

Building X Energy Manager Essential



Monitor your energy performance | Spot and fix inefficiencies early | Reduce your energy costs

75%
of commercial buildings are energy inefficient¹

36%
of CO₂ emissions in the EU²

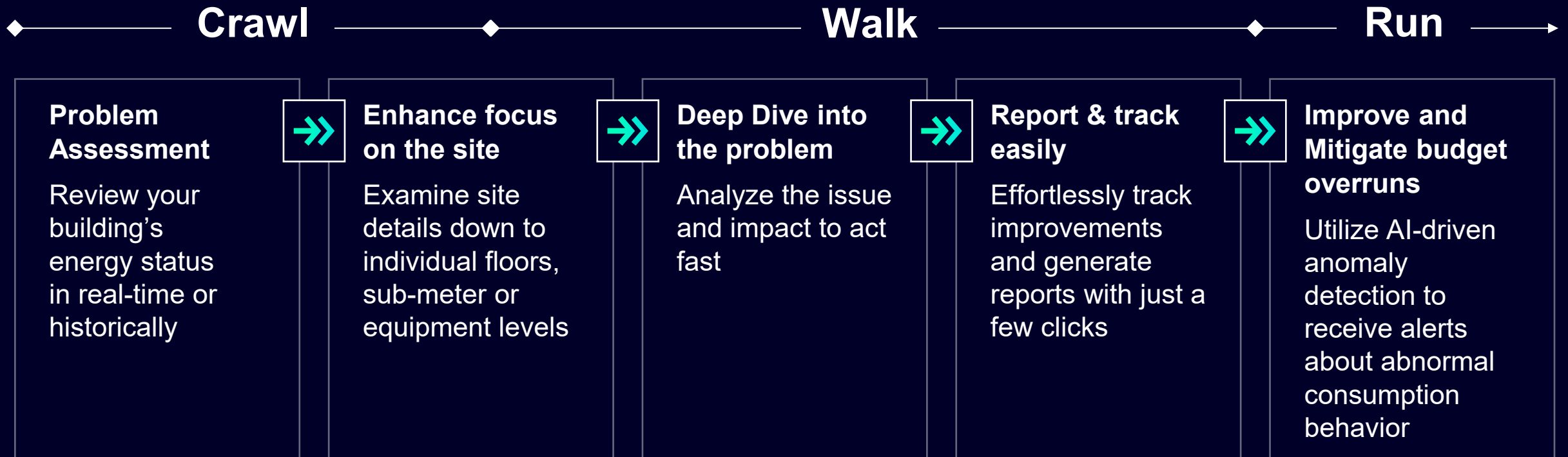
17%
of air-sourced heat pumps do not meet efficiency
standards in operations³

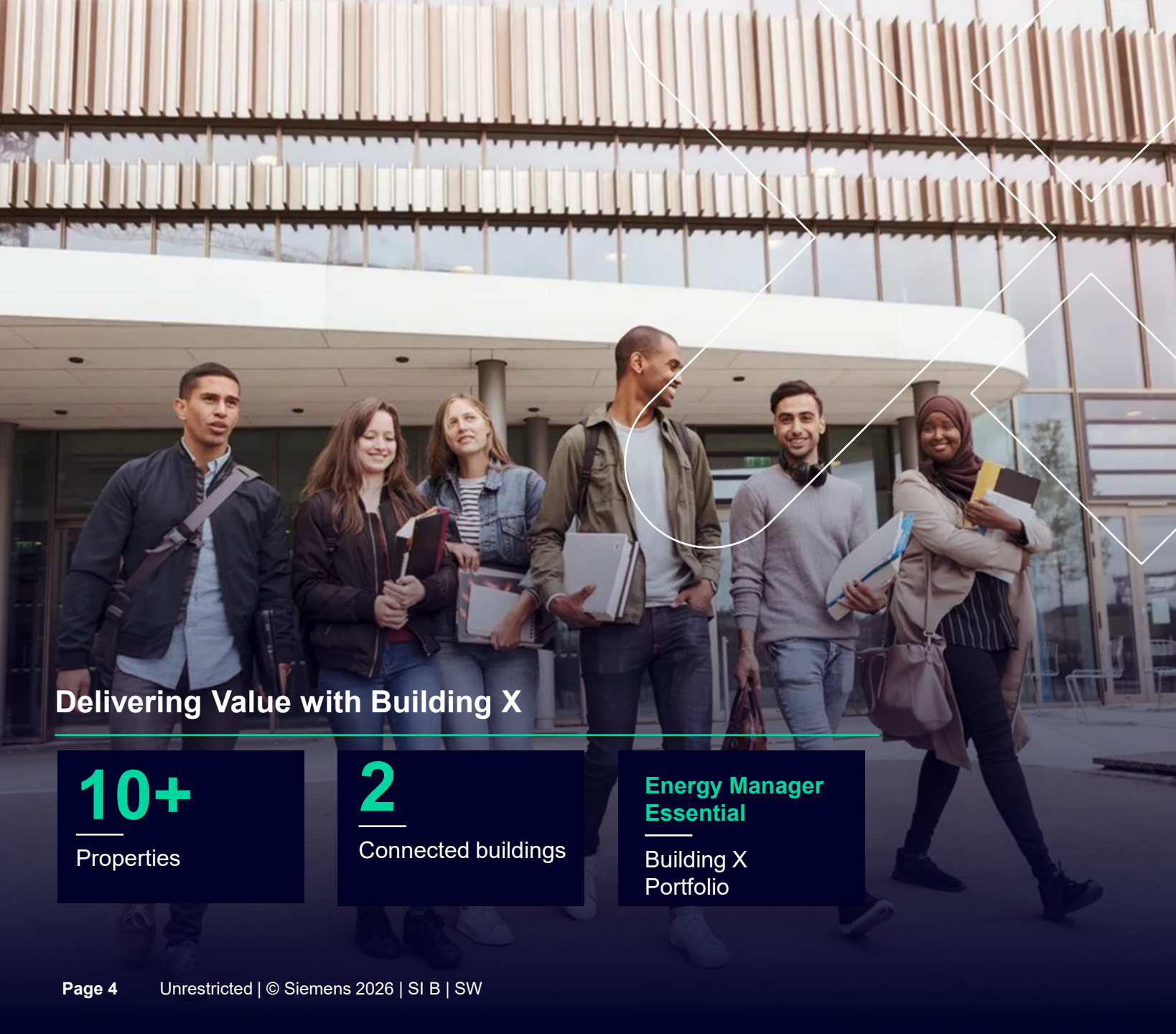
¹Energy efficiency: buildings and industry. (n.d.). | ²Energy.gov. <https://www.energy.gov> ³nature.com/article



Minimize your building's energy expenses by ...

... pinpointing key efficiency issues





University In Switzerland

Transforming campus energy management with intelligent monitoring and actionable insights

CHALLENGE

- Limited visibility and inconsistent energy data across campus buildings
- Manual reporting processes causing inefficiencies and errors
- Difficulty meeting 2030 sustainability goals due to high energy and carbon footprint

SOLUTION

- Implemented centralized energy monitoring with unified KPIs across all buildings
- Enabled automated reporting and seamless integration with existing 3rd party BMS
- Introduced real-time anomaly detection in high-consumption areas like laboratories

BENEFITS

- Accelerated progress toward 2030 sustainability targets
- Increased operational efficiency with automated reporting
- Improved decision-making with actionable insights & full campus energy transparency
- Streamlined data sharing with Kanton for compliance and productive partnerships

