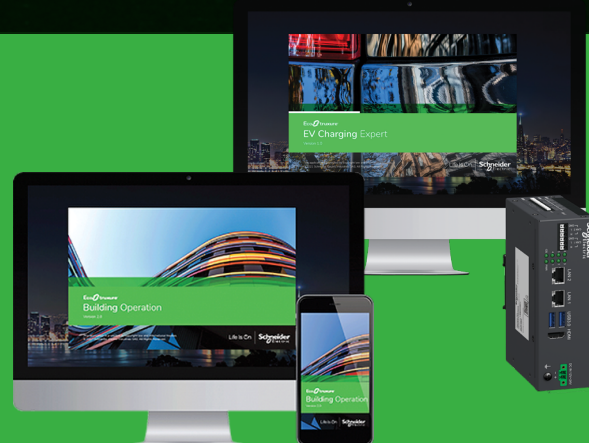




Seamless system integration for EV charging management

EcoStruxure™ EV Charging Expert integrated
into EcoStruxure™ Building Operation



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Schneider
Electric™

Advantages of integrating EcoStruxure™ EV Charging Expert into EcoStruxure™ Building Operation

A single interface that integrates EV loads to manage the entire building ecosystem at once: HVAC, lighting, power, fire safety, access control, and EV infrastructure.



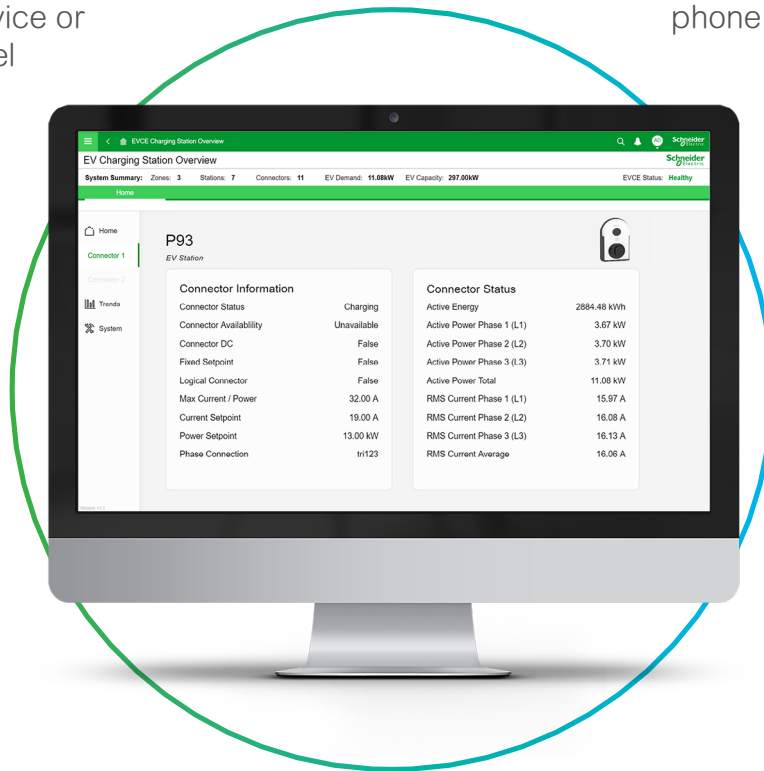
Highly configurable tool for energy optimization, cost efficiency, and building operation reporting, including EV usage



Responsive interface available on PC, tablet or phone that enables remote control



Customizable dashboards for real-time visibility and history at the device or building level



