

# Energy prices

2012, 2nd quarter

## Price of electricity began to fall

The total price of electricity fell for all consumer groups in the second quarter of the year. The consumer prices of electricity began to fall after the first quarter. The prices of electricity for enterprise and corporate clients have been falling for a longer time already. The prices of district heat rose for all consumer groups, and those of transport fuels also went up in the second quarter.

### Energy prices in heat production in Juni 2012

Energy source	<sup>1)</sup> Price €/MWh	Annual change-%
<sup>2)</sup> Hard coal (VAT 0%)	28.71	-6.1
Natural gas (VAT 0%)	47.62	11.5
Forest chips (VAT 0%)	18.63	-0.4
Milled peat (VAT 0%)	13.12	3.3

1) Inclusive of excise duties. The prices of forest chips and milled peat are from the second quarter.

2) The price is preliminary.

### Consumer prices of heating energy in Juni 2012

Energy source	<sup>1)</sup> Price €/MWh	Annual change-%
Light fuel (VAT 23%)	105.0	-1.5
Household energy, K2 (VAT 23%)	149.8	-2.7
District heat, terraced house / low-rise block of flats (VAT 23%)	70.14	5.6

1) The price of district heat is from July 2012

The consumer prices of electricity fell by between about one and four per cent year-on year by consumer group in the second quarter. The prices of electricity for enterprise and corporate clients fell by around ten per cent year-on-year in the second quarter. The system price of the Nordic electricity exchange was 40 to 50 per cent and the area price for Finland 30 to 40 per cent lower in the second quarter than one year earlier. In the first half of the year, electricity consumption decreased by 2.4 per cent in Finland.

The consumer price of district heat was in July about three to six per cent higher, on the average, than one year previously. The price of milled peat used in heat production was three per cent higher in the second quarter of the year than twelve months earlier. The price of forest chippings fell by 0.4 per cent from one year back. The price of coal used in separate heat production fell by some four per cent. The price of

natural gas was 14 per cent higher in heat production than one year earlier. The price of motor gasoline was about six per cent higher, on the average, and that of diesel oil some 11 per cent higher in the second quarter than twelve months previously.

