Smart Building Assessments

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Energy costs and aging infrastructure remain key challenges
Today's buildings consume a lot of energy. And as they get older, they are ripe for facility improvements that can help reduce operating costs, support greater reliability, and help avoid capital investments.

But perhaps most importantly, building owners and facility directors are ready for opportunities to create the ideal places to work – places with enhanced working conditions and occupant experiences.

Leverage the data from your Building Automation System (BAS)
Today's building systems and components can generate – and process – massive amounts of data. **But data is only useful if it's transformed into action.** Smart Building Assessments, Siemens' alternative to traditional energy audits, harness the power of your Siemens BAS data and reporting capabilities to intelligently identify improvement opportunities.

Streamlined data analysis, coupled with insights from Siemens' engineers and systems experts, can uncover low-cost, high-impact measures for improving your building performance in ways that haven't been possible before.

SBA data can point to actionable information in three main categories. Here are some examples:

Operational
- Misaligned schedules
- Overridden control loops
- Setpoints not being met

Maintenance
- Efficiently uncover issues with terminal units
- End-devices not performing as intended
- Uncover mechanical issues before end-of-life

Optimization
- Improved controls strategies to meet needs with existing equipment
- New technologies to improve performance
- Exploration of potential energy savings and utility incentives

Smart Building Assessments	vs	Traditional Audit Approach
Data-driven		Clipboard driven
Low-cost, high-value repairs and sequence changes		Major equipment replacements and repairs focus
Repeatable, scalable, fully remote		Labor intensive, expensive, onsite
Complements Fault Detection + Diagnostic services		One-time, standalone analyses

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Advancing the way your facilities operate

Smart Building Assessments (SBA) are your first step on the journey toward maximizing building performance. Whereas a fragmented approach to facility performance can compromise the long-term health of your building, an integrated, intelligent, digital-first approach can reduce energy costs while enabling continuous performance improvements.

A modular building performance evaluation program, an SBA from Siemens can reveal high-value, low-cost improvement opportunities for:

- Zone-level controllers
- Central air handling systems, including packaged units and built-up equipment
- Central chilled water and hot water systems

Bring engineering expertise and your building's data together to uncover unique insights and unparalleled value.

SBA as a complement to other optimization tools

A Smart Building Assessment can work as an enhancement to other building analytic approaches such as FDD (Fault Detection and Diagnosis), Holistic Services and AI-based optimization such as DVO (Dynamic VAV Optimization). Because it costs less and can be deployed without a remote connection, it can be an important first step in understanding the potential ROI and/or proper scope of continuous optimization tools.

SBA can also be used by energy engineers to conduct 'deep dive' analyses to understand the findings of FDD and other tools. The robust data provided by SBA can help experts quickly determine the root causes of issues identified by other analytics, speeding the time to resolution, lowering costs and avoiding wasted energy and CO_2 emissions.

For more information, visit usa.siemens.com/buildingcommissioning

Siemens is leading the smart building revolution

Today, Siemens delivers value through smart buildings in ways that have never before been possible. We transform buildings into adaptive spaces that enhance business continuity through operational efficiency, reduced energy consumption, optimized maintenance, and expanded energy intelligence. In Siemens, you have a trusted partner who understands the value of smart building technologies and how they can be applied.

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