

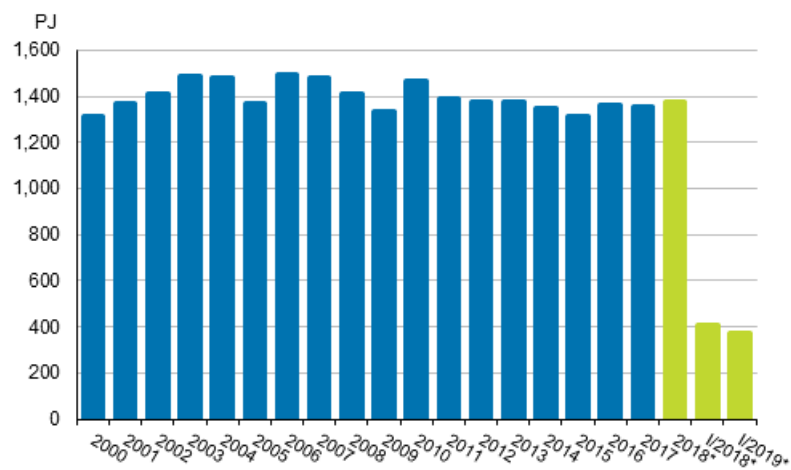
Energy supply and consumption

2019, 1st quarter

Total energy consumption fell by 9 per cent in January to March

According to Statistics Finland's preliminary data, total energy consumption in January to March amounted to 371 petajoule (PJ), which was nine per cent less than in the corresponding period in 2018. Electricity consumption amounted to 25.6 terawatt hours (TWh), that is, nearly as much as one year earlier. Carbon dioxide emissions from the energy use of fuels declined by 14 per cent year-on-year.

Total energy consumption



*preliminary

The beginning of the year was warmer than the year before, which was the most significant reason for the fall in total energy consumption. The consumption of all fuels fell in the first quarter. The consumption of peat declined most, by 24 per cent. In turn, the consumption of oil declined least, by five per cent.

Of electricity production, the production of hydro power decreased by 24 per cent and the production of condensing power by 25 per cent. Production was compensated with electricity imports, and net imports of electricity increased by 10 per cent in January to March. The production of wind power also increased, by 27 per cent, in total. Three per cent more electricity was produced with combined heat and power production than in the year before.

In January to March, diverse energy products were imported to Finland to the value of EUR 2.7 billion. The value of imports was nearly the same as in the corresponding quarter of the year before. Most energy products were imported from Russia, whose share of the value of imports was 62 per cent. Energy products were exported from Finland to the value of EUR 1.4 billion. The value of exports increased by two per cent compared to the corresponding quarter of the year before. Most energy products were exported to OECD countries, which accounted for 79 per cent of the value of exports.

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

Energy source	I/2019*	Annual change-%*	Percentage share of total energy consumption*
Oil ¹⁾	73,764	-5	20
Coal ²⁾	33,204	-10	9
Natural gas ³⁾	25,824	-13	7
Nuclear energy ⁴⁾	65,730	0	18
Net imports of electricity ⁵⁾	20,449	10	6
Hydro power ⁵⁾	11,502	-24	3
Wind power ⁵⁾	6,597	27	2
Peat	20,973	-24	6
Wood fuels	94,959	-12	26
Others ⁶⁾	18,457	-26	5
TOTAL ENERGY CONSUMPTION	371,460	-9	100
Bunkers	10,175	-10	.
CO2 emissions from energy sector	10	-14	.

* = 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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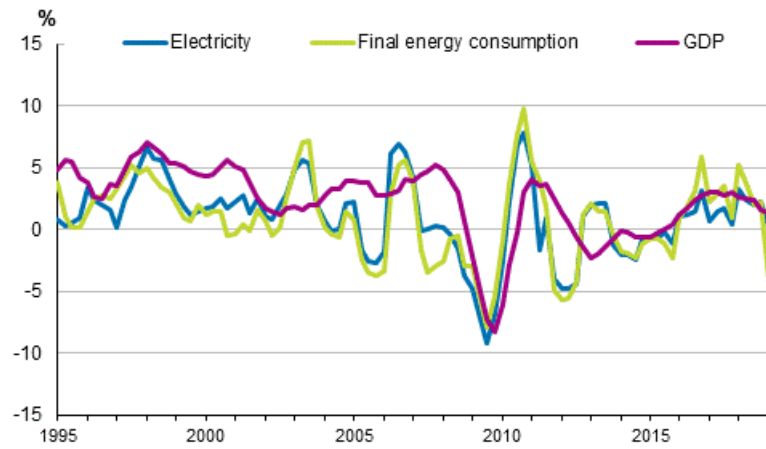
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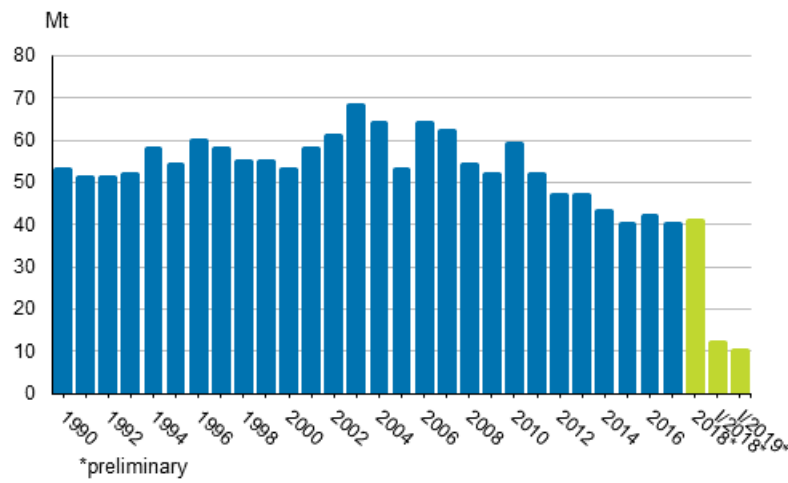
Appendix figures

