

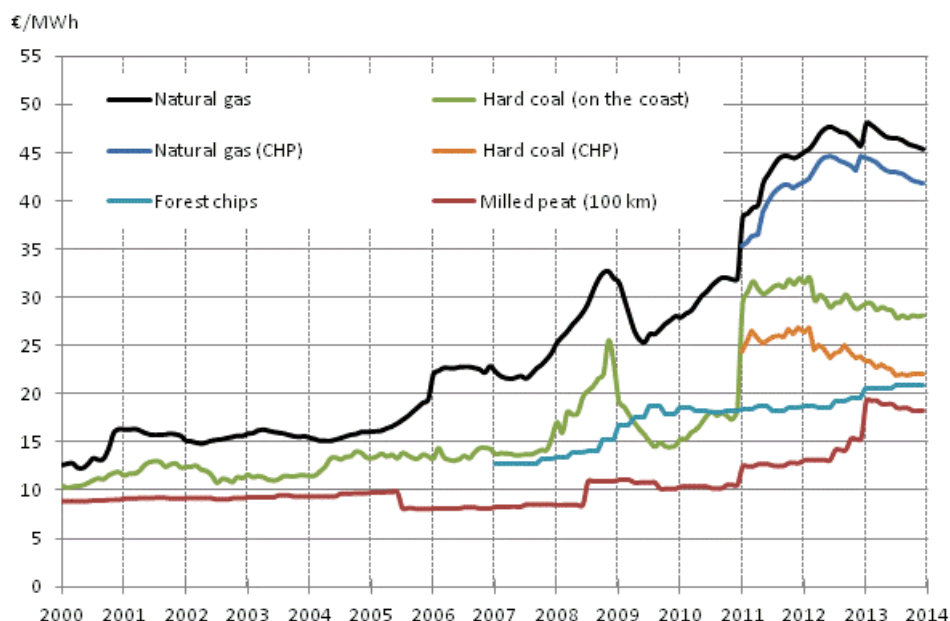
# Energy prices

2013, 4th quarter

## Heat production with imported fuels was cheaper than before

Prices of domestic fuels continued rising, which partially affected the rise in district heat prices by two to four per cent in different consumption categories. The price of milled peat used in heat production was 19 per cent higher in the fourth quarter of the year than one year earlier. According to Statistics Finland's data, the price of forest chippings rose by under eight per cent from one year before. The prices of transport fuels and light fuel fell, which was partially caused by cheaper crude oil. Energy taxes for electricity and transport fuels increased from the beginning of the year.

### Fuel Prices in Heat Production



Nordic water reserves have been smaller than average in late 2013 but improved towards year end. Not much hydro electricity has been available. In December, the prices of the Nordic Power Exchange made

a downturn of over 20 per cent. The prices of bigger consumers of electricity also made an downturn in December depending on the tariff category.

The price of natural gas used in heat production decreased by around one per cent and the price of hard coal dropped by over three per cent from one year ago. The price of wood pellets used by consumers increased by almost 12 per cent. 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 fourth quarter of 2013 compared to one year earlier.

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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	0,40	-	-	-
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	-	-	-
1.1.2013	64,36	46,60	15,99	18,93	131,53	11,38	4,90	1,69	0,69	-	-	-
1.1.2014	66,61	49,31	15,99	18,93	131,53	11,38	4,90	1,89	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	-	-	-	-	-	-
1.1.2014	16,25	18,61	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	-	-	-
1.1.2014	-	-	-	-	-	-	4,90	1,89	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	-	-	-

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
<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 December 2013

Energy source	<sup>1)</sup> Price €/MWh	Annual change-%
<sup>2)</sup> Hard coal (VAT 0%)	28.06	-3.2
Natural gas (VAT 0%)	45.31	-0.8
Forest chips (VAT 0%)	20.95	7.5
Milled peat (VAT 0%)	18.24	19.1

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

2) The price is preliminary.