Delivering Value with Building X

10+

Properties

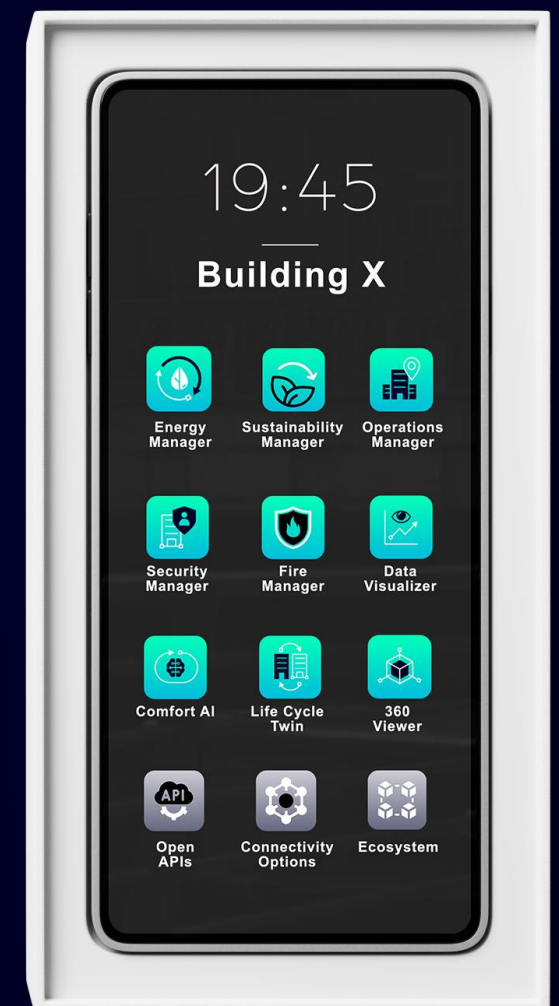
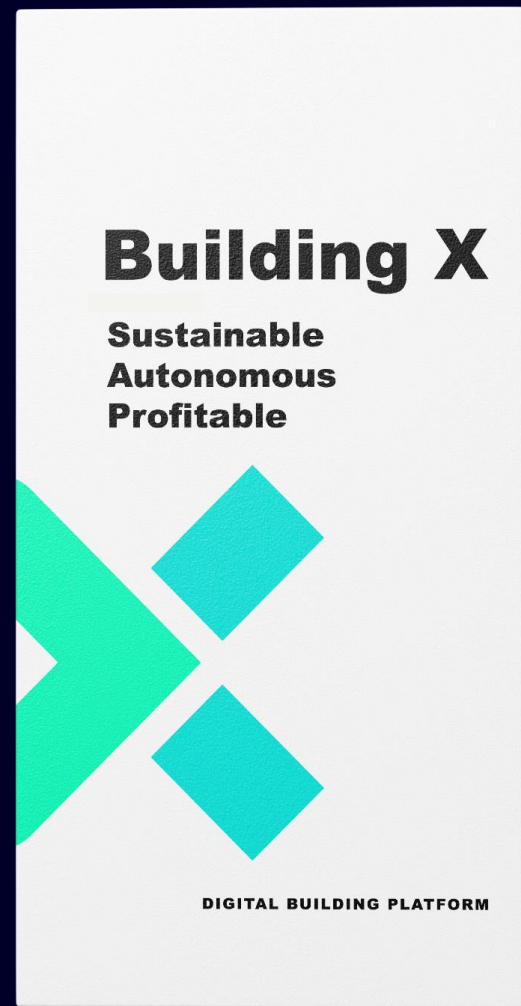
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Connected buildings

**Energy Manager
Essential**

Building X
Portfolio

Introducing
Building X,
the operational core
of your buildings.

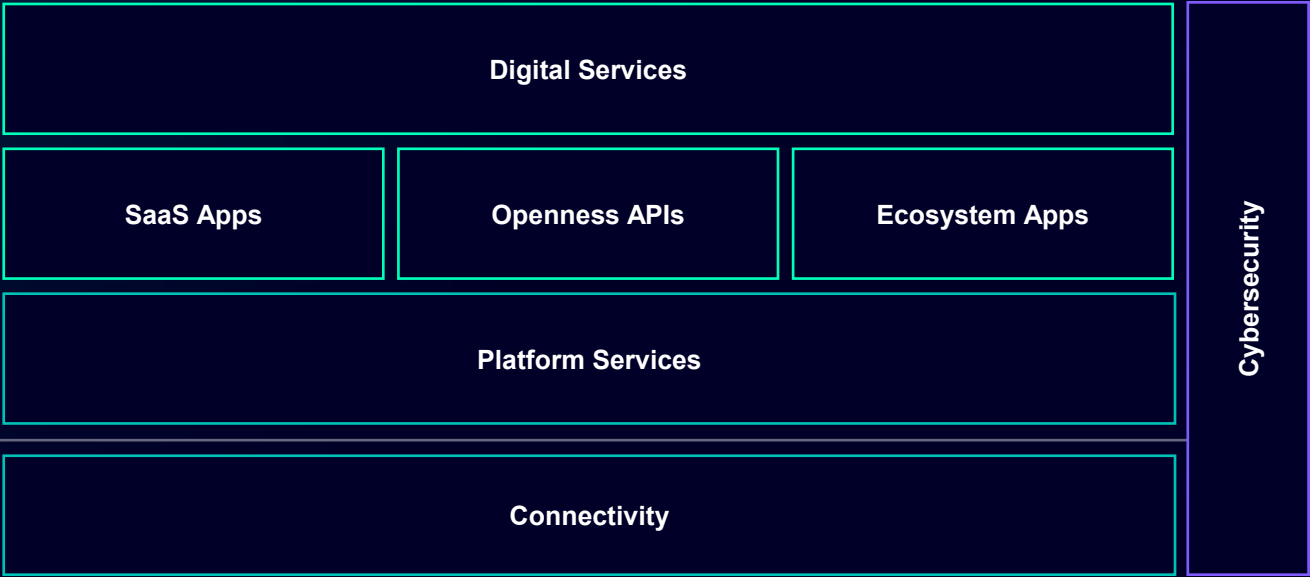


A digital building platform that digitalizes, manages, and optimizes building operations



Use Cases

Energy & Sustainability	Maintenance & Operations	Physical Security	Fire Management	Space & Workplace Management	Corporate Portfolio Management*
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Any field discipline & device



Any building architecture & industry

*Roadmap Item

Building X – A digital platform that digitalizes, manages, and optimizes building operations



Use Cases

Energy & Sustainability	Operations & Maintenance	Security & Safety	Space & Workplace Management	Corporate Portfolio Management*
Decarb. planning Compliance Reporting AI Energy Optim.	Digital Engineering Operations Monitoring Fault Detection & Diagnosis	Building Security Visitor Experience Building Access	Space Mgmt. Live Occupancy Insights Live IAQ Insights	Portfolio Single Pane of Glass Portfolio Benchmark Data Quality & Auditing
Energy, Water, etc. Monitoring Utility Mgmt. & Insights	Work order Mgmt. Cost-effective maintenance	Fire System Monitoring Fire System Testing Fire System Maint. Scheduling	Workplace Utilization Analytics Digital Workplace Admin. Desk & Room Booking	Workflow Automation & Reporting Cross Discipline Visibility

Digital Services

Automation & Mechanical	Energy Advisory & Diagnostic	Energy Optimization	Fire
Asset Performance Optimization* Asset Power Monitoring Critical Storage Critical Space Monitoring Lab Manager Analytics	Smart Building Assessment Energy Performance Advisor UBM Service Energy System Twin Sustainability Advisory*	Cooling Efficiency* Airflow Improvement* Load Optimization*	Data Driven Performance Review & Recommendations False Alarm Detection & Reporting Access Right Review

Building X Platform

Applications

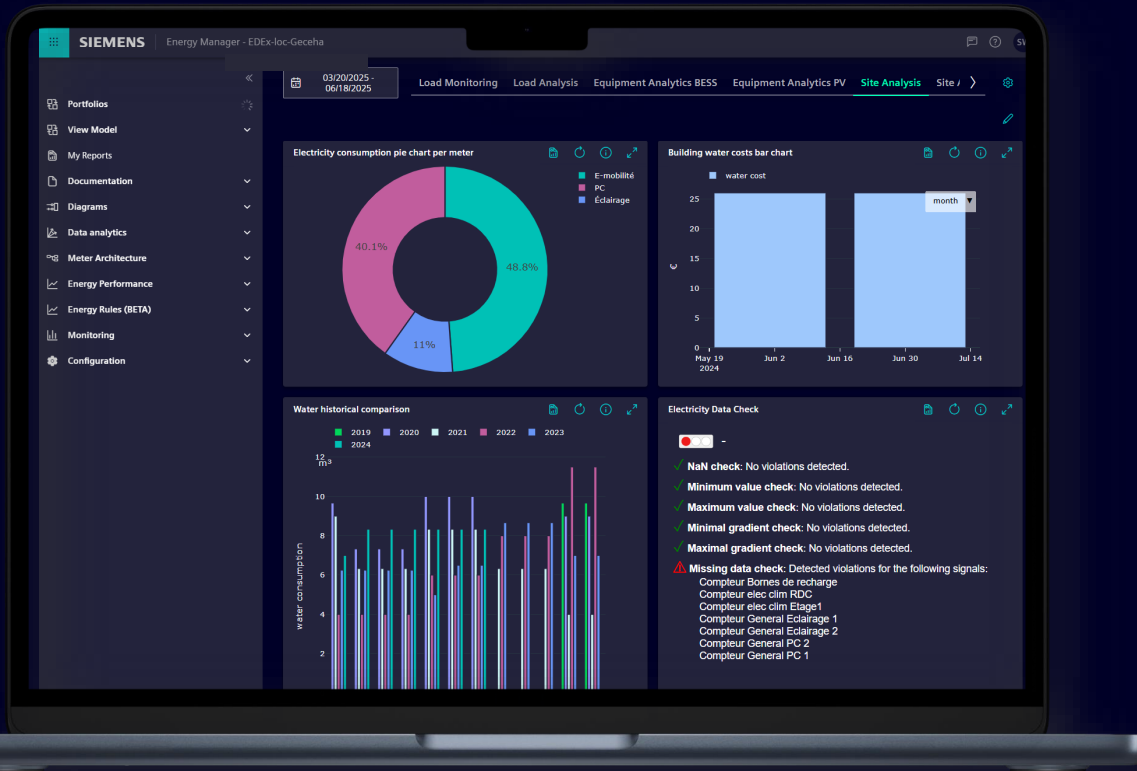
Energy & Sustainability	Operations & Maintenance	Security & Safety	Space Mgmt.	Portfolio Mgmt.	Open APIs	Ecosystem
Sustainability Manager Energy Manager Comfort AI	Operations Manager Lifecycle Twin Data Visualizer 360 Viewer	Security Manager Visitor Manager Fire Apps	Occupancy Environmental & Air Quality	Portfolio Manager*		

Connectivity

Data Onboarding	Service Extensions	AI & Rule Analytics	Building Twin	Device & Edge Management	Account Management
Building Structure Data		Partner/3rd IoT Solutions		Siemens Native IoT & SW Integrations e.g., Desigo PXC, Connect Box, Desigo CC, Siveillance, Desigo Optic	

Cybersecurity

Building X Energy Manager - Essential



Flexible Dashboards

Create and share dashboards with widgets, logos, and flexible layouts in minutes.

