

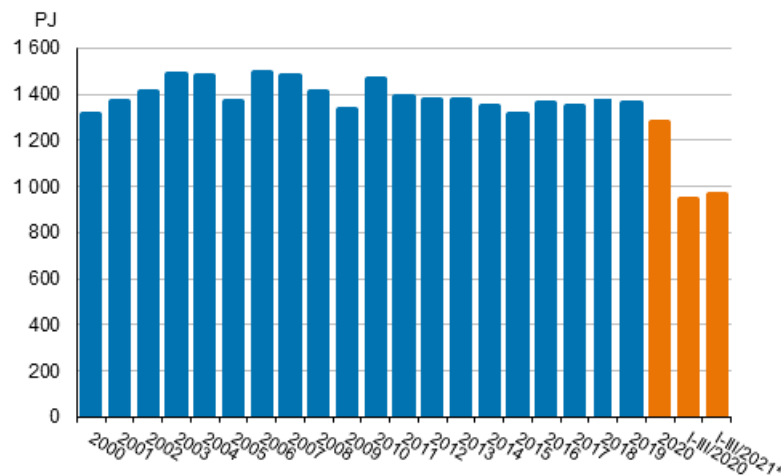
Energy supply and consumption

2021, 3rd quarter

Total energy consumption grew by 3 per cent in January to September

According to Statistics Finland's preliminary data, total energy consumption in January to September amounted to 966 petajoule, which was three per cent more than in the corresponding period in the year before. Electricity consumption amounted to 62.1 terawatt hours (TWh), which was four per cent more than one year earlier. Carbon dioxide emissions from the use of fuels increased by two per cent year-on-year.

Total energy consumption



*preliminary

Among energy sources, the growth was biggest for coal, the consumption of which rose by 17 per cent in January to September from the corresponding period of the year before. The consumption of peat declined most, by 24 per cent. The consumption of natural gas declined but was still eight per cent higher in January to September than one year earlier. In the third quarter, the consumption of natural gas diminished by 17 per cent. Changes in the price ratios of the fuel market were also visible in the demand for coal and natural gas in the third quarter.

In January to September, production of nuclear power decreased by one per cent year-on-year. The volumes of combined production and condensate production grew by 5 and 21 per cent. Among renewable electricity

production, production of hydro power grew by one per cent and production of wind power decreased by six per cent. Net imports of electricity grew by 17 per cent from the year before and accounted for 21 per cent of total electricity consumption.

In January to September, diverse energy products were imported to Finland to the value of EUR 6.5 billion, which was 33 per cent more than one year earlier. Most energy products were imported from Russia, whose share of the value of imports was 50 per cent. Energy products were exported from Finland to the value of EUR 2.8 billion. The value of exports increased by 2 per cent compared to January to September of the previous year. Energy products were exported most to OECD countries, which accounted for 65 per cent of the value of exports.

Total energy consumption by source (TJ) and CO2 emissions (Mt)

Energy source	I-III/2021*	Annual change-%	Percentage share of total energy consumption
Oil (fossil) ¹⁾	201,710	1	21
Coal ²⁾	58,444	17	6
Natural gas ³⁾	57,058	8	6
Nuclear energy ⁴⁾	179,850	-1	19
Net imports of electricity ⁵⁾	46,829	17	5
Hydro power ⁵⁾	41,444	1	1
Wind power ⁵⁾	18,859	-6	2
Peat	23,770	-24	2
Wood fuels	272,996	4	28
Others (fossil)	8,281	-3	1
Others (bio)	50,882	11	5
Others	6,168	-12	1
TOTAL ENERGY CONSUMPTION	966,291	3	100
CO2 emissions from energy sector	25	2	.

* = Preliminary data

. = Category not applicable

1) Oil: includes the bio part of transport fuels.

2) Coal: includes hard coal, coke, blast furnace gas and coke oven gas.

3) The consumption of natural gas does not include raw material use.

