

What is Sweden's net zero emissions target?

Sweden's legally binding 2045 net zero emissions target together with energy sector targets guide its energy policy. Net zero equates to an 85% cut in domestic greenhouse gas (GHG) emissions from 1990 levels (38% below 1990 levels in 2023), after allowing for expected absorptions.

Why is Sweden a low carbon country?

Few countries consume more energy per capita than Sweden, but Swedish carbon emissions are low compared with those of other countries. The reason for Sweden's low emission rate is that some 70 per cent of electricity production in Sweden comes from hydroelectric (41%) and nuclear (29%) power.

What percentage of Sweden's electricity comes from renewable sources?

In 2022, more than 60 per cent of Sweden's electricity came from renewable sources. The government's energy policies have also promoted the use of renewable energy. The Electricity Certificate System - a market-based support system for renewable electricity production - is one example.

Will Sweden's electricity system be the cornerstone of its energy transition plans?

Sweden's electricity system will be the cornerstone of its energy transition plans. However, sizeable uncertainties exist in the long-term forecasts, including the scale of industrial electricity demand in the north, offshore wind development in the south, and the outlook for existing and new nuclear power plants.

How can Sweden achieve its energy goals?

Sweden has ambitious energy goals and is in a promising position to achieve them. It already has a relatively low emissions energy system as well as favourable natural resource endowments, a broad political and public consensus on its net zero ambitions, and a clear strategy to meet its goals (primarily through electrification of end-use sectors).

What is the largest source of bioenergy in Sweden?

The largest source of bioenergy in Sweden is the forest. Sweden has more forest than most other countries - 69 per cent of the land area. Bioenergy is primarily used for heating - both in private homes and in district heating - as well as for electricity production and for industrial processes.

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Historical energy consumption in Sweden by source. Renewables and nuclear is given as the electricity produced. Wind turbines in Sweden. Energy in Sweden is characterized by relatively high per capita production and consumption, and a reliance on imports for fossil fuel supplies.. With 98% of electricity generation coming from renewables and nuclear in 2023, the electric ...

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