ECORITHM

True Analytics™

enables

- Energy & Operational Cost Savings
- Improved Occupant Comfort
- Extended Equipment Life Cycles
- Portfolio Performance Management

"Ecorithm's technology provides unparalleled insight into the operation of our facilities that was not possible before. Ecorithm's intelligent analytics are helping us understand and solve HVAC balancing issues and drive decision making as we implement new control strategies."

Matthew Wallerstein
Construction & Asset Manager

TIME EQUITIES INC.

"Ecorithm simply helps us understand our facilities better. We continue to make our operational strategy more effective, ultimately leading to energy savings and occupant comfort."

Ray Hunting
Senior Controls Engineer

CITRIX

WHO WE WORK WITH

"Ecorithm's analytics empowers our engineers with clear feedback on building performance."

"Finally, advanced technology has come to building operations! Ecorithm's software filters out the noise of building operations to quickly and easily identify performance issues."

Jordan Sager
Program Manager

UCSB
UNIVERSITY OF CALIFORNIA
SANTA BARBARA

Scott Frank
Senior Partner

JB&B JAROS BAUM & BOLLES

Ecorithm transforms the way buildings are operated, bringing an unprecedented level of visibility into the performance of mechanical systems.
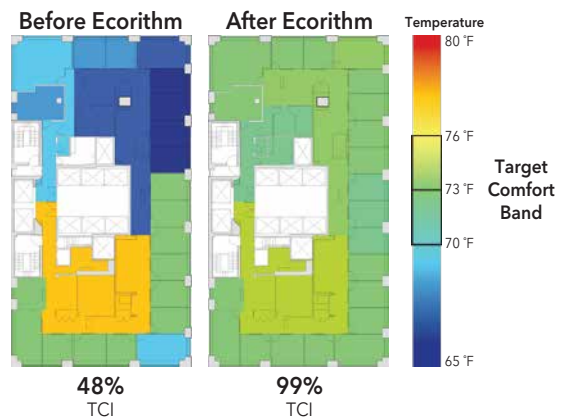
For operators, Ecorithm's True Analytics™ platform is like an extra set of eyes and ears, identifying problems early and immediately pinpointing root causes.

For portfolio managers, the True Analytics™ platform is an extremely fast and cost-effective way to reduce operating costs and advance sustainability goals.

This is all possible thanks to Ecorithm's unique technology originally developed to predict and prevent system failures in jet engines.

Thermal Comfort Index (TCI)
Average Space Temperature Over 1 Month

Before Ecorithm

After Ecorithm

Temperature
80 °F
76 °F
73 °F
70 °F
65 °F

Target Comfort Band

48%
TCI

99%
TCI

In the example above, the entire floor improved from 48% to 99% Thermal Comfort Index, a measurment of the percentage of time each zone is within the target comfort band during occupied hours.

BUILDING CHALLENGES:
COMPLEX, UNCOMFORTABLE, INEFFICIENT

- The U.S. Department of Energy reports that commercial buildings account for 46% of building energy use, 30% of which is wasted
- According to a recent BOMA study, "What Tenants Want," most building occupants claim to be uncomfortable in their work environment and worker productivity can suffer
- Building operators lack the tools to fully understand the impact of maintenance on operations and comfort, or to benchmark their asset relative to the industry
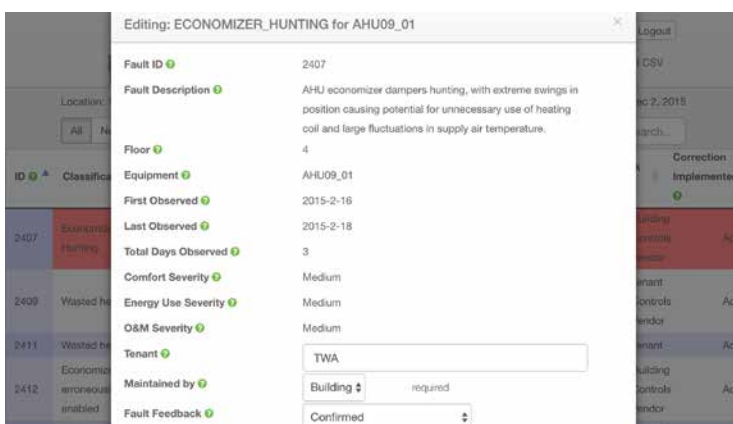
SOLUTION

TRUE ANALYTICS™ PLATFORM

Ecorithm's cloud-based software automatically produces specific and actionable insights from building management system (BMS) data. This allows operators to move from reactive to proactive maintenance via an easy to use, intuitive web interface.

TRUE INSIGHT, PORTFOLIO-WIDE

Ecorithm's True Analytics™ platform also serves as a benchmarking and visualization tool, enabling users to gain insight into system health for more robust building and portfolio-wide performance management.

View Finding Detail and Track Progress via Ecorithm's Intuitive Web Interface

Ecorithm provides full-building, root cause diagnostics with unprecedented accuracy via a highly informative, interactive application.

HOW WE OPTIMIZE YOUR BUILDING

- We integrate with existing BMS systems for data collection with no hardware required
- Our patented analytical approach has been developed over 40+ combined years of engineering research
- Our physics-based algorithms deliver more accurate characterization of system behavior, zeroing-in on root causes and differentiating between persistent issues and false alarms
- Our machine learning improves the solution every day in every building – automatically

CASE STUDY EXAMPLES

ECORITHM IMPROVES PERFORMANCE OF ALREADY HIGH PERFORMING BUILDING

- Uncovered persistent and impactful findings at LEED Platinum building with Energy Star score of 98 and a Network Operations Center
- Customer verified superior results versus those of other analytics offerings – perfect accuracy with no false alarms from over 100 findings
- Recommendations were implemented immediately for significant cost savings and improved tenant comfort

MAJOR PLANT RENOVATION COSTS AVOIDED AT RETRO-COMMISSIONED OFFICE TOWER

- Automatically determined root causes of several high-impact problems that were either mis-diagnosed or overlooked by two retro-commissioning engineers
- Provided dramatic new insights on tuning parameters for BMS commissioning as an alternative to expensive retrofit work

GET IN TOUCH

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