Real Time Energy Data

Monitor systems in real time with custom graphics and trends.

Utility Tracking

Get detailed visibility of electricity, gas, water and other use across sites and equipment.

AI Anomaly Detection

Spot unusual patterns instantly and cut inefficiencies before they grow

Data Quality

Detect gaps and errors automatically and fix them with full transparency and audit trails

Energy Performance Indicators (EnPIs)

Flexibly create and track KPIs relevant for energy performance of your own business

Trend Analysis

Drill into data points with trend lines and heatmap plots for deeper insights.

Power Management

Identify peaks and optimize performance with real-time awareness.

Advanced Submetering

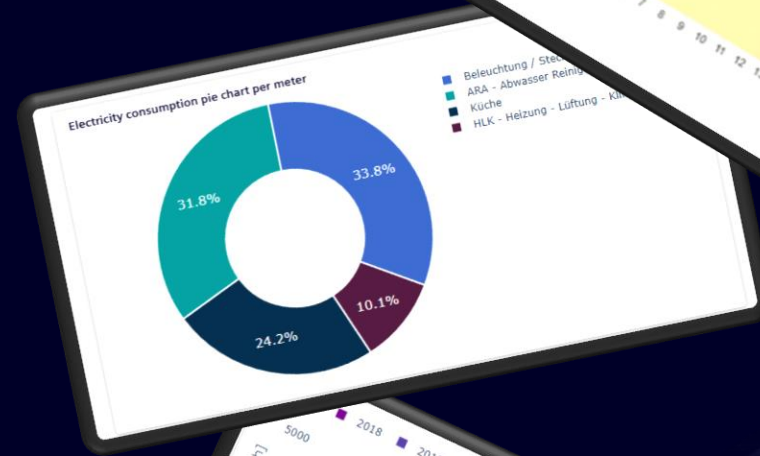
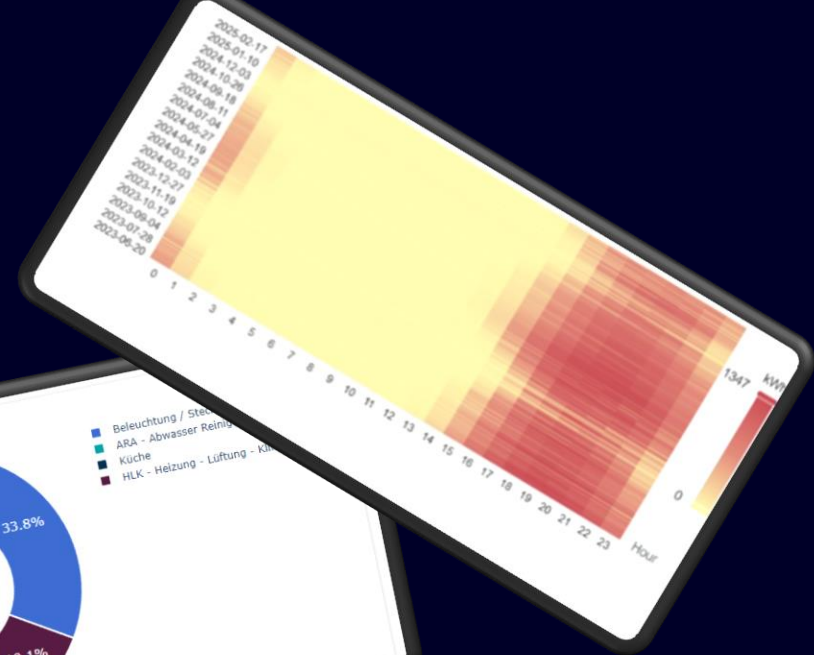
Track energy flows down to floors, rooms, or assets to uncover hidden patterns

Scheduled Reports

Get effortless control over consumption monitoring by scheduling essential reports



Building X Energy Manager Essential





Build dashboards that work for you

Fully customizable: Design dashboards from scratch using a rich library of widgets or by creating your custom widgets and diagrams to match your goals.

Company Logo & visual: Add your company logo and real site images for a more personalized, relatable view.

Easy collaboration: Copy or subscribe to dashboards shared by experts or teammates to save time and start with proven setups.

Fast setup, flexible use: Whether you're monitoring performance, comparing sites, or reporting to stakeholders—tailor your view in minutes.





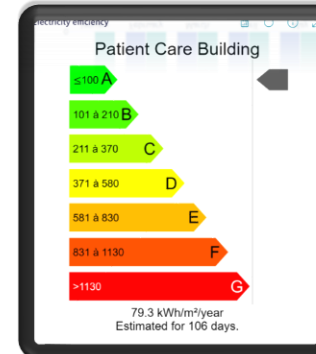
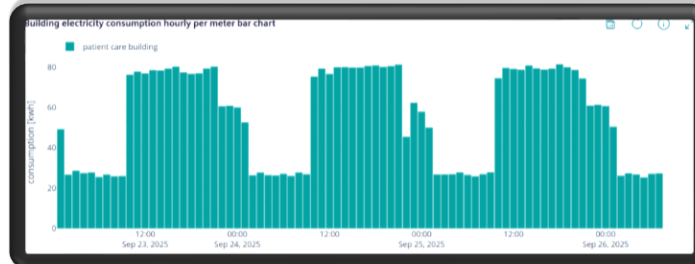
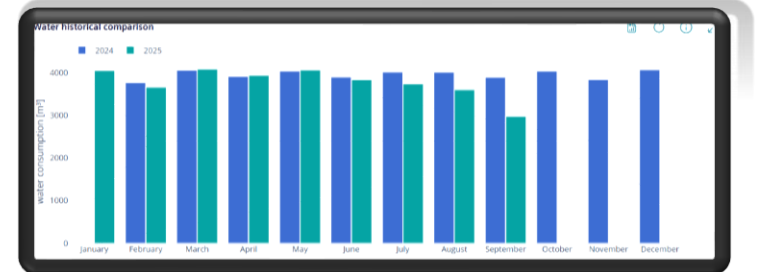
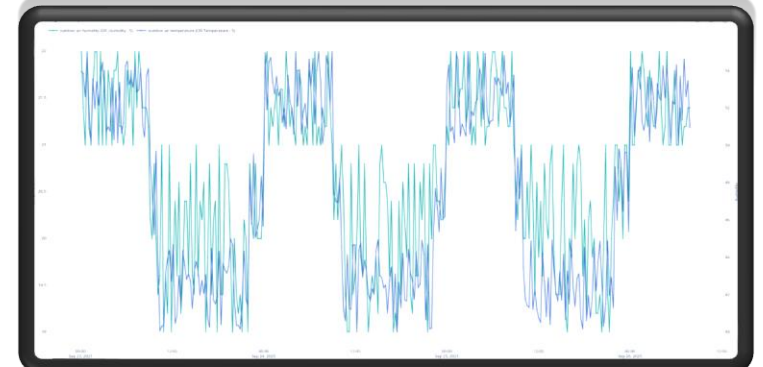
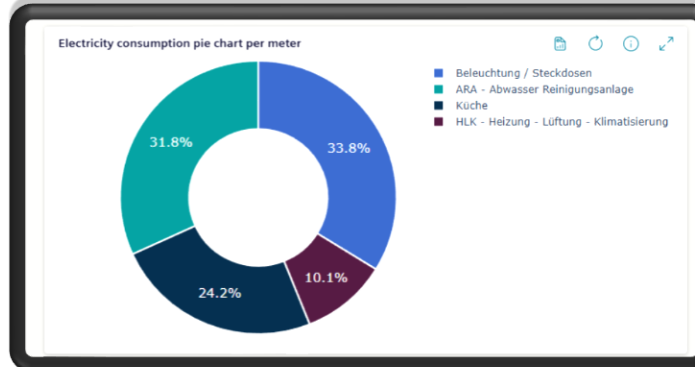
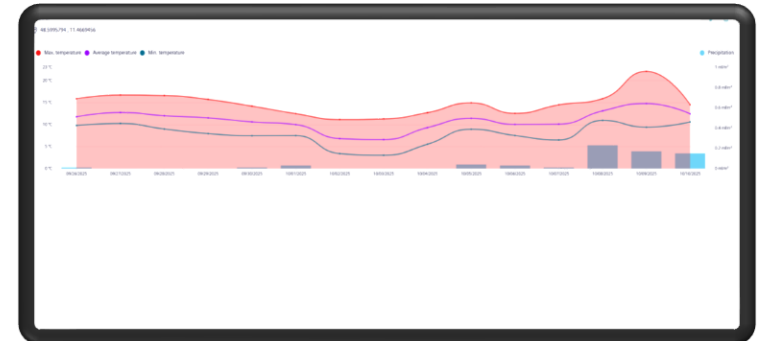
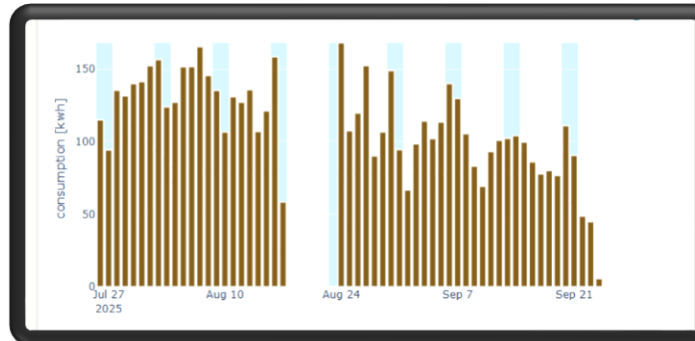
Built-in analytics at your fingertips