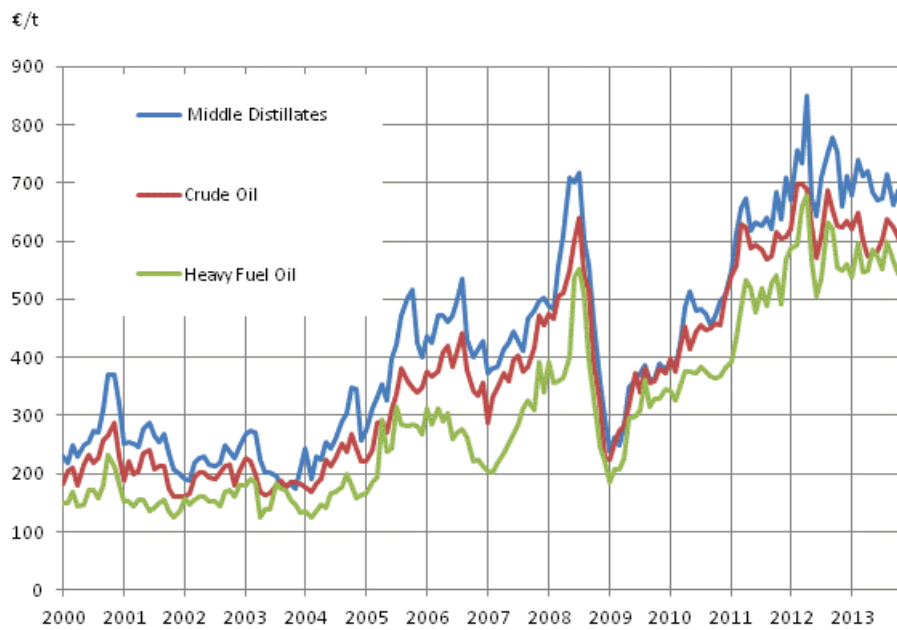
## Appendix table 3. Prices of heating energy in December 2013

Energy source	<sup>1)</sup> Price €/MWh	Annual change-%
Light fuel (VAT 24%)	108.40	-0.3
Household electricity, K2 (VAT 24%)	151.50	-0.3
Wood pellet (VAT 24%)	60.00	7.5
District heat, terraced house / low-rise block of flats (VAT 24%)	76.32	2.7

1) The price of wood pellet is from February and District heat January 2014

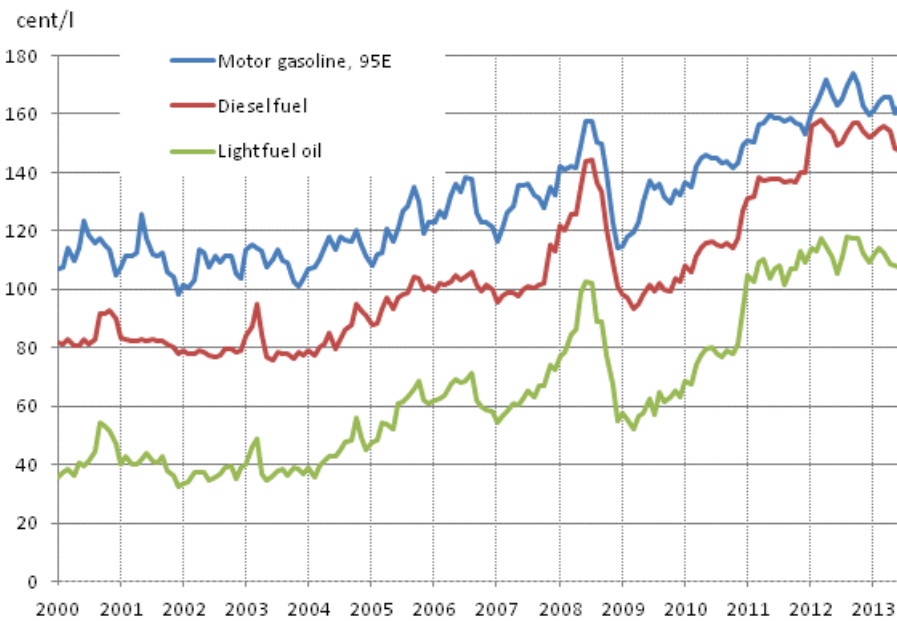
## Appendix figures

Appendix figure 1. Import prices of oil



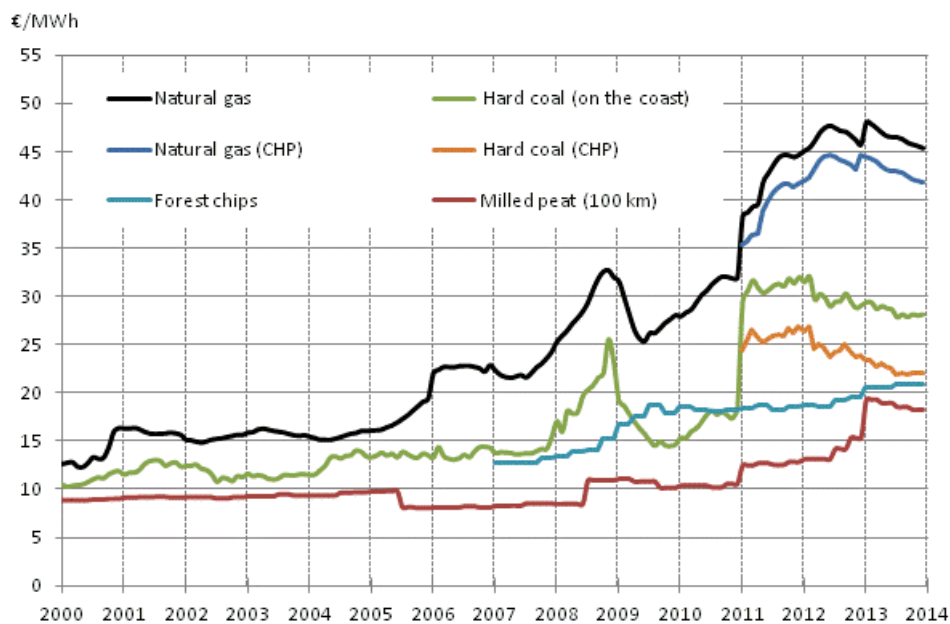
Source: Finnish Customs/Foreign Trade Statistics

