SIEMENS

Data Sheet

Energy Manager

Building X



Energy Manager is a Building X offering that enables you to monitor, analyze and improve energy efficiency, save costs and optimize key energy performance indicators (KPIs) across your entire real estate portfolio — from individual sites and buildings to multi-site operations of any type or scale.

- Custom drill-down: Monitor energy use — from portfolio level down to individual floors, equipment, and data points.
- Flexible Dashboards: Build and share fully customizable dashboards with widgets and branding in minutes.
- Utility Tracking: Access granular consumption data for electricity, gas, water, and more across any site or equipment.
- Advanced Submetering: Drill down to floors, rooms, or assets to uncover hidden consumption patterns.
- Virtual Metering: Create formula-based virtual meters for tenant monitoring, department tracking, and custom analysis.
- Custom KPIs & Energy Rules: Define KPIs and automated rules to track performance and trigger alerts on anomalies or violations.
- AI Anomaly Detection: Machine learning flags unusual patterns instantly — act fast before inefficiencies escalate.
- Portfolio Intelligence: Benchmark and compare energy performance across all sites from a single centralized dashboard.

buildingx.siemens.com

Functions

Utility Tracking & Real-Time Energy Monitoring *(Essential, Standard)*

Access detailed, real-time consumption data for electricity, gas, water, and other media across your entire fleet — from site level down to individual equipment. Monitor systems' status, review historical trends, and pinpoint inefficiencies with precision to support both operational and sustainability goals at scale.

AI Anomaly Detection *(Essential, Standard)*

Leverage machine learning to automatically flag unusual energy patterns across meters and data points at every site. Receive alerts to address inefficiencies.

Trend Analysis & Data Point Drill-Down *(Essential, Standard)*

Drill down to individual data point level using trend lines, bar charts, area charts, stacking options, tables, heatmaps, gauge charts, correlation charts, time series tables, analysis charts, and 3D visualizations. Select data points hierarchically, configure chart-specific units and colors, combine multiple series types, and compare several metrics using up to four Y-axes. Integrate data from beyond conventional meters — including temperature, pressure, and occupancy sensors — for monitoring HVAC, lighting, and other building operations.

Submetering *(Essential, Standard)*

Monitor energy flows across every building in your fleet and drill down from site to floor, room, or individual asset level for detailed insights. Visualize and compare submeter data by location, tenant, usage type, department, or cost center — enabling accurate cost allocation, tenant monitoring, and targeted efficiency improvements across the portfolio.

Virtual Metering & Calculated Properties *(Essential, Standard)*

Build virtual meters and calculated properties using formula-based arithmetic, aggregations, time-based transformations, and Boolean/date-time operators such as weekday checks and date or time extraction. Formula validation helps ensure calculated outputs remain numeric. Support tenant monitoring, floor-level tracking, department monitoring, and equipment efficiency calculations — all reusable across dashboards, reports, and analytics in real time, across every site.

Scheduled Reports *(Essential, Standard)*

Automate energy consumption reports in HTML format to keep stakeholders informed. Enable on-demand ad-hoc export of any dashboard for instant sharing with relevant parties.

Energy Performance Indicators (EnPIs) & Energy Rules *(Essential, Standard)*

Create and track customized KPIs that reflect your operational reality across all sites. Organize KPIs and energy rules in categories, define custom rule logic including time delays, and use arithmetic, Boolean, and date-time operators in KPI and rule expressions. Detect peak demand overruns, water leakage, HVAC inefficiencies, photovoltaic output drops, budget overruns, and power factor anomalies with automatically triggered notifications.

Weather Intelligence *(Essential, Standard)*

Integrate historical and 14-day forecasted weather data — including outdoor temperature, humidity, solar irradiation, precipitation, and wind speed — directly into dashboards, trends, and analytics across all sites. Calculate weather-adjusted KPIs and trigger rule-based alerts based on environmental thresholds.

