

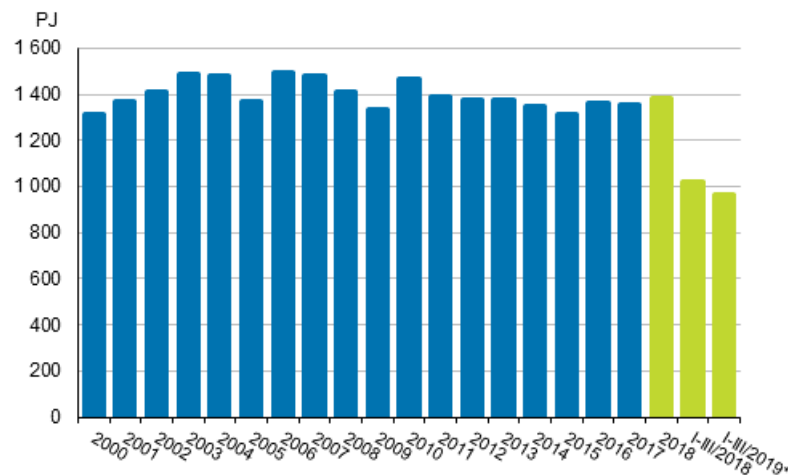
Energy supply and consumption

2019, 3rd quarter

Total energy consumption fell by 6 per cent in January to September

According to Statistics Finland's preliminary data, total energy consumption in January to September amounted to 963 petajoule (PJ), which was six per cent less than in the corresponding period in 2018. Electricity consumption amounted to 63.2 terawatt hours (TWh), or one per cent lower than one year earlier. Carbon dioxide emissions from the energy use of fuels declined by 11 per cent year-on-year.

Total energy consumption



*preliminary

The milder weather in the early part of the year compared to 2018 was the main cause of the drop in total energy consumption. Consumption of all fuels decreased in January to September from the year before. Consumption of peat declined most, by 20 per cent. Peat consumption returned to the 2017 level after rising last year. Next to coal, the decline in the consumption of peat affected the decrease in carbon dioxide emissions most. The consumption of coal fell by 15 per cent.

Production of hydro power in electricity production fell by 10 per cent and condensing power by 42 per cent January to September. Production of wind power increased by eight per cent and combined heat and

power production by five per cent. Net imports of electricity made an upturn in the third quarter but still decreased as a whole by one percent in January to September.

In the January to September period, diverse energy products were imported into Finland to the value of EUR 7.8 billion. The value of imports fell by two per cent from the previous year. Most energy products were imported from Russia, whose share of the value of imports was 64 per cent. Energy products were exported from Finland to the value of EUR 4.1 billion, which was three per cent up on the year before. Most energy products were exported from to OECD countries, which accounted for 82 per cent of the value of exports.

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

Energy source	I-III/2019*	Annual change-%*	Percentage share of total energy consumption*
Oil ¹⁾	226,209	-3	24
Coal ²⁾	70,413	-15	7
Natural gas ³⁾	53,884	-3	6
Nuclear energy ⁴⁾	182,812	5	19
Net imports of electricity ⁵⁾	53,784	-1	6
Hydro power ⁵⁾	33,006	-10	3
Wind power ⁵⁾	15,790	8	2
Peat	37,204	-20	4
Wood fuels	252,444	-10	26
Others ⁶⁾	37,761	-20	4
TOTAL ENERGY CONSUMPTION	963,307	-6	100
Bunkers	32,847	-7	.
CO2 emissions from energy sector	27	-11	.

* = 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%)

6) Others: includes exothermic heat from industry, recovered fuels, heat pumps, hydrogen, biogas, other bioenergy and solar energy.

