

Construction of the Swedish Energy Internet Platform



Article Overview

Sweden is building a modern, digitally integrated energy platform through smart grid development, renewable integration, and advanced IT infrastructure led by Svenska kraftnät and supported by SweGRIDS and CGI.

National Grid Modernization

Sweden's national electricity grid is one of the oldest in the world, with many lines and stations nearing the end of their technical lifetime. To ensure a secure and reliable electricity supply, Svenska kraftnät is renewing existing infrastructure and constructing new lines and stations. This expansion supports renewable energy integration, particularly wind power, and enables Sweden to participate in a common European electricity market. The planning and construction of new lines typically take five to ten years, including consultation, concession, construction, and commissioning phases .

Smart Grids and Energy Storage

The SweGRIDS initiative, active from 2011 to 2022, was a major research and development program focused on smart grids and energy storage. It involved academia, industry, and public utilities, with funding from the Swedish Energy Agency and corporate partners. SweGRIDS aimed to develop devices and methods to handle higher proportions of renewable energy and facilitate energy trading. Over 100 scientists contributed to creating solutions that have been implemented by sponsor...

Article Content

Aug 25, 2025

Smart Grids

The Swedish power grid is transforming into a customer-centric and digital system providing differentiated services and transactions as well as accommodating customer-connected distributed

Nov 02, 2025

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 considerable, and actions taken in the short-term will inform its long-term

Nov 20, 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 €13.7 billion, ranking second in Europe.

May 05, 2026

Sweden's grid operator Svenska kraftnät (SvK): Scenarios for the ...

The analysis presents four key scenarios: Small-Scale Renewables (SF), Mixed Pathways (FM), Electrification with Planned Growth (EP), and Electrification with Renewable Energy (EF).

Sep 07, 2025

Grid development

We are strengthening the Swedish national grid with new lines and stations to take care of new wind power, eliminate limitations in the grid and to meet society's

May 21, 2026

Executive summary – Sweden 2024 – Analysis

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

Dec 31, 2025

Swedish government says no to new power cable to

The Swedish government has turned down an application to build a new subsea power connection between Sweden and Germany, the 700

Feb 10, 2026

Network Development Plans | Strategic Grid Planning in Sweden

Starting in 2025, distribution grid operators (DSOs) will be required to submit network development plans every two years. These plans must include investment strategies and capacity assessments for the

Sep 26, 2025

An overview of Energy in Sweden 2022 now available

Energy in Sweden - an overview 2022 can now be downloaded from the Swedish Energy Agency's website. The overview of statistics provides easily-accessible information about

Sep 21, 2025

Recent advancement of energy internet for emerging energy

Key features of the energy internet such as energy sources, communication technologies, data computation, energy management systems and financial analysis are highlighted to enhance

Apr 25, 2026

Energimyndigheten

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CGI selected by Svenska kraftnät to drive digital transformation of ...

The agreement covers the delivery of IT consulting services in areas including architecture, leadership, and security - vital capabilities for enhancing Sweden's electricity

Jan 04, 2026

SweGRIDS | KTH

Started in December 2011, and completed in June 2022, it was a partnership of academia, industry and public utilities, with major funding from the Swedish Energy Agency and from corporate partners that

Jan 29, 2026

Swedish Energy Agency

Sweden's energy supply is assessed as stable, despite ongoing uncertainty over the ceasefire between the United States and Iran. At the same time, the situation in the Middle East continues to affect

Apr 17, 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 offering longer-term funding than other funders, and through its

Oct 31, 2025

Sweden 2024

Sweden aims to achieve its energy savings targets mainly by keeping energy and carbon taxes above the EU minimum taxation levels. Other measures include a grant for single family homes, regulations

May 29, 2026

The Swedish energy

By 2045, Sweden aims to be the first fossil free welfare state in the world. Several lessons can be drawn from the success of the Swedish energy transition

Aug 19, 2025

Grid development plan 2024 2033

Svenska kraftnät has released three versions of its system development plan to provide a comprehensive overview of the future development of the power system.

Mar 02, 2026

Construction of energy internet technology architecture based on ...

Based on general system structure theory, the technical system framework for the provincial power grid corporations to construct regional energy internet is constructed, and it

Dec 03, 2025

Innovative solutions for 100% renewable power in Sweden Summary

Sweden's policy goals call for achieving 100% renewable power by 2040 and net zero carbon emissions by 2045. The aim is to establish a 100% renewable power system in Sweden, while also ensuring

Oct 11, 2025

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 future. A major change in the electrification of industries and the

May 17, 2026

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

To ease pressure on the grid and meet future demand, Svenska kraftnät is driving the Greater Stockholm West initiative, a strategic program to reinforce and expand the transmission network in

Aug 19, 2025

A comprehensive review of Energy Internet: basic concept ...

Abstract With the intensifying energy crisis and environmental pollution, the Energy Internet and corresponding patterns of energy use have been attracting more and more attention. In this paper,

Jan 13, 2026

Grid development plan 2024 2033

The grid development plan for the years 2024–2033 outlines the civil engineering investment projects currently underway, as well as an assessment of current needs. In addition to this, we are currently

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