

High-precision Swedish Energy Internet



AI Overview

Sweden is advancing its Energy Internet through smart grid integration, AI-driven microgrid management, and high-voltage, eco-efficient transmission solutions.

Grid Reinforcement and High-Voltage Solutions

To address rising electricity demand in urban areas like Stockholm, Svenska kraftnät is implementing the Greater Stockholm West initiative, which strengthens and expands the transmission network. Hitachi Energy is delivering five 420 kV grid connection solutions using SF₆-free EconiQ® gas-insulated switchgear (GIS) at key substations, ensuring high reliability, availability, and eco-efficiency for the growing energy infrastructure, including electric vehicle charging and data centers . These high-voltage solutions provide precise control and stability across the transmission network.

Smart Integration of Microgrids and Data Centers

The RISE ICE project focuses on AI-controlled microgrids combining solar cells, batteries, and datacenters. The project aims to optimize power, load, and cooling strategies while developing self-optimizing solutions and smart tariffs that enhance grid utilization. By integrating AI and energy data science, the project enables high-precision energy management, allowing datacenters and microgrids to operate efficiently while supporting the broader power grid .

Research and Development in Smart Grids...

Article Content

Nov 29, 2025

Delivering eco-efficient grid solutions for Stockholm's growing energy ...

In the Stockholm region, Sweden, this challenge is especially pronounced. Reduced local electricity production combined with the

Aug 30, 2025

Grid development plan 2024 2033

Svenska kraftnät is responsible for developing the transmission grid and the electricity market so as to meet society's need for a

Apr 16, 2026

Recent advancement of energy internet for emerging energy

This article deals with a thorough investigation of the energy internet towards future emerging technologies for energy

Dec 31, 2025

Executive summary - Sweden 2024 - Analysis

Sweden 2024 - Analysis and key findings. A report by the International Energy Agency.

Oct 18, 2025

Map of the national grid

The Swedish national grid for electricity consists of approximately 16,000 km of power lines, about 175 substations

Jan 22, 2026

Energy Indicators

Our energy indicators provide the answer, clearly illustrating how Sweden's energy system is changing and evolving.

Jul 08, 2026

Statistics

Statistics Statistics of the Swedish energy balance is available in a web based tool. The tool makes it easy to collect

Apr 21, 2026

Energy in Sweden

Energy in Sweden Historical energy consumption in Sweden by source. Renewables and nuclear is given as the electricity produced.

Jul 07, 2026

The future energy landscape for Swedish industry and society

The scope and character of the proposed funding call fills a gap in the current Swedish research landscape. The call is unique in

Mar 25, 2026

Flower | Energizing tomorrow

Flower is Flexible Power. We redefine how renewable energy is managed. Through industry-leading

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Swedish grid whitepaper

In Sweden, FTM systems are crucial for maintaining grid stability, integrating renewable energy sources, and participating in the

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Energy industry

Sweden's Energy system Sweden's reliable and sustainable energy systems and circular grid are powered by commercially viable

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Smart Grids

The Swedish power grid is transforming into a customer-centric and digital system providing differentiated services and transactions

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IEA report highlights Sweden's opportunity to lead on the clean energy ...

Sweden's opportunities to become a global leader in clean energy technologies and low-emissions industry are

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Grid projects

We are strengthening the Swedish national grid with new lines and stations to take care of new wind

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Sweden 2024

Sweden aims to achieve its energy savings targets mainly by keeping energy and carbon taxes above the EU minimum taxation

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Energy use in Sweden

More than half of the energy used in Sweden comes from renewable energy sources.
Find

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Swedish Energy Agency

Swedish energy supply remains stable Sweden's energy supply is assessed as stable, despite ongoing uncertainty over the

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National grid

The government has assigned Svenska kraftnät the task to maintain and develop the Swedish national grid

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Distributed Energy Resources and Smart Energy Networks

How can existing and new energy components be interconnected for creating synergies such as reduced primary energy use and

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Swedish Energy Company Invests in Power Grid | TD World

DNV GL has partnered with Swedish Energy company, Öresundskraft, to bring smart cable monitoring technology to the Swedish

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Home | Svenska kraftnät

Svenska kraftnät is responsible for ensuring that Sweden has a safe, environmentally sound and cost-effective transmission system

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Innovative solutions for 100% renewable power in Sweden

This study from the International Renewable Energy Agency (IRENA), produced in consultation with the

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The Swedish electricity market today and in the future

The Swedish Energy Agency (2022) and the Swedish Wind Energy Association (2022) estimate that electricity production in Sweden

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Internet providers in Sweden

Every Swedish internet provider offers different options and packages. Are you wondering which internet

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Sweden 2024 Digital Decade Country Report

Country-Specific Recommendations Sweden must improve its performance towards the Digital Decade targets and

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Swedish Energy Agency

Sweden's energy supply is assessed as stable, despite ongoing uncertainty over the ceasefire between the United States and Iran.

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Increased demand for electricity requires new solutions and ...

These include lines for high-voltage direct current (HVDC), which can transmit much energy over long distances. The

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Sweden's Smart Energy Ecosystem

Sweden's Smart Energy ecosystem brings together leading suppliers of smart grids, district

Sep 17, 2025

Building the future: Sweden's thriving tech ecosystem

Sweden's tech ecosystem is thriving, with a strong focus on sustainability, AI, and digital growth. In 2024, it raised

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Google Übersetzer

Mit diesem kostenlosen Google-Dienst lassen sich Wörter, Sätze und Webseiten sofort zwischen Deutsch und über 100 Sprachen

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Sweden's Digital Technologies Ecosystem

Sweden is a launch pad for going digital as gamechanging technologies revolutionise more and more industries. By

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Investigation of a balanced Swedish energy system in 2045

Abstract As part of Sweden's goal of zero carbon dioxide emissions, renewable energy will play an increasingly important role in the

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