

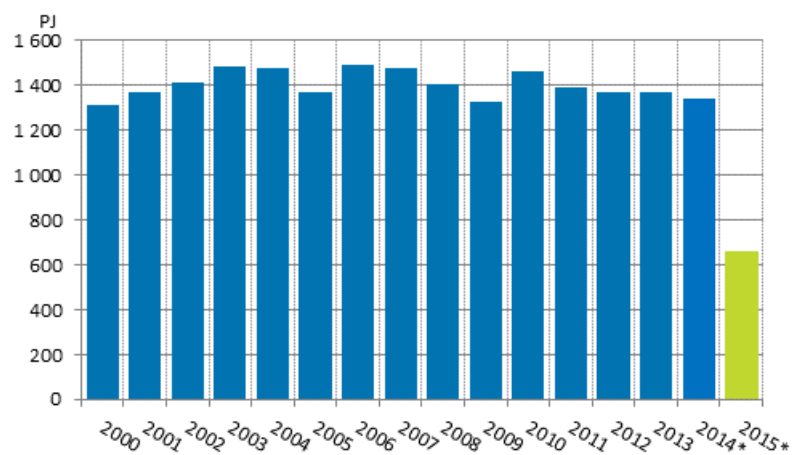
Energy supply and consumption

2015, 2nd quarter

Total energy consumption fell by 5 per cent in January to June

According to Statistics Finland's preliminary data, total energy consumption in January to June amounted to 660 PJ (petajoule), which was almost five per cent less than in the corresponding period in 2014. Electricity consumption amounted to 42 terawatt hours (TWh), which is one per cent lower than one year earlier. Carbon dioxide emissions from the production of energy decreased by nine per cent year-on-year.

Total energy consumption



*preliminary

Among individual energy sources, the largest reduction of 17 per cent was seen in the consumption of peat in the January to June period. The consumption of coal (including hard coal, coke, and blast furnace and coke oven gas) decreased by 15 per cent and that of natural gas by 13 per cent. In turn, the consumption of oil grew by one per cent and that of wood fuels fell by four per cent.

The low price of electricity in the Nordic electricity market weakened the profitability of electricity production by reducing the generation of electricity based on burning. In the first half of the year, 18 per cent less electricity was produced with condensate power than in the corresponding period of last year. Electricity generated in combined heat and power production went down by four per cent. Electricity

generated with nuclear power decreased by five per cent, which is mainly explained by a nearly three-week extra maintenance shutdown of one nuclear power plant unit.

More energy than one year earlier was produced with renewable energy sources, hydro and wind power. The production of hydro power increased by nine per cent due to heavy rains. During the year, a large number of new wind farms have been set up in Finland and the production of wind power grew by as much as 117 per cent.

Net imports of electricity contracted by four per cent in January to June compared with the corresponding period of the previous year. Imports from the Nordic countries went down by 12 per cent. The volume of energy imported from Russia in turn grew by 95 per cent on account of the low level in last year's corresponding period. In June, a low volume of electricity was exported for the first time to Russia for commercial reasons.

In January to June, diverse energy products were imported into Finland to the value of EUR four billion, which was 37 per cent less than one year earlier. Most energy products were imported from Russia, whose share of the value of imports was 59 per cent. Energy products were exported to the value of EUR 1.7 billion, which was 49 per cent less than one year previously. The contraction of exports was most significant for oil products due to maintenance shutdowns in production. Most energy products were exported from Finland to EU countries, which accounted for 86 per cent of the value of exports.

In June, stocks of coal amounted to 24 TWh, which was five per cent more than one year earlier. At the end of June, it was estimated that the peat stocks contained 13 TWh of energy peat, which was 11 per cent more than one year earlier.

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

Energy source ⁴⁾	I-II/2015*	Annual change-%*	Percentage share of total energy consumption*
Oil	149,775	1	23
Coal ¹⁾	57,765	-15	9
Natural gas	44,240	-13	7
Nuclear Energy ²⁾	118,479	-5	18
Net Imports of Electricity ³⁾	29,590	-4	5
Hydro power ³⁾	29,973	9	5
Wind power ³⁾	3,927	117	1
Peat	30,507	-17	5
Wood fuels	170,741	-4	26
Others	24,920	1	4
TOTAL ENERGY CONSUMPTION	659,917	-5	100
Bunkers	18,485	32	.
CO ₂ emissions from energy sector	21	-9	.

