

SIEMENS

Ingenuity for life



Turning buildings into high-performing assets

A holistic approach to enhancing building performance and energy efficiency with Digital Energy Services

[siemens.com/perfect-places/digitalservices](https://www.siemens.com/perfect-places/digitalservices)

Intelligent solutions for smart buildings

Operating costs make up around 71% of total building-related costs, with energy costs alone accounting for about 30%. As a result, inefficient operation can quickly drive costs up.

Big data in buildings

With big data solutions for buildings, information relevant for decision makers can be filtered out of large volumes of data. The right combination of analytical tools, dashboards, and consulting services, as well as experience in efficiency projects, makes it possible to achieve a return on investment (RoI) of up to 40%, compared with 10% to 15% for typical business investments.

Secure and reliable data analysis

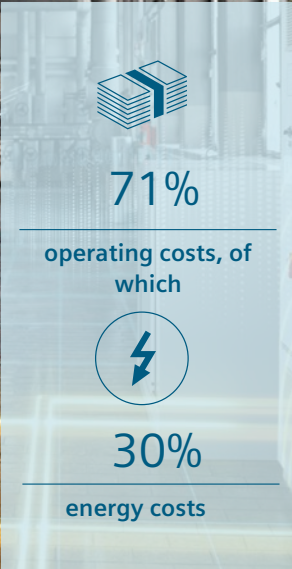
Siemens is the specialist when it comes to converting big data to smart data. Secure, cloud-based technologies and services process data relevant to building performance and sustainability. Remote connections make digital energy services such as error recognition and diagnostics possible and form the foundation of energy efficiency programs. Experts use digital technologies to turn data into results. At the same time, the highest security standards ensure reliable cloud-based services.

A comprehensive package

A comprehensive package is recommended to achieve the greatest benefit: Consulting services for planning and implementation, and analytical expertise related to building data and the results yielded by appropriate software tools. Siemens' Performance and Advisory Services help customers develop measures for greater energy efficiency, optimized energy supply, and financing options. The objective is always to transform buildings into high-performing assets.

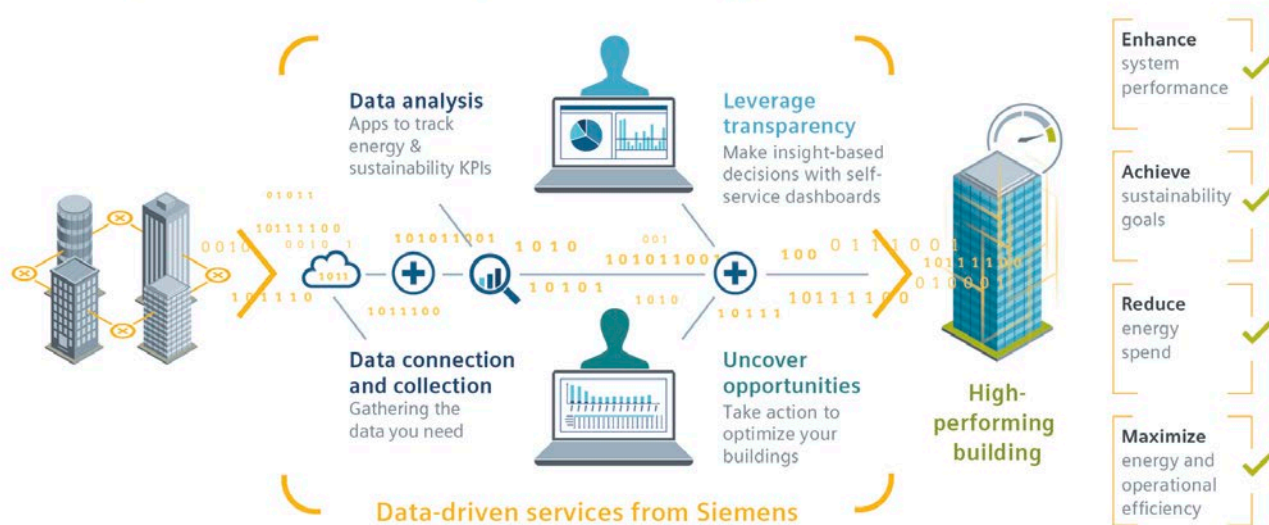
Navigator: intelligent insights for intelligent operation

Navigator, the cloud-based energy management platform, visualizes and analyzes the energy data from a building. The software tool facilitates sound decision making, making it possible to optimize the entire building portfolio – for increased performance, sustainability, and intelligence. The intuitive platform provides users with end-to-end insights into demand and energy



Navigator – the cloud-based energy and sustainability platform

Turning data into results across your entire building portfolio



utility costs, risks and trends, and CO₂ emissions – as well as into the RoI of efficiency improvement initiatives.

The customizable, scalable software serves as a portal for areas such as supply management, system performance, and compliance reporting. It combines assets, data, processes, and people, helping to streamline processes and achieve better results. This makes it possible to optimize and evaluate investments for more energy efficiency,

determine key performance indicators (KPIs), and make forward-looking decisions.

Reliable verification with a realistic level of effort

The Navigator underpins Siemens' Performance and Advisory Services with key insights delivered by advanced building analytics. A team of experts assists in continuously optimizing customer energy and building efficiency programs.



Navigator highlights

- Ranked among the top three building energy management software solutions (2015, Verdantix)
- Makes building, equipment, and service performance easier to plan
- Maximum savings on energy supply and energy demand
- Reduced time-to-value
- Meets requirements for energy and CO₂ audits as well as reporting

Services at a glance

Building performance monitoring

- Plant monitoring to optimize energy-efficient plant operation and verify optimization measures have been implemented
- Regular reporting of optimization recommendations

Monitoring services

- Continuous monitoring of data implemented in the Navigator, including reports
- Customizable monitoring parameters

Management report

- Report on energy consumption performance and distribution
- Clear overview of energy-related KPIs

Energy flow analysis

- Transparent overview of energy flows
- Identification of consumers and gaps in monitoring systems

Energy strategy

- Joint development of an energy and sustainability strategy
- Cost-efficient decision making as part of complex regulatory frameworks

Energy management system in accordance with ISO 50001

- Support in introducing an energy management system

Energy concepts

- Increased supply security through own power generation
- Maximum CO₂ neutrality and highly efficient power generation technologies

Energy procurement

- Analysis and forecasting of energy consumption
- Support in selecting an energy import model
- Request for quotations and analysis of bids
- Support with all decisions related to conclusion of contracts

When building technology creates
perfect places – that's Ingenuity for life.

Never too cold. Never too warm.
Always safe. Always secure.

With our knowledge and technology,
our products, our solutions and our services,
we turn places into perfect places.

We create perfect places for their users'
needs – for every stage of life.

#CreatingPerfectPlaces
[siemens.com/perfect-places](https://www.siemens.com/perfect-places)

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