Always focus on the insights that matter most! From electricity, water, and gas tracking to load monitoring, historical comparisons, and energy flow visualization choosing the right widgets enables you to:

Tailor your monitoring with visualizations including Sankey diagrams, load curves, energy mix diagrams and consumption charts.

Gain instant clarity at every level by effortlessly navigating your building hierarchy and letting the widgets adapt to provide granular insights for the selected node.

Track progress on efficiency goals through historical comparisons



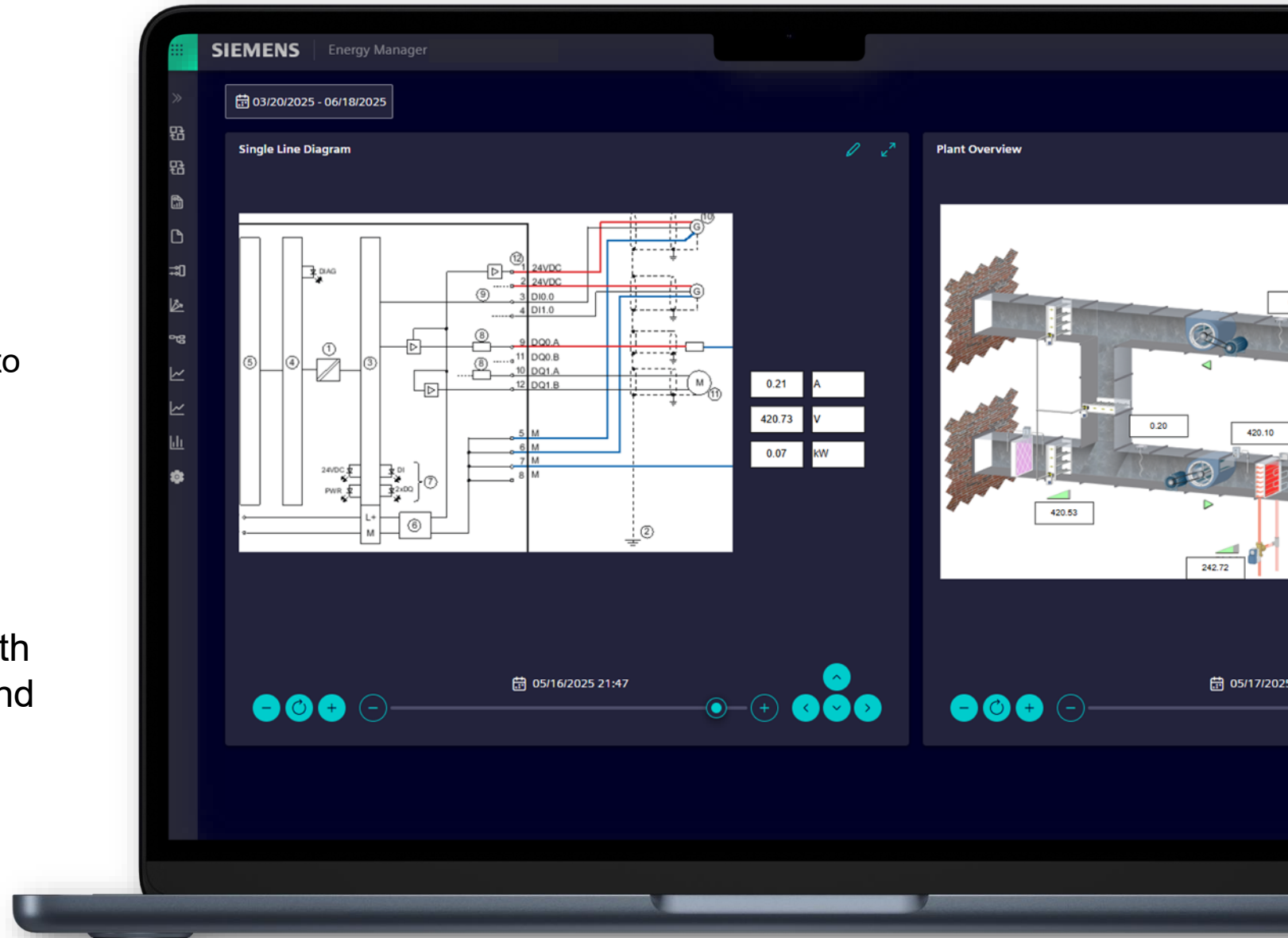


Customize your graphics for real-time insights

Easily upload and build custom graphics to track your systems in real-time.

Bring your live data points to monitor systems and dive deep into performance metrics right where it matters most.

Monitoring your electrical systems with single line diagrams, your energy flow and distribution with system and microgrid schematics or individual equipment has never been easier.





Track utility usage at any level of detail

Granular visibility – Access detailed consumption data for gas, water, electricity, and more.

Flexible tracking – View usage for complete site, individual buildings, or even down to specific equipment.

Smarter insights – Pinpoint inefficiencies and monitor current and historic performance with precision.

Tailored analysis – Align tracking granularity with your operational or sustainability goals.





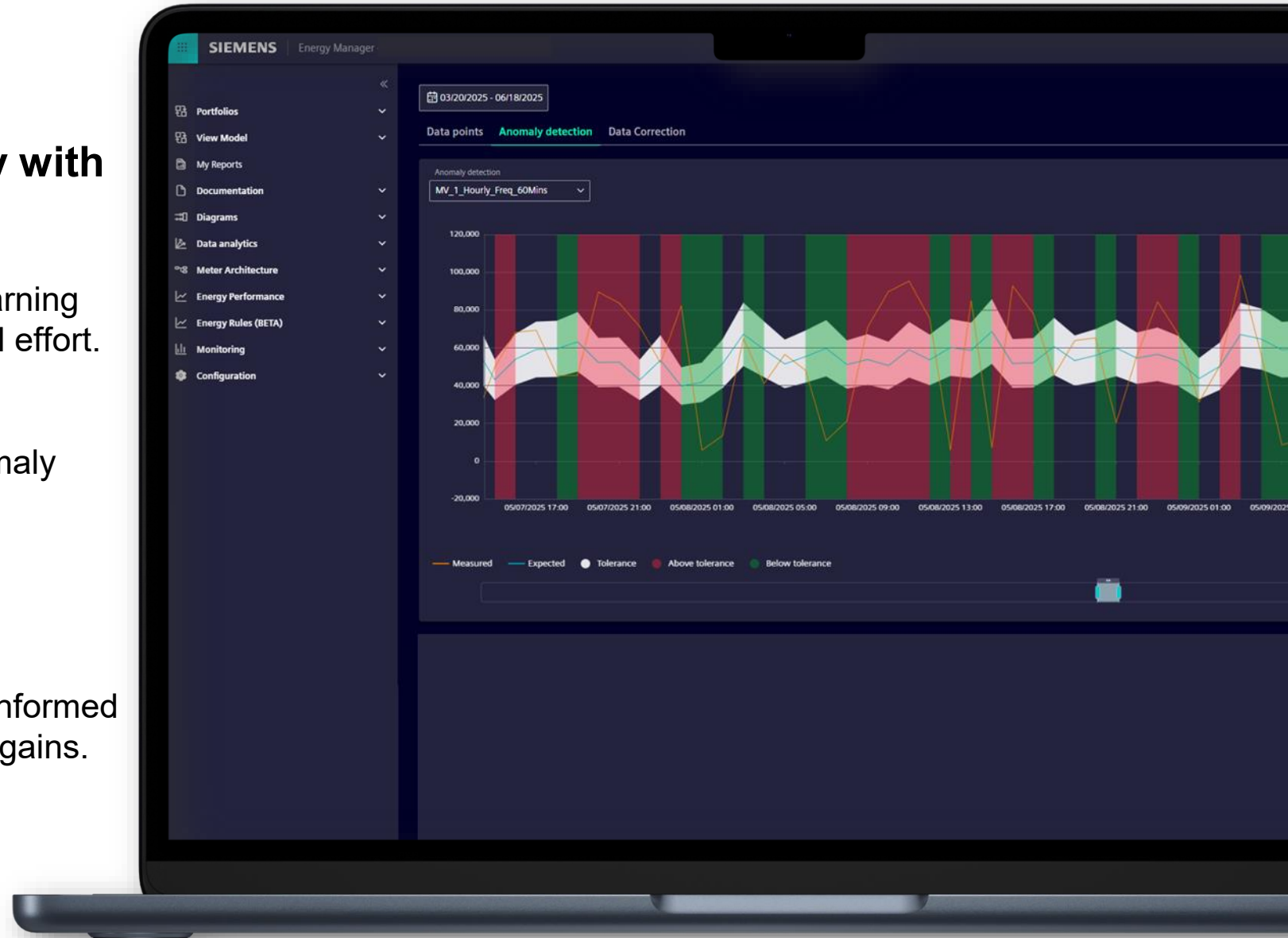
Detect energy anomalies instantly with machine learning