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

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

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

4) *Preliminary

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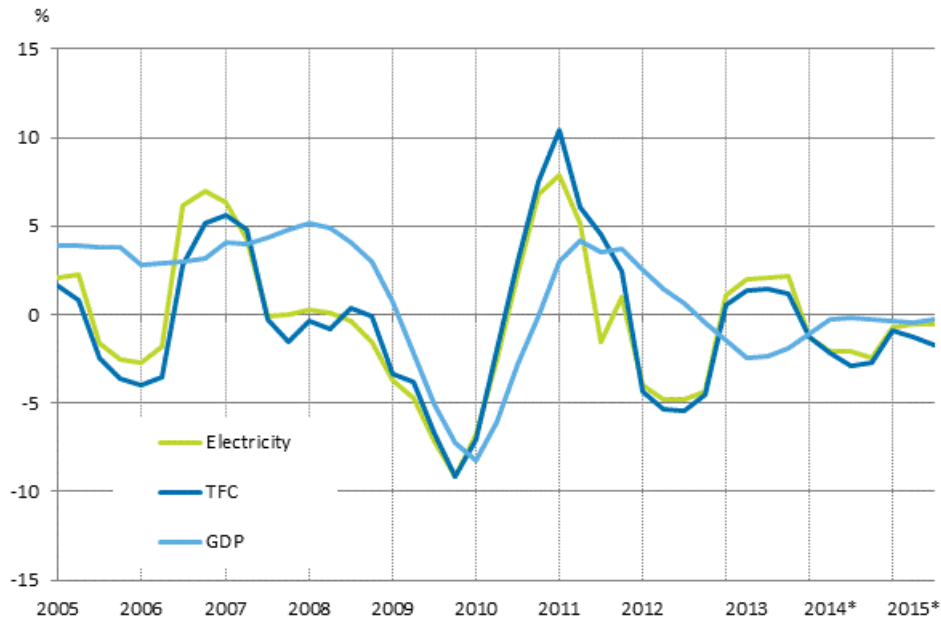
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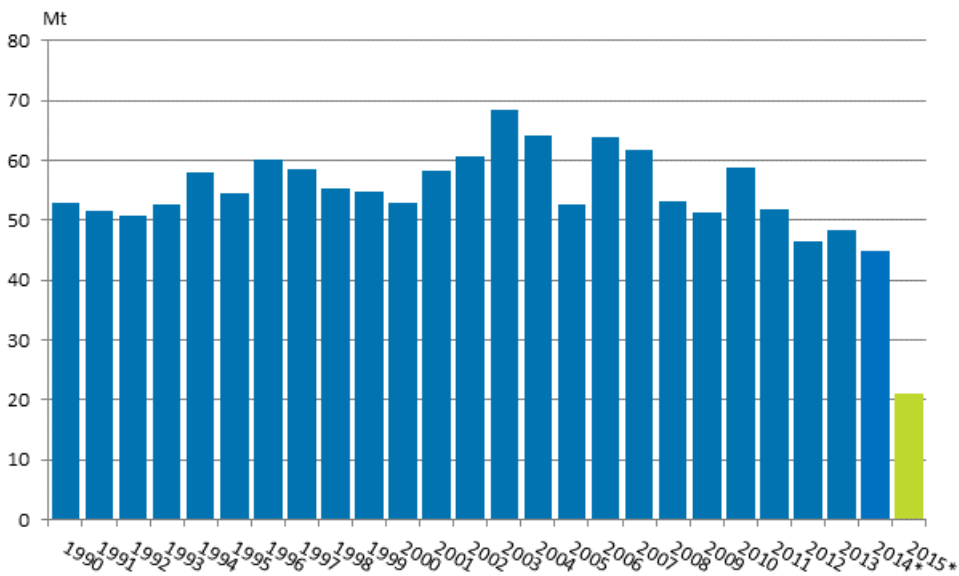
Appendix figures

