

Nordic outdoor solar power hub usage



Overview

From Norway's robust hydropower-fueled grid to Sweden's quest for transparency, and Denmark's interconnected energy ecosystem to Finland's blend of sustainability and efficiency—we delve into the essence of each grid. Last year, solar and wind power made up 63% of the country's electricity, with solar usage increasing by 53% compared to 2022. Fossil fuel use continues to decline, too. In 2023, coal consumption decreased by an impressive 35%.

Simo, Finland, June 18th, 2025 – Sungrow, the global leading PV inverter and energy storage system provider, has supplied 180 units of their SG350HX string inverters to a 70 MWp solar power plant in Simo, Lapland. The Nordic power system comprises Norway, encompassing Sweden, Denmark, and Finland. The Nordic TSOs are planning massive investments to reinforce and expand the transmission grid to enable a significantly larger and well-connected Nordic power system. As the share of renewable and fluctuating generation increases, a strong Nordic grid will have a key role in balancing. Globally, solar generation in the first half of 2025 surged 31% year-on-year, expanding its share of the global electricity mix from 6.8%, with solar alone meeting 83% of the worldwide demand growth over that period, according to Ember Energy. DNV's Energy Transition Outlook forecast solar PV to grow 13-fold to 2050 compared to 2022 levels, reaching 18 TW of total installed solar PV capacity.

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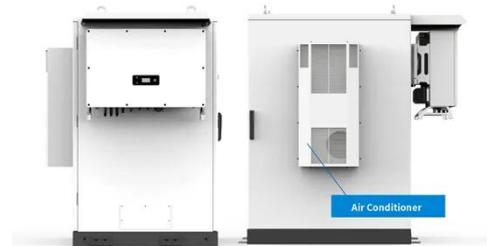
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Nordic Grid Development Perspective 2025

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Solar Power in the Nordics

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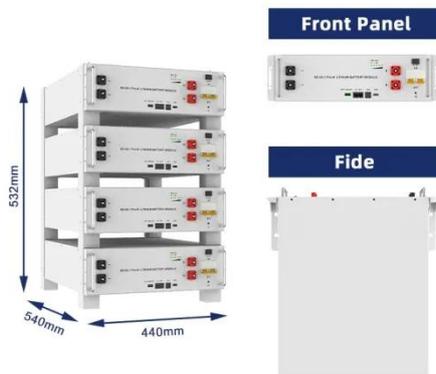
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solar PV implementation in the Nordic

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