

Fingrid's role in climate change mitigation

Fingrid's main grid creates a platform for a clean power system, which is a key part of Finland's energy and climate strategy. Fingrid's mission is to build a reliable transmission system and a functional electricity market.

Fingrid's strategy, governance and risk management

- Fingrid is committed to operating in accordance with international climate goals and limiting the global temperature increase to 1.5 degrees.
- Fingrid's investment programme will implement the strong electricity transmission connections needed for a clean power system both within Finland and between neighbouring countries, transferring clean electricity, in particular, to southern centres of consumption.
- Fingrid is preparing for the change in the electricity production structure by increasing automation and digitalisation, thus also reducing the carbon footprint of its own operations.
- Fingrid guarantees a reliable supply of electricity and the balance of the power system even as the electricity production structure changes.
- Fingrid develops the rules of the electricity market to enable the energy transformation and facilitates market access especially for decentralised production, reserves and demand-side management.
- Fingrid is preparing for the physical risks of more frequent and stronger extreme weather phenomena in the construction and operation of the main grid.
- Fingrid is preparing for the transition risk, i.e., transition to a clean power system, by building the main grid fast enough to meet the climate goals. This means proactive assessment of environmental impacts, well-functioning stakeholder interaction, rapid project authorisation and effective project management.
- Fingrid's Board of Directors is responsible for Fingrid's strategy for creating a clean power system and managing the risks related to climate change.

- 99,99993%** High security of supply in electricity transmission
- 100 M€ Green Bond 2017-2027** Climate Bonds Initiative Green Bond Award
- GRI and GHG** Global Reporting Initiative Standards and Greenhouse Gas protocol in reporting
- >100 M€** Significant annual investments in the main grid to enable clean electricity production
- UN Global Compact** Commitment to the corporate responsibility initiative since 2016
- Responsibility audits** In ensuring the responsibility of employment conditions, safety, environmental issues and business practices in procurements and self-owned worksites
- ISO 14001** Environmental certification for reserve power plants
- EIA awards** For the high-quality environmental impact assessment of three transmission line projects
- 99%** Of waste utilised and 82 % recycled
- Energy efficiency 12,9 %** Energy savings target in Energy Efficiency Agreement for Industries 2017–2025 was achieved during 2022 (equals more than 180 000 megawatt-hours in energy savings)



Fingrid's climate goals

Fingrid aims to support the achievement of international climate goals and reduce its own carbon footprint.

- Securing a strong transmission network and functional cross-border transmission links.
- Developing the flexibility of the power system to increase variable, renewable electricity production in the main grid, which will also reduce the carbon footprint of transmission losses.
- Making energy-efficient main grid investments and equipment procurements.
- Reducing strong greenhouse gas SF6 emissions using modern technologies and preparing for adoption of new technologies.

Fingrid's climate reporting in 2022

In 2022, altogether 1 940 megawatts of wind power were connected to Fingrid's main grid, which will indirectly avoid emissions worth annually around 357,000 carbon dioxide equivalent tonnes in the coming years. In addition, during the year, Fingrid concluded agreements on connecting a total of approximately 770 megawatts of wind power production to the electricity grid. Once realised, this will lead to a substantial positive climate impact, indirectly avoiding emissions worth annually around 141,000 million carbon dioxide equivalent tonnes.

Greenhouse gas emissions *	2022	2021	2020
Transmission losses (scope 2)	96 000	132 000	106 000
Reserve power plants (scope 1 ja 2)**	7 900	7 800	7 000
Sulphur hexafluoride of substations (scope 1)	1 900	2 200	300***
Electricity and district heating of own premises	400	400	300
Total (scope 1 ja 2) tCO2-ekv	251 000	165 000	118 000

*In its emissions reporting, Fingrid uses the real-time emission factor for consumed electricity (average of 91 g CO2/kWh in 2022). The calculation of the emission factor is based on real-time production, import and export data and emission factors for specific forms of production. <https://www.fingrid.fi/en/electricity-market/electricity-market-information/real-time-co2-emissions-estimate/>
 **Fingrid's reserve power plants are not in commercial use and are used only in the event of severe disruptions in the power system to secure the supply of electricity

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