

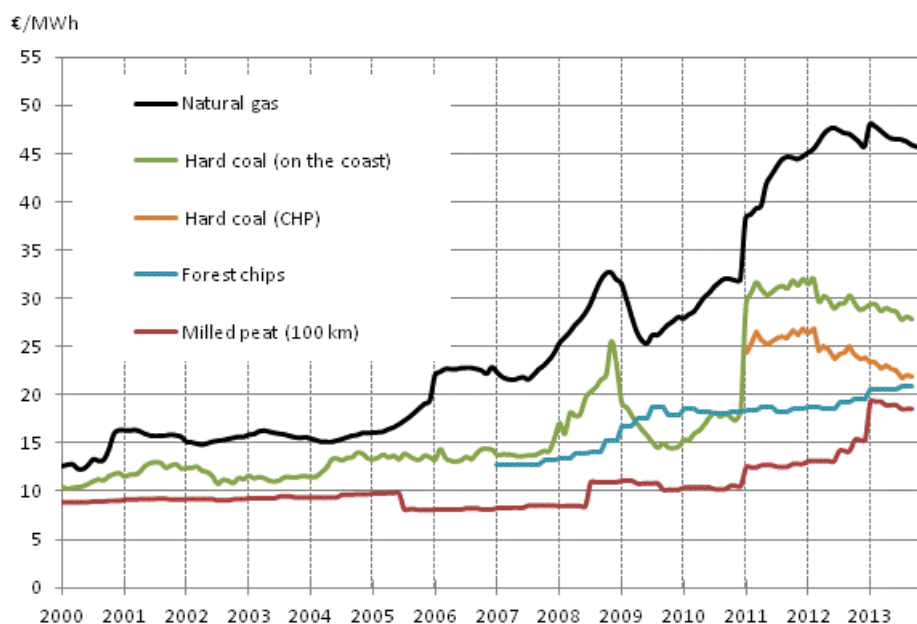
# Energy prices

2013, 3rd quarter

## Prices of fossil fuels decreased in the third quarter

The port price of hard coal decreased by over six per cent in the third quarter. Prices of domestic fuels continued rising. According to Statistics Finland's data, the consumption of peat and forest chippings made a downturn in the third quarter. The prices of transport fuels and light fuel fell, which was partially caused by cheaper crude oil. The prices of the Nordic electricity exchange have been on the rise since March.

### Fuel Prices in Heat Production



Nordic water reserves have been smaller than average so there has not been as much inexpensive hydro electricity available as seen last year. In the third quarter, the prices of the Nordic electricity exchange were tens of per cent higher than in the third quarter of 2012. The prices for users of electricity have climbed by a couple of per cent depending on the tariff category.

The price of milled peat used in heat production was 31 per cent higher in the third quarter of the year than one year earlier. The price of forest chippings rose by over eight per cent from one year before. The price of natural gas used in heat production decreased by around two per cent from 2012. Of transport fuels, the prices of diesel and petrol went down by some three to four per cent, as did the price of light fuel oil in the third quarter of 2013 compared to one year earlier.

# Contents

## Tables

### Appendix tables

Appendix table 1. Energy taxes, precautionary stock fees and oil pollution fees .....	4
Appendix table 2. Energy prices in heat production in September 2013.....	5
Appendix table 3. Prices of heating energy in September 2013.....	5

## Figures

### Appendix figures

Appendix figure 1. Import prices of oil .....	6
Appendix figure 2. Consumer prices of principal oil products .....	6
Appendix figure 3. Fuel prices in heat production .....	7
Appendix figure 4. Fuel prices in electricity production .....	7
Appendix figure 5. Price of electricity by type of consumer, c/kWh.....	8
Appendix figure 6. Average monthly spotprices at the Nord Pool Spot power exchange .....	8

# Appendix tables

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

Date	Fuels <sup>1)</sup>							Electricity					
	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	Consumption		Production			
								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	0,40	-	-	-	-
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	15,70	18,51	126,91	8,94	1,90	1,69	0,69	-	-	-	-
1.1.2012	64,36	46,60	15,70	18,51	126,91	8,940	1,90	1,69	0,69	-	-	-	-
1.1.2013	64,36	46,60	15,99	18,93	131,53	11,38	4,90	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	-	-	-	-	-	-	-
1.1.2013	50,36	30,70	6,65	7,59	47,10	4,45	-	-	-	-	-	-	-
<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	-	-	-	-	-	-	-
1.1.2013	14,00	15,90	9,34	11,34	84,43	6,93	-	-	-	-	-	-	-
<b>Energy tax <sup>7)</sup></b>													
1.1.2011	-	-	-	-	-	-	1,90	1,69	0,69	-	-	-	-
1.1.2013	-	-	-	-	-	-	4,90	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.Sulfur free

