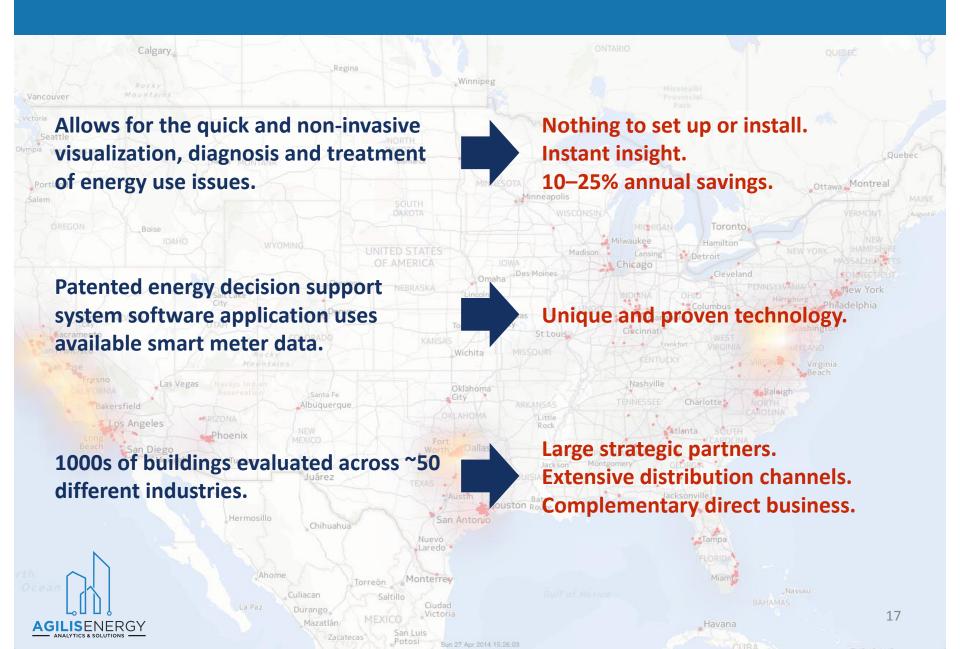




### Energy "MRI" for Your Building



## Agilis Energy Portfolio



### Portfolio Size:

- 1000s of buildings
- 800 clients
- Millions of square feet

### Industry Sectors (>50):

- Office •
- Retail Entertainment

Hospitality

- Lower/Higher Ed
  Industrials
  - Healthcare Food
  - Municipal Religious

### **Expansion**:

- Europe
- Middle East
- Asia
- Africa



# Issue/Opportunity Identification

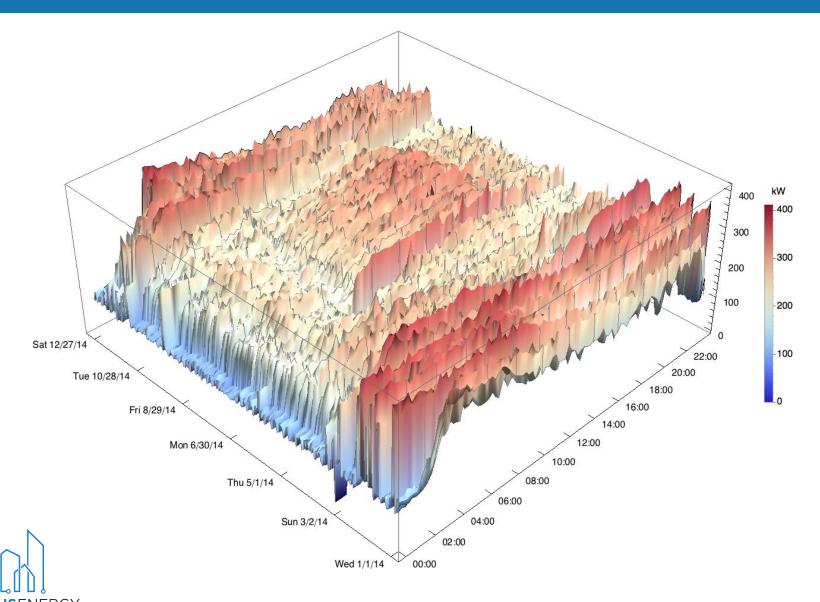
### What Can Be Detected? (Short List)

- Scheduling Issues
- Over-conditioning
- Sub-optimal setbacks
- Equipment cycling
- Poor equipment staging
- Economizer performance
- Lighting schedules
- Sensor/control system issues
- Optimal start performance
- Base, cooling and heating loads
- Heating & cooling correlations