Uncover issues automatically: Machine learning flags unusual energy patterns without manual effort.

Save time on analysis: Eliminate lengthy investigations with real-time, automated anomaly detection.

Act fast, save more: Get alerts to address inefficiencies before they escalate.

Boost efficiency and reduce costs: Make informed decisions that drive operational and financial gains.





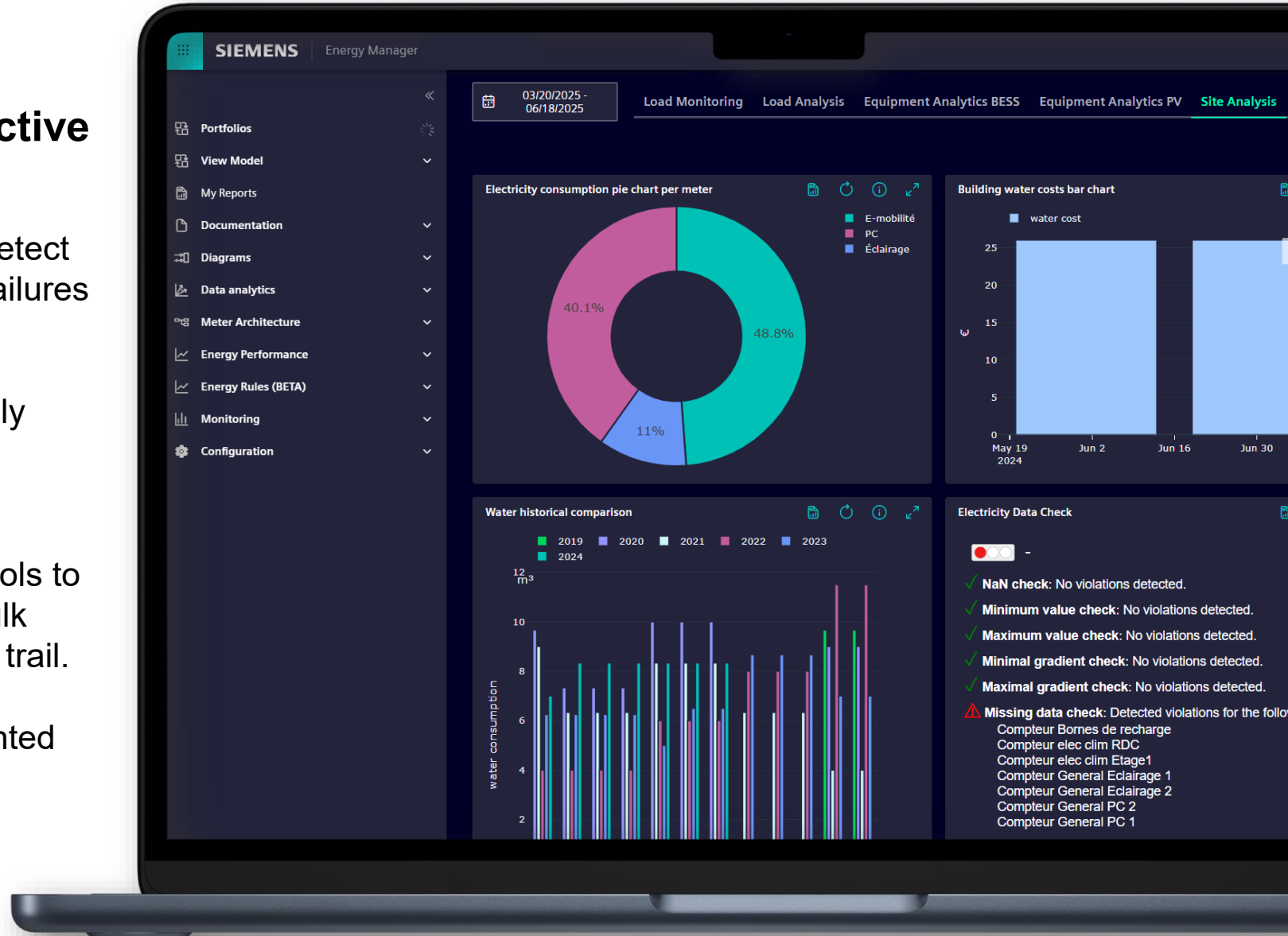
Ensure trusted insights with proactive data quality management

Never miss a critical issue: Automatically detect missing readings, sudden spikes, or sensor failures across all monitored electricity data points.

Act before data gaps cost you: enable timely fixes to connectivity or hardware problems, preserving decision confidence.

Fix errors with confidence: Use powerful tools to fill gaps, correct abnormalities in data, and bulk update readings while maintaining a full audit trail.

Stay transparent and accountable: Highlighted edits and revision history ensure trust and traceability in all energy data corrections.





No more guesswork, drill-down to individual data points

Utilize the granular analysis capabilities extend to individual data points level investigation.

Reveal meaningful insights at data point level, streamlining the identification of energy data anomalies, using trend lines, heatmaps, gauge charts for specific data point of interest

Elevate your energy management by integrating data from beyond conventional energy meters, incorporating other essential sensor data—like temperature, pressure, and occupancy—for precise monitoring of HVAC, lighting and other building operations