Event Management & Notifications *(Essential, Standard)*

Receive multi-channel notifications via in-app alerts and email for anomalies, energy rule violations, and equipment issues across your entire fleet. Centrally view, filter, prioritize, and resolve all events with full history tracking, and bulk management capabilities.

Correlation Analysis *(Essential, Standard)*

Pinpoint the relationships between energy consumption and critical operational variables — such as occupancy, weather, or production output — across your sites to prioritize targeted optimization efforts. Detect deviations in expected energy relationships that may signal equipment malfunctions, operational inefficiencies, or the impact of new initiatives.

Energy Market Integration *(Standard)*

Integrate European energy market data — including day-ahead, intraday auction, and continuous trading prices for electricity, gas, and carbon certificates — at 15-minute granularity. Select your relevant European bidding zone and visualize market data natively in dashboards and analytics.

Commanding *(Standard)*

Command eligible data points directly from the cloud where the connected system supports write access. Users can send point commands from Energy Manager to adjust operational values without switching to a local building management interface.

Power Quality Monitoring *(Standard)*

Monitor selected power quality values from connected electrical systems in Energy Manager. Users can analyze relevant electrical measurements such as voltage, current, frequency, power factor, and related quality indicators in dashboards and trends where the required data points are available from the connected source.

PV Monitoring *(Standard)*

Monitor photovoltaic system performance in Energy Manager where PV-related data points are available from the connected source. Users can track PV generation, compare expected and actual yield, analyze performance trends, and use next 48-hour yield forecasting to support operational planning and energy optimization.

Portfolio Intelligence *(Standard)*

Consolidate all building and site data centrally to monitor consumption, costs, and performance across your entire real estate portfolio or building fleet. Benchmark sites portfolio-wide, group by country, cost center, or site, create user-defined filters for portfolio views, and track aggregated energy spend with comparative analytics — giving decision-makers a single pane of glass across hundreds of locations.

Scalable Analytics Templates *(Standard)*

Create KPI and energy rule templates for any equipment type and roll out HVAC checks, benchmarks, or rate optimizations to your equipment in minutes — ensuring consistent monitoring standards and eliminating repetitive site-by-site configuration.

Regression Analysis *(Standard)*

Use advanced regression analysis to measure and verify energy savings from efficiency projects across sites, diagnose equipment faults by identifying deviations from predicted performance, and accurately normalize energy demand based on weather, occupancy, and production data.

Energy Manager Basic Functions *(Essential, Standard)*

Flexible Dashboard Creation

Create customizable dashboards from scratch using a rich library of widgets, custom diagrams, and real site images. Share standardized views across teams or tailor individual dashboards per location.

Custom Graphics & Diagrams

Upload and build custom graphics to track your systems visually. Monitor electrical systems with single-line diagrams, visualize energy flow and distribution with system and microgrid schematics, and bring live data points directly into your diagrams for deep performance insights.

Document Management

Store, organize, and access all building-related documents — from schematics and contracts to audit logs and maintenance records — directly alongside operational data for every site in your portfolio. Upload, download, and version files.

Data Quality Management

Automatically detect missing readings, sudden spikes, and sensor failures across all monitored data points at every site. Data quality checks come with data point-specific defaults, can be customized by users, support automatic issue detection, and contribute to an overall data quality score.

Power Monitoring

Get a comprehensive view of load performance across multiple time frames for your site(s). Pinpoint peak loads across buildings, floors, or systems, use load curves to uncover reduction opportunities, and generate heat maps to quickly identify heavy consumption periods.

AHU Monitoring

Monitor air handling unit operation using available data points such as temperatures, pressures, fan status, valve positions, damper positions, and operating modes. Use dashboards, trends, and rules to identify abnormal behavior, inefficient operation, and potential ventilation or comfort issues.