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



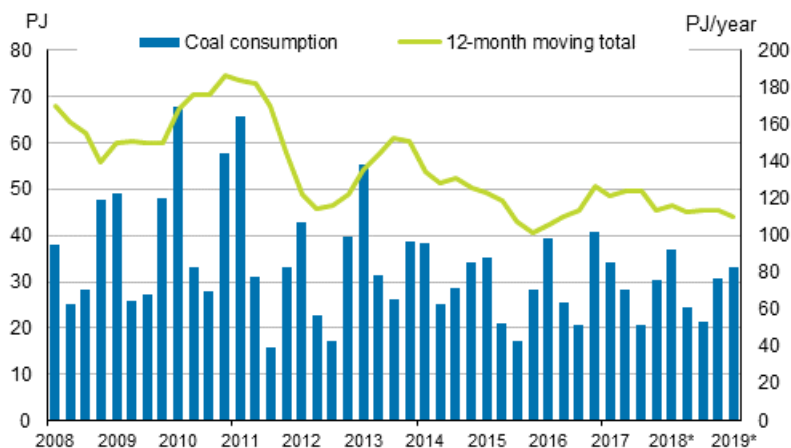
*preliminary, 12-month moving total

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



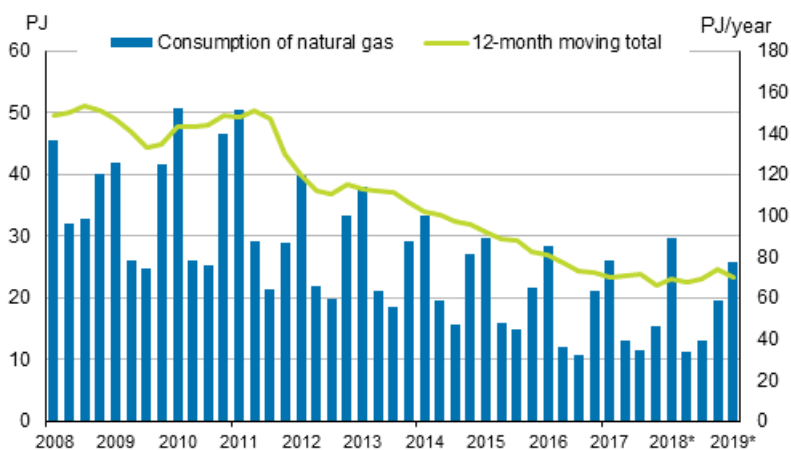
*preliminary

Appendix figure 3. Coal consumption



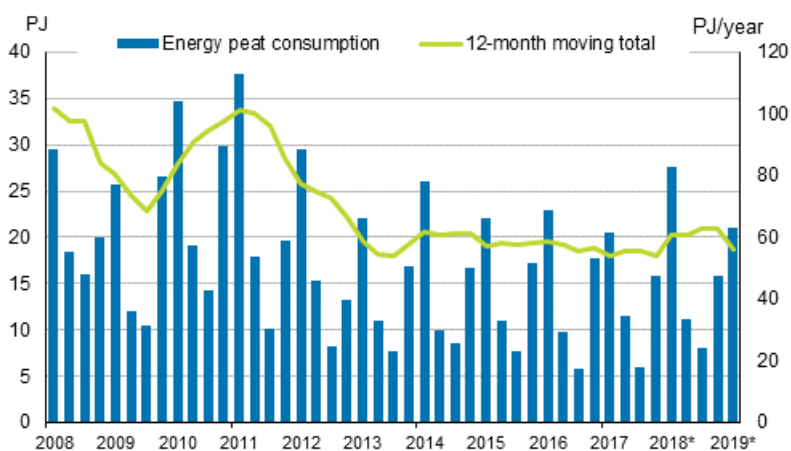
*preliminary

Appendix figure 4. Natural gas consumption



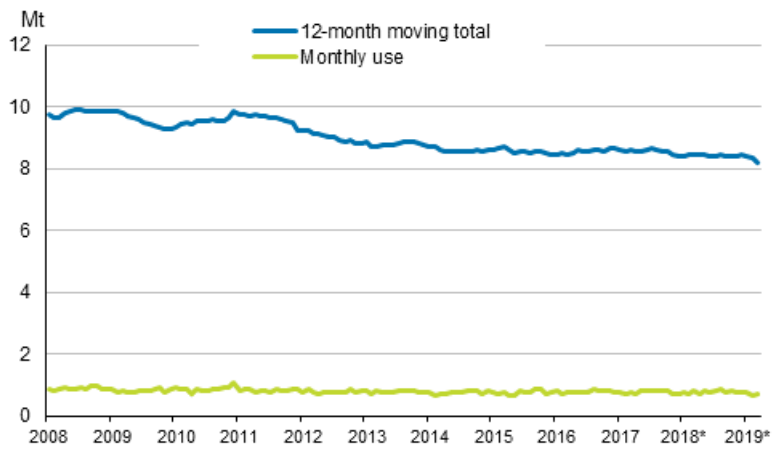
Source: Gasum, * preliminary

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 28th June 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	.

. = 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