

Big Data Analytics: The Next Frontier of Operational Efficiency

Turn HVAC Data into Actionable Information

AKA...

- Monitoring Based Commissioning
- Ongoing Commissioning
- Automated Fault Detection & Diagnostics
- Big Data Analytics

MACRO TRENDS



O&M challenges

- Complex systems
- Reactive to HVAC Problems
- Potential for Data Overload



There is a need for technology to find energy waste & direct resolution every day

The Utility Business Case

- 3-4 years post implementation, 20% of RCx measures have failed
- Are incentivized direct installs operating as assumed?
 - Easy to drive a Prius with the break and gas on at the same time!
- Challenges:
- How do you quantify the benefit upfront. More research needed Automated M&Y