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# Appendix tables

Appendix table 1. Energy taxes, precautionary stock fees and oil pollution fees

Date	Fuels <sup>1)</sup>							Electricity				
								Consumption		Production		
	Motor-gasoline, unleaded <sup>2)</sup>	Diesel fuel <sup>3)</sup>	Light fuel oil <sup>12)</sup>	Heavy fuel oil	<sup>11)</sup> Hard coal	Natural gas	Peat	Electricity, I <sup>4)</sup>	Electricity, II <sup>5)</sup>	Nuclear power	Hydro power	Imports
	c/l		c/kg	€/t	c/nm <sup>3</sup>	€/MWh	c/kWh					
<b>Excise taxes <sup>10)</sup></b>												
1.1.1990	21,53	16,82	0,34	0,34	2,69	0,17	0,34	-	-	-	-	-
1.1.1991	26,57	17,49	0,35	0,35	2,83	0,18	0,35	-	-	-	-	-
1.1.1992	28,26	17,49	0,35	0,35	2,83	0,18	0,35	-	-	-	-	-
1.8.1992	31,62	17,49	0,35	0,35	2,83	0,18	0,35	-	-	-	-	-
1.1.1993	39,52	19,17	1,41	1,12	5,61	0,35	0,70	0,25	0,25	0,10	-	0,10
1.7.1993	39,52	16,65	1,41	1,12	5,61	0,35	0,70	0,25	0,25	0,10	-	0,10
1.1.1994	40,05	17,29	2,05	1,98	11,30	1,09	0,35	-	-	0,35	0,03	0,22
1.1.1995	45,12	27,50	3,02	3,12	19,53	0,94	0,59	-	-	0,40	0,07	0,37
1.1.1996	51,85	27,50	3,02	3,12	19,53	0,94	0,59	-	-	0,40	0,07	0,37
1.1.1997	51,85	27,50	4,88	3,72	28,42	1,19	0,71	0,40	0,4	-	-	-
1.4.1997	51,85	27,50	4,88	3,72	28,42	1,19	0,71	0,56	0,24	-	-	-
1.1.1998	55,22	30,02	5,50	4,34	33,40	1,40	0,82	0,56	0,34	-	-	-
1.9.1998	55,22	30,02	6,37	5,40	41,37	1,73	1,51	0,69	0,42	-	-	-
1.1.2003	58,08	31,59	6,71	5,68	43,52	1,82	1,59	0,73	0,44	-	-	-
1.7.2005	58,08	31,59	6,71	5,68	43,52	1,82	-	0,73	0,44	-	-	-
1.1.2007	58,08	31,59	6,71	5,68	43,52	1,82	-	0,73	0,22	-	-	-
1.1.2008	62,02	36,05	8,35	6,42	49,32	2,016	-	0,87	0,25	-	-	-
1.1.2011	62,02	36,05	15,7	18,51	126,91	8,94	1,9	1,69	0,69	-	-	-
1.1.2012	64,36	46,60	15,7	18,51	126,91	8,940	1,9	1,69	0,69	-	-	-
<b>Energy content tax <sup>8)</sup></b>												
1.1.2011	50,36	-	7,70	8,79	54,54	3,00	-	-	-	-	-	-
1.1.2012	50,36	30,70	7,70	8,79	54,54	3,00	-	-	-	-	-	-
<b>Carbon dioxide tax <sup>9)</sup></b>												
1.1.2011	11,66	-	8,00	9,72	72,37	5,94	-	-	-	-	-	-
1.1.2012	14,00	15,90	8,00	9,72	72,37	5,94	-	-	-	-	-	-
<b>Energy tax <sup>7)</sup></b>												
1.1.2011	-	-	-	-	-	-	1,9	1,69	0,69	-	-	-
<b>Strategic stockpile fees</b>												
1.7.1984	0,72	0,39	0,39	0,32	1,48	-	-	-	-	-	-	-
1.1.1997	0,68	0,35	0,35	0,28	1,18	0,084	-	0,013	0,013	-	-	-
<b>Oil pollution fees <sup>6)</sup></b>												
1.1.1990	0,28	0,031	0,031	0,037	-	-	-	-	-	-	-	-
1.1.2005	0,038	0,042	0,042	0,050	-	-	-	-	-	-	-	-
1.1.2010	0,113	0,126	0,126	0,150	-	-	-	-	-	-	-	-

1) Fuels in electricity production tax-exempt since 1 January 1997

2) Reformulated, since 1 January 1993, also sulphur-free since 1 September 2004. Fossil fuel

3) Sulphur-free, sulphur content < 50 ppm since 1 July 1993, sulphur content < 10 ppm since 1 September 2004. Fossil fuel.

