

Finland renewable energy growth

Electricity produced with renewable energy sources totalled a record amount of 34.7 TWh. Renewable energy sources covered more than one-half of Finland's electricity production: 52 %. The growth was mainly caused by increased production of hydro power. Forty-five per cent of renewable electricity was produced with hydro power, 23 per cent with wind power and almost all the rest with wood-based fuels. Thirty-four per cent of electricity was produced with nuclear power, 14 percent with fossil fuels and peat.

The amount of electricity produced with fossil fuels decreased by 20 per cent and that of electricity produced with peat by 29 percent from the previous year. The amount of electricity produced with hard coal decreased by as much as 44 per cent. The amount of electricity produced with natural gas increased slightly (3.6%).

In 2020, the production of electricity with renewable fuels amounted to 10.9 TWh, of which 6.0 TWh were produced with black liquor and 4.3 TWh with other wood-based fuels. Correspondingly, 9.3 TWh of electricity was produced with fossil fuels and peat, which is 2.6 TWh less than in 2019.

The statistics on the production of electricity and heat cover the entire production of electricity connected to the grid. The statistics also include the production of solar electricity and small CHP, which are systems partly outside the grid. From 2015 onwards, the statistics also cover small heat plants, that is, nearly all production of district heat. The statistics do not cover all industrial heat and producers of so-called local heating.

Official Statistics of Finland (OSF): Production of electricity and heat [e-publication]. ISSN=1798-5099. 2020. Helsinki: Statistics Finland [referred: 30.11.2024]. Access method:

Statistics Finland has published an information package, Energy in Finland 2022. The publication contains key statistical data on the field of energy presented as tables, graphs and infographics.

The Energy in Finland publication contains data on total energy consumption, renewable energy sources, electricity, heating, industry, transport and greenhouse gas emissions. In the publication, Finland's data are compared internationally especially with the EU's data and energy and climate objectives.

The publication contains plenty of infographics by topic. The infographics highlight interesting changes in different phenomena and data on the largest consumption sectors or key production modes.



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