### Appendix table 2. Energy prices in heat production in September2013

Energy source	<sup>1)</sup> Price €/MWh	Annual change-%
<sup>2)</sup> Hard coal (VAT 0%)	27.78	-8.1
Natural gas (VAT 0%)	45.87	-2.4
Forest chips (VAT 0%)	20.88	8.2
Milled peat (VAT 0%)	18.52	30.6

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

2) The price is preliminary.

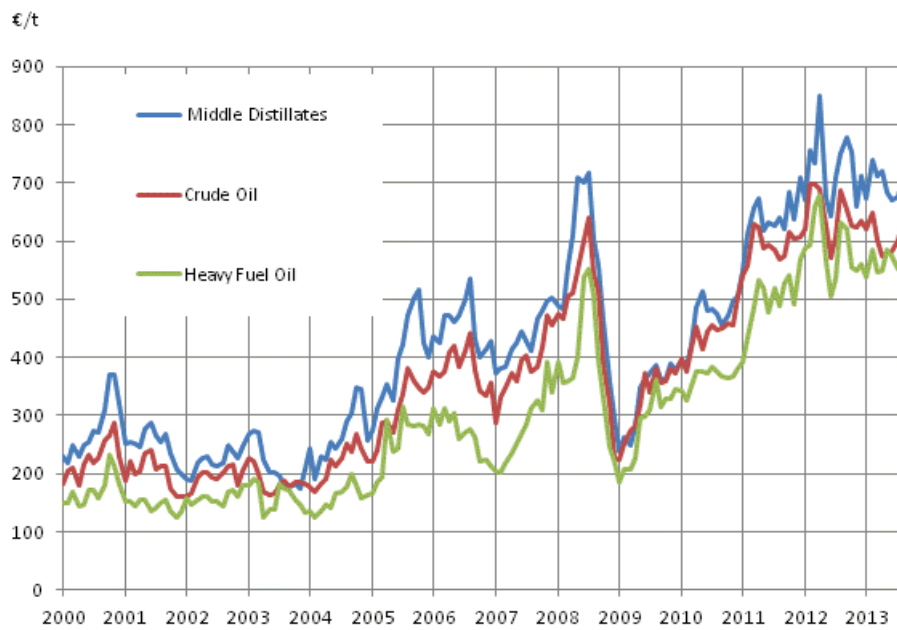
### Appendix table 3. Prices of heating energy in September 2013

Energy source	<sup>1)</sup> Price €/MWh	Annual change-%
Light fuel (VAT 24%)	113.80	-2.7
Household electricity, K2 (VAT 24%)	150.80	0.3
Wood pellet (VAT 24%)	55.20	1.8
District heat, terraced house / low-rise block of flats (VAT 24%)	75.67	7.9

