

How does Fingrid work?

Fingrid produces large amount of data on the electricity market and the power system and publishes it as open data for public use. This platform provides you with tools for browsing the datasets and accessing the data free of charge and in machine readable format. You are free to utilize the data according to the license and terms of use.

How does Fingrid regulate power plants?

Fingrid orders up- or down-regulation from the Balancing energy market. Down-regulation considers increasing of consumption or reducing of generation. Reserve power plants electrical production is based on the real-time measurements in Fingrid's operation control system.

How is Fingrid connected to Estonia?

Finland is also connected to Estonia by HVDC transmission links. The joint Nordic system is also connected to the Central European system by HVDC transmission links. Fingrid participates in ENTSO-E, the European Network of Transmission System Operators for Electricity. Main grid

How does Fingrid promote the efficiency and transparency of the electricity market?

Fingrid promotes the efficiency and transparency of the electricity market by publishing open data for public use. This platform provides you with tools for searching our datasets and accessing the data in machine readable format. Datasets cover several broad subject categories and include both measured data and forecasts. Search datasets.

How much power does Fingrid have from Finland to Russia?

The technical maximum capacity from Finland to Russia is 350 MW, of which Fingrid has reserved 30 MW to buy reserve power. The hourly sum of reserve plans for frequency containment reserve for disturbances downwards regulation (FCR-D down) in the yearly market. The data will be published 22:45 (EET) on previous evening.

What is the location information for Fingrid's solar power forecast?

Location information is a very rough estimate based on Finnish distribution grid operators information. The Data before 31.05.2023 is in hourly resolution. This is the total solar power production capacity used in Fingrid's solar power forecast. It is based on the small scale production statistics gathered by the Energy authority.

Fingrid actively promotes efficient electricity market by developing rules and practices together with stakeholders and by taking care of the efficient use and development of the power system. The bases of the grid development are the forthcoming needs of the customers (production and consumption), efficiency of electricity market in the Baltic ...

Fingrid publishes data mainly on the electricity market and the power system. Datasets include both measured and forecasted data, and many datasets are updated in near real-time. Platform has powerful tools for searching and browsing the datasets. You can make custom searches for data within datasets.

The main theme of this issue is power system reserves. The energy transition is significantly increasing the need for reserves. In the editorial of Fingrid magazine 1/2024, Tuomas Rauhala, Senior Vice President, Power System Operation, writes about the new normal: larger power fluctuations in the electricity system in Finland and the other ...

Power plants, transmission lines, substations and connections are now being built at a brisk pace. Over the next ten years, Fingrid will invest up to EUR 4 billion in the main grid. Transmission connections are especially ...

Power system management. In the electricity network licence granted by the Finnish Energy Authority, Fingrid Oyj has been appointed as the transmission system operator responsible for Finland's electricity transmission grid. As the grid operator with system responsibility, Fingrid's task is to ensure the system security of the grid such that

The need for electricity will rise in Finland in the coming years. At the same time, fossil fuels are being phased out entirely. Therefore, wind and solar power must produce even more clean electricity. How can we ensure there is enough electricity on calm, cloudy days?

Nordic Flow-based Market Coupling Go-live Expected October 2024. As previously communicated by project parties 27 th September 2023, the intended go-live in Q1 2024 of the Nordic Flow-based Market Coupling, has been reassessed and deemed as unachievable. This is due to the complexity of the development and alignment of the various ...

(Togo First) - As of mid-2024, two years after its launch, the Tinga Fund had successfully connected 21,430 households to Togo's power grid. The achievement is detailed in the "Reform Implementation Report" recently released by the Ministry of Economy and Finance.

The needed volume of the reserve in the Nordic power system depends on the greatest individual fault, and it is dimensioned separately for under- and overfrequency events. An underfrequency event can be caused by e.g. tripping of a large production unit or of a transmission line importing power to the Nordics. ... Fingrid's reserve power plants.

The account holder should arrange to send the power plant's net production data to Fingrid's system in EDI messages. If the power plant's production time series is submitted to Fingrid for main grid invoicing purposes and it can be used in this form for issuing guarantees of origin, no other time series is required.

Fingrid's electricity system vision scenarios present the possibilities of an electrified Finland in the coming decades. The goal is to present Finland's opportunities to compete for electricity production and consumption projects and to create a long-term view of the development needs of the main power transmission network.

The Finnish transmission system operator Fingrid will modernise the Rauhalahti substation in Jyväskylä. The modernisation of the substation will improve the system security of the power grid and make it possible to connect the electric boilers of the energy company Alva to the main grid, thereby achieving cleaner district heating production. ...

Metsä Group's Pirita Mikkonen, a Fingrid customer interviewed for the article, says that her company is interested in the possibility of supporting the power system in certain pre-agreed situations by flexibly adjusting its electricity consumption in return for a fixed rebate. Some of the other articles in issue 3/2024 of the Fingrid Magazine:

The consumption fee is paid for the transmission of the electric energy beyond the connection point located between the customer and Fingrid. The fee is charged both for the winter periods and for other times. The fee for output and input from the main grid are charged based on the amount of the energy transferred through a connection point. The power plants directly or indirectly ...

Signing the contract with Helen is an important step towards a concrete pilot project. Fingrid will continue investigations related to utilizing new technologies to power system balancing, and believes it is important to test in practice how to use the energy storage in the most efficient way for the power system need.

Fingrid's services: Connection to the main grid We implement main grid connections based on our customers need and ensure that the main grid and customer networks are compatible. ... Finland is part of the same power system with Sweden, Norway and Eastern Denmark. The same power balance must be maintained... Phone all locations: +358 30 395 ...

Web: <https://gennergyps.co.za>