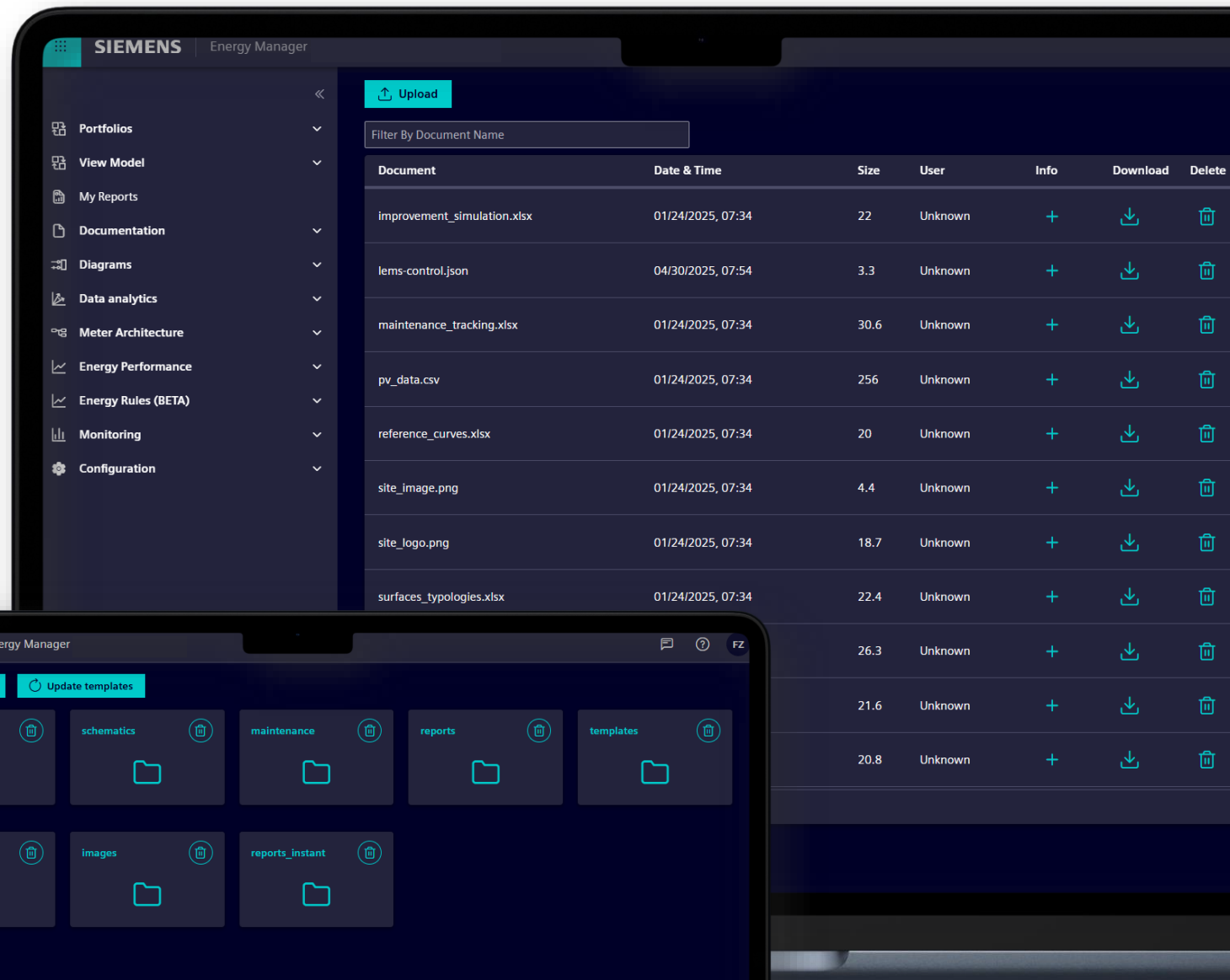




Access and manage all your building-related documents, anytime, anywhere

From schematics and contracts to audits and maintenance logs, everything is stored alongside operational data for fast access and full context.

- OneDrive / SharePoint-like experience
- Upload, download, and organize files in folders
- Track file history and manage versions
- Add contextual notes and metadata
- Support for all file types (e.g., PDFs, drawings, reports)





Reduce peaks, control loads, optimize energy

Get a comprehensive view of load performance across multiple timeframes
Pinpoint peak loads across sites, floors, or systems to identify consumption spikes.

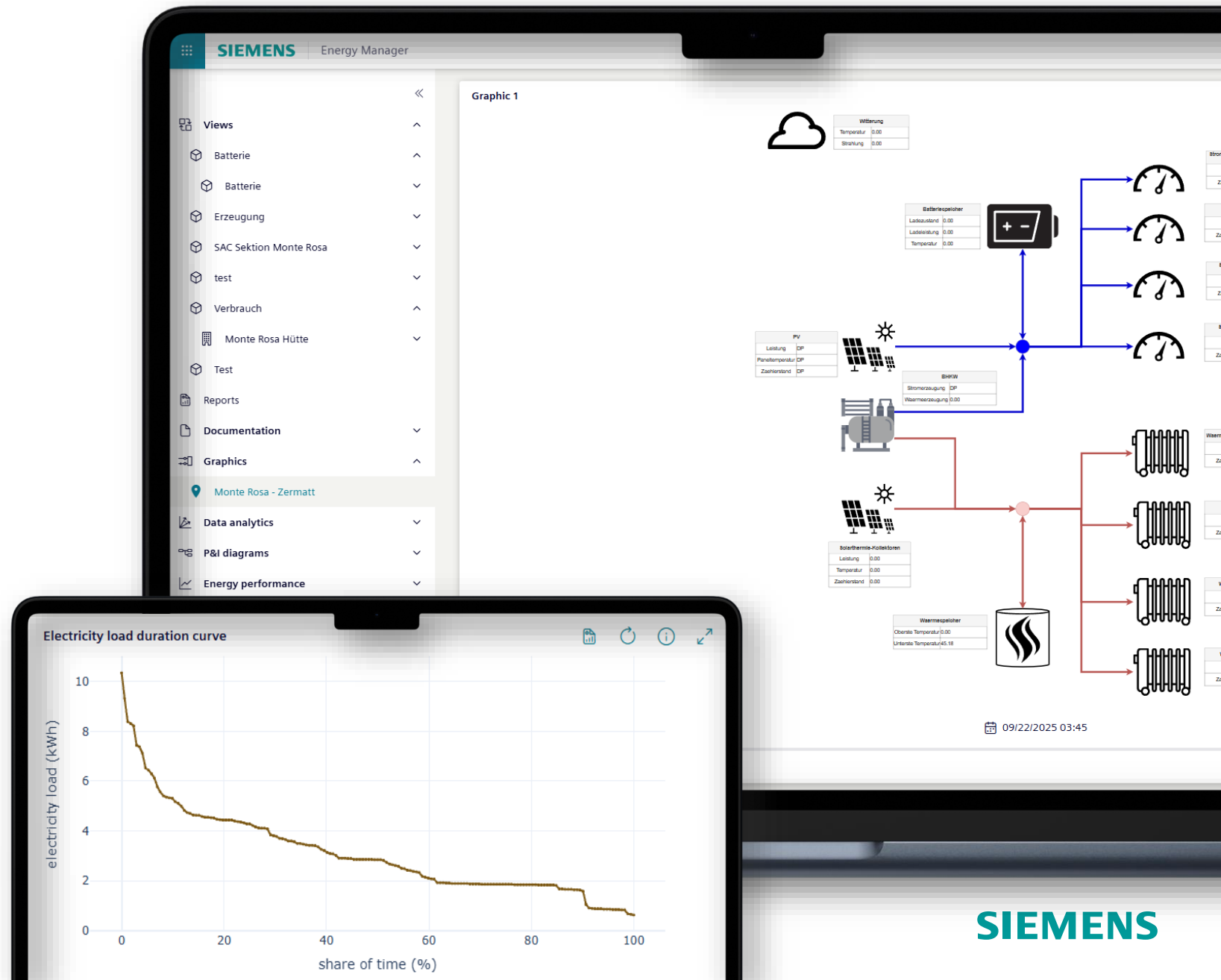
Use load curves to assess potential and uncover opportunities to reduce peaks.

Dive into load data with trend analysis and meter-level monitoring for deeper insights.

Generate heat maps to quickly identify heavy loads and peak hours slots.

Improve efficiency by extracting inputs for load shifting and balancing.

Support smarter decisions with data driven insights.





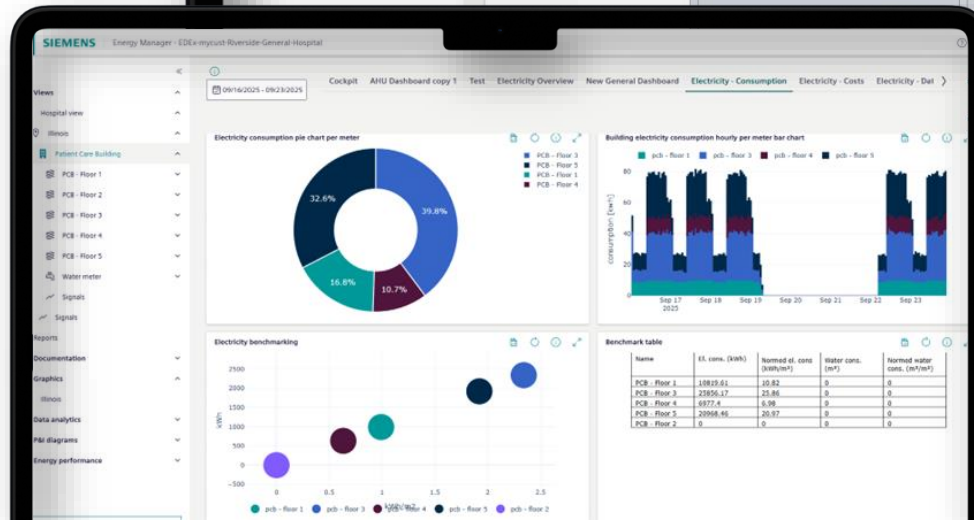
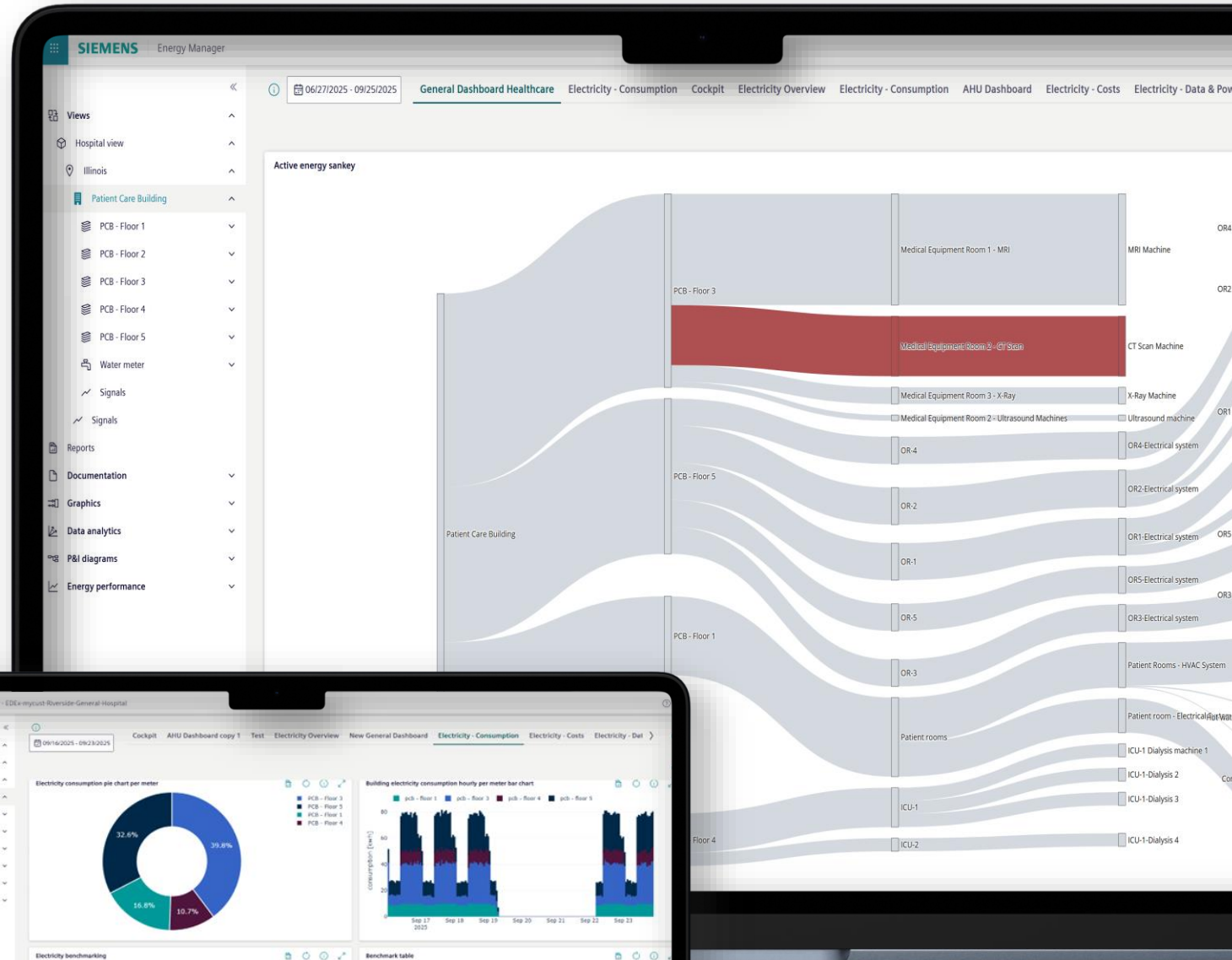
Reveal hidden patterns with Advanced Submetering