1) The price of wood pellet is from August 2013

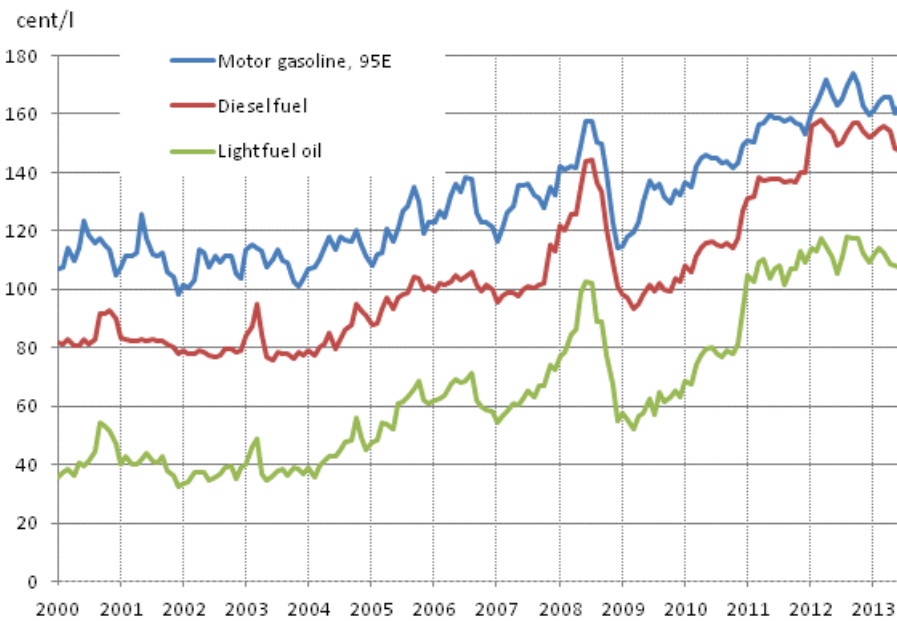
# Appendix figures

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



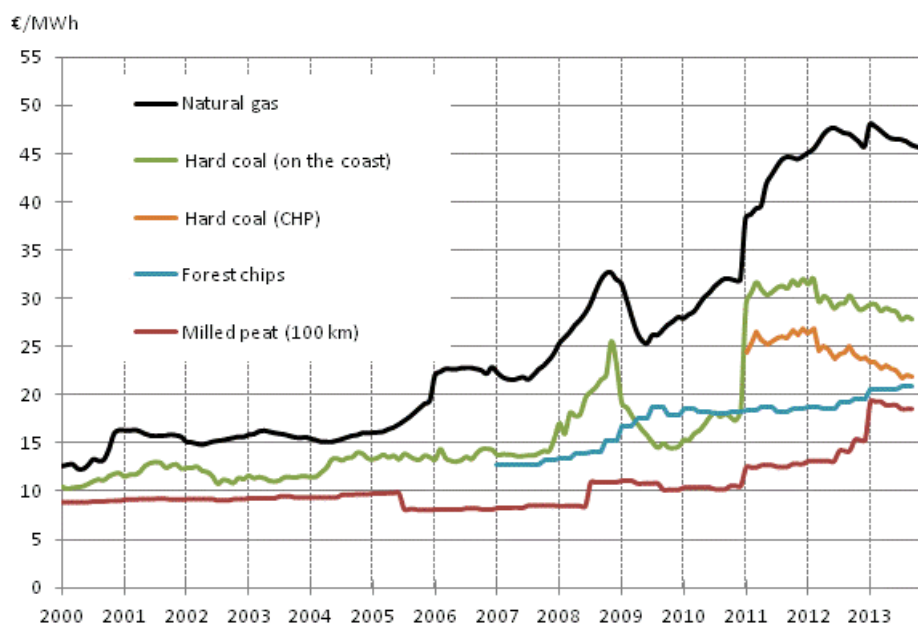
Source: Finnish Customs/Foreign Trade Statistics

