SIEMENS

Energy monitoring as a service by Navigator

**Energy Efficiency for your data center – Application Sheet.
Data center solutions from Siemens for the factories of the 21st century.**

Navigator is a cloud-based data management platform designed to help you optimize the overall performance of your data center so you can create awareness, define goals and achieve your energy, sustainability and system performance targets.

General information / customer challenges

Nearly half of the lifecycle costs of a data center are energy costs. Fluctuating energy prices pose a constant risk, and constantly changing laws and environmental regulations need to be followed. Most of the energy services on the market today are reactive in nature. Overall transparency is missing, and the most efficient investment options are hard to identify.

It's comprehensive

Navigator seamlessly integrates complex sources of data from energy procurement, energy consumption, system performance and sustainability, helping you make sense of it all.

– Increase transparency; become faster at identifying improvements; create more predictable outcomes with a more certain payback.
– Monitor system performance and reliability by gaining a holistic view of your infrastructure's performance across your data center on Navigator.
– Achieve sustainability targets through comprehensive energy usage, greenhouse gas inventory and total CO_2 emissions data – over time and across sites.
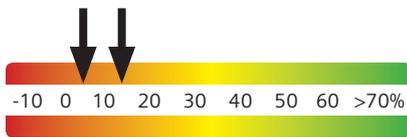– Collect data in real time to determine whether your buildings are compliant with external regulations.

– Achieve better use of data by pairing energy management and sustainability services with industry-leading analytics.
– Mitigate energy pricing risk by combining multiple energy procurement options, conducting comparisons and analyzing long-term costs.

It's insightful

Combine the comprehensive customized data you need with the experience and expertise from Siemens so you can make more effective decisions about your organization.

– Improve energy efficiency by monitoring consumption patterns and establishing benchmarks and key performance indicators (KPIs).
– Identify priority capital projects to generate the highest financial and environmental returns through precise benchmarking.
– Detect decreasing performance or operating anomalies of an asset and warn the operator of an unexpected failure through self-predictive capabilities.
– Schedule maintenance in the most economical way possible.
– Control costs by easily identifying billing errors; improve budget performance; compare budgets, prices, actual costs and hedging positions.

Estimated Savings Potential

-10 0 10 20 30 40 50 60 >70%

These values are guidelines only based on data from actual Siemens projects. The energy savings potential must be calculated individually for each project.

Dashboard

It's intuitive

Turnkey reports and powerful analytics give you the information you need to find and act on performance optimization and energy saving measures.

- Review powerful analytics to identify performance optimization and energy saving measures on a continuous basis.
- Customize your dashboards easily so you can review facility performance and monitor KPIs at a glance.
- Get the insight you need with the intuitive and comprehensive data management platform and empower your occupants to become active participants in energy management.

Five steps to success

To ensure continuous optimization through comprehensive data management, Navigator establishes a five-step process.

- Connect – Allow data to be extracted from systems, equipment and sensing devices
- Collect – Centralize data from multiple systems/sources
- Analyze – People and technical systems use data to generate actionable information
- Optimize – People and technical systems use actionable information to improve systems and processes
- Communicate – Report transparent results to various users for continuous optimization

Highlights

- Increased transparency helps you become faster at identifying improvements
- Detect decreasing performance or operating anomalies
- Identify priority capital projects
- Improved decision-making
- Optimized energy budgets through procurement planning