Weather Normalization

Normalize energy consumption using configurable Heating Degree Day and Cooling Degree Day calculations, including custom reference and balance point temperatures. Use normalized consumption values to compare periods more fairly and evaluate realized savings from efficiency measures.

Built-in Analytics

Tailor your monitoring with visualizations including Sankey diagrams, load curves, energy mix diagrams, and consumption charts. Navigate your building hierarchy effortlessly and track progress on efficiency goals through historical comparisons — at any level from individual asset to full portfolio.

Widget Data Export

Export the underlying data of individual dashboard widgets in XLSX or CSV format for external analysis, reporting, validation, or sharing.

Building X Platform *(Essential, Standard)*

Accounts Application

Ability to manage users with a role-based access control. New users can be invited to access the Cloud Service and given appropriate access rights via user groups. Users can log in with two-factor authentication and manage their user account themselves. Data can be logically grouped into partitions and given access via user groups.

Devices Application

Ability to manage Connected Devices compatible with the Cloud Service.

Data Setup Application

Ability to onboard data by adding meaning and structure to it. The data can be onboarded from multiple sources, such as Connected Devices, 3rd party cloud systems and files.

Data Hosting and Data Usage

Hosts and processes personal and non-personal data in data centers located in Europe. For information regarding processing of personal data and locations Customer may refer to the Data Privacy Terms: https://siemens.com/dpt

Ask Building X

Ability to ask questions in different languages about Building X technical information, utilizing GenAI.

Subscription

The subscription plan depends on the agreement between Customer and Siemens.

1) Default Subscription Plan if the customer purchases the subscription via the Siemens online store

	Energy Manager Essential	Energy Manager Standard
Functions		
Building X Platform	✓	✓
Energy Manager basic functions	✓	✓
Utility Tracking & Real-Time Energy Monitoring	✓	✓
AI anomaly detection	✓	✓
Trend Analysis & Data Point Drill-Down	✓	✓
Submetering	✓	✓
Virtual Metering & Calculated Properties	✓	✓
Scheduled Reports	✓	✓
Energy Performance Indicators (EnPIs) & Energy Rules	✓	✓
Weather Intelligence	✓	✓
Event Management & Notifications	✓	✓
Correlation Analysis	✓	✓
Energy Market Integration	✗	✓
Commanding	✗	✓
Power Quality Monitoring	✗	✓
PV Monitoring	✗	✓
Portfolio Intelligence	✗	✓
Scalable Analytics Templates	✗	✓
Regression Analysis	✗	✓
Terms		
Subscription metric	per Site per year (100 data points included, 1 device connection included)	
Subscription term	Annually, auto-renewal	
Billing term	Annually, payment in advance	
Upscale	Effective immediately, pro-rated billing	
Downscale/Cancellation	Effective with end of subscription term	
Connected Devices	To be purchased separately	
Permitted Users	Unlimited, Extended Use	
Additional Information	Site is either a campus as a grouping of buildings and outside spaces or an individual building at a location.	

	Energy Manager Data points - Add-on
Subscription metric	per 100 data points per year
Subscription term	Annually, auto-renewal
Billing term	Annually, payment in advance

	Energy Manager Data points - Add-on
Upscale	Effective immediately, pro-rated billing
Downscale/Cancellation	Effective with end of subscription term
Connected Devices	To be purchased separately
Permitted Users	Unlimited, Extended Use

The default subscription plan is the regular, scalable Offering for this Cloud Service. The subscription term is twelve (12) months with automatic renewal; the Cloud Service fee is paid in advance. The subscription plan can be upscaled at any time and Cloud Service fees for upscales are calculated on a pro-rated basis. The Customer can also scale down the Cloud Service effective with the end of the current subscription term. The subscription fee will be adjusted for the upcoming billing term. The Cloud Service can be cancelled any time, effective with the end of the current subscription term.