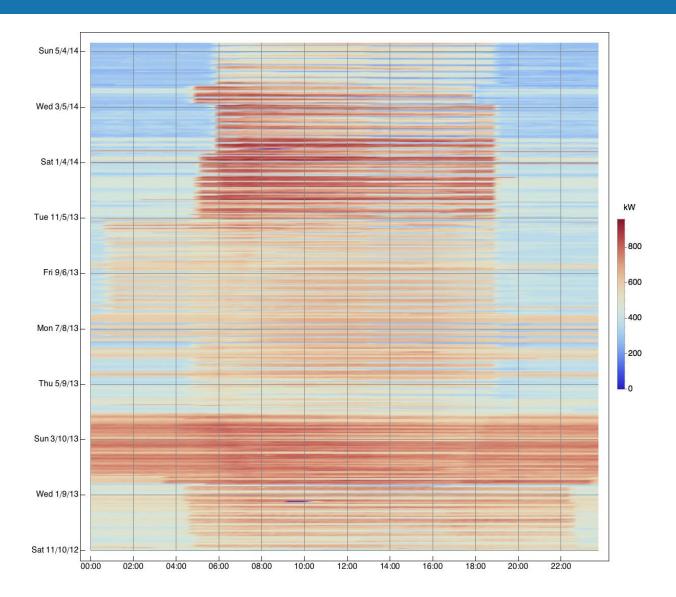
- Simultaneous heating & cooling
- Effects of humidity, cloud cover and wind speed
- Inconsistent performance
- Equipment not connected into BMS
- Load shifting opportunities
- Effectiveness of heating cooling transitions
- Effects of buildings changes ("What if")
- Extensive building benchmarking



