

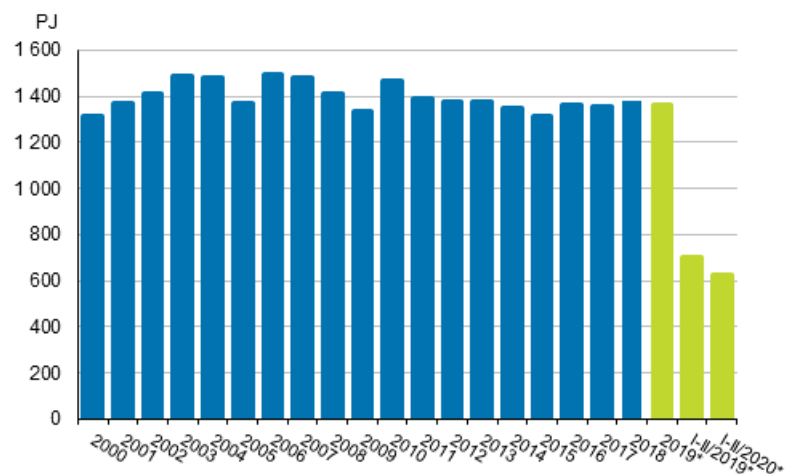
Energy supply and consumption

2020, 2nd quarter

Energy consumption in transport decreased during the corona spring

According to Statistics Finland's preliminary data, total energy consumption in January to June amounted to 628 petajoule (PJ), which was ten per cent less than in the corresponding period last year. Electricity consumption amounted to 41.6 terawatt hours (TWh), or seven per cent less than one year earlier. Carbon dioxide emissions from the energy use of fuels declined by 15 per cent year-on-year.

Total energy consumption



*preliminary

The effect of the coronavirus epidemic was visible in the consumption of oil and particularly of liquid transport fuels in the second quarter. The consumption of motor gasoline and diesel diminished by 35 and 25 per cent compared to one year ago. The consumption of jet fuel used in international air transport decreased by 90 per cent. In January to June, the consumption of oil was in total 13 per cent less than one year earlier.

Of other fossil fuels, the consumption of hard coal decreased by 26 per cent and the consumption of natural gas by 13 per cent in the first half of the year. The accelerating decrease in the consumption of coal has

been affected by the ban on the use of coal for energy, which will enter into force in 2029. The consumption of peat was 22 per cent lower than one year ago.

In January to June, total electricity consumption fell by per cent from the previous year. In addition to the warm weather, the fall in electricity consumption was affected by lower consumption of electricity in manufacturing. The significant growth in the generation of renewable electricity dependent on weather conditions in the early part of the year evened out in the second quarter. In January to June, production of hydro power and wind power increased by 24 per cent from the year before. As a result of the grown production of domestic hydro and wind power, less electricity was imported than in the year before. Net imports of electricity declined by 26 per cent from the previous year.

In January to June, diverse energy products were imported into Finland to the value of EUR 3.4 billion, which was 36 per cent less than one year earlier. Most energy products were imported from Russia, whose share of the value of imports was 55 per cent. Exports of energy products from Finland amounted to EUR 3.8 billion. The value of exports decreased by 22 per cent from the corresponding quarter of the year before. Most energy products were exported to OECD countries, which accounted for 75 per cent of the value of exports.

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

Energy source	I-II/2020*	Annual change-%*	Percentage share of total energy consumption*
Oil ¹⁾	131,149	-13	21
Coal ²⁾	39,599	-26	6
Natural gas ³⁾	35,500	-13	6
Nuclear energy ⁴⁾	124,373	1	20
Net imports of electricity ⁵⁾	25,691	-26	4
Hydro power ⁵⁾	29,784	24	5
Wind power ⁵⁾	14,268	24	2
Peat	25,834	-22	4
Wood fuels	166,187	-14	27
Others ⁶⁾	34,882	-5	6
TOTAL ENERGY CONSUMPTION	627,537	-10	100
Bunkers	13,842	-43	.
CO2 emissions from energy sector	17	-15	.