The subscription plan can be purchased for the Energy Manager per Site, each including one connection to one Connected Device and 100 data points for free use. Connecting additional Devices requires an additional data point package for each Connected Device. Similar, additional data point packages, each comprising 100 data points, can be purchased additionally based on project requirements, at the start or at a later point when needed. Note that for Energy Manager built in software connectors, no additional data point packages are required. For details, please contact your local sales representative.

A data point is defined as a discrete unit of information ingested typically from a connected device or via API. Derived and calculated KPIs, properties are not counted as data points. Energy Manager is not restricted to meter and consumption related data points. Customers can bring any of their data points like temperature or occupancy data for a holistic energy and efficiency analysis benefitting of Energy Manager’s features.

Customer may purchase required Connected Devices separately.

Extended Use entitles Customer to authorize its Affiliates and third parties to access and use the Cloud Services in accordance with the rights set out in the Terms and Conditions.

2) Custom Subscription Plan

Any subscriptions that are not purchased via a Siemens online store are Custom Subscription Plans. Under a Custom Subscription Plan the details regarding functions, subscription metric, term, billing, up- and downscaling, Connected Devices as well as Permitted Users are set out in the agreement between the Customer and Siemens.

Prerequisites

Supported Connected Devices

The Cloud Service is currently compatible with commercially available Connected Devices. Connected Devices enable the Cloud Service to exchange data with the technical building infrastructure. A description of the available Connected Devices is provided below.

	List of Supported Connected Devices
SIEMENS: Connect X200	The Connect X200 edge gateway is powered with DC 24V or AC 24V and may require an enclosure. The Connect X200 includes embedded software (for example, firmware and factory installed applications collectively referenced herein as Software) to supply building data to this Cloud Service.
SIEMENS: Connect X500	The Connect X500 edge gateway is powered with DC 24V and may require an enclosure. The Connect X500 includes embedded software (for example, firmware and factory installed applications collectively referenced herein as Software) to supply building data to this Cloud Service.
SIEMENS: Connect Software	Connect Software edge gateway is running on Windows 10 or Windows 11 Hyper-V and requires computer hardware. Connect Software includes multiple software applications collectively referenced herein as Software to supply building equipment data to this Cloud Service.

	List of Supported Connected Devices
SIEMENS: Desigo CC	Desigo CC software product is running on Windows computer hardware. The supported software version is Desigo CC V7 or higher. Desigo CC includes multiple software extensions collectively referenced herein as Software to supply building data to this Cloud Service.
SIEMENS: Desigo PXC 4/5/7	Desigo PXC4/5/7 hardware is powered with AC 24V. The supported hardware devices for this Cloud Service are PXC4-2.E16S, PXC4-2.E16, PXC5.E24, PXC7.E400S/M/L and PXC5.E003 with firmware version V02.21.194.25 or higher.
SIEMENS: Desigo Optic F200	Desigo Optic hosted on CFG3.F200 hardware is powered with AC 24V. The supported software version is V5.1.7.x or higher to connect to this Cloud Service.
SIEMENS: Connect Box	Connect Box hardware is powered with DC 24 V. Connect Box includes Software and BSP version V5.x.x or higher to connect to this Cloud Service. The building management data hosted on the hardware can currently only be accessed in read-only mode.
SIEMENS: Desigo SLX (Niagara Framework)	Desigo SLX / Niagara Framework® running as Supervisor on a PC or JACE® is supported for this Cloud Service. The supported Niagara versions are 4.14 and 4.15. The Building X Connector for Niagara™ must be deployed on the Niagara Framework® to supply building data to this Cloud Service. The Tridium EULA is applicable, see https://www.tridium.com/us/en/eula. Niagara FIPS mode and web proxy configuration are not supported.

To use the Cloud Service, a Connected Device must be installed on site, fully operational and connected to the Internet. The Customer is responsible for the provision of the Connected Device on site and all associated costs for the provision of the Cloud Service in accordance with the associated documentation for the Connected Device.

