



Building Energy Intelligence for Your Customers

Optimize Existing Building Management Systems with BuildingIQ

BuildingIQ is the first energy management system to predict and control energy demand while continuously optimizing energy use. Through its sophisticated technology, BuildingIQ enhances existing building management systems by *adding intelligence that allows precise tuning of the BMS* without infrastructure upgrades or capital expenditures.

At the heart of BuildingIQ is a predictive, supervisory control system that consistently saves 10-30% of energy costs while maintaining occupant comfort levels. BuildingIQ's unique ability to continuously predict conditions and work seamlessly with existing systems makes it an essential addition to any building.

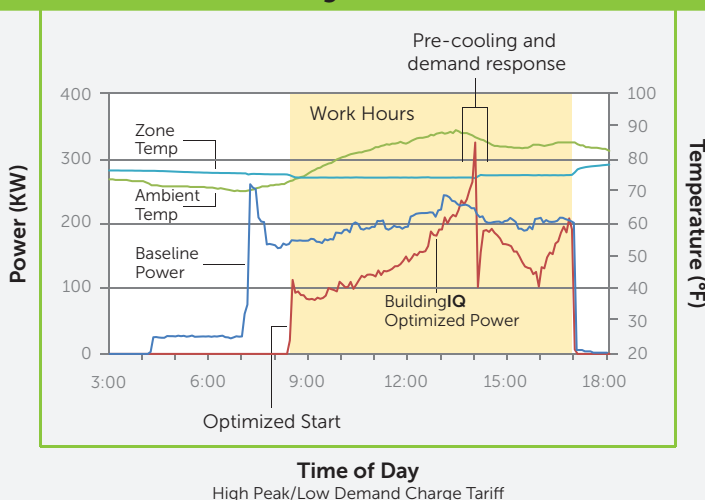
Customer Benefits of BuildingIQ

- Reduce energy usage and streamline building operations by leveraging internal and external data from a variety of sources
- Minimize the effect of TOU and critical peak energy pricing by reliably predicting energy demand and managing how energy is delivered, with continuous and automatic adjustments
- Improve energy performance ratings such as Energy Star and NABERS through reduced energy consumption, with no compromise to tenant comfort
- Take the guesswork out of building energy management
- Deliver *Building Energy Intelligence* with a compelling, pay-as-you-go ROI

ACCREDITED PARTNER PROGRAM

Add value to your existing customer relationships and create opportunities to automate and scale new engineering projects. To become a BuildingIQ partner, [contact us](#).

BuildingIQ in Action



BuildingIQ Partner Benefits

- Expand relationships with existing clients by offering market leading technology with a compelling ROI
- Differentiate from competitors with unique solutions not available through other traditional vendors
- Gain insight into energy consumption and operations at client sites through remotely accessible, real-time reporting and analysis
- Identify follow-on services and project opportunities such as maintenance, energy audits, and upgrades to further deepen client relationships
- Develop new and recurring revenue streams with attractive margins

Predictive Energy Optimization™

Predictive Energy Optimization is a unique capability of the BuildingIQ system that incorporates real time energy grid and weather information into a multi-objective optimization model. It overcomes the shortcomings of existing building energy control systems by continuously predicting conditions and adapting settings to optimize energy efficiency without sacrificing comfort.

BuildingIQ technology utilizes groundbreaking innovations across several fields, including:

- real-time thermal building modeling
- predictive multi-variable optimization
- adaptive control theory
- machine learning
- human comfort modeling

BuildingIQ uses a sophisticated optimization framework to manage the complexity of HVAC controls. This framework is combined with an intelligent HVAC supervisory control system that utilizes multi-agent systems science and machine learning techniques to automatically evaluate different control scenarios to determine optimal control setpoints and operating schedules. It also takes into account dynamic HVAC and building parameters, building occupant comfort feedback, as well as real-time energy grid and climate information. In combination, these innovations result in an energy management system that is not only active, but proactive.

Energy Management Systems					
	PASSIVE		ACTIVE		PROACTIVE
	Energy Reporting	Monitoring/Commissioning	Plant Optimization	BMS	BuildingIQ
Learns Building Operations		✓	✓		✓
Multi-Vendor Integration	✓	✓	✓		✓
Controls, not Reports			✓	✓	✓
Optimizes to Outcomes					✓
Opex, not Capex, Model	✓	✓			✓

System Architecture

BuildingIQ's technology is embodied in software. It is deployed in a building on a PC or an embedded computing appliance, and interacts with both the BMS as well as a set of BuildingIQ cloud services.

All the communication between the BuildingIQ appliance and the BMS is IP-based, with actual building data exchange achieved using one of several industry-standard protocols, including OPC, BACnet or oBIX. BuildingIQ's Internet connection provides access to external information, such as weather forecasts, pricing tariffs, and Demand Response request notifications. It provides a conduit for storing data in a central database for reporting and analytics purposes.

Contact Us

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