Predictive Energy Optimization

The BuildingIQ advanced, cloud-based software is the first energy management solution to intelligently predict and manage energy demand in commercial buildings. It directly adjusts heating, ventilation and air conditioning (HVAC) system parameters, continuously optimizing energy use using advanced algorithms without the need for manual intervention. BuildingIQ communicates with your building management system (BMS) and automatically reduces energy consumption and lowers energy costs while maintaining or improving tenant comfort.

At the core of our system is a sophisticated thermal model that automatically learns your building’s energy performance and then adapts to changes in internal or external conditions. BuildingIQ is the only system available today that factors in weather forecasts, occupant comfort, energy prices, and demand response events to minimize both peak and ongoing consumption for building owners with no capital expenditure.

Reduce Energy Spend Without Sacrificing Comfort

With HVAC representing the biggest single use of energy in most commercial buildings, optimizing HVAC operation results in significant cost savings and reduced energy consumption. In a wide range of installations, BuildingIQ consistently reduced total energy costs and consumption by 10-25%, while maintaining occupant comfort levels—even in buildings that were already rated as highly energy efficient.

Add Intelligence to Your Building Management System

The BuildingIQ system can be used in both new and existing buildings and requires no infrastructure upgrades or capital expenditures.

The product is delivered as a monthly subscription service and connects to most BMS using industry standard interfaces or through third party services such as Green Button.

Superior Performance

With its dynamic modeling of building performance, ability to forecast energy requirements, and complex optimization based on cost, consumption and comfort variables, BuildingIQ delivers performance superior to other energy management systems.

Proven Solution

The BuildingIQ technology was first developed by Australia’s national labs and today continues to work with U.S. national labs. BuildingIQ customers include top property funds, corporations, and government organizations that have deployed the system in a variety of large and small buildings.
Benefits

The BuildingIQ software continually optimizes energy consumption by pre-planning HVAC operations and adjusting points throughout the day, enabling customers to:

- Significantly reduce energy spend
- Ensure occupant comfort at all times
- Automate demand response events and avoid peak day pricing penalties by shifting usage
- Increase their building’s Energy Star, LEED, or NABERS ratings
- Improve their property’s valuation by increasing net operating income
- Free up engineering resources through automated, real-time monitoring of HVAC operations

Best of all, BuildingIQ is offered on a subscription basis, allowing customers to pay for the system out of the resulting energy savings without significant capital expenditures.

Advanced Technology in Action

BuildingIQ gathers data from a wide range of internal and external sources, including the building’s existing control systems and sensors, as well as data from weather bureaus, tariff sources, and demand response partners. This information is first used to automatically generate a dynamic thermal model that predicts the building’s energy consumption, cost and comfort under varying conditions.

BuildingIQ’s proprietary algorithms then optimize the HVAC system parameters based on the forecasted conditions to reduce energy consumption and cost, while maintaining or improving occupant comfort. The BuildingIQ system automatically and continuously manages HVAC settings throughout the day, updating both the commands and the building model based on any changes to conditions.

Although BuildingIQ is fully automated, building operators remain in control and can set key preferences to influence how it operates. A comprehensive monitoring and alarming system notifies BuildingIQ and building staff when operations exceed established parameters.

An online, real-time dashboard coupled with a variety of technical and management reports helps communicate savings to internal and external stakeholders.
A Recognized Leader In Its Industry

BuildingIQ is a leading provider of advanced energy management software that actively predicts and manages HVAC loads in commercial buildings. As the only supplier of patent-pending Predictive Energy Optimization™ technology, BuildingIQ’s cloud-based solution is powering energy and operational savings in buildings across the globe with reductions in HVAC energy costs by as much as 25 percent. BuildingIQ delivers measureable results and has received backing from tier-one industry leaders including Aster Capital (backed by Schneider Electric, Alstom and Solvay), the Venture Capital unit of Siemens Financial Services (SFS VC), Paladin Capital and the Energy Division of the Commonwealth Scientific and Industrial Research Organisation (CSIRO).

Recognized as a leader in its industry, BuildingIQ most recently was named Best in Show during the 2013 Fierce Innovation Awards and was winner of the 2013 Bloomberg New Energy Pioneers Award, a 2013 Cool Vendor in Green IT and Sustainability by Gartner and listed on the 2012 Global Cleantech 100 and AlwaysOn Going Green Global 200.