



**SolarTech Power Solutions**

# **Swedish home energy storage power supply production**



## Overview

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What is the Swedish electricity system?

The Swedish electricity system is part of the integrated European electricity system via high-voltage transmission connections with our Nordic neighbours as well as Lithuania, Poland and Germany.

Does Sweden have a stable electricity supply?

Sweden appears to have a fairly stable electricity supply as all domestic electricity consumption is covered by dispatchable electricity generation. However, this picture needs to be modulated. Most of the high-voltage transmission capacity runs from north to south; see Figure 1.

What type of electricity does Sweden produce?

Historically, most of Sweden's electricity production has been hydroelectric and nuclear, supplemented by fossil-fuel based thermal power. Figure 2 shows electricity production in Sweden by the main types of power used for each year in the period 2000-2020. It also shows net exports of electricity in the same period.

What percentage of Sweden's electricity consumption is residential?

Residential electricity consumption accounts for just under 30 per cent of electricity consumption and is higher in southern Sweden than in northern Sweden, both in absolute terms and as a share of electricity consumption in each electricity region. This also applies to other sectors, such as supply/transport and public services.

Why do we need more contributors to Sweden's electricity consumption?

The more contributors we have, the greater value it adds to Sweden. Swedish electricity consumption has been stable for decades. But now we're facing something different. The vehicle and transport sector is electrifying rapidly. We see new types of industrial investments in battery factories and fossil-free

steel production.

How many years of electricity supply in Sweden?

Year 2008 - 2024 Electricity supply in Sweden by type of power plants. Year 1986 - 2024 District cooling. Year 2018 - 2024 Net electricity generation, fuel input and efficiency. Year 2015 - 2024 Heating supply. Year 2015 - 2024 Heat deliveries to final consumers. Year 2015 - 2024

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