Persistent HVAC Energy & Cost Optimization, Commissioning and Control

Open Access Platform

Weather (From NOAA)
Forecast

Managed Services & NOC

Time of Use Energy Prices

Secure Servers
Optimal Control Strategy
Current Building Condition

Optimization Program

Price Signals

Demand Response

Comfort

Open Access Platform Running Client Software (Connected to BAS)
Machine Learning & IoT

GRAY BOX MODELING
- Reduce Error, Flag Exceptions, Minimize *Energy*
- Optimization to Reduce *Cost*

Configuration:
- Schedules, Tariffs, DR, iCAP, etc

Forecast:
- Weather, Price, DR, etc

Learning Data In

Optimized Setpoints Out

Building Specific Parameters
Intersection of EE & Load Management

New England (ISO-NE) peak-to-average demand ratio

Source: U.S. Energy Information Administration based on Ventyx Energy Velocity Suite

Average kW Drop By Building

Average Drop Per Event By Building