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



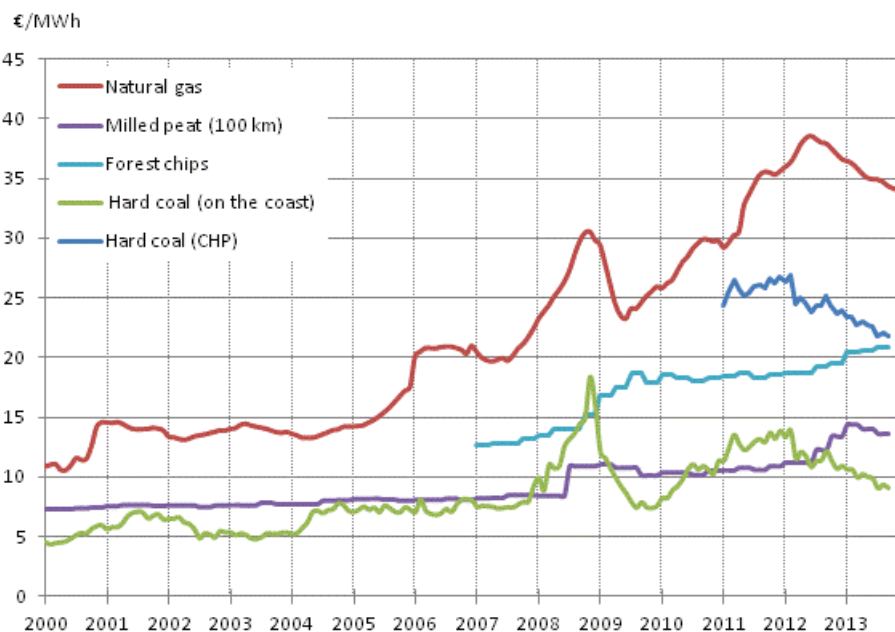
Source: Finnish Petroleum Federation

### Appendix figure 3. Fuel prices in heat production



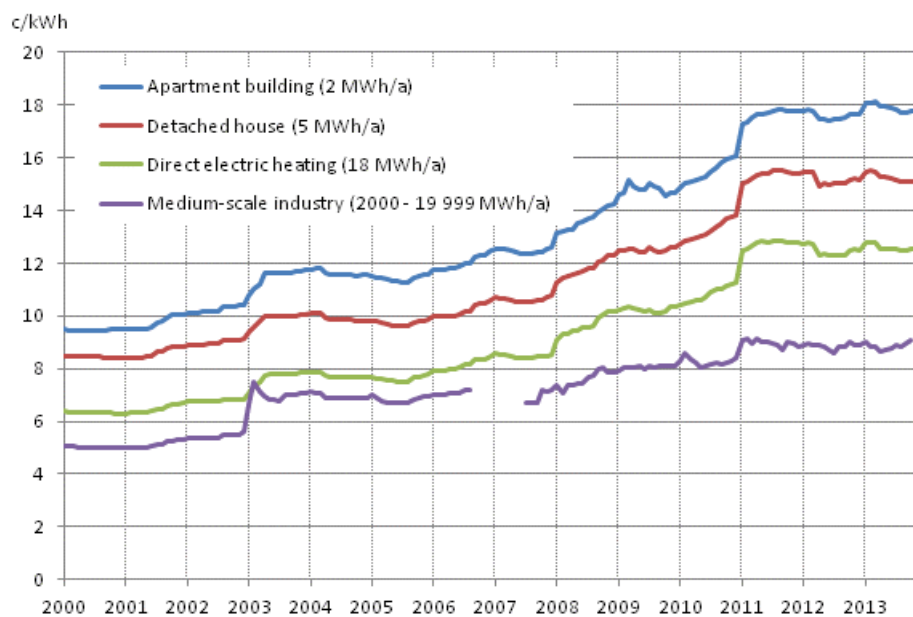
Sources: Finnish Customs/Foreign Trade Statistics, Energy Market Authority/Gasum Oy, The Bioenergy Association of Finland/Association of Finnish Peat Industries, Finnish Petroleum Federation

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



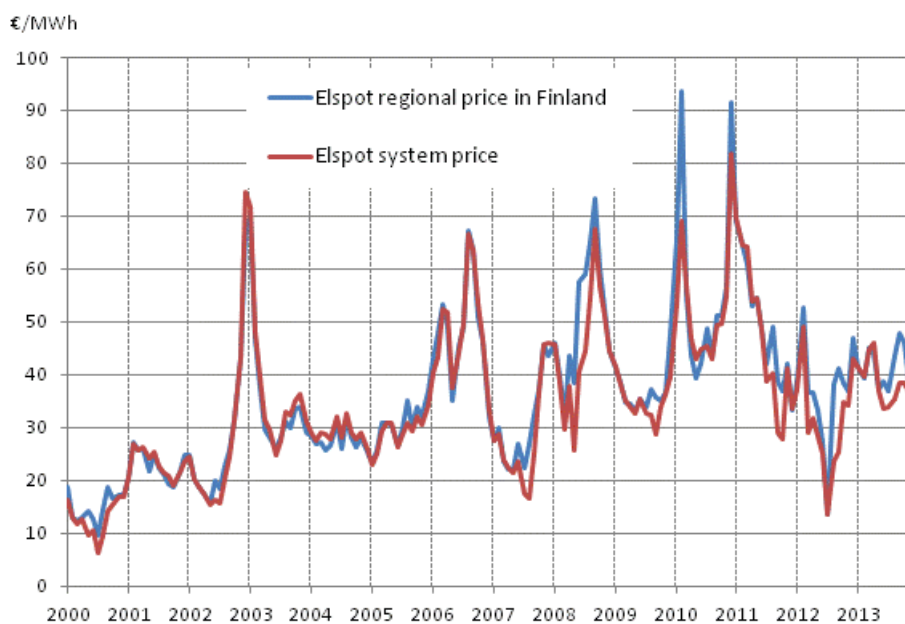
Sources: Finnish Customs/Foreign Trade Statistics, Energy Market Authority/Gasum Oy, The Bioenergy Association of Finland/ Association of Finnish Peat Industries, Finnish Petroleum Federation

**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



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Source: Statistics Finland, Energy prices