



PROGRAM AT A GLANCE

Location
Global

Facility
Multiple large campuses that include complex laboratories, manufacturing, and corporate office space.

RESULTS

Over \$1,400,000
in realized annual savings

- Normalized and standardized disparate data for accurate analytics across 74 buildings in four countries.
- Multi-stakeholder access to consolidated building analytics within a single platform.
- Centralized intelligence in a Network Operations Center (NOC) to investigate, distribute, and track work orders for regional personnel.
- Proactive operations embedded with analytics to enhance daily decision-making at global and local level.
- 2017 AEE International Project of the Year
- 2017 EnergyStar Energy Project of the Year

Amgen wins International Project of the Year for Safe and Integrated Facilities Program

Clockworks™ building analytics implemented at leading life sciences organization drives savings and organizational efficiency.

Challenges

Incorporating automated and actionable analytics across 74 buildings in four countries—a total of 8,100,000 square feet and 15,000,000 daily data points—is a complex problem to solve. Amgen, a top-tier organization with over 15,000 employees set out to integrate Clockworks™ into its Global Facility Operations.

Organizational Benefits

This company realized the following benefits after automated analytics across its complex facilities portfolio.

Global Proactive Maintenance: A network operations center was established to support facilities globally, leveraging Clockworks™ capability to identify energy savings opportunities and operational inefficiencies every day, as well as drive and track work order creation and completion.

Identify Hidden Issues: Clockworks™ provided visibility into thousands of mechanical assets, uncovering hidden problems and prioritizing work by quantified energy, comfort, and maintenance impact. Automated energy calculations, possible causes, and trend visualizations enhance root-cause analysis and reduce time and expense.

Equipped Personnel and Enhanced Systems: Industry-leading facilities personnel are equipped with actionable insights that improve reliability and efficiency of critical laboratory and manufacturing systems.

9,900

EQUIPMENT MONITORED

15,000,000

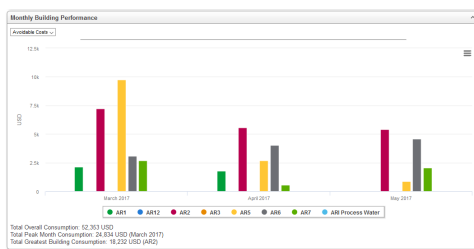
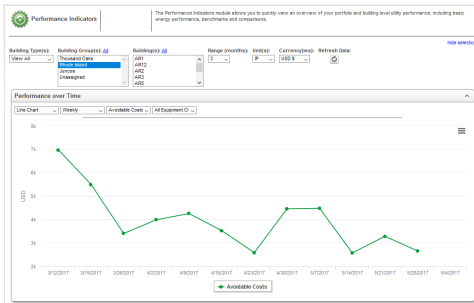
DATA POINTS ANALYZED PER DAY

74

BUILDINGS

8,100,000

SQUARE FEET



Results

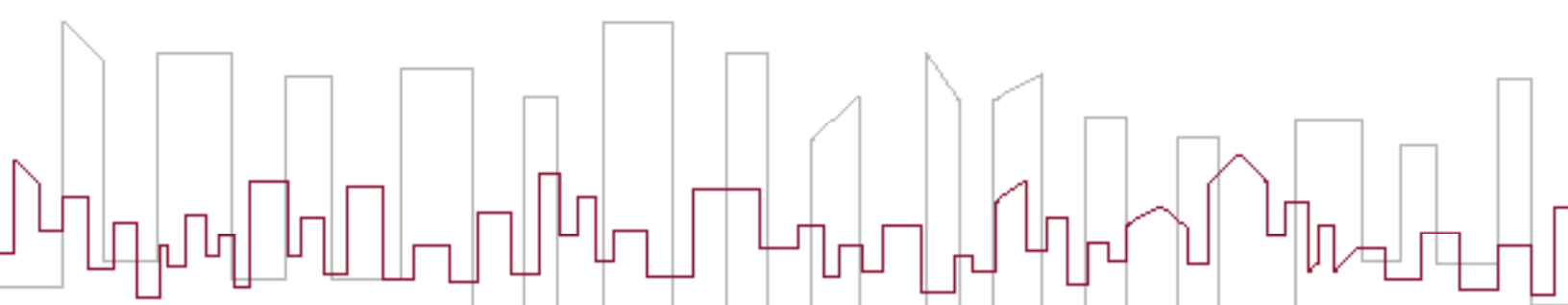
Global and local facilities operations launched Clockworks™ to transform mountains of data into actionable information and realized savings. In its first year, **over \$1,400,000 in savings was realized with completed and validated work.**

Global Visibility Into Energy Performance:

The facilities organization has been valiantly tracking energy performance indicators manually for years, guided by ISO 50001. By rolling up energy metrics from both metered and calculated BAS data, key stakeholders can now visualize whole building energy performance across utility types and compare those sites performance against like facilities and their own weather normalized baselines. In addition, heating, cooling, ventilation and process water efficiency can all be tracked globally across all buildings, with the ability to drill into individual campuses, buildings, systems, and equipment, to identify outliers and suboptimal performance from the macro to micro scale.

Continuing Success

At a global level, Amgen institutionalized a clear method for investigating Clockworks™ analytics, assigning responsibilities, scheduling maintenance, and reporting results. The facilities team meets regularly to discuss open and completed work orders, and the team seeks to expand its Smart and Integrated Facilities program further across portfolio. In 2017, Amgen was awarded International Energy Project of the Year by the Associated of Energy Engineers. Congratulations, Amgen!



About KGS Buildings

KGS Buildings provides state-of-the-art building performance management software for facility managers, engineers, and service providers. KGS's flagship software, Clockworks™, provides automated diagnostics that reveal prioritized and actionable insights to improve facility performance and reduce costs, allowing teams to focus their time and resources on achieving the most impact. Using rich data and analytics, we help top-notch facilities teams stay on top by providing instant visibility into the highest-priority issues impacting their facilities every day.

66 Union Square
 Suite 300
 Somerville, MA 02143
 (857) 598-6439
kgsbuildings.com