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



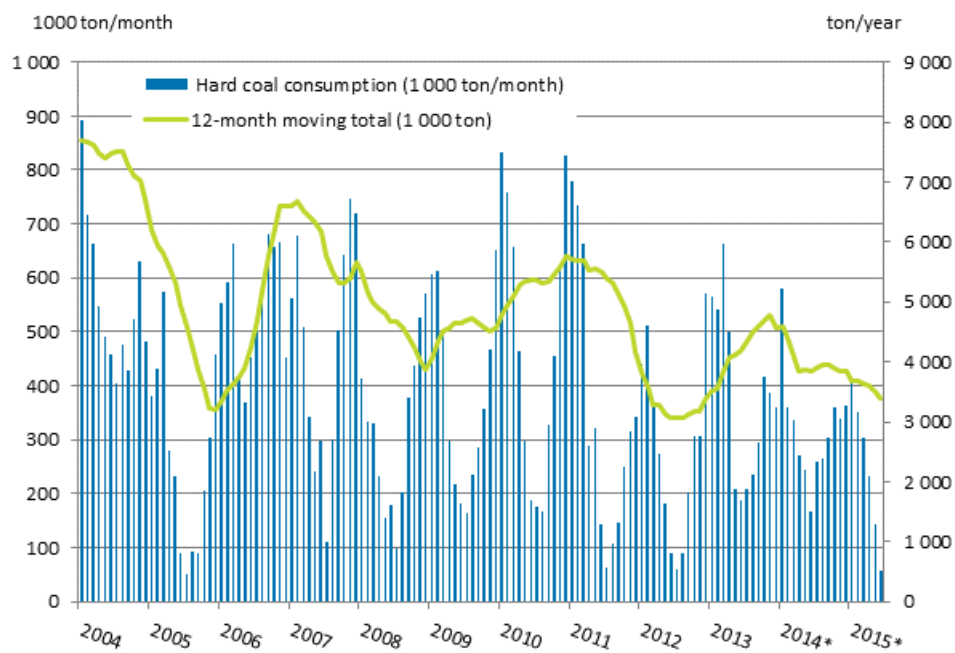
*preliminary, 12-month moving total

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



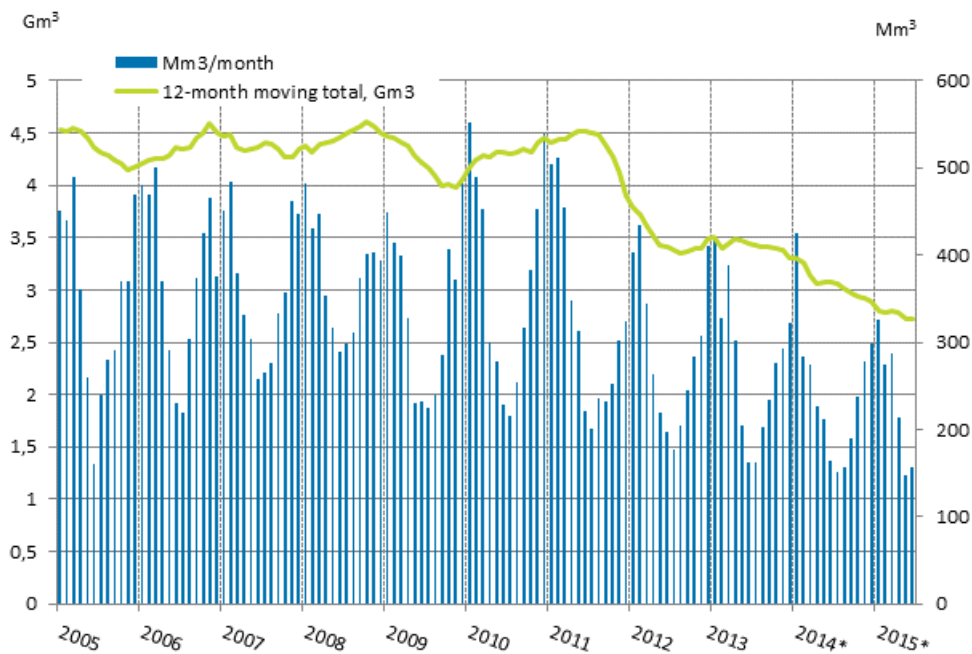
*preliminary

Appendix figure 3. Hard coal consumption



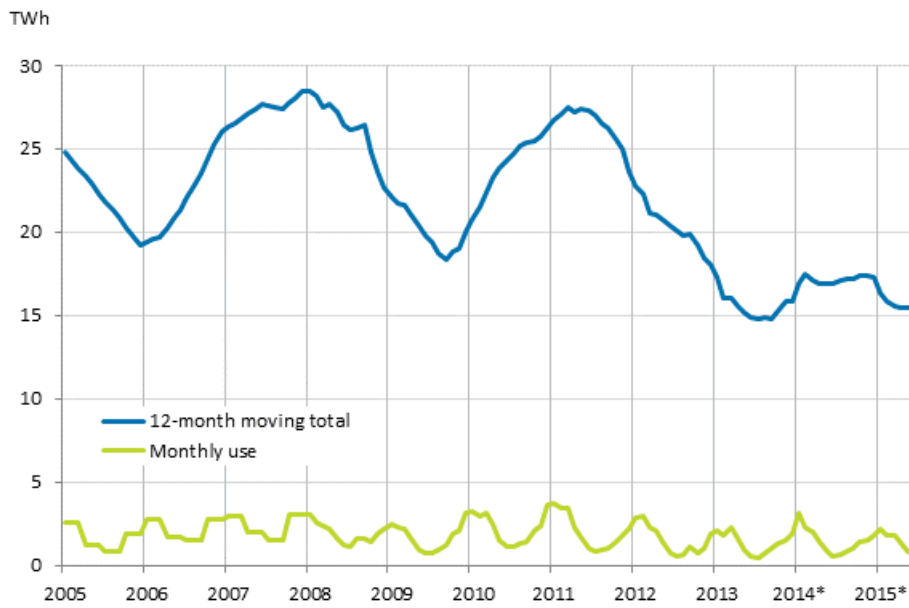
*preliminary

Appendix figure 4. Consumption of natural gas



