

Finland exports outdoor power supply

How is electricity consumption calculated in Finland?

Total consumption of electricity in Finland, which is calculated based on real time values of electricity production, import and export. Total electricity production in Finland. Based on real-time measurements and computational estimates of power plants. Net value of electricity imports and exports based on real-time measurements.

How are production information and import/export calculated in Finland?

Production information and import/export are based on the real-time measurements in Fingrid's operation control system. Total consumption in Finland is calculated based on production and import/export. The production type division of production measured in real time is based on the main production type, so the figures are indicative.

How much wind power does Finland have?

By the end of 2022, Finland's wind power capacity reached 5,677 MW with 1,393 turbines installed. That year, wind power production increased by 41% to 11.6 TWh, representing 14.1% of the country's electricity consumption.

What fuels does Finland use?

Except for peat, which is variously classed as either a fossil fuel or a slow-renewable fuel, Finland imports all the fossil fuels used for electricity production. Coal and natural gas account for most of the production, with some oil generators acting mostly as reserve.

Does Finland have a nuclear power plant?

As part of the energy transition Finland has been replacing electricity generation from fossil fuels with nuclear power and renewables. Wind power in particular has grown to be a significant part of electricity generation. A fifth nuclear reactor, Olkiluoto 3 was commissioned in 2023 and increased nuclear power generation by over 50%.

How much power will Finland have in winter?

The national grid operator Fingrid, together with TSOs from other Nordic countries, produces yearly estimates about the availability of power in the winter demand peak. In 2019-2020 they estimated a peak Finnish demand of 15.3 GW, during which Finland would have 11.9 GW of production capacity, not including capacity reserves.

Finland FI: Electricity: Exports to EU data was reported at 378.499 GWh in Jan 2025. This records a decrease from the previous number of 772.411 GWh for Dec 2024. Finland FI: Electricity: ...

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