* = 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

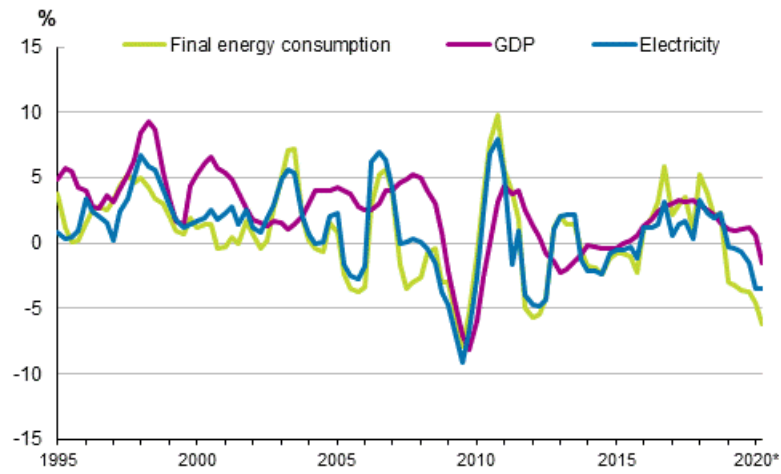
Figures

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

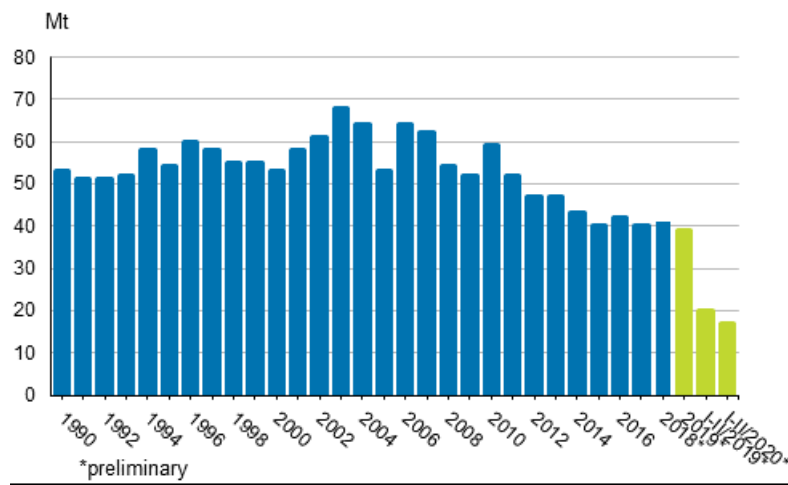
Appendix figures

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



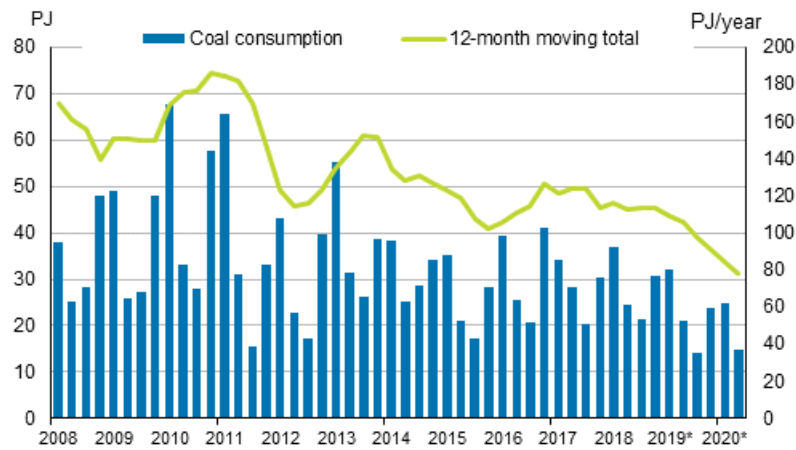
*preliminary, 12-month moving total

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



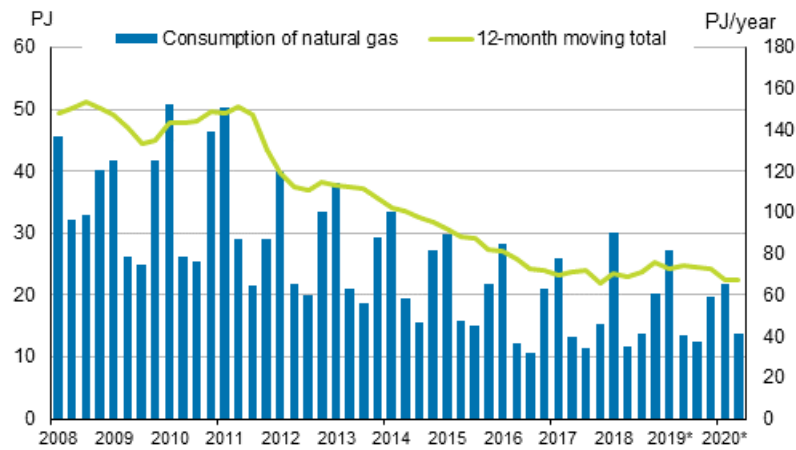
*preliminary

Appendix figure 3. Coal consumption



