

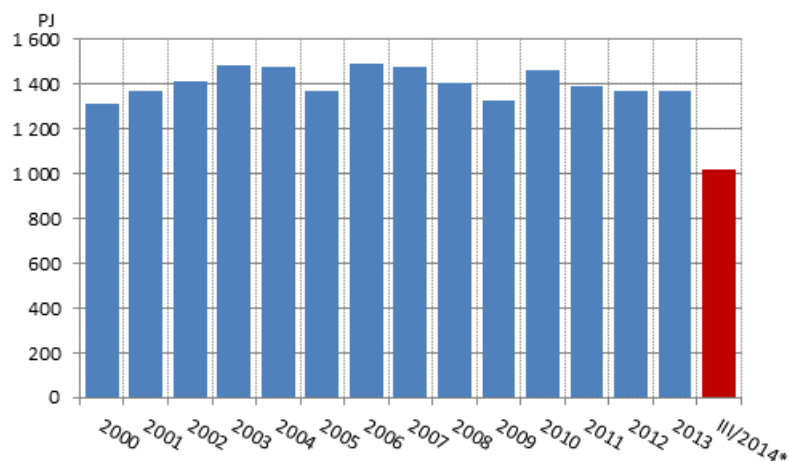
Energy supply and consumption

2014, 3rd quarter

Total energy consumption remained at the level of last year in January to September

According to Statistics Finland's preliminary data, total energy consumption in January to September amounted to around 1,017 PJ (petajoule), which was 0.3 per cent less than in the corresponding period in 2013. Electricity consumption amounted to 60.8 terawatt hours (TWh), which is 1.6 per cent lower than one year earlier. Net imports of electricity increased by 26 per cent, which also decreased the production of condensate power by 25 per cent. Carbon dioxide emissions from the production of energy decreased by 3.6 per cent year-on-year.

Total energy consumption



*preliminary

Of individual energy sources, consumption of natural gas decreased most in January to September, by 16 per cent (12 PJ). The consumption of natural gas declined by 11 per cent (4.2 PJ) and that of oil by around five per cent (11 PJ). The consumption of coal (including hard coal, coke, and blast furnace and coke oven gas), in turn, increased by 10 per cent (11 PJ). The consumption of wood fuels increased by around three per cent (8.1 PJ).

Domestic production of electricity decreased by close on 6 per cent year-on-year. Net imports of electricity to Finland went up by 16 per cent and its share of all consumed electricity was 22 per cent. Imports of electricity from Sweden increased by 62 per cent. Imports from Russia, in turn, went down by 47 per cent. Electricity exports to Estonia nearly trebled. The warm early part of the year affected the drop in the volume of electricity generated in combined heat and power production by 8 per cent in January to September. The production of condensate power went down by 25 per cent, primarily due to the improved water situation in the Nordic countries in the early part of the year compared to last year. The production of wind power grew by 56 per cent.

In January to September, diverse energy products were imported into Finland to the value of EUR 9.4 billion, which was 10 per cent less than one year earlier. Most energy products were imported from Russia. Correspondingly, energy products were exported from Finland to the value of EUR 4.7 billion, which was 8 per cent less than one year previously. Most energy products were exported to EU countries.

In September, stocks of coal amounted to some 25 TWh, which was 13 per cent more than one year earlier. Stocks of fuel peat were estimated to be around 24 TWh, which was as much as one year ago.

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

Energy source ⁴⁾	I-III/2014*	Annual change-%*	Percentage share of total energy consumption*
Oil	226,353	-4.5	22
Coal ¹⁾	123,961	10	12
Natural gas	65,503	-16	6
Nuclear Energy ²⁾	180,760	-0.8	18
Net Imports of Electricity ³⁾	47,879	16	5
Hydro and Wind Power ³⁾	38,712	2.7	4
Peat	35,941	-11	4
Wood fuels	262,246	3.2	26
Others	35,259	-3.9	4
TOTAL ENERGY CONSUMPTION	1,016,614	-0.3	100
Bunkers	19,483	-20	.
CO2 emissions from energy sector	34	-3.6	.

