



# Energy Services to Meet Your Needs



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## Predictive Energy Optimization

BuildingIQ's Predictive Energy Optimization™ (PEO), an advanced, cloud-based software is the first energy management solution to intelligently predict and manage energy demand in commercial buildings without the need for manual intervention. It directly adjusts heating, ventilation and air conditioning (HVAC) system parameters, optimizing energy consumption with advanced algorithms. PEO communicates directly with the building management system (BMS) to automatically reduce energy consumption and energy costs, while maintaining or improving tenant comfort.

At the core of PEO is a sophisticated model that learns your building's thermal behavior and energy performance capability, then adapts to changes in internal and external conditions. BuildingIQ's PEO is the only system available today that factors in historical performance, weather forecasts, changing occupancy patterns, energy prices, and demand-response events to minimize energy consumption and peak demand for building owners and operators with little upfront cost.



### 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 through reduced energy consumption. In a wide range of installations, BuildingIQ consistently reduces total energy costs and consumption by 10-25%, while maintaining occupant comfort levels—even in buildings formally rated as highly energy efficient rated by LEED, ENERGY STAR, and NABERS.



### Add Intelligence to Your Building Management System

The BuildingIQ platform can be used in both new and existing buildings and requires no major infrastructure upgrades or significant capital investment. The product is delivered as a software subscription service, and connects to most BMS using industry standard interfaces or through third party services such as Green Button. Most installations pay for themselves through energy savings in a matter of months.



### Superior Performance

With its dynamic modeling of the building's thermal performance, its ability to forecast energy requirements, and its optimization of 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 BuildingIQ's technical staff continues to work closely with the national labs in both the U.S. and Australia. BuildingIQ customers include major property owners, real estate funds, corporations, and government organizations, which have deployed the system in a variety of large and small buildings.





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## Managed Services

BuildingIQ's portfolio of *Managed Services* takes a comprehensive approach to building energy management. We build upon our core strength in HVAC system modeling and optimization to deliver diagnostic and tuning services. We make sure that all parts of the HVAC system are running correctly and the resulting performance is actively measured.

Through *Managed Services* our team of experts can quickly zero in on inefficiencies that degrade performance and instantly identify problems that can be fixed. *Managed Services* takes on the burden of managing your occupants' comfort complaints, and can run a diagnosis on the health of your HVAC system. The *Managed Services* team is ready to assist, advise, and troubleshoot with your own operators.

The level of *Managed Services* can be tailored based on the needs of your building and your own onsite team. It's the perfect complement to ensure that PEO performs at its best.

## Managed Services Options



### Predictive Load Forecasting and Analysis

Goes beyond what our power bill tells you by looking at daily energy usage and alerts you about inefficiencies in your HVAC system that can be fixed.



### Comfort Command Center

Takes the burden of managing your occupants' comfort complaints off of your Facilities staff, freeing up their time.



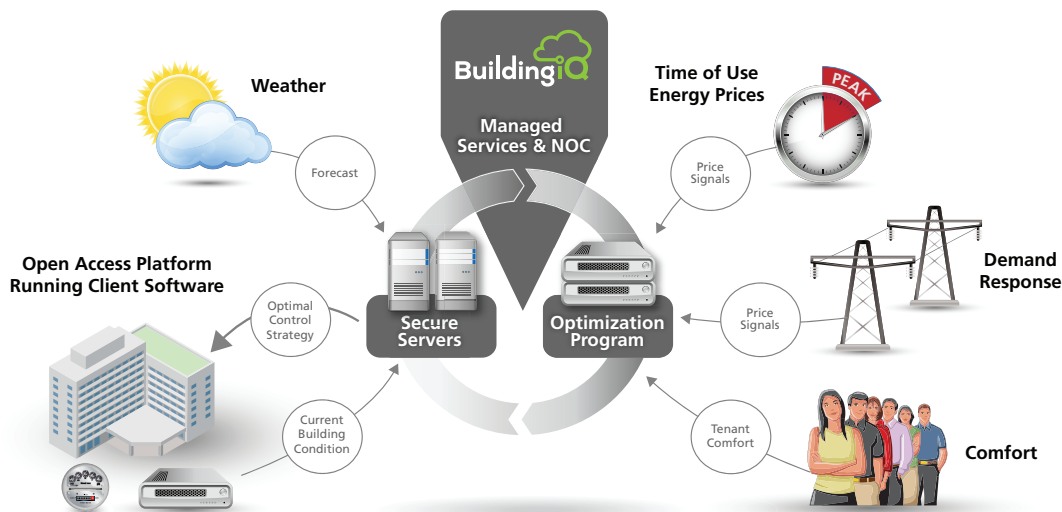
### Remote Control RCx

One time diagnosis on the health of your HVAC system.



### Control Uptime Assurance

Reviews and corrects the health of your HVAC system on an ongoing basis.



## Advanced Technology in Action

BuildingIQ's Predictive Energy Optimization assimilates data from a wide range of sources, including historical energy consumption data, ongoing electric meter and submeter readings, and data from the BMS, as well as external data drawn from weather bureau forecasts, various utility programs and tariffs, and demand-response events.

This information is first used to create a baseline of the building's energy consumption, cost, and comfort. Using proprietary algorithms, PEO 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's platform is fully automated, building operators retain control, able to establish key preferences to influence how it operates. A comprehensive monitoring system notifies BuildingIQ and building staff when operations exceed established parameters.

An online, real-time dashboard display, coupled with a variety of technical and management reports, helps communicate savings to internal and external stakeholders. BuildingIQ's technical staff is available 24/7 to answer questions, and troubleshoot problems.



## BuildingIQ's Benefits

BuildingIQ's suite of services ensures continuous energy consumption optimization by pre-planning HVAC operations and adjusting system setpoints throughout the day, enabling customers to:

- Save money by significantly reducing energy expenses.
- Ensure occupant comfort at all times.
- Automate demand-response events and avoid peak-day pricing penalties by shifting usage.
- Increase the building's ENERGY STAR, LEED, or NABERS ratings.
- Improve property valuation by increasing net operating income.
- Free up engineering resources through automated, real-time monitoring of HVAC operations.

## About BuildingIQ

BuildingIQ provides advanced, cloud-based software to reduce HVAC costs in commercial buildings. Customers save 10-25% of HVAC energy and can add up to 18 points to their LEED score. BuildingIQ software continuously monitors inputs including weather forecast, occupancy, energy prices and demand response events. It makes small changes in HVAC settings that result in large financial gains without impacting occupant comfort.



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