Monitor energy flows across your entire building and identify where major consumption happens.

Drill down from site to floor, room, or even individual assets for precise insights.

Visualize and compare submeter data based on interest. E.g., site's locations, tenants, usage types, equipment, departments or cost centers

Uncover hidden patterns and prioritize improvements that reduce costs and support sustainability.





Energy Insights, On Your own Schedule

Use flexible reporting options, meticulously designed to keep you informed, agile, and always ahead of your reporting needs.

Save precious time and ensure seamless compliance by effortlessly setting up automated reports in HTML format. Stay notified on key energy consumption patterns, performance trends, perfectly aligning with your internal reporting cycles

On-Demand sharing with stakeholders enabled by Ad-Hoc Export for desired dashboard





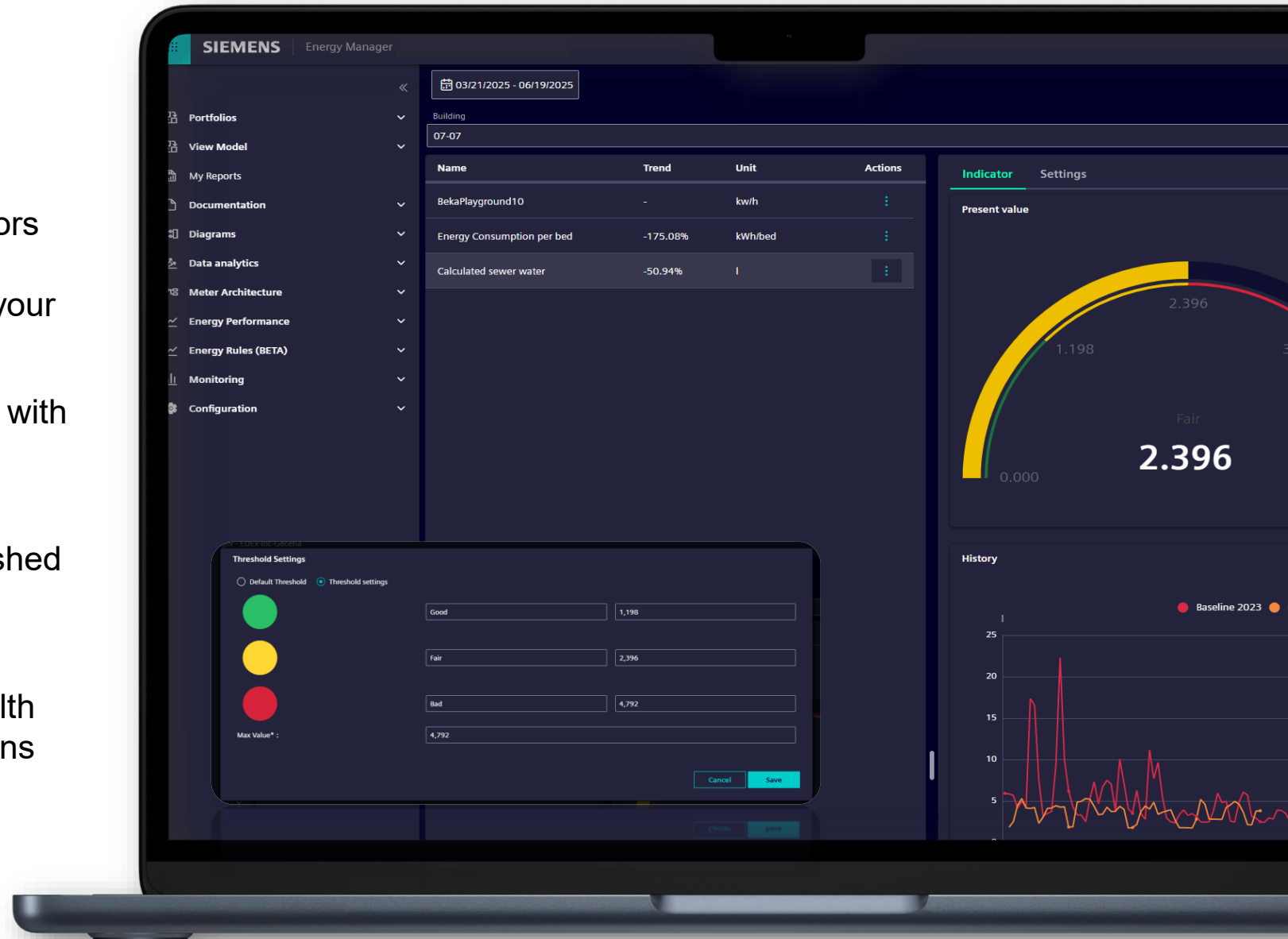
Boost energy efficiency with customizable EnPIs

Create and tailor energy performance indicators (EnPIs) that precisely align with energy performance optimization strategy unique to your business.

Monitor & Visualize EnPI performance trends with intuitive charts and set baselines to clearly measure improvements.

Measure overall performance against established targets, gaining immediate clarity on any deviations.

Calculate any equipment performance or health KPI and assign KPIs to any object like locations or equipment for simple navigation.