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

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 use4

Appendix figure 3. Coal consumption5

Appendix figure 4. Consumption of natural gas5

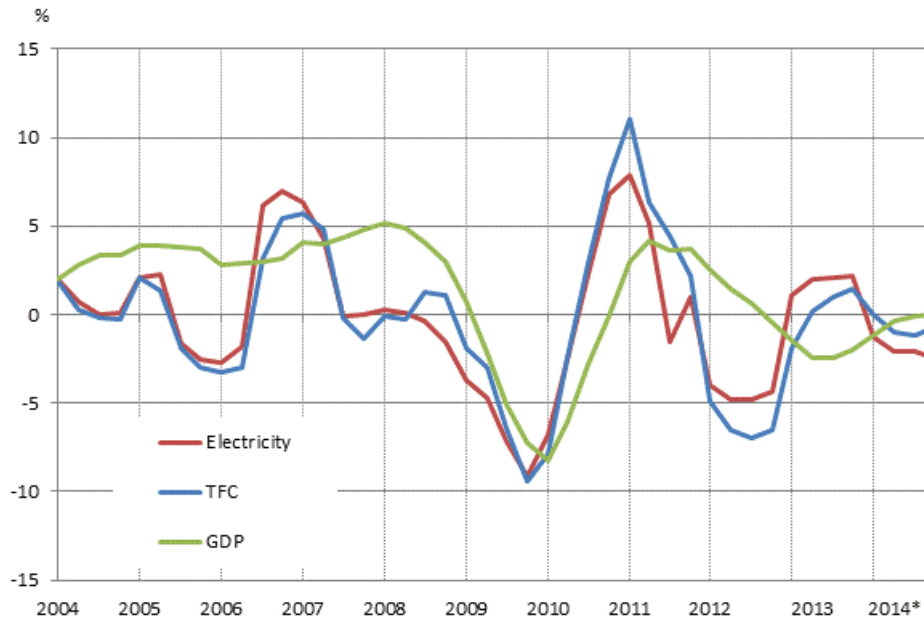
Appendix figure 5. Peat consumption.....6