Appendix figure 2. Consumer prices of principal oil products



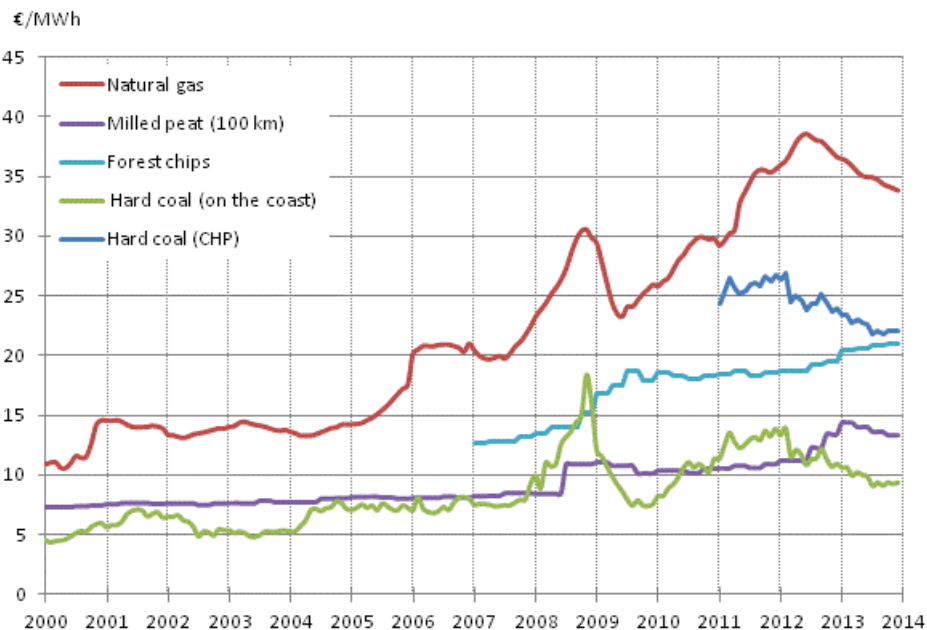
Source: Finnish Petroleum Federation

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



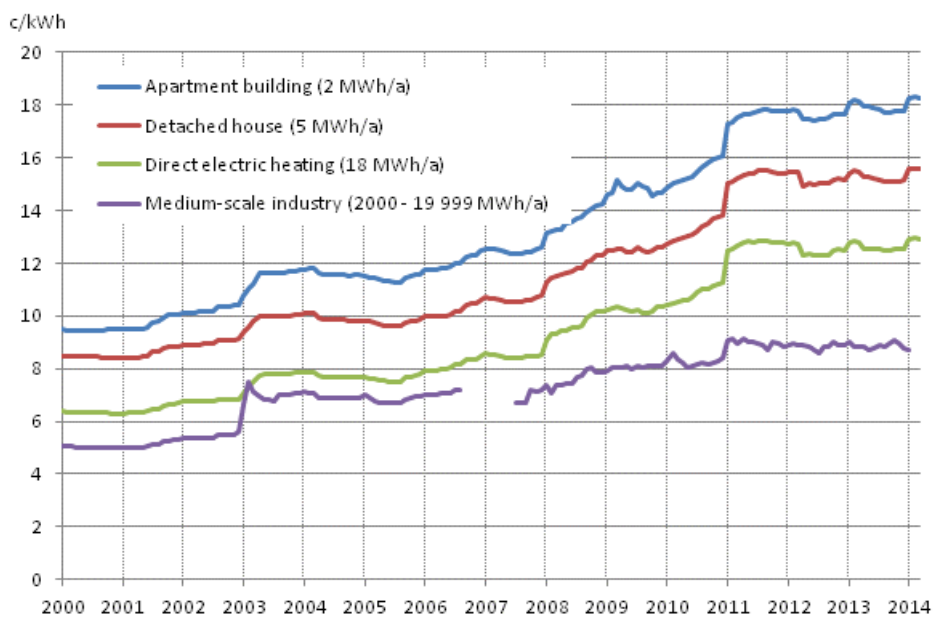
Sources: Finnish Customs/Foreign Trade Statistics, Energy Market Authority/Gasum Oy, The Bioenergