

How did Finland's energy mix change from 2011 to 2021?

From 2011 to 2021, Finland experienced a significant shift in its energy mix. The share of fossil fuels in Total Energy Supply (TES) declined from 53% to 36%, with decreases seen across all types: oil (26% to 21%), natural gas (9.6% to 6.4%), and coal (11% to 6.3%). Peat's contribution to TES also decreased from 5.8% to 2.7%.

What is Finland's energy consumption?

Finland's per capita energy consumption is notably high, driven by its heavy industry sector and significant heating requirements due to its cold climate. In 2021, the industrial sector was the primary consumer of energy, accounting for 52% of Total Final Consumption (TFC)--above the International Energy Agency (IEA) average of 36%.

What type of energy is used in Finland?

Renewable energy here is the sum of hydropower, wind, solar, geothermal, modern biomass and wave and tidal energy. Traditional biomass - the burning of charcoal, crop waste, and other organic matter - is not included. This can be an important energy source in lower-income settings. Finland: How much of the country's energy comes from nuclear power?

How many consumption Places in Finland have a smart meter?

More than 99 per cent of consumption places in Finland had already a smart meter. The Finnish national legislation requires that each DSO should have hourly registering smart meters installed in at least 80 per cent of consumption places by the end of 2013.

Is biomass a source of electricity in Finland?

Traditional biomass - the burning of charcoal, crop waste, and other organic matter - is not included. This can be an important source in lower-income settings. Finland: How much of the country's electricity comes from nuclear power? Nuclear power - alongside renewables - is a low-carbon source of electricity.

Did Finland have the same electricity day ahead prices in 2023?

In 2023, Finland had more often than in 2022 same wholesale electricity day ahead prices as in Swedish bidding zones. During 62 per cent (in 2022: 25 per cent) of hours Finland and Northern- and Central Sweden (SE1-SE3 bidding zones) had the equal day-ahead price.

In 2020, Finland ranked third among IEA member countries for its share of renewables in TFEC. By 2021, renewables accounted for 43.1% of Finland's gross final energy consumption, 39.5% of electricity generation, 52.6% of heating and cooling, and 20.5% of transport. [2]

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is identified in one of the following intervention fields (i.e. 029 - Renewable energy: solar; 032 - Other renewable energy (including geothermal energy); 033 - Smart Energy Systems (including smart grids and ICT systems) and related storage.) this amount was deducted from the respective categories (i.e. renewables and grids).

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Over one-half of Finland's electricity was produced with renewable energy sources in 2020. Corrected on 3 November 2021. The corrections are indicated in red. In 2020, electricity production in Finland amounted to 66.6 TWh, of which 34.7 TWh was produced with renewable energy sources. This corresponds to 52 per cent of Finland's electricity ...

OverviewEnergy sourcesConsumptionEnvironmental effectsEnergy and climate goalsExternal linksFrom 2011 to 2021, Finland experienced a significant shift in its energy mix. The share of fossil fuels in Total Energy Supply (TES) declined from 53% to 36%, with decreases seen across all types: oil (26% to 21%), natural gas (9.6% to 6.4%), and coal (11% to 6.3%). Peat's contribution to TES also decreased from 5.8% to 2.7%. These changes were driven by transitions to renewable energy sources, notably solid biomass, with bioenergy and waste increasing from 23...

Finland Total Energy Consumption. Total energy consumption per capita is twice as high as the EU average, at 5.7 toe in 2022, including over 14 000 kWh of electricity per capita (2.9-fold higher than the EU average). The gap is due to a high share of pulp and paper industry activity. Graph: CONSUMPTION TRENDS BY ENERGY SOURCE (Mtoe)

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As regards energy security, Finland has put forward several concrete targets, such as a target of 55% self-sufficiency for energy by 2030, a prohibition of use of coal for energy by 2030 and a reduction of the usage of imported oil by 50%. The final plan would benefit from more detailed information on this

5 ???· Finland in Figures only includes the key figures on Finland and Finns. You can find more figures on various sectors of society in the easy-to-use StatFin database . The database also provides regional data, such as the population of municipalities.

Finland: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across ...

Finland has historically relied on energy imports from Russia. In 2021, Finland spent EUR 10.1 billion on energy imports, with EUR 5.3 billion going to imports from Russia. By share of spending, Russia accounted for 81% of Finland's crude oil net imports, 75% of its natural gas, 52% of its coal and 51% of its electricity net imports.

Finland gets 29% of all its energy needs from advanced biofuels. It also has extensive nuclear and hydro networks. But some of its bold targets for continued fuel-use improvement call for sustained government intervention. One example being the goal of powering 30% of all transport with green energy by 2030. It also hopes to reduce personal car ...

Vantaa, in Finland, is the place where Vantaan Energia is constructing a seasonal thermal energy storage facility known as Varanto. Upon its completion in 2028, it will surpass all existing standards to become the world's largest, boasting a capacity of 1,1 million cubic meters and 90 GWh. The operational concept behind this seasonal thermal energy storage involves storing ...

5 ???· Finland in Figures is an information package about Finland and Finns. Go to content. Suomeksi; På svenska; In English; Search Menu. Home; Statistical data; ... Source: Statistics Finland, energy supply and consumption. Total energy consumption by energy source (xlsx) Updated: 18.4.2024. Supply and total consumption of electricity, 2023* Supply ...

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