

What is Sweden's smart energy ecosystem?

Sweden's Smart Energy ecosystem brings together leading suppliers of smart grids, district heating and cooling, and innovative solutions for energy storage. These key players are on a mission to speed up the transition to clean electricity and carbon neutrality - in Sweden and globally.

Can Sweden produce electricity from wave power plants?

But Sweden can also take part in electricity produced from the wave power plants, because off the coast of Norway there is a perfect combination of waves and wind for our technology and then the electricity could be delivered in the existing grid to Åre and Karlstad.

How does wind energy affect the Swedish power system?

With growing shares of VRE in the Swedish power system, high wind energy generation is expected to increasingly coincide with periods of low electricity consumption, which can result in a surplus of electricity during those hours. At the same time, with growing shares of VRE, more seasonal variation in renewable output can be anticipated.

How much energy does Sweden produce?

Swedish electricity production comprised around 39% nuclear energy (from three nuclear power plants with a total of eight reactors), 51% renewable energy sources⁴, mainly hydropower and wind, and 10% combined heat and power (CHP),

Is there a hybrid solar and wind park in Sweden?

Visualization of the hybrid solar and wind park in Sweden. European Energy has started constructing Sweden's first large-scale hybrid park in Skärmarö in the municipality of Tingsryd, where the existing wind farm is supplemented by a solar park.

Why should you invest in Sweden's smart energy ecosystem?

Five key strengths of Sweden's Smart Energy ecosystem: Renewable energy is expected to account for 80 per cent of global growth in electricity demand by 2030. Sweden is at the forefront of progress and offers a wealth of opportunities for foreign investors.

We are at the forefront of developing smart, sustainable energy solutions such as battery production, wind power, solar energy, and hydrogen technology. Swedish technologies are also integrated into smart grids to optimise the use of renewable energy.

Marviken Smart Energy Cluster will shape, innovate and deploy transformative solutions to minimising energy waste and maximise energy utilisation - in industrial scale - by strategically combining industrial operations.

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A plant in Hjuleberg, Sweden, is using a solution based on new smart technology, combining wind power and batteries to bring optimum stability to the grid. Wind and solar power are the fastest-growing energy sources in the world today, thanks to their low climate impact and high cost-efficiency.

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Increasingly weather-dependent electricity production makes grid operation more complex. A plant in Hjuleberg, Sweden, is using a solution based on new smart technology, combining wind power and batteries to bring optimum stability to the grid.

areas defined in Sweden's strategy for wind power:

- o Conflicts of interest and competition for territory usage on both land and at sea.
- o Resource-efficient wind power in Swedish conditions with mini-mised environmental impact.
- o Developing new solutions and incentives for a robust electricity grid with high security of supply.

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Then new fossil-free electricity production is needed, including in the form of solar and wind energy. Uniper's aim is to play a key role in shaping this development. We cover all aspects of the value chain: from project development and construction to the operation and marketing of solar energy and onshore wind power plants.



Smart wind and solar power Sweden

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