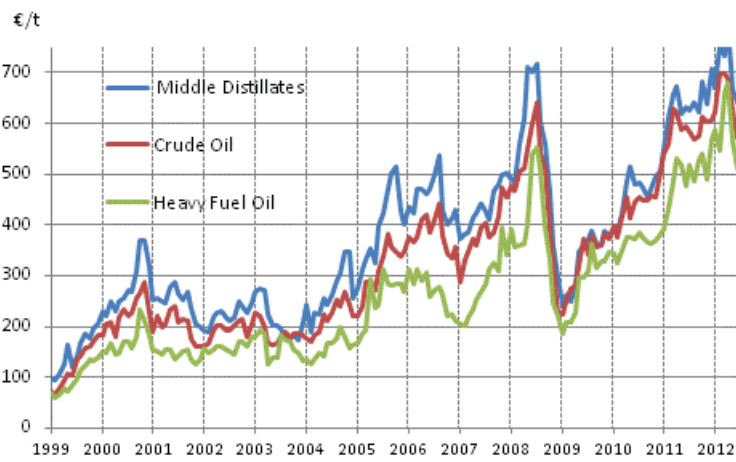
4) Tax class I: others

5) Tax class II: industry and professional greenhouses

- 6) Fee for imported oil and oil products: 1,50 €/t
- 7) Energy tax included in excise taxes
- 8) Energy content tax included in excise taxes
- 9) Carbon dioxide tax included in excise taxes
- 10) Excise taxes contain energy content tax,, carbon dioxide tax, and energy tax
- 11) Excise taxes for hard coal is in the heat production. In CHP use excise tax is lower.
- 12) Fossil fuel.

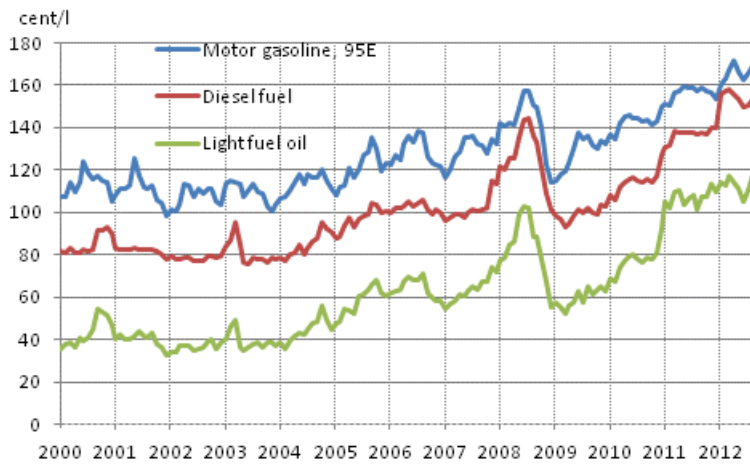
# Appendix figures

**Appendix figure 1. Import prices of oil**



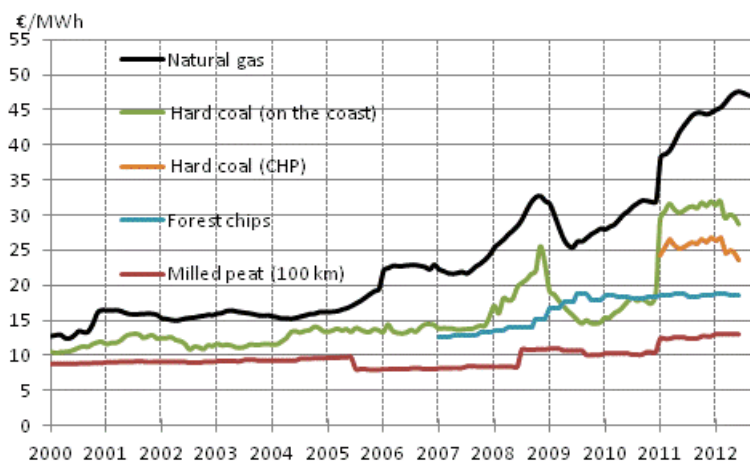
Source: National Board of Customs/Foreign Trade Statistics

