

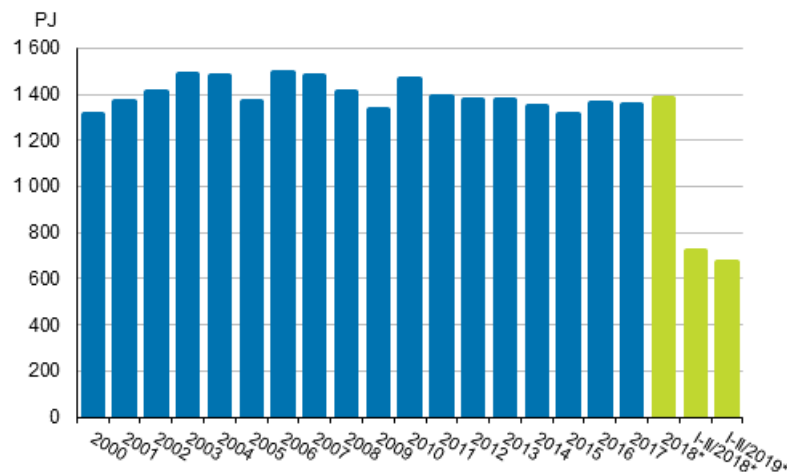
Energy supply and consumption

2019, 2nd quarter

Total energy consumption fell by 7 per cent in January to June

According to Statistics Finland's preliminary data, total energy consumption in January to June amounted to 671 petajoule (PJ), which was seven per cent less than in the corresponding period last year. Electricity consumption amounted to 44.6 terawatt hours (TWh), or one per cent lower than one year earlier. Carbon dioxide emissions from the energy use of fuels declined by 12 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. The drop in carbon dioxide emissions was mostly affected by a 22 per cent decrease in peat consumption and 10 per cent decline in coal consumption. The consumption of renewable wood fuels also decreased by 10 per cent.

Production of hydro power fell by 16 per cent and condensing power by 31 per cent. Net imports of electricity made a downturn in the second quarter and during the first six months of the year four per cent less electricity was imported than one year earlier. Production of wind power increased by 19 per cent and combined heat and power production by six per cent.

In the January to June period, diverse energy products were imported into Finland to the value of EUR 5.2 billion. The value of imports grew by three per cent compared with the corresponding period in 2018. 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 2.8 billion, which was seven per cent up on the year before. Most energy products were exported from to OECD countries, which accounted for 83 per cent of the value of exports.

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

Energy source	I-II/2019*	Annual change-%*	Percentage share of total energy consumption*
Oil ¹⁾	148,290	-4	22
Coal ²⁾	55,255	-10	8
Natural gas ³⁾	39,722	-2	6
Nuclear energy ⁴⁾	123,127	4	18
Net imports of electricity ⁵⁾	34,590	-4	5
Hydro power ⁵⁾	24,088	-16	4
Wind power ⁵⁾	11,622	19	2
Peat	30,068	-22	5
Wood fuels	174,765	-10	26
Others ⁶⁾	29,153	-23	4
TOTAL ENERGY CONSUMPTION	670,680	-7	100
Bunkers	21,388	-7	.
CO2 emissions from energy sector	19	-12	.

* = 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.

