

Building Optimization System™

The Building Optimization System™ (BOS), is a web-based tool for actively monitoring and managing electric, gas and water usage in real time, while automatically calculating carbon footprint. The BOS system enables facilities owners and managers to easily display critical building information, track performance, manage and control resource consumption, reduce environmental impacts, and save money.

Key Features

- Real-time building performance data display
- Details by floor, room, appliance, circuit, or utility
- Highly accurate, robust data acquisition model
- 2-way integration with leading control systems
- User-configurable alerts and alarms
- Automatic alerting via email, text or BMS
- Trend analysis and historical comparatives
- Tracks renewable energy and water technologies
- Monitors performance of living architecture
- Closes the loop between feedback and control

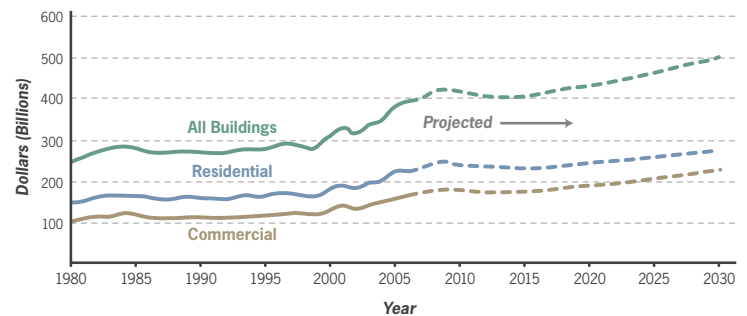
Commercial & Institutional Markets



Reduce your building's water, gas and electric use by

20 %
or more*

Aggregate Building Energy Expenditures



Source: US Department of Energy (2006)



1

Get real-time energy alerts via screen, text, email

Imagine your building notifying you of excessive energy use, leaks or carbon emissions.

2

Instantly know your up-to-the-minute utility costs

Track costing and enable more accurate projections.

3

Track and reduce your carbon footprint

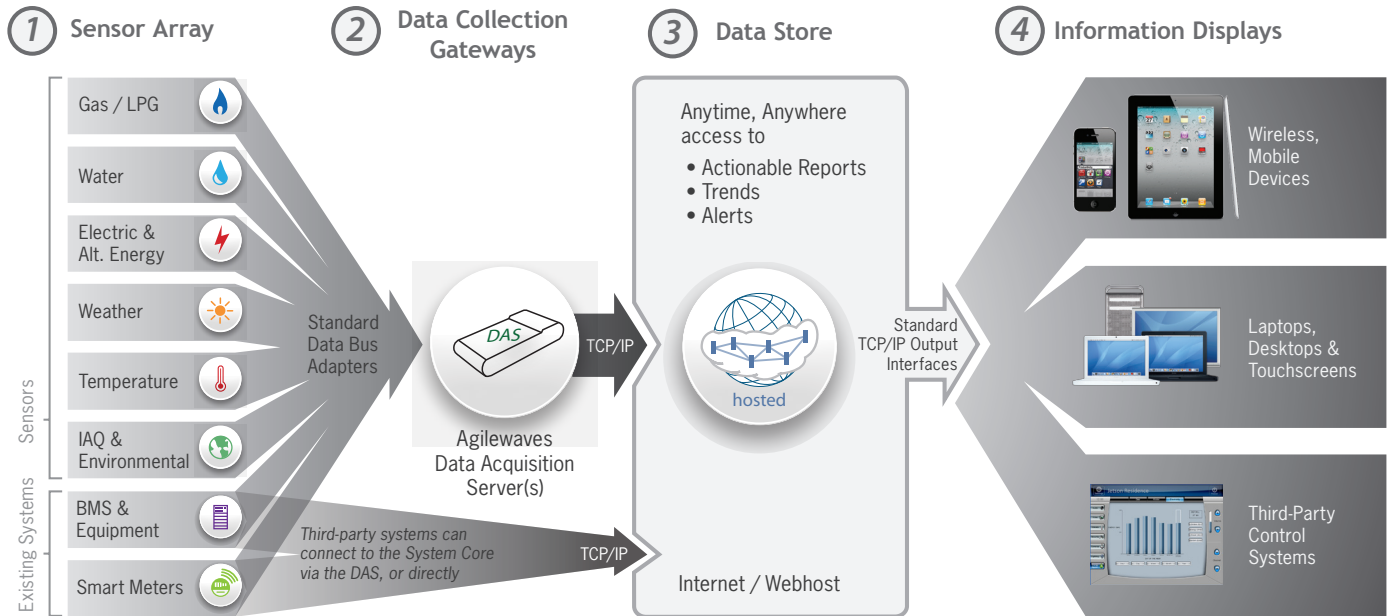
See the effects of smarter efficiency decisions and understand their impact.

4

Proactively monitor top building consumers

Get an up-to-the-minute picture of exactly how much, and where, you are consuming resources.

Building Optimization System™ Overview



Technology

- 1 Sensor Array**
Standard sensors and existing building systems collect data from multiple endpoints and deliver it via common wired and wireless protocols.
- 2 Data Collection Gateways**
Agilewaves Data Acquisition Servers (DASs) serve as a gateway to collect data and relay it via TCP/IP to the long-term data store.
- 3 Data Store**
A hosted server manipulates and securely stores the data for years, providing Energy Diagnostics and actionable reports/alerts, 24/7.
- 4 Information Displays**
Multiple display devices and user interface options provide the right information to the right users, in meaningful, actionable formats.

Benefits

- Cost-effective implementation is coupled with quick return on investment thanks to lower utility bills and reduced maintenance costs.
- Integrates your existing and future infrastructure investments using industry standard communications protocols.
- Provides secure, long-term storage through a robust data architecture.
- Increases the efficiency and provides a longer lifespan for existing investments via better visibility into your equipments' health and performance.
- Reduces chance of downtime and lost revenue by providing proactive alerts—before components fail.
- Enables simplified, more accurate forecasting by providing consolidated real-time and historic data from multiple buildings, sites and geographies.
- Decreases your company's environmental footprint, contributes to LEED points, and may help you qualify for environmental certifications and incentives.