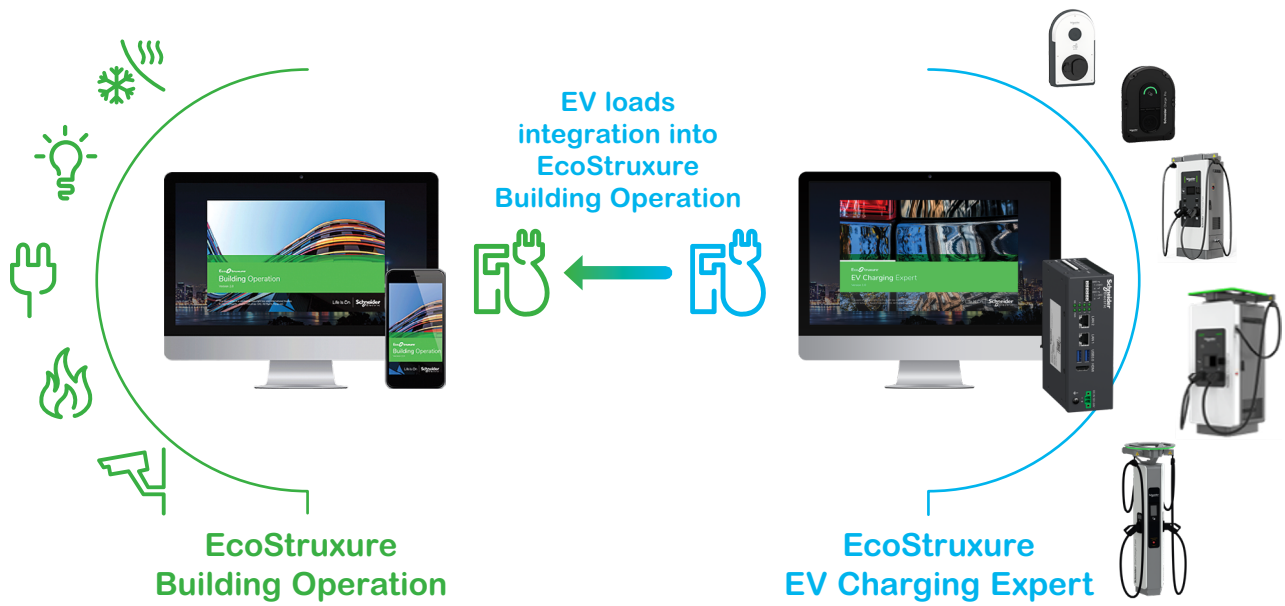
Static or dynamic allocation of the site energy to the EV chargers



Integration of on-site solar generation



Charging prioritization rules (time and power) and user management



Analyze the energy consumed by the building systems including the EV infrastructure.

Create reports on the building's energy consumption that includes zone reports from EcoStruxure EV Charging Expert (based on meter data).

Monitor how the charging system affects the overall buildings' power quality (based on meter data).

Track the current/power demand of the building including chargers.

Optimize energy usage with adaptive charging power allocation across different sites, according to load consumption and PV production.

Manage building access and EV driver access—private and public.



Maximize the uptime of your facility by receiving notifications when issues occur, either HVAC, other building features or EV systems.

Conduct diagnostics on individual chargers when issues arise and set available/unavailable charger status.

Regulate charging sessions between users in case of reduced power.

Monitor charging infrastructure to enhance installation uptime and provide EV driver support.

Access EV session information on energy usage in kWh, charging time, and historical data.

Getting the most out of EcoStruxure:

EcoStruxure from Schneider Electric is an open, interoperable, and IoT-enabled platform designed to deliver enhanced reliability, efficiency, sustainability, and connectivity across energy, automation, and building systems. It integrates connected products, edge control, apps, analytics, and services to provide real-time insights and optimized performance for industries, buildings, data centers, and infrastructure. Both EcoStruxure Building Operation and EcoStruxure EV Charging Expert are based on this Schneider Electric state of the art architecture.

What is EcoStruxure Building Operation?

EcoStruxure Building Operation is a BMS that optimizes energy efficiency to meet the coming demand for net-zero carbon emissions. It facilitates data exchange and analysis from both Schneider Electric and third-party systems, including HVAC, power, access and fire detection systems, lighting and blinds, microgrids, renewable energy resources, and more—all in a single view.

