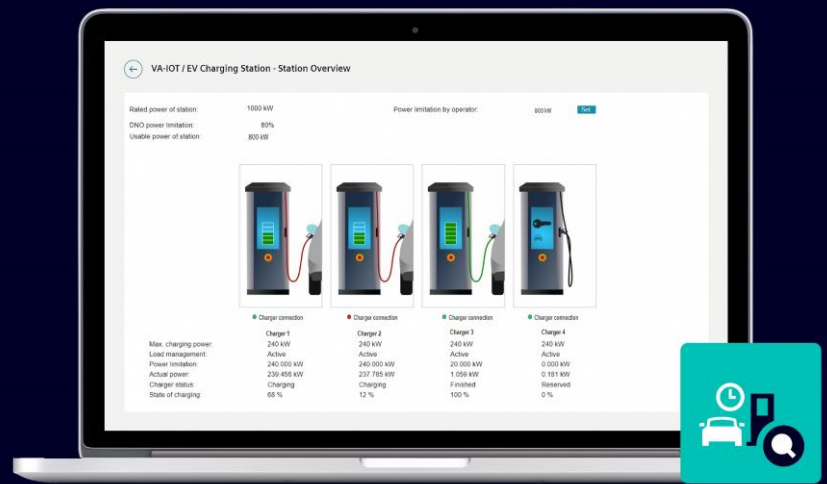


Load Management

Charging infrastructure under control



Dynamic Load Management of charging stations

More e-vehicles on the streets are making increased demands for the charging infrastructure and the upstream distribution networks. Because the more charging stations are connected to a location, the higher the risk of network overload and expensive peak loads. With Electrification X - Load Management you can easily avoid this.

Load Management offers utilization analysis with insights into the use of feed-in and charging infrastructure as a good basis for making necessary strategic decisions.

Improved availability due to swift incidence handling

Load Management shows the operator and service crew the location of incidents or faults in a matter of seconds. This happens simultaneously in the head office and on any registered mobile device. If necessary, on-site or by remote command, problems can be solved, and the availability of the charging infrastructure can be quickly restored.

However, it is even better to counteract any disruptions in advance. With the comprehensive monitoring of the utilization data, Electrification X – Load Management evaluates the operating status of the charging infrastructure. At the same time, Electrification X – Load Management shows and notifies on system overloads and is a valuable basis for the procurement or the actual utilization of the charging infrastructure from an electrical point of view.

Top-notch cybersecurity

Highest priority for Electrification X is authentication and encryption, so your data are safe in motion and in rest. Thereby, with a Certificate Authority in the cloud and X.509 certificates per device it is assured that only authorized devices are onboard.

Automatic onboarding – effortless Engineering

Once the device is authenticated the asset info and signals of the station are sent to Electrification X automatically. No more editing errors or false assignments during engineering, but after a moment you'll have everything at your fingertips.

The flexibility of Electrification X - Load Management allows you to create your own operational graphics in combination with the automated onboarding of assets.

That's the way to combine secure automated onboarding with flexibility to **effortless configuration**.

Your benefit

Electrification X – Load Management is a browser-based application that collects status of chargers and measured data of charging stations, sends real-time information for fast incidence handling, and visualizes monitoring data for an efficient asset management.



Fast fault notification increases availability and supports higher uptime



Charging station monitoring increases their availability and improves service quality



Evaluation of charging profiles provides transparency about grid utilization



Load Management reduces maintenance costs and minimizes investments

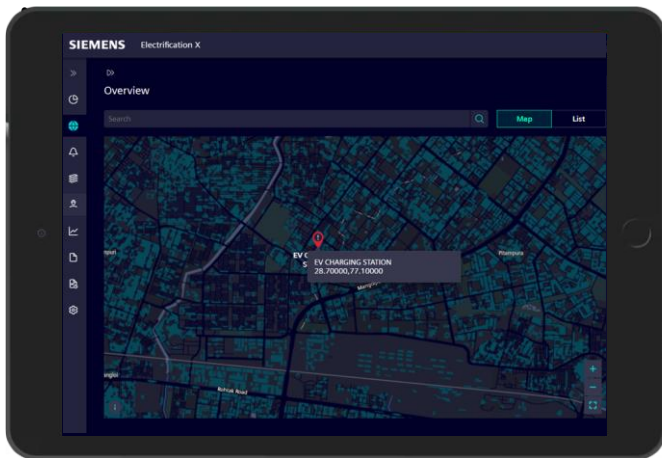


Electrification X, in combination with SICAM A8000, provides cybersecurity at the highest level

