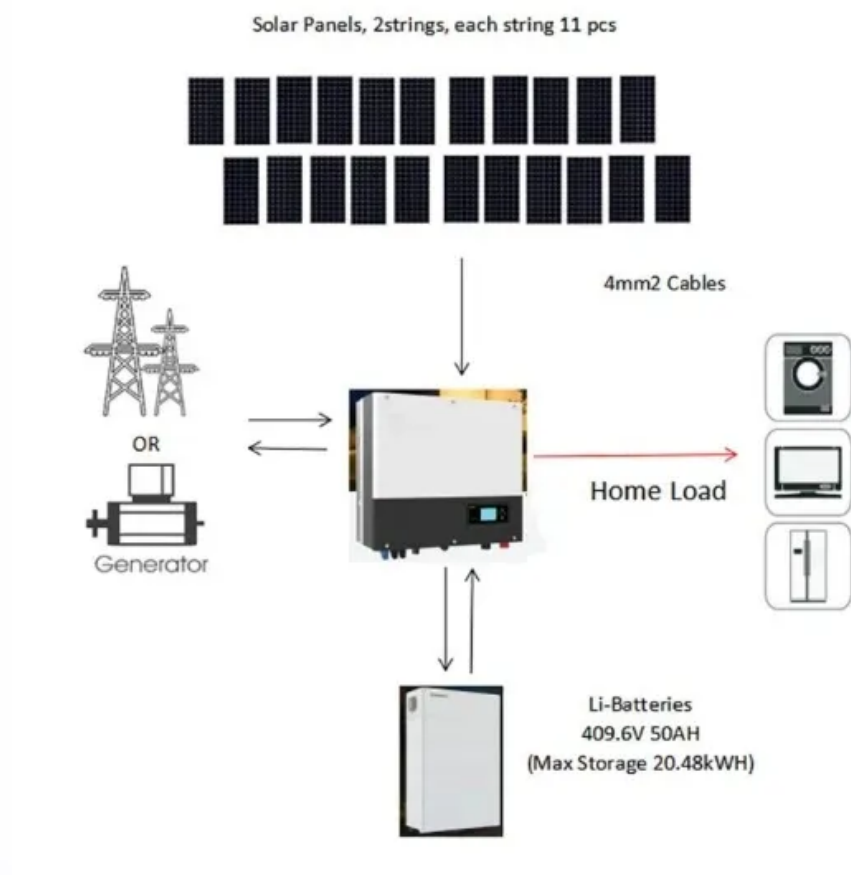


Renewable electricity finland



Overview

In 2021, renewable energy accounted for 43% overall, 39% in electricity, 53% in heating and cooling, and 20% in transport. Biofuels are the most important part of the Finnish mix of renewable energy, making Finland one of the top users of renewables in the world. *Note: As of Final updated National Energy and Climate Plan (NECP) 2021-2030. Finland is a front runner in the EU in terms. In 2025, Finland made remarkable strides in transforming its electricity sector, with almost 90% of its electricity now sourced from low-carbon technologies. The method applied 2023 hourly capacity factors to 2030 installed capacity and consumption estimates provided by Fingrid to. Finland's energy landscape is characterized by a significant reliance on nuclear power and renewable energy sources, which together account for about two-thirds of the country's energy production.

Renewable electricity finland



Renewable energy

The most important forms of renewable energy used in Finland are bioenergy, fuels from forest industry side streams and other wood-based fuels in particular, hydropower, wind power and ground heat.

[Finland Electricity Generation Mix 2025 , Low-Carbon ...](#)

Finland's electricity mix includes 36% Nuclear, 25% Wind and 14% Hydropower. Low-carbon generation reached a record high in 2025.



[Renewable energy in Finland](#)

The emphasis in Finland's energy mix has been on renewable sources like biomass, hydro, and wind power. These measures are part of Finland's efforts to decrease energy intensity and improve energy ...

[Share of renewable energy in final energy consumption , Finland](#)

Finland's updated integrated climate and energy plan aims for at least a 62 % share of renewable energy in final energy consumption by 2030. Alongside mitigating climate change, a key ...



[Finland and renewable energy . Power and Energy](#)

Renewable energy sources in Finland include hydropower, wind, solar, geothermal, and biomass, with hydropower being the most developed, accounting for approximately 16.2% of renewable energy in ...



[A Guide to FINNISH RENEWABLES](#)

Licensing and regulatory authority regulating and promoting operation of the electricity and gas markets, emission reductions, energy efficiency and use of renewable energy.



[Renewable energy analysis for 2023 and estimate for 2030 in ...](#)

We examined the status of renewable energy in Finland as of 2023 and estimated its development by 2030, focusing on production, capacity, and sustainability. The analysis evaluates wind, solar, hydro, ...



Electricity generation

Electricity is produced in Finland in a versatile way with various different energy sources and production methods. The most important energy sources for electricity generation are nuclear power, ...



Renewable Energy 2025

The most significant sources of renewable electricity production in Finland are wind power, hydropower and wood-based biofuels, with solar power increasing rapidly as well.

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