EcoStruxure Building Operation—Essential:

- HVAC automation and control
- Lighting and blinds automation and control
- Alarm and event management
- Scheduling and reporting
- Remote access and control via WebStation UI
- Integration capabilities—BACnet, Modbus
- Dashboards
- Customizable graphics
- Cybersecurity
- Semantic tagging

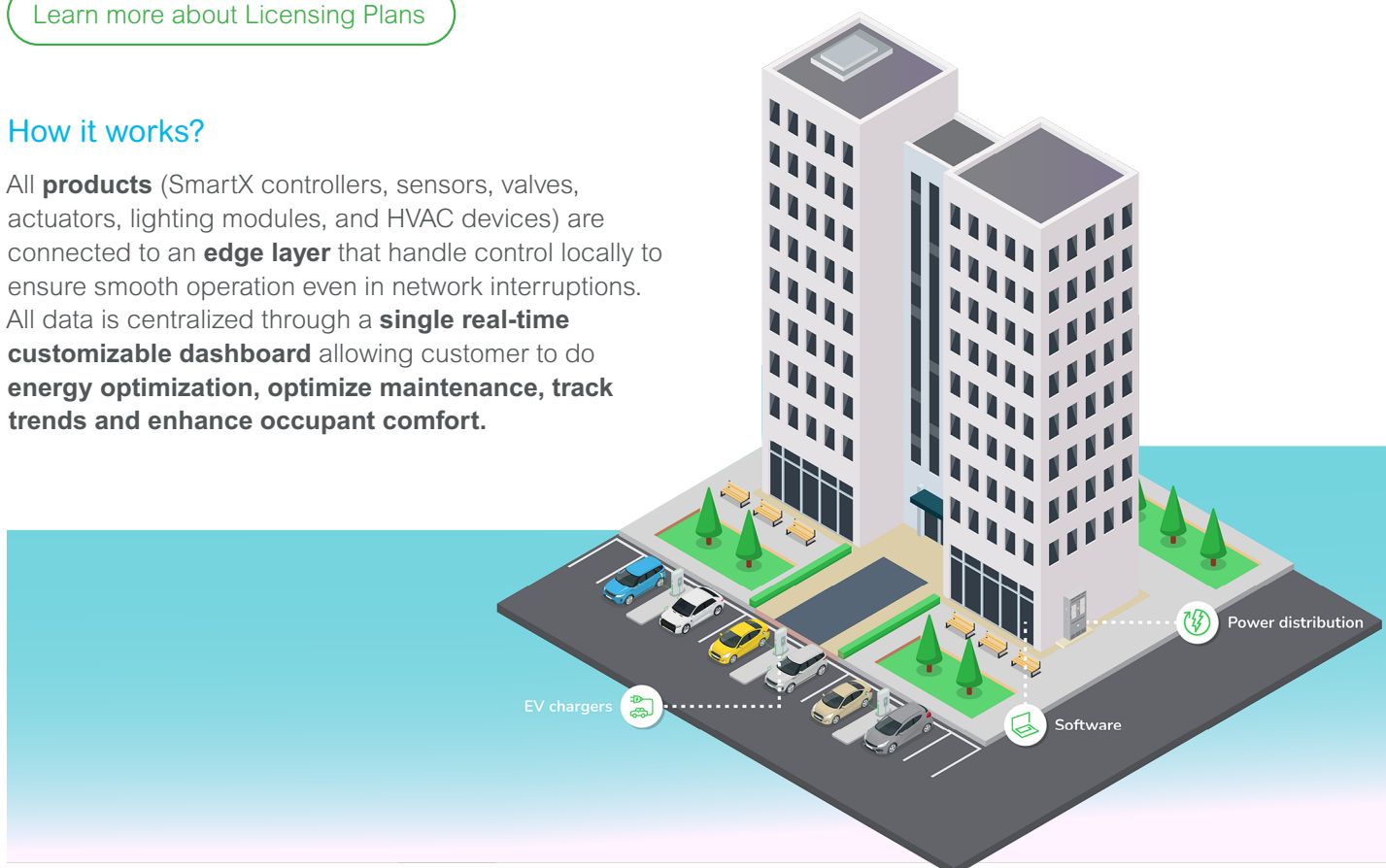


In addition, EcoStruxure Building Operation—Advance or Advance Plus, offer tailored capabilities to meet the specific needs of each customer, such as: meter management, zoning, additional integrations and functionality for highly regulated facilities.

