



PRODUCT SHEET

Electrification X

Sustainability/Energy Management

Energy Performance Monitoring and Analyzing
[siemens.com/electrificationx](https://www.siemens.com/electrificationx)

SIEMENS

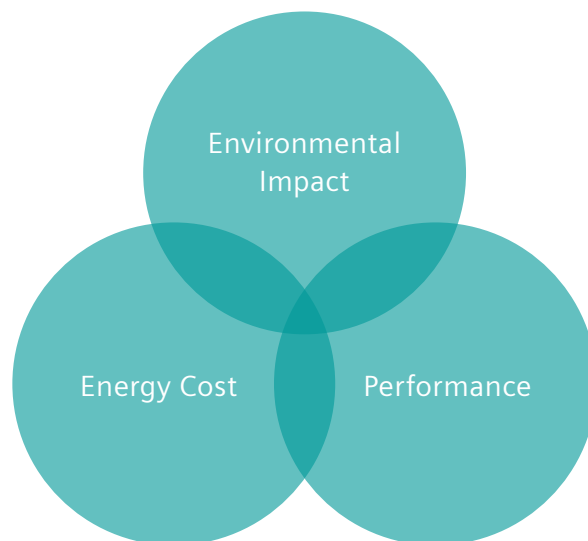
Contents

| | | |
|---|--|-----------|
| 1 | | |
| Overview | | 3 |
| 2 | | |
| Features | | 4 |
| Feature Energy Monitoring | | 5 |
| Energy Monitoring - Energy Overview | | 5 |
| Energy Monitoring - Cost Analysis | | 5 |
| Energy Monitoring - Saving Potential Identification | | 5 |
| Feature Advanced Energy Analytics | | 6 |
| Advanced Energy Analytics - Customizable Energy Reports | | 6 |
| Advanced Energy Analytics - Project Tracking | | 6 |
| Advanced Energy Analytics - Energy Target Setting | | 6 |
| Advanced Energy Analytics - Energy Analysis | | 6 |
| Feature Asset Extension | | 7 |
| Asset Extension - Asset Data Transparency | | 8 |
| 3 | | |
| Subscription | | 9 |
| 4 | | |
| Prerequisites | | 10 |
| 5 | | |
| Ordering | | 11 |
| 6 | | |
| Product documentation | | 12 |
| 7 | | |
| Topology | | 13 |
| 8 | | |
| Customer support | | 14 |

Overview

The incessant growth in electricity demand, increased share of renewables, electrification, infrastructure aging and IoT-zation are key challenges for smooth energy transition.

For continuous improvement, a strategic approach is required to maintain a balance between production performance, cost and environmental impact. This demands transparency on all aforementioned factors as the first step.



Improve energy efficiency – proactive approach

Sustainability/Energy Management in Electrification X addresses a wide range of audience from management to shop floor level. From a global energy performance overview to device level data transparency, you can monitor, track, improve and report all key performance indicators.

The module delivers a comprehensive summary of your facility which helps identify potential hotspots for improvement. At the same time, you can accelerate your response to anomalies and variance with the help of notifications.

The monitoring solution offers energy performance evaluation against other business KPIs to further support energy strategy, operation, maintenance and decarbonization roadmap.

Features

The Feature Set Electrification X Sustainability/Energy Management can be purchased on a modular subscription-based model composed by a minimum subscription package:

Electrification X Base Package (once per Electrification X tenant)

+

Energy Monitoring (once per location, default 5 assets per location)

and optional

Advanced Energy Analytics (once per location)

and optional

Asset Extension (once per additional asset)

Electrification X Sustainability/Energy Management is designed to fit to customers' requirements and monitoring strategies.

Feature

Energy Monitoring

Energy Monitoring - Energy Overview

The energy overview allows energy performance overview of all industrial locations. The global energy performance dashboard is designed to reflect cumulative results for energy, cost, carbon emissions and green electricity contribution. Other measuring variable for water and heat can also be displayed. The geographical location illustrates energy KPI performance marked with color coding. This helps the user with quick visualization of under-performing sites. In addition to EnPIs, all scope emissions are displayed along with source mix information. Upon site selection from map view, the user is directed to individual site energy performance dashboard.

All events/notification related to sustainability can be visualized in main geographical location view.

Energy Monitoring - Cost Analysis

The cost analysis feature provides cost overview with respect to source mix, both renewable and non-renewable. Also, cost allocation is made easy with energy spent per cost center visualization.

To report variance in energy cost, a comparative analysis can be performed for customized time range. The analysis facilitates the identification of cost optimization measures.

A detailed feeder analysis, as the name suggests, allows a comprehensive insight into energy consumption trends for selected feeder and provides the possibility for comparative study and energy benchmarking. Target setting and peak identification helps avoid penalties.

Energy Monitoring - Saving Potential Identification

eSankey provides transparency on energy flow from generation to consumption. Losses are identified at each stage of the process flow.

The interactive display allows you to trace back the source of each consumer. This functionality facilitates better understanding of energy network.