4) Conversion of electricity generation into fuel units: Nuclear power: 10.91 TJ/GWh (33% total efficiency)

5) Conversion of electricity generation into fuel units: Hydro power, wind power and net imports of electricity: 3.6 TJ/GWh (100%)

Contents

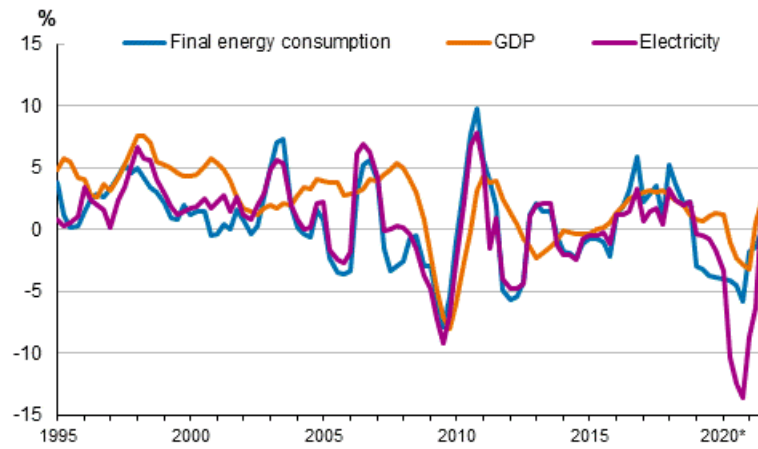
Figures

Appendix figures

Appendix figure 1. Changes in GDP, Final energy consumption and electricity consumption.....	4
Appendix figure 2. Carbon dioxide emissions from fossil fuels and peat use	4
Appendix figure 3. Coal consumption	5
Appendix figure 4. Natural gas consumption.....	5
Appendix figure 5. Energy peat consumption.....	5
Appendix figure 6. Domestic oil deliveries.....	6
Revisions in these statistics.....	7

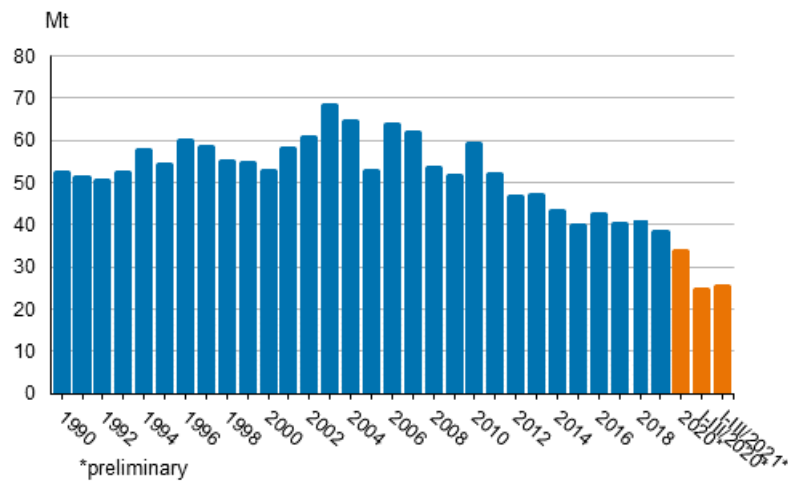
Appendix figures

Appendix figure 1. Changes in GDP, Final energy consumption and electricity consumption



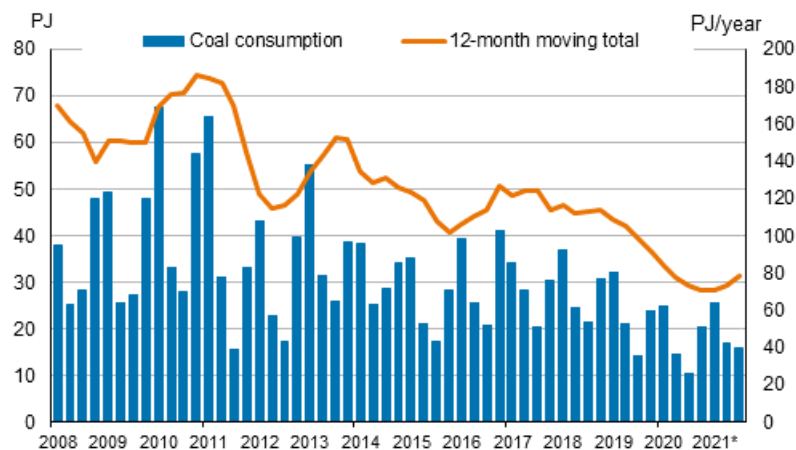
*preliminary, 12-month moving total

Appendix figure 2. Carbon dioxide emissions from fossil fuels and peat use



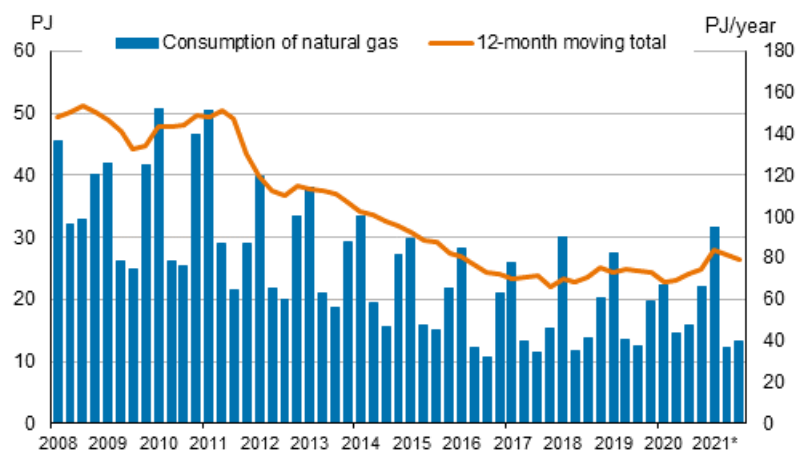
*preliminary

Appendix figure 3. Coal consumption



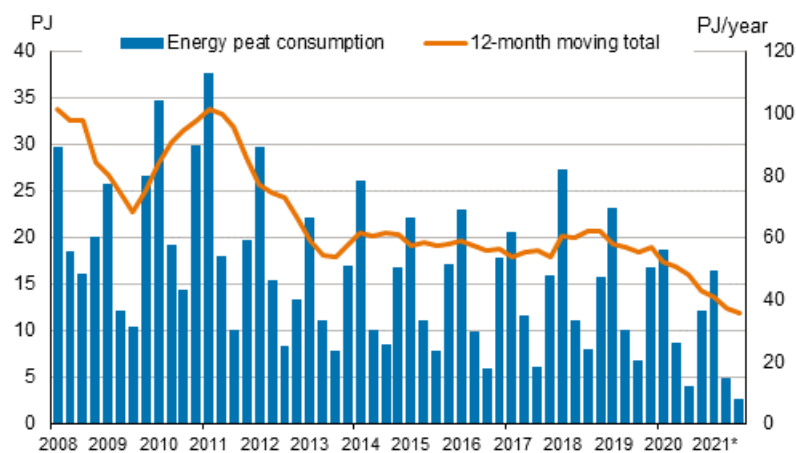
*preliminary

Appendix figure 4. Natural gas consumption



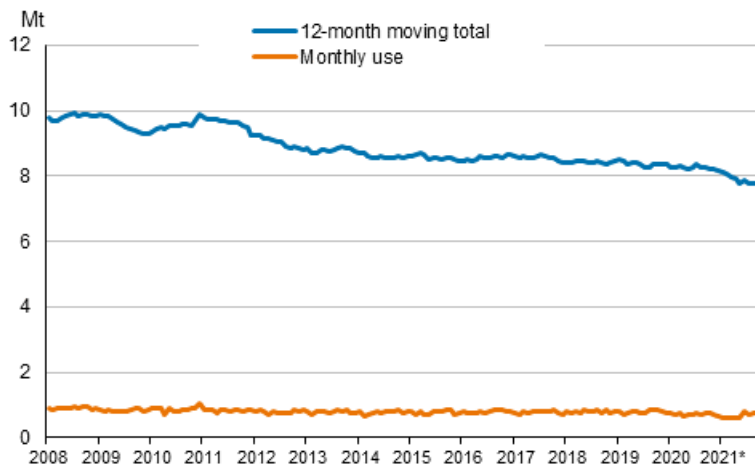
Source: Gasgrid Finland/Gasum, * preliminary

Appendix figure 5. Energy peat consumption



Source: Statistics Finland/The Bioenergy Association of Finland, *preliminary

Appendix figure 6. Domestic oil deliveries



Source: Statistics Finland/Finnish Petroleum and Biofuels Association, *preliminary

Revisions in these statistics

The data of the statistics have become revised according to the table below. For more information about data revisions, see Section 3 of the quality description (only in Finnish).

Revisions to data on annual changes in total energy consumption¹⁾

Total energy consumption and quarter	Annual change (%)		Revision (%-point)
	1st release (%)	Latest release 20th December 2021 (%)	
I-IV 2020	-6	-6	0
I/2020	-11	-9	2
II/2020	-9	-3	6
III/2020	-12	-5	7
IV/2020	-7	-7	0
I/2021	6	7	-1
II/2021	3	-1	-4
III/2021	.	1	.

. = Category not applicable

1) The revisions describe the difference between the annual change percentages of the latest and first releases in percentages. The first release refers to the time when preliminary data for the statistical reference quarter in question were released for the first time.

Inquiries

Aleksi Sandberg 029 551 3326
Head of Department in
charge:
Katri Kaaja

energia@stat.fi
www.stat.fi
Source: Statistics Finland, Energy supply and consumption