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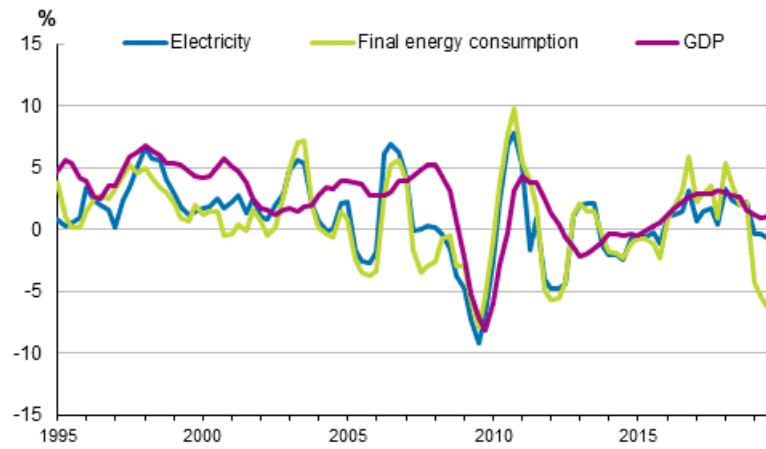
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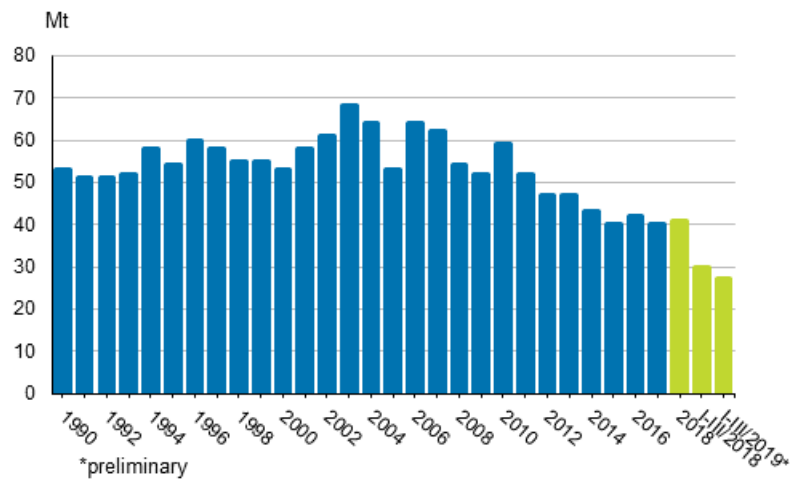
Appendix figures