Contents

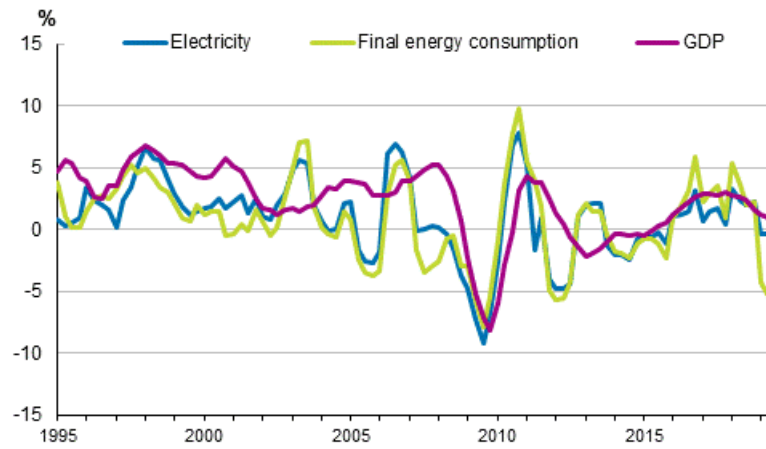
Figures

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

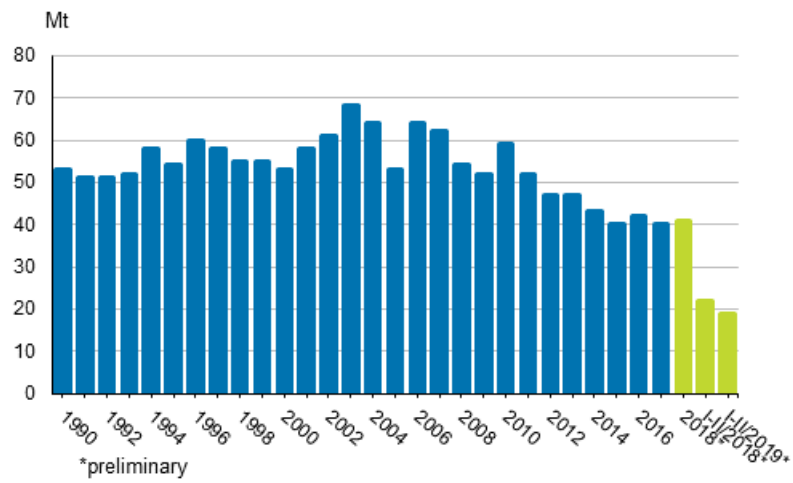
Appendix figures

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



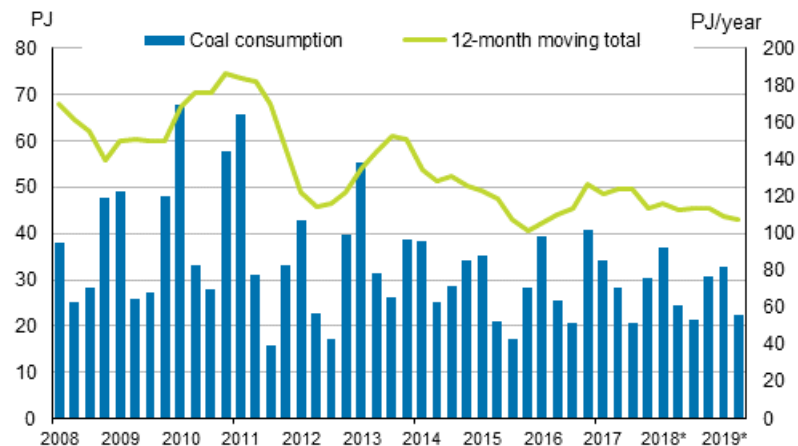
*preliminary, 12-month moving total

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



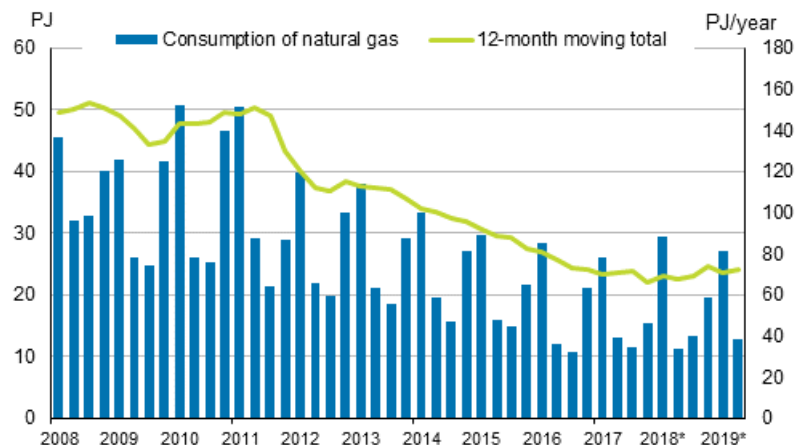
*preliminary

Appendix figure 3. Coal consumption



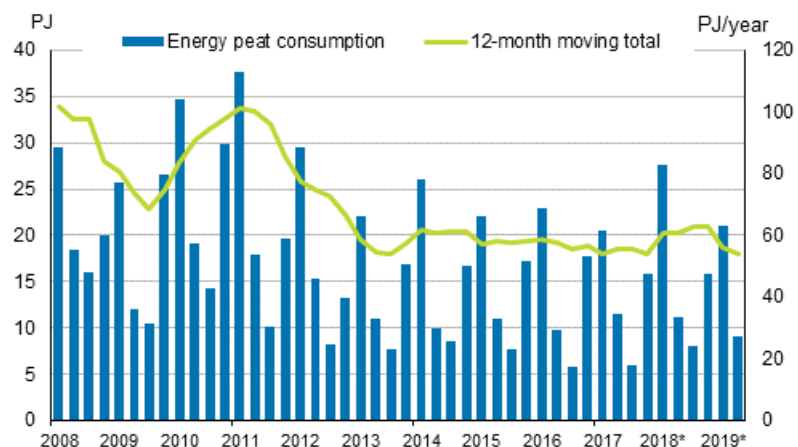
*preliminary

Appendix figure 4. Natural gas consumption



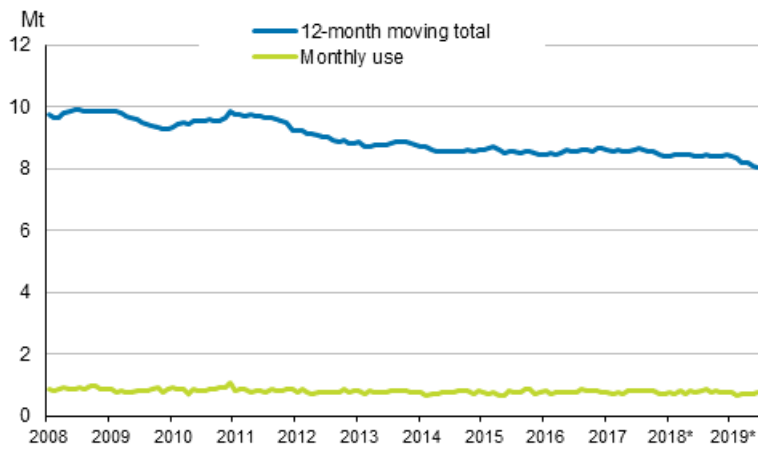
Source: Gasum, * preliminary

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	.

. = 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