Supported Third-Party Software Connectivity

The Cloud Service is currently compatible with commercially available Third-Party Software. Third-Party Software Connectivity enable the Cloud Service to exchange data with Third-Party Software. A description of the available Third-Party Software connectivity is provided below.

	List of Supported Third-Party Software
Software Specific connectors	• Siemens Navigator • GRDF • ENEDIS • Smart Impulse • Weather Data Providers • European Energy Market Data Providers

The customer is responsible for the Third-Party Software at the site and all associated costs for the provision of the cloud service in accordance with the associated documentation for the Third-Party Software.

Web browser and Viewing Devices

Chrome is recommended to use the Cloud Service, but other standard browsers might also serve this function. Screen resolution of 1920x1080 pixels or higher is recommended for best user experience.

Internet Connection

The bandwidth of Customer’s internet connection determines the performance of the Cloud Service.

Ordering

To order a subscription plan and connected devices, Customer must request a quote from its Siemens sales representative.

Product Documentation

1) Product Documentation under a Standard Subscription Plan

General Contractual Documents	Links
Building X - Energy Manager Data Sheet	www.siemens.com/buildingx/data-sheet/energy-manager
Supplemental Terms for Buildings	www.siemens.com/buildingx/data-sheet/supplemental-terms
General Software Terms and Cloud Supplemental Terms	https://www.siemens.com/si/cloud/terms
Base Terms International	https://www.siemens.com/si/cloud/terms
Siemens Acceptable Use Policy	https://www.siemens.com/si/cloud/terms
Minimum Terms	www.siemens.com/buildingx/data-sheet/minimum-terms
Data Privacy Terms	https://www.siemens.com/dpt/si
Data Privacy Terms Annexes Building X	https://www.siemens.com/dpt/si
EU Data Act	https://www.siemens.com/buildingx/terms

2) Product Documentation under a Custom Subscription Plan

The contractual documents and the Product Documentation are set out in Siemens' offer to the Customer.

3) Technical Documents

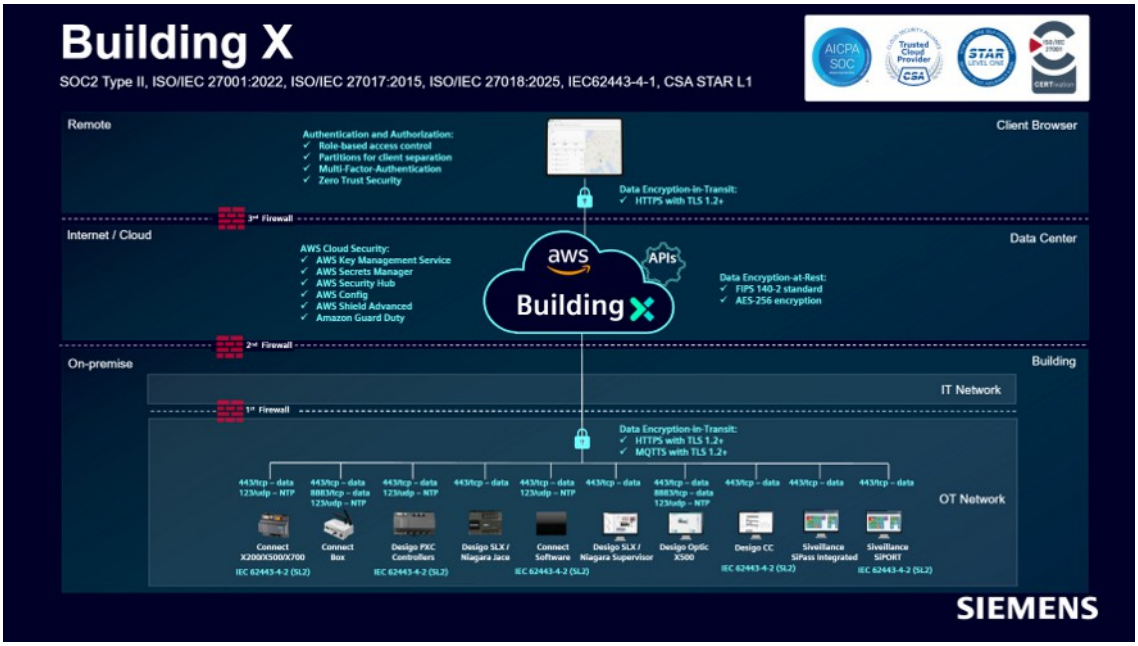
Technical Documentation	Link
Building X - Online help	www.siemens.com/buildingx/sid