# Improper Scheduling

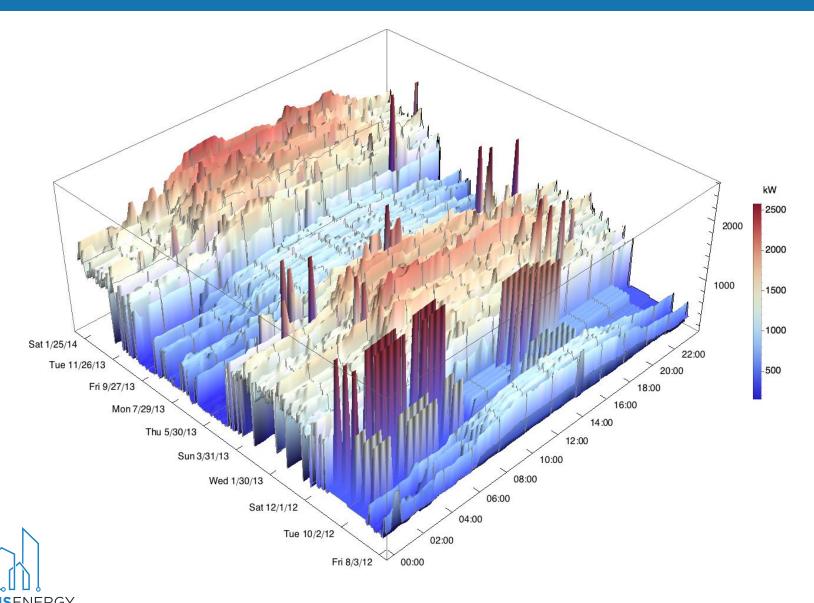


### No Re-Commissioning After Retrofit (Office Building)

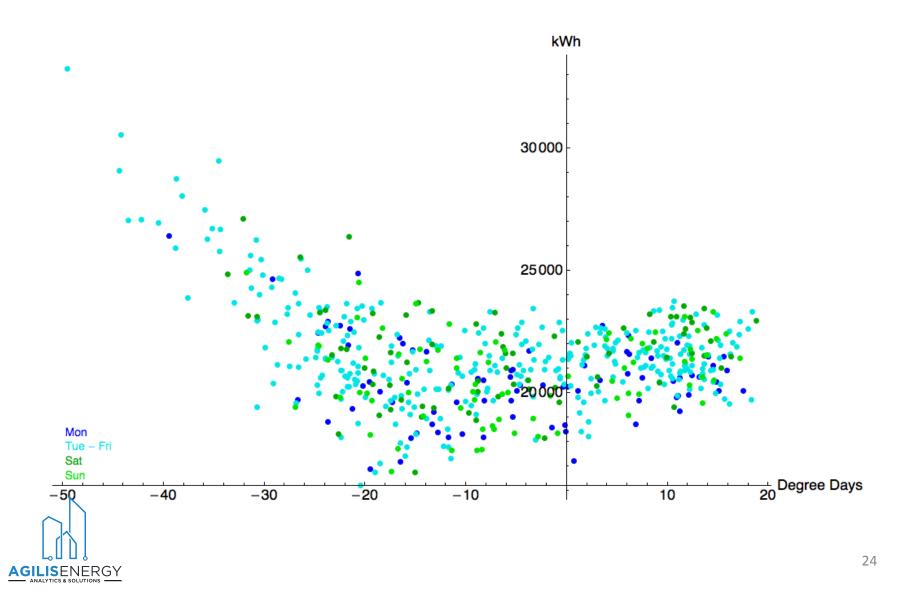




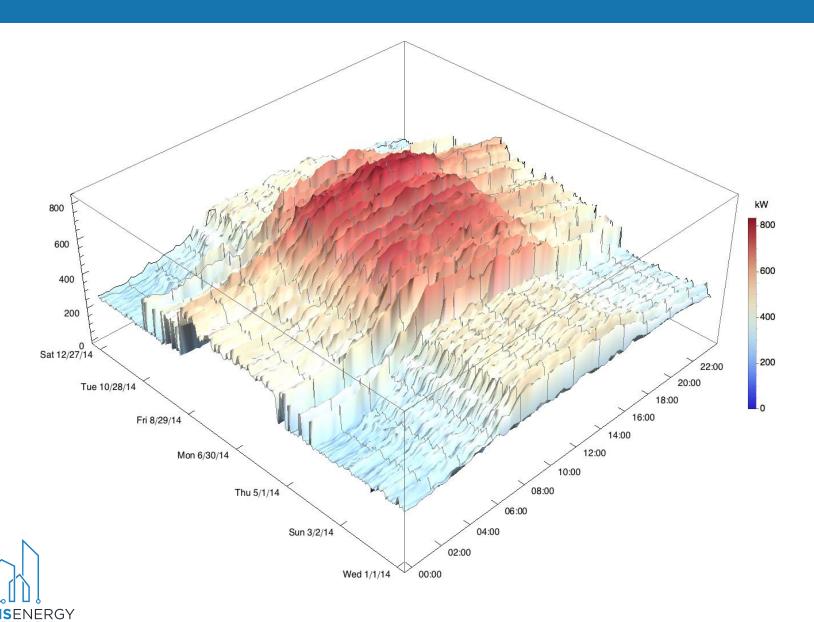
## Major Heating and Cooling Control Issues



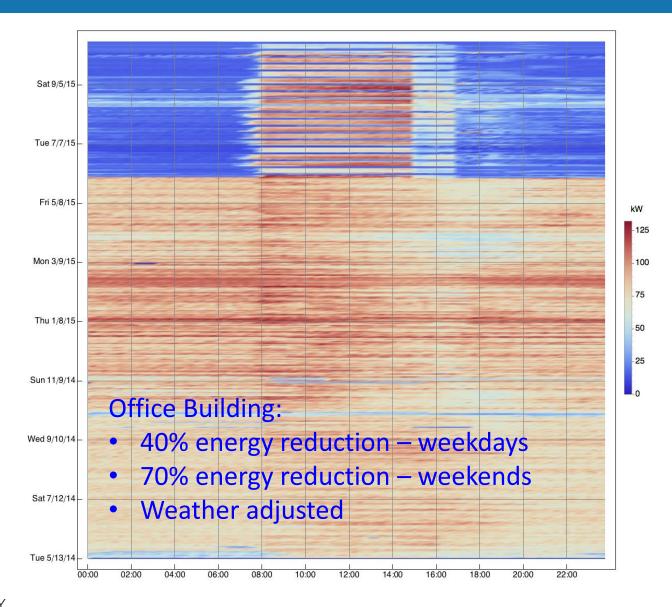
## Cooling System Running at Constant Level



# Sub-Optimal Setback Strategy



### The Value of a Building Control System





### What Energy Analytics Can Do?

- Detect operational and behavioral issues
- Detect controls problems
- Optimize building performance
- Effectively leverage the facility team's physical knowledge with Analytics
- Direct third party (e.g. controls) vendors to the issues
- Effectively re-commission
- Perform "What If" analysis on lighting, controls and equipment upgrades
- Conduct transparent M&V
- More effectively deploy building capital after FIRST tuning and optimizing the building's performance
- Prioritize portfolio of buildings by opportunity
- Achieve 10-25% annual savings with little or no capital spend



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