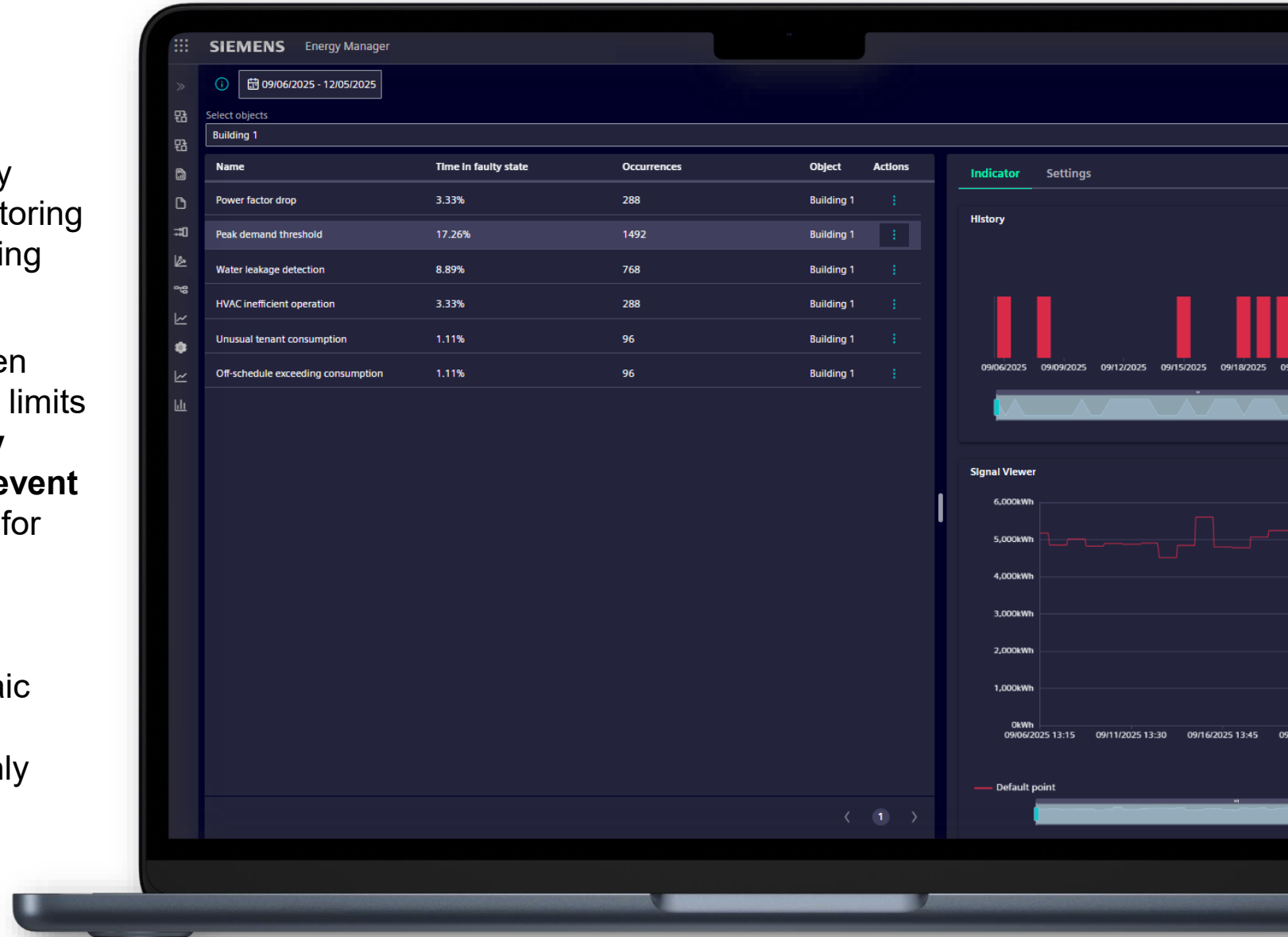




Empower Your Energy Expertise

Transform your deep understanding of energy management into intelligent, automated monitoring using custom logic for notifications and enabling swift action

- **Avoid costly peak demand charges** when load exceed the contractual peak demand limits
- **Identify water leakage** and **unnecessary consumption** after operating hours or **Prevent annual budget overrun and bill shocks** for the facility
- **Prevent HVAC energy waste** due to simultaneous heating and cooling
- **Identify decrease in output** of photovoltaic
- **Reallocate costs** and engage with tenant when consumption exceeds normal monthly averages
- **Alert maintenance** if the power factor drops during peak operational hours

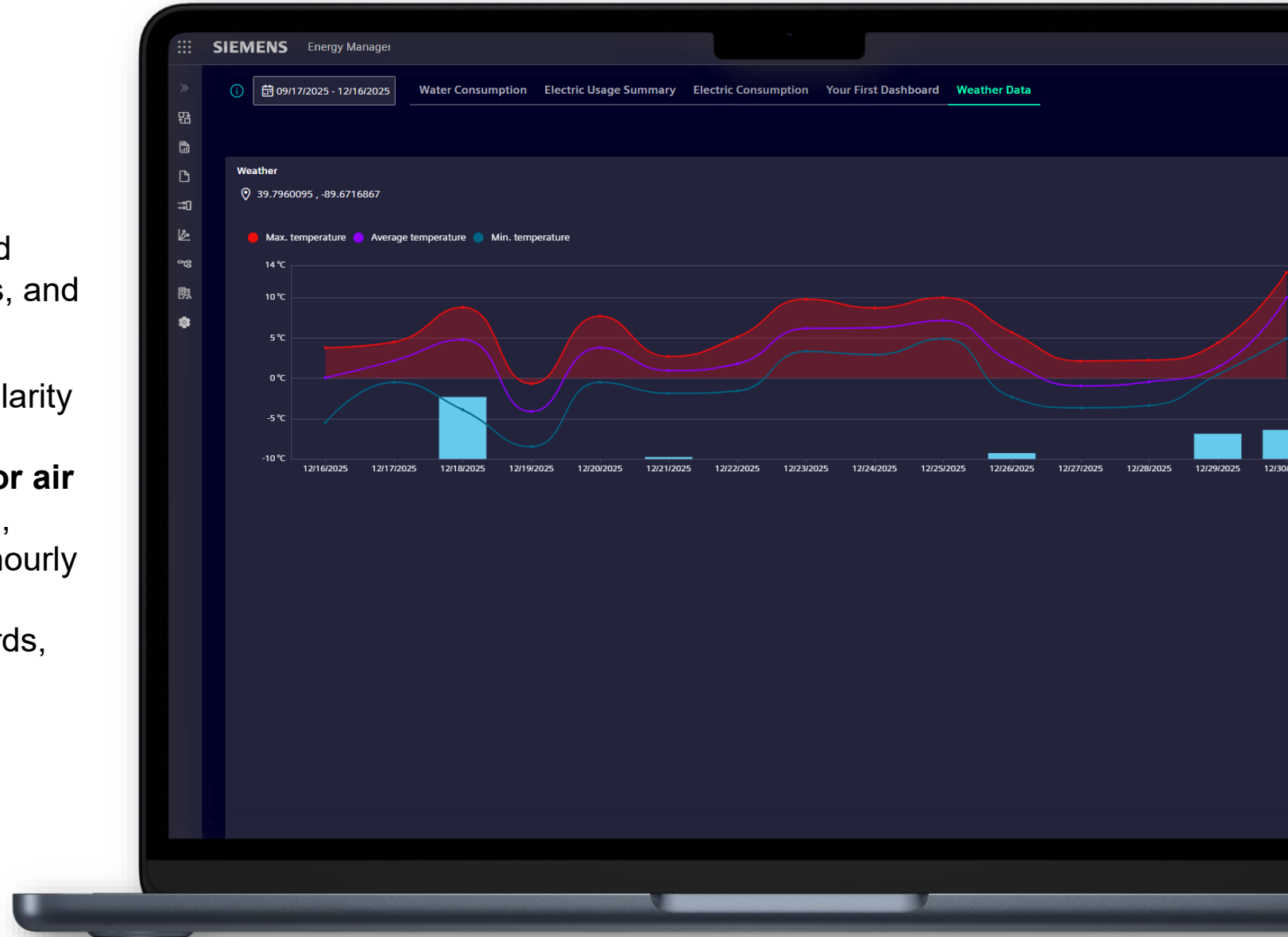




Unlock Weather Intelligence for Smarter Energy Management

Seamlessly integrate real-time and forecasted weather data to enhance monitoring, analysis, and decision-making with environmental context.

- **14-day weather forecast** with daily granularity for comprehensive planning and analysis
- Rich meteorological data including **outdoor air temperature, humidity, solar irradiation, precipitation, wind speed**, and more in hourly resolution
- Native **integration with trends**, dashboards, and widgets for instant visualization
- **Advanced analytics** - Calculate weather-adjusted KPIs and performance metrics
- **Rule-based automation and equipment monitoring** - Trigger alerts and actions based on weather thresholds and detect inefficiencies



Building X Energy Manager - Essential

Optimize your energy consumption to improve sustainability KPIs for sites

Energy Transparency

Get a clear picture of consumption, costs, and emissions for sites, enabling smarter decisions and accountability.

Efficiency Control

Identify inefficiencies, manage peaks, and optimize loads in real time to reduce operating costs.

Reliable Data

Ensure accurate, trustworthy insights with automated error detection, corrections, and full transparency.

Actionable Insights

Turn complex energy data into clear dashboards anomaly notifications that guide faster, better decisions.



... value across industries and countries



Siemens Real Estate

Sweden
Real Estate Management

- 40% less food waste
- 20% savings in cleaning cost



SYK

Finland
University Facilities

- Reduce operational cost
- Increase energy efficiency
- Future proof buildings for 11,000+ students



Clouline Solutions

USA
System Integrator

- Tailored customer apps
- Cost and time effective solution delivery



Prodea Investments

Greece
R.E. Investment Company

- Create transparency on energy consumption
- Meet sustainability goals & better tenant service



Mobile Energietechnik

Germany
Service Provider

- Continuous service delivery thanks to efficient operations
- Prolonged asset value

Siemens Mission is to support your digital and sustainable transformation

Invested in your sustainability goals

€4 bn

Energy savings for customers

25+ yrs.

Offering energy and performance services

Infrastructure digitalization pioneers

3.2 m

Devices connected to Building X

150+

Digital applications and offerings



2024 SmartScore Accredited Solution

300

Global Locations

10k+

Specialist Service Technicians

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