4) Compliance

Cybersecurity	Link
Cyber Security Alliance - STAR Level 1	https://cloudsecurityalliance.org/star/registry/siemens-ag/services/building-x
IEC 62443-4-1	https://www.siemens.com/en-us/system-certificates/si-b/
ISO/IEC 27001:2022	https://www.siemens.com/en-us/system-certificates/si-b/
ISO/IEC 27017:2015	https://www.siemens.com/en-us/system-certificates/si-b/
ISO/IEC 27018:2025	https://www.siemens.com/en-us/system-certificates/si-b/
SOC 2 Type II Report	Report available on request
SOC 3 Report	https://www.siemens.com/en-us/system-certificates/si-b/

Others	Link
ISO 50001	https://www.siemens.com/en-us/system-certificates/si-b/

Topology



The topology shows the superset of possibilities for connecting data to Building X. The options available for this Digital Service can be found in the list of supported connected devices and third-party software connectivity.

Data communication between the Connected Devices on-premises and the Cloud Service requires internet connectivity (to be provided by the Customer).

Specific Terms

High-Risk Use

Customer acknowledges and agrees that:

a) the Offerings are not designed to be used for the operation of or within a High-Risk System if the functioning of the High-Risk System is dependent on the proper functioning of the Offerings; and
b) the outcome from any processing of data through the use of the Offerings is beyond Siemens' control.

Artificial Intelligence

This Offering is based on Artificial Intelligence ("AI") technology, i.e., machine learning is used to forecast energy consumption and detect anomalies in energy consumption patterns. Generative artificial intelligence ("GenAI") is being used to improve the configuration by providing smart mapping proposals for data points and equipment as well as creating custom functional and applications models (ThingModels). The Offering may be accompanied by additional GenAI services such as Ask BX, including chatbots and assistants at a price or free of charge. Do not upload confidential data, personal data or legally impermissible data to the AI components of the Offering. AI extracted information may not be entirely accurate. Always verify the information for accuracy.

For detailed terms, refer to Siemens' Artificial Intelligence Terms of Use | Siemens Software. Additionally third party terms model card (Claude 3 family), model card (Claude Haiku 4.5), model card (Claude Sonnet 4 and Opus 4), service terms, and usage policy apply.

Service Level Agreement

Siemens shall use commercially reasonable efforts to make the Cloud Services available for a yearly uptime percentage of ninety-eight percent (98%).

Except for:

a) Planned downtime, agreed downtime, routine and emergency maintenance,
b) Cyberattacks,
c) the public, third party and/or customer's internet and communications networks,
d) data, software, hardware, telecommunications, infrastructure, power, build-packs or networking equipment not provided by Siemens,
e) Customers and Users negligence or failure in using the Cloud Service and/or in not following the instructions of published documentation,
f) system configurations and platforms not supported by Siemens,
g) system administrations, action, commands and file transfers of Customer or User,
h) modifications or alterations not made by Siemens,
i) unauthorized access via Customer's credentials and/or
j) any other failure outside of Siemens reasonable control.

Customer Support

Siemens offers helpdesk support. Customer may contact its local Siemens representative for support requests. Customers can also submit a support request online: https://www.siemens.com/support-request.

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