[Learn more about Licensing Plans](#)

How it works?

All **products** (SmartX controllers, sensors, valves, actuators, lighting modules, and HVAC devices) are connected to an **edge layer** that handle control locally to ensure smooth operation even in network interruptions. All data is centralized through a **single real-time customizable dashboard** allowing customer to do **energy optimization, optimize maintenance, track trends and enhance occupant comfort.**



What is EcoStruxure EV Charging Expert?

EcoStruxure EV Charging Expert is a system that monitors, controls, and optimizes EV charging capacity based on power availability, peak demand, and tariffs. It helps building owners avoid extra costs, optimize their EV infrastructure efficiency, and enhance service continuity by adapting to each building's energy contract and power constraints.

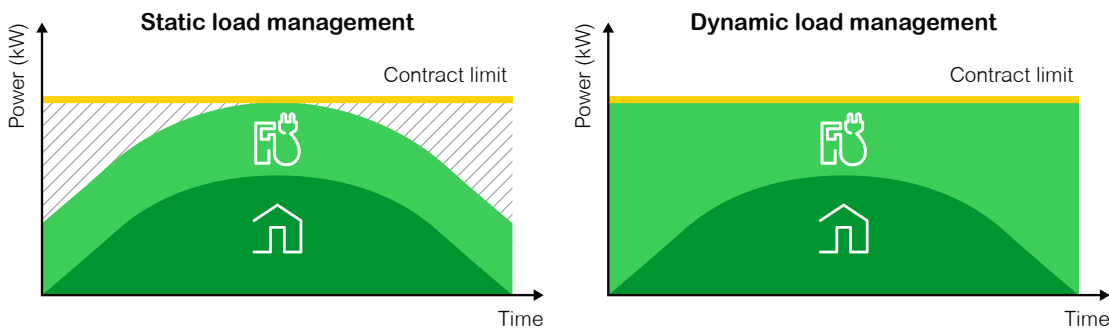
EcoStruxure EV Charging Expert can manage:

- Support for up to 250 Schneider Charge Pro, EVlink Pro AC, EVlink Pro DC, DC Schneider StarCharge Fast, and legacy Schneider Electric's chargers on a single controller
- Dynamic or static loads
- 20 zones and 4 zone levels
- PV production
- Identification
- User prioritization

[Learn more](#)



EcoStruxure EV Charging Expert limits the impact of EV charging infrastructure implementation on the electrical installation by using static or dynamic energy management principles.



It manages the available energy with load reduction, load shedding, and integration of PV production.

To manage charging sessions simultaneously, energy distribution can be based on:

Amount of energy already consumed

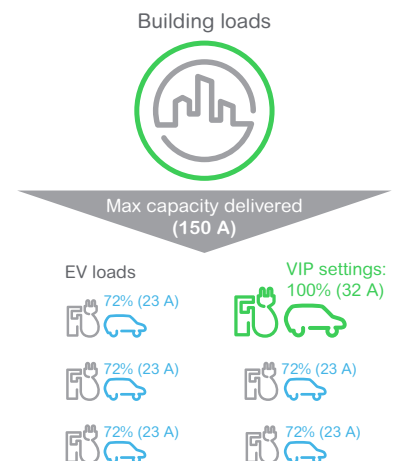
The system pauses charging for vehicles that have obtained the highest amount of kWh, favoring recently arrived vehicles.

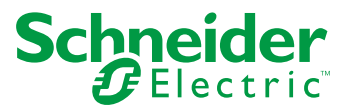
Connection time

The system pauses charging for vehicles that have been charged the longest, favoring the most recent arrivals. In both cases, the system rechecks and updates the situation every 15 minutes.

PV production

EcoStruxure EV Charging Expert can integrate PV production into the overall energy mix or use PV exclusively to charge EVs.





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