**Appendix figure 2. Consumer prices of principal oil products**



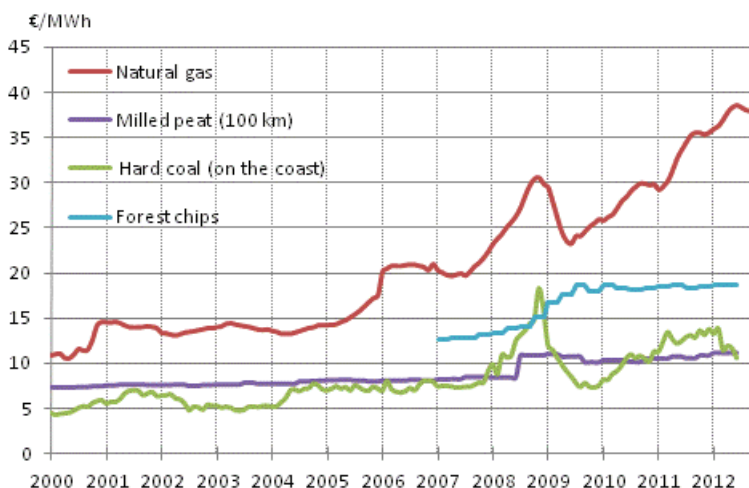
Source: Finnish Petroleum Federation

### Appendix figure 3. Fuel Prices in Heat Production



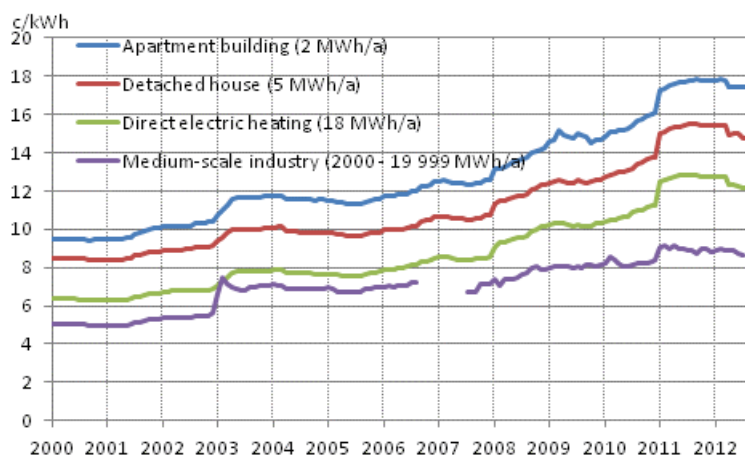
Sources: National Board of Customs/Foreign Trade Statistics, Gasum Oy, Association of Finnish Peat Industries, Finnish Petroleum Federation

### Appendix figure 4. Fuel prices in electricity production



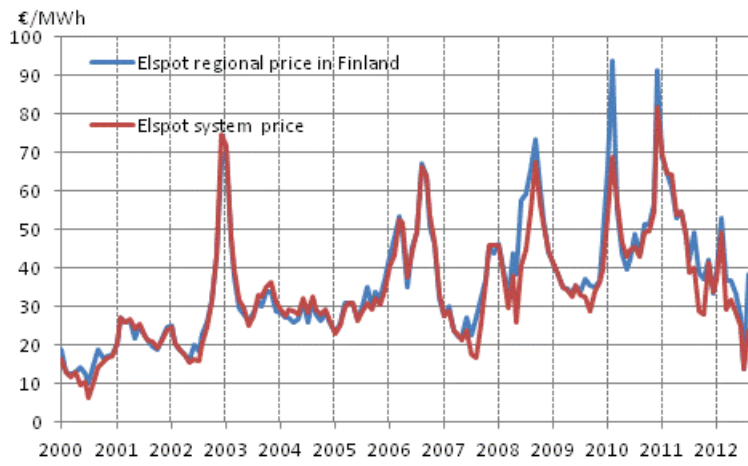
Sources: National Board of Customs/Foreign Trade Statistics, Gasum Oy, Association of Finnish Peat Industries, Finnish Petroleum Federation

### Appendix figure 5. Price of electricity by type of consumer, c/kWh



Source: Energy Market Authority

**Appendix figure 6. Average monthly spotprices at the Nord Pool Spot power exchange**



Source: Nord Pool Spot



### Inquiries

Pentti Wanhatalo            09 1734 2685

Director in charge:

Leena Storgårds

[energia@stat.fi](mailto:energia@stat.fi)

[www.stat.fi](http://www.stat.fi)

Source: Statistics Finland, Energy prices