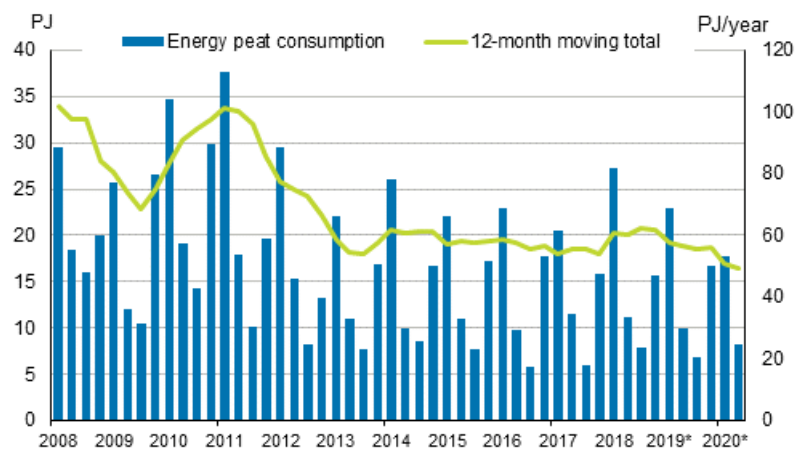
*preliminary

Appendix figure 4. Natural gas consumption



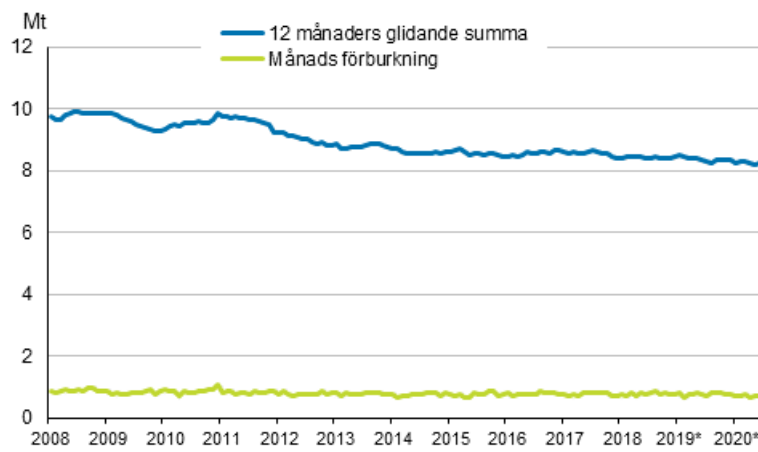
Source: Gasgrid Finland/Gasum, * preliminary

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 30th September 2020 (%)	
I-IV 2019	-1	-1	0
I/2019	-9	-5	4
II/2019	-3	1	4
III/2019	-4	0	4
IV/2019	1	1	0
I/2020	-11	-11	0
II/2020	.	-10	.

. = 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
Mari Ylä-Jarkko

energia@stat.fi

www.stat.fi

Source: Statistics Finland, Energy supply and consumption