Feature

Advanced Energy Analytics

Advanced Energy Analytics - Customizable Energy Reports

Customizable reports with user-defined frequency ensure timely and relevant insights to keep stakeholders informed and aligned.

The document repository, centralizing energy and project-related documents, assist in enhancing accessibility, security, collaboration and reduced paper use. Easy to access documents accelerate reporting, decision-making and enhance operational efficiency while ensuring business continuity.

Advanced Energy Analytics - Project Tracking

Project tracking facilitates PDCA cycle with real-time monitoring of energy initiatives in terms of budget, progress and timelines, thus ensuring efficient implementation of projects and realization of savings. The project summary stems to further add value in project prioritization, budget planning, decision-making, optimized resource allocation and standardization of best practices.

Advanced Energy Analytics - Energy Target Setting

Target setting supports the realization of company's vision regarding decarbonization and energy efficiency. Various categories allow targets to be defined for energy optimization, cost reduction, emission reduction and performance enhancement, enabling customizable roadmap tracker.

Additionally, a comprehensive target setting in terms of main and sub targets encourages efficient tracking and reporting of interim targets, where any gap in the realization of end target can be addressed in a structured and timely manner.

Advanced Energy Analytics - Energy Analysis

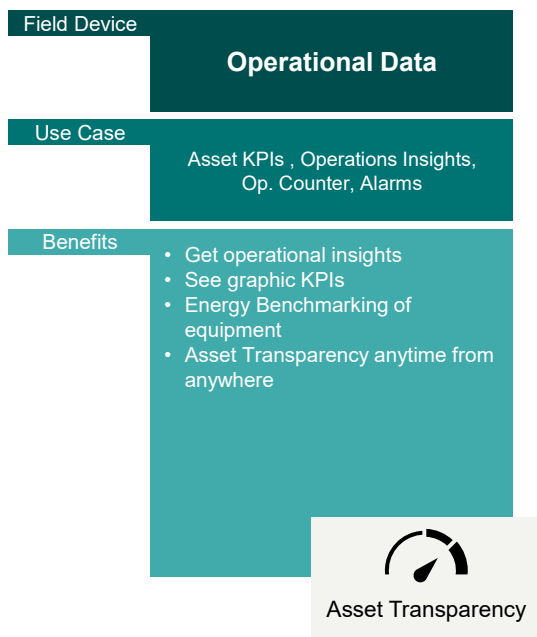
Regression Analysis facilitates data-driven forecasting, decision-making, and process optimization. By quantifying relationships between variables, it enables predictive insights, cost efficiency, and enhanced organizational performance.

Feature

Asset Extension

The Asset Extension package includes:

- Geographic view of asset localization and a color code indicating the Asset Transparency Index, alarms, and local time.
- Local temperature conditions, weather forecast and a list of existing assets with corresponding status and Asset Transparency Index.
- Aggregated asset specific view with information on energy budget usage, operational uptime, Asset Transparency Index and CO2 emissions.
- Historical power consumption and asset utilization (based on rated capacity) for every asset.
- List of feeders of the assets with individual alarm visualization, status and Asset Transparency Index.
- Deep dive into individual feeder displaying real-time operational data (Operations and Measurements) and the status of the different components (e.g. ON, OFF) as well as operational counter KPIs of the components.



Asset Extension - Asset Data Transparency

The asset data transparency allows the monitoring of status and energy data for connected assets. Asset information, cost center allocation, energy data logs and notification against asset are all represented in the asset view. Furthermore, load profiles, peak loads and heat maps facilitate load management and source mix optimization. Electrification X-Sustainability/Energy Management utilizes active energy measurements as a core component of its computational framework.

All related KPIs are established, and the selection of time period is customized in order to generate desired energy log.

Subscription

| Standard subscription plan | Electrification X - Sustainability/Energy Management |
|----------------------------|---|
| Functions | All |
| Subscription metric | <ul style="list-style-type: none"> • Feature set subscription per month • Energy Monitoring base package per month (Unit: Location) • Advance Energy Analytics package per month (Unit: Location) • Asset Extension package per month (Unit: Asset) |
| 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 |

The Electrification X – Sustainability/Energy Management feature set 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 effectively at 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, effectively with the end of the current subscription term.

The subscription plan can be purchased in packages per industrial location and per asset connected. The subscription plan assumes an industrial location is referring to one unique postal address or geographical coordinates.

Extended Use entitles the 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.

Prerequisites

Electrification X Tenant

The Electrification feature set is operated on an Electrification X Tenant. Therefore, a tenant with an Electrification X Base Package is required. The Electrification X Base Package has a minimum subscription term of 12 months and must be purchased together with the first Asset Transparency package, if not otherwise already available and in operation.

Supported connected devices

The cloud service is currently compatible with commercially available Connected Devices from Siemens. A description of the available Connected Devices is provided below.

A connected device must be purchased and installed on premise at a site specified by the customer as agreed between the customer and Siemens to use the cloud service. The customer is responsible for installing the connected device at the site and any associated costs to perform said cloud service in accordance with related documentation for the connected device.