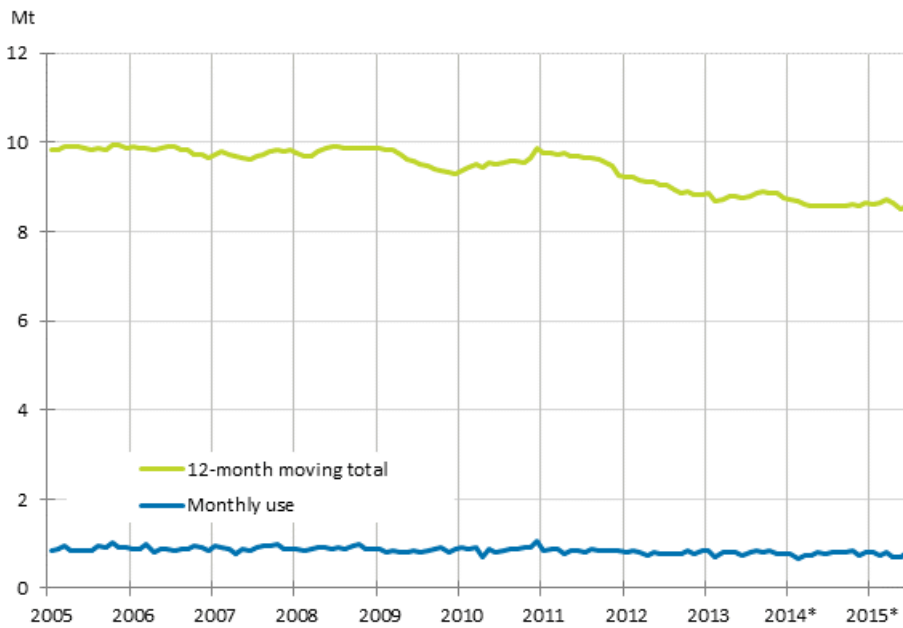
Source: Gasum, * preliminary

Appendix figure 5. 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 21.9.2015 (%)	
Total energy consumption	I-IV 2014	-2	-2	0
	I/2014	-5	-6	-1
	II/2014	-5	-3	2
	III/2014	2	0	-2
	IV/2014	1	1	0
	I/2015	-6	-6	0
	II/2015	.	-3	.

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