Appendix figure 6. Domestic oil deliveries.....6

Revisions in these statistics.....7

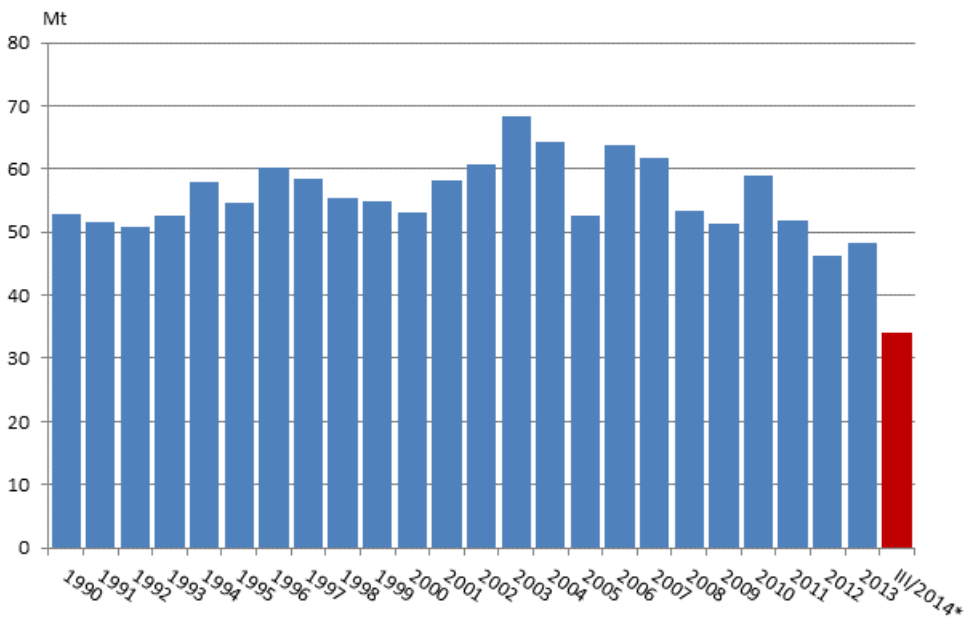
Appendix figures

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



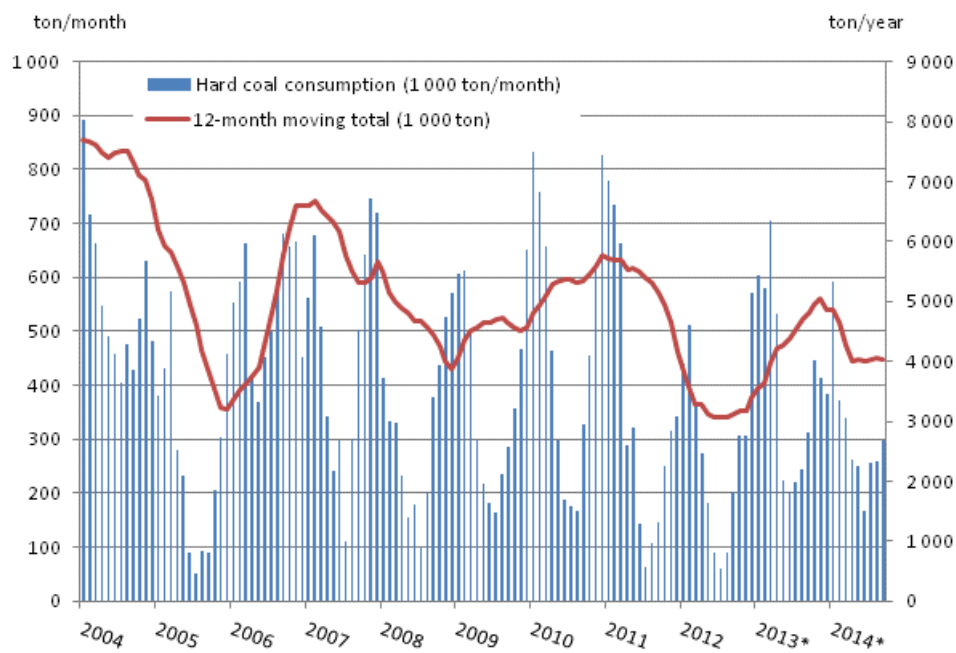
*preliminary, 12-month moving total

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



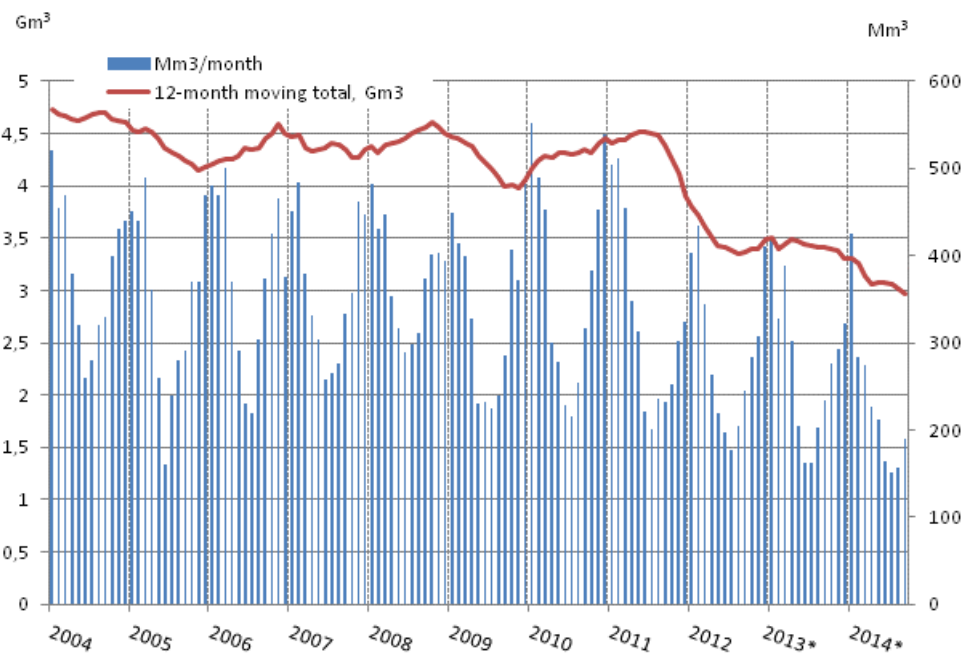
*preliminary

Appendix figure 3. Coal consumption



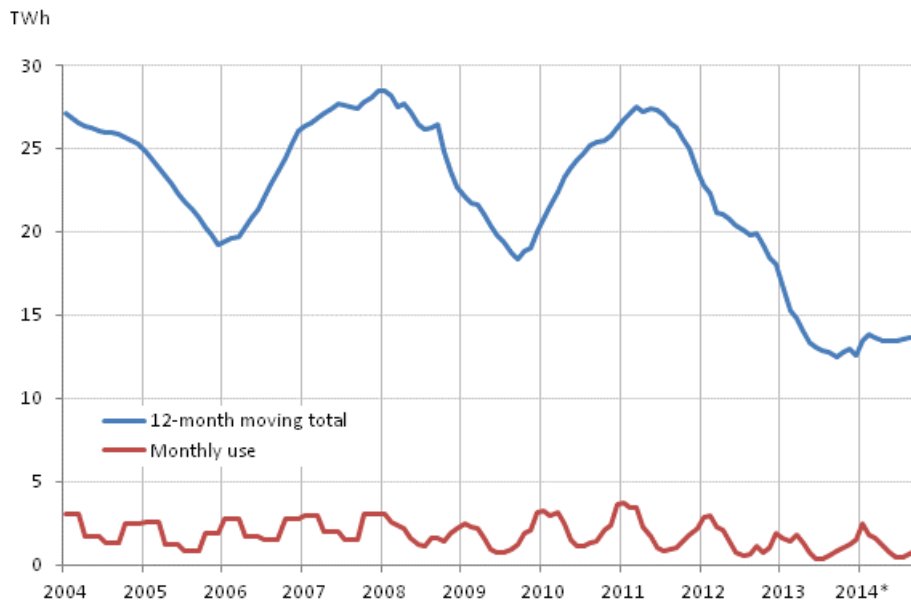