Functions at a glance

General

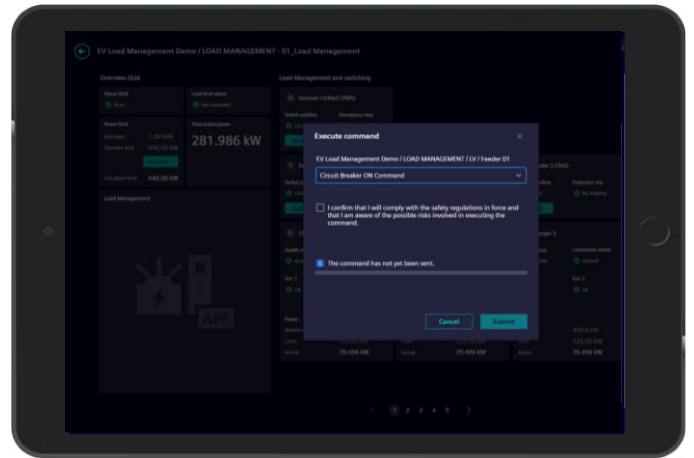
- Multiple views available: Map overview, asset view, charging station view, measurement data view
- Drill-down option for each event
- Notifications via e-mail, push notifications



Electrification X – Map view

Increase availability

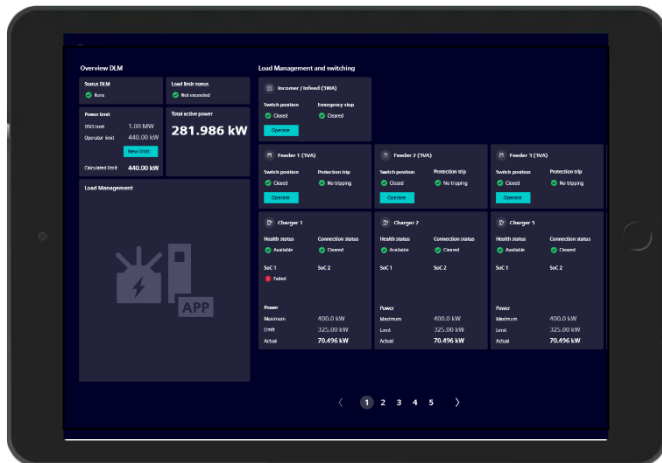
- Immediate alarming in case of disorder
- Fault visualization with geographic information
- Identification of tripped breaker devices in the station view
- Remote control of the switchgear for troubleshooting



Load Management – Operation graphics

Comprehensive information in every situation

- Status overview of the charging infrastructure
- See power restraints from Distribution System Operators and how dynamic load management is acting on it
- Supervision status and current consumption per charger



Load Management – Charging infrastructure

Analytics for analysis and planning

- Notification on peak loads and overload configurable
- Load profiles in comprehensions diagrams e.g., head map to identify pattern
- Display of relevant KPIs that help in analyzing utilization e.g., Peak power, P99 power usage / throttled sessions



Load Management – Load profile

Published by
Siemens AG

Smart Infrastructure
Electrification & Automation
Mozartstr. 31C
91052 Erlangen, Germany

For more information, please contact Customer Support:
[siemens.com/energy-automation-support-contact](https://www.siemens.com/energy-automation-support-contact)

For the U.S. published by
Siemens Industry Inc.

3617 Parkway Lane
Peachtree Corners, GA 30092
United States