List of supported connected devices: SICAM A8000 Gateway

For order information, customer may contact its local sales representative.

Web browser and viewing devices

Google Chrome and Microsoft Edge browsers have been tested and are recommended to be used to access the cloud service. Other modern standard web browsers will likely be compatible. A screen resolution of 1920 x 1080 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

Ordering process for the subscription

To order the cloud service for the first time, customer must request a quote from its Siemens sales representative. Depending on the offering either with services, then customer will receive a link to his tenant, or without services, then the Customer will receive a link to the shopping cart. In this case Customer needs to (i) choose the payment options and (ii) accept the Terms and Conditions to start using the Cloud Service. The "Terms and Conditions" consist of the "Supplemental Terms Electrification & Automation", the Base Terms and the General Software and Cloud Supplemental Terms, the Acceptable Use Policy, the Siemens Data Processing Terms, this Product and Service Data Sheet and any other Supplemental Terms which may be referenced in either of the mentioned documents. Customer may upgrade, downgrade, and cancel the cloud services directly in the Subscription Manager store <https://subscribe.siemens.com>.

Ordering connected devices

To order connected devices the customer may request a quote from its Siemens sales representative.

Connected device

SIEMENS: SICAM A8000

Ordering

For order information, customers may contact their local sales representative.

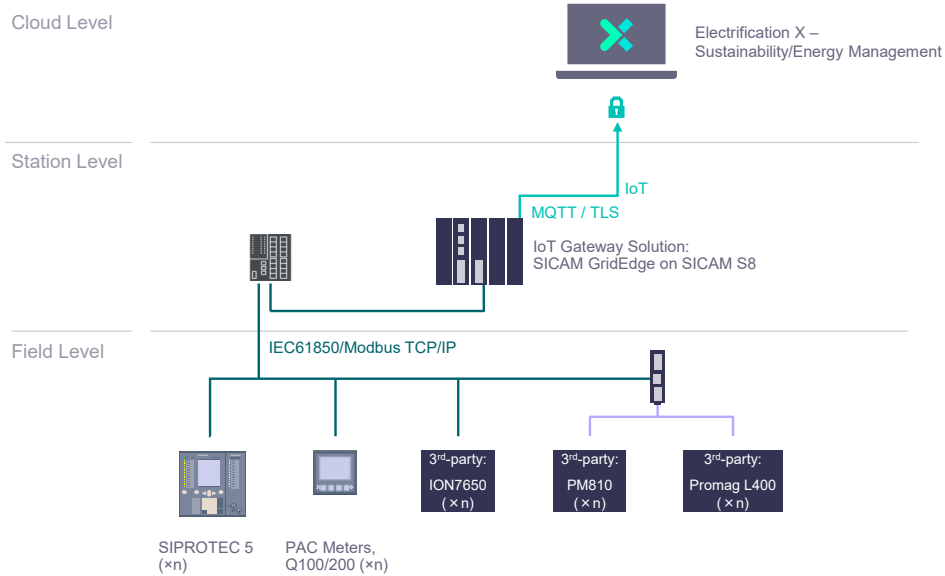
Product documentation

| Technical documents | Document ID | Document ID German | Document ID English |
|---|-------------|----------------------|----------------------|
| Building X – Accounts User Guide | A6V12050070 | | |
| Electrification X – Base Package User Manual | | E50417-H7500-C200-A6 | E50417-H7540-C200-A6 |
| Electrification X – Sustainability/Energy Management User Manual | | E50417-H7500-C205-A4 | E50417-H7540-C205-A4 |
| Electrification X – Engineering Guide | | E50417-H7500-C203-A6 | E50417-H7540-C203-A6 |
| Electrification X – Security Manual | | E50417-H7500-C204-A6 | E50417-H7540-C204-A6 |
| Electrification X – Protocols Manual | | E50417-L7500-C200-A6 | E50417-L7540-C200-A6 |

[↗ Technical documents can be downloaded here](#)

Topology

End-to-end cybersecurity



Data communication between the connected devices on premise and the cloud service requires internet connectivity (to be provided by the Customer).

Key benefits



Suitable for new (green-field) as well as existing (brownfield) projects



Detailed energy performance overview on global scale as well as individual site



Enables saving potential identification and encourages continuous improvement

Customer support

Siemens offers helpdesk support.

Customer may contact its local Siemens representative for support requests.

<https://isp.portal.siemens.com/>

Email: support.ea.si@siemens.com

Germany / Austria / United Kingdom Phone: +49 9131 1743072

China Phone: +86 400 150 6060

Brazil Phone: +55 0800 011 9484

India Phone: +91 1 800 266 7480

Published by
Siemens AG
Smart Infrastructure
Electrification & Automation
Mozartstrasse 31c
91052 Erlangen, Germany

For the U.S.
published by
Siemens Industry Inc.
3617 Parkway Lane
Peachtree Corners, GA 30092
United States

© Siemens 2026

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.