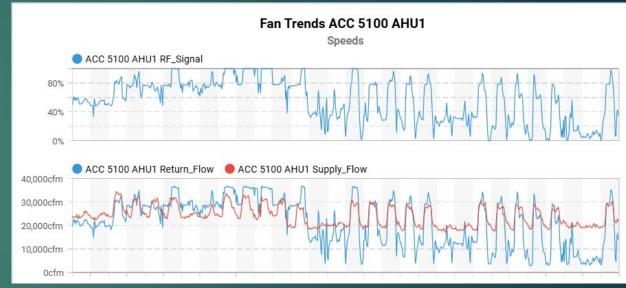


HVAC Scheduling & Smart Programming Farmington Health Center

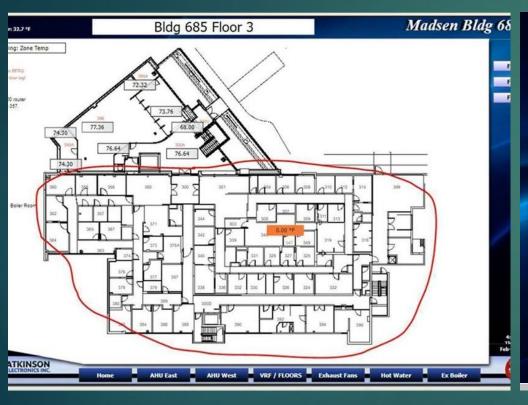


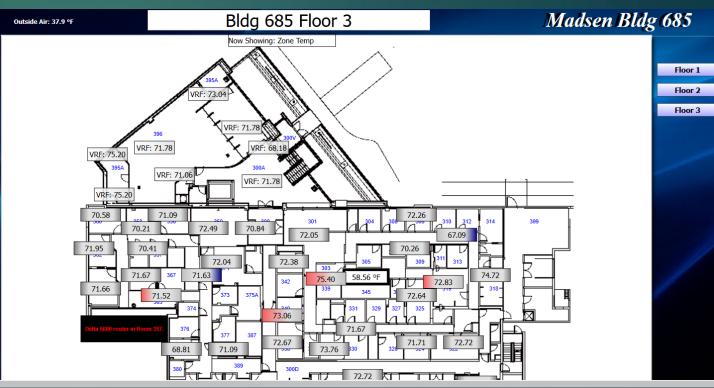
Air Handler Optimization Farmington Health Center & ACC Acute Care Center



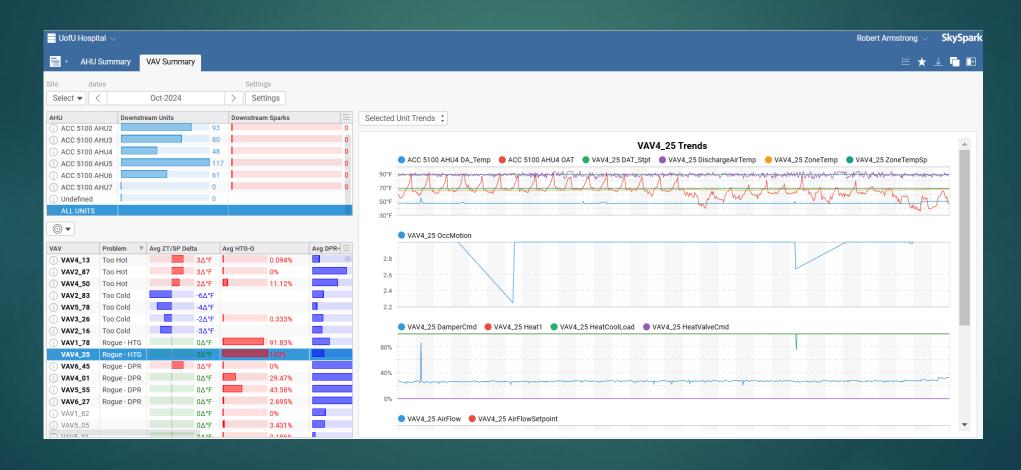


HVAC Pneumatic to DDC Controls Upgrades



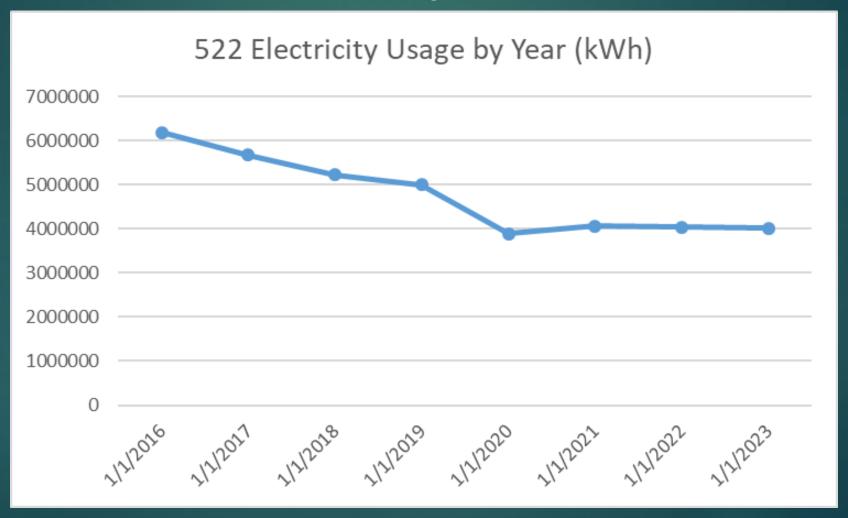


HVAC Energy Dashboard & Monitoring-Based Commissioning



Lighting Upgrades

▶ Projects can achieve 40% to 65% wattage reduction



Renewable Energy

- Power Purchase Agreements
 - Cyrq geothermal contract started in 2019 provided 50% of UofU campus power. Geothermal plant near Beaver, UT
 - ► Castle Solar field came online May 2024 provides an additional 20% of campus power. Solar field near Delta, UT
 - ▶ SLC Climate Positive 2040 SLC has pledged to team with Rocky Mountain Power to achieve 100% renewable electricity by 2040. Elektron Solar Project near Tooele. Pledge to achieve 80% carbon reduction by 2040.
- 2. Onsite Renewables Future consideration
 - Campus Emissions Reduction Plan kicked off in 2024 is looking at reducing emissions from natural gas burned on campus. Capital projects – heat pumps, etc.
 - Additional onsite solar may be needed for community clinics not in SLC
- 3. Renewable Energy Credits purchase credits for whatever is left