

SUSTAINABLE

Powering homes with greener energy

E.ON – Norrköping, Sweden

How EcoStruxure™ for Electricity Companies is helping
E.ON build a more sustainable future for Sweden.

se.com/sf6free-eon

Life Is On

Schneider
Electric



Commitment to sustainability

E.ON manages the largest energy distribution network in Sweden. Around 90% of its customers are households, 10% are business consumers.

The company is committed to constantly improving the level of service for its customers, minimizing the number of network interruptions, and ensuring a reliable, continuous power supply.

Another key focus of E.ON is to make energy distribution more environmentally friendly, while maintaining the highest efficiency and reliability. The company's sustainability objectives include becoming fossil fuel-free by 2025 and cutting the risk of greenhouse gas emissions.

To make a step toward a more sustainable, greener distribution network, E.ON decided to investigate the possibility of replacing their switchgear, insulated with SF₆ gas, with more environmentally friendly, SF₆-free technology.

A partnership for the common good

In addition to environmental friendliness, the SF₆-free solution was required to comply with the energy transition happening in Sweden (more distributed generation, car charging infrastructure), help ensure greater personnel safety, and be interoperable with the existing equipment. [Schneider Electric's new SF₆-free switchgear technology](#) met all the requirements and was chosen for a pilot project in Norrköping.

"Insulated with pure air and powered by advanced digital technologies, Schneider's new SF₆-free device is durable and cost effective since it complies with our current substation solutions," explained Kim Sunnerberg, Technical Manager at E.ON.

The collaboration between Schneider Electric, E.ON, and local substation manufacturer KL Industri has worked very well. "It has been important to have a collaborative partner who is locally present, as this makes the collaboration much simpler," explained Sunnerberg.

Goal

Help E.ON achieve their sustainability goal of eliminating greenhouse gases from their operations, while maintaining a high level of network reliability.

Story

E.ON has an ambition to transform their grid into a sustainable distribution network. They were looking for a new SF₆-free technology to meet their goals and minimize the risk of greenhouse gas emissions.

Solution

Schneider Electric's new SF₆-free solution, the Easergy T300 RTU, and smart sensors for temperature and humidity measuring, all part of the EcoStruxure for Electricity Companies.

Results

A successful pilot project executed in Norrköping sets E.ON on a straight path to achieving their sustainability goal of SF₆-free energy distribution.

Reaping the benefits, today and tomorrow

The implementation of the SF₆-free switchgear has been a huge step forward for E.ON on their way to a more sustainable, smarter distribution network. “What impressed me most about the solution,” said Sunnerberg, “is the holistic idea of an SF₆-free technology with digital capabilities.”

The whole substation kiosk was easy to install, so E.ON’s customers were spared prolonged power outages. The device was also praised by E.ON’s technicians for its intuitive interface.

Together with the SF₆-free solution, E.ON has also implemented the Easergy T300 remote terminal unit (RTU), which enables greater insight into network operations.

Now the company can monitor the status of the network and spot faults early to minimize interruption time for its customers. The data collected across the network is also used to better plan network maintenance, providing repair crews with the exact locations and characteristics of issues.

Encouraged by the results of solutions installed so far, E.ON is investigating further opportunities to collaborate with Schneider. “We see Schneider Electric’s EcoStruxure and the new SF₆-free technology as great opportunities for the future,” added Kim.

“What impressed me most about the solution, is the holistic idea of an SF₆-free technology with digital capabilities.”

*Kim Sunnerberg,
Technical Manager, E.ON*



EcoStruxure™

Innovation At Every Level

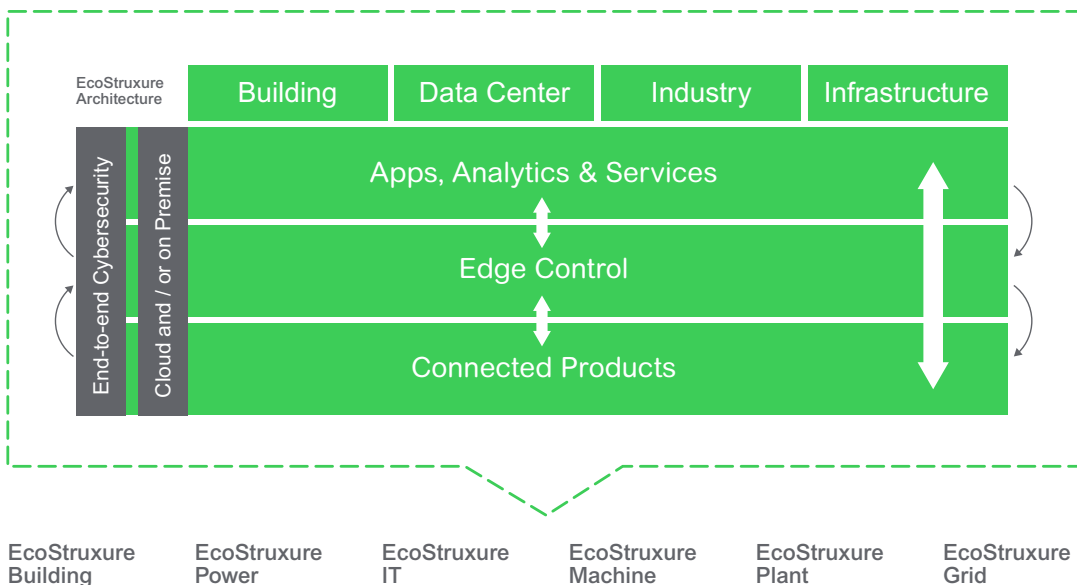
IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure is Schneider Electric's open, interoperable, IoT-enabled system architecture and platform.

EcoStruxure delivers enhanced value around safety, reliability, efficiency, sustainability, and connectivity for our customers.

EcoStruxure leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver Innovation at Every Level including Connected Products, Edge Control, and Apps, Analytics & Services. EcoStruxure has been deployed in 480,000+ sites, with the support of 20,000+ system integrators and developers, connecting over 1.6 million assets under management through 40+ digital services.

One EcoStruxure architecture, serving 4 End Markets with 6 Domains of Expertise



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The Internet of Things starts with the best things. Our IoT-enabled best-in-class connected products include breakers, drives, UPSs, relays, sensors, and more. Devices with embedded intelligence drive better decision-making throughout operations.

Edge Control

Mission-critical scenarios can be unpredictable, so control of devices at the edge of the IoT network is a must. This essential capability provides real-time solutions that enable local control at the edge, protecting safety and uptime.

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Interoperability is imperative to supporting the diverse hardware and systems in building, data center, industry, and grid environments. EcoStruxure enables a breadth of agnostic Applications, Analytics, & Services for seamless enterprise integration.

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