*preliminary

Appendix figure 4. Consumption of natural gas



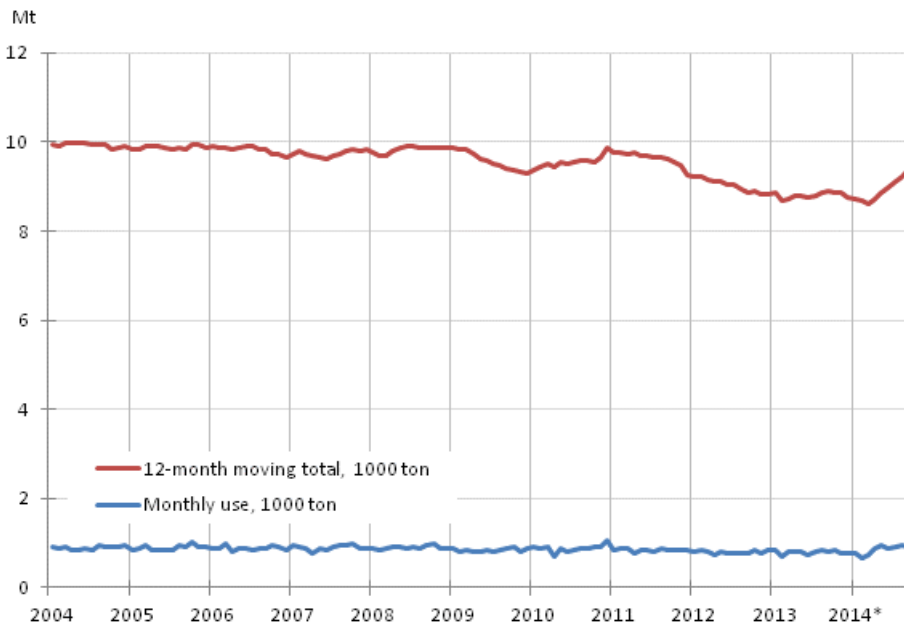
Source: Gasum, * preliminary

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 Federation, *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 19.12.2014 (%)	
Total energy consumption	I-IV 2013	-2	0	2
	I/2013	-1	0	1
	II/2013	2	2	0
	III/2013	0	2	2
	IV/2013	-5	-3	2
	I/2014	-5	-3	2
	II/2014	-5	1	6

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