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



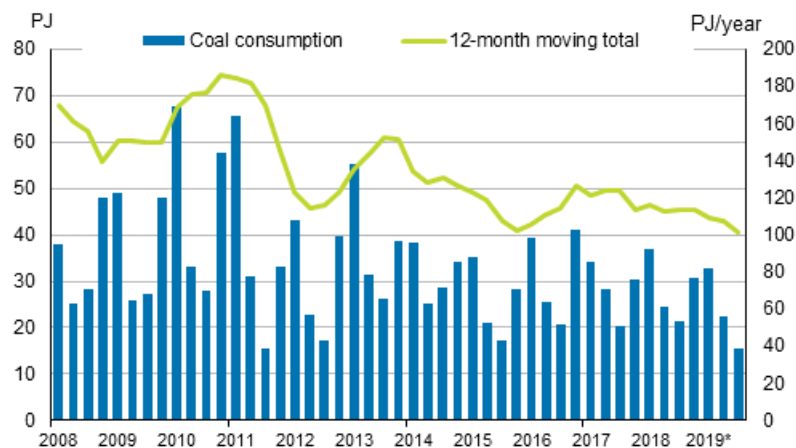
*preliminary, 12-month moving total

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



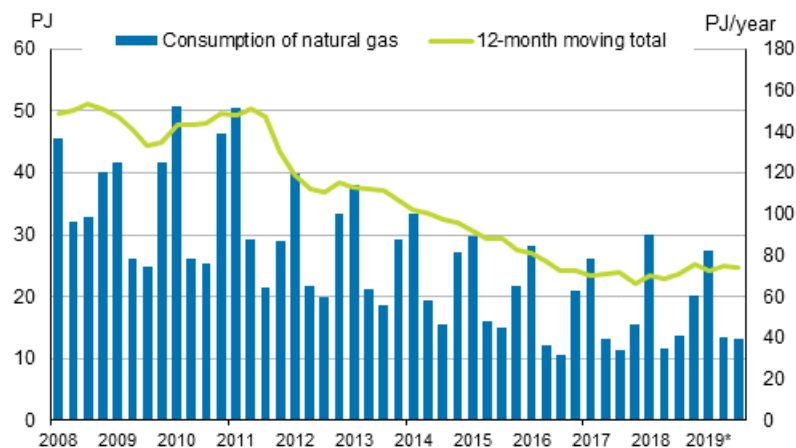
*preliminary

Appendix figure 3. Coal consumption



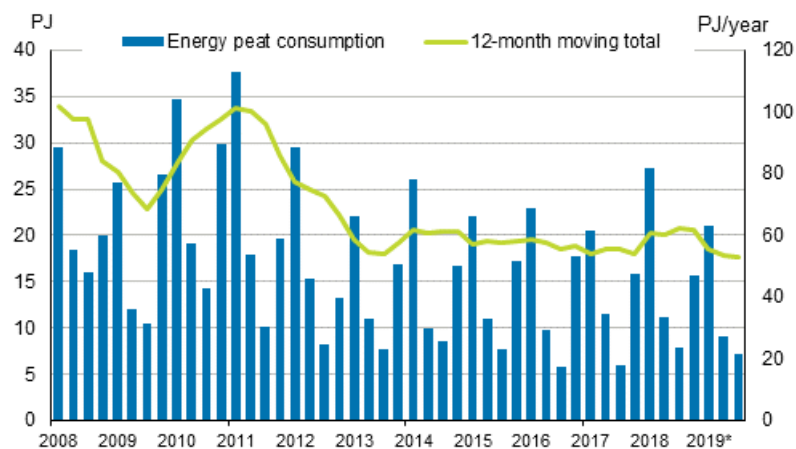
*preliminary

Appendix figure 4. Natural gas consumption



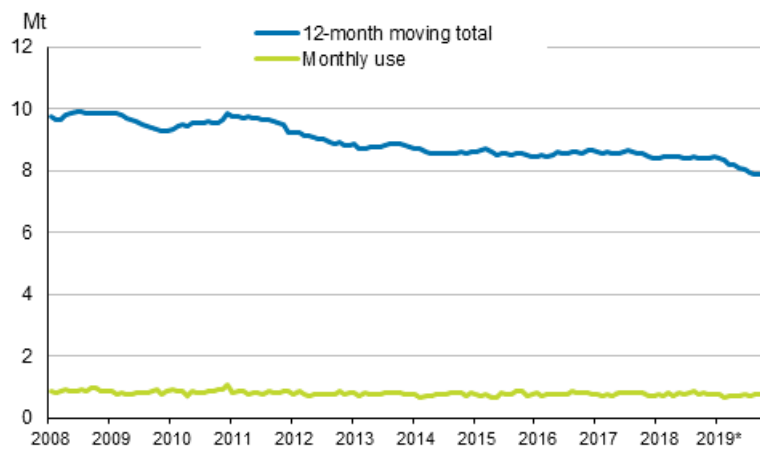
Source: Gasum, * preliminary

Appendix figure 5. Energy peat consumption



Source: The Bioenergy Association of Finland/Association of Finnish Peat Industries, *preliminary

Appendix figure 6. Domestic oil deliveries



Source: 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 26th September 2019 (%)	
I-IV 2018	2	2	0
I/2018	9	11	2
II/2018	-3	-1	2
III/2018	-3	-2	1
IV/2018	-1	-1	0
I/2019	-9	-9	0
II/2019	-3	-3	0
III/2019	.	-4	.

. = 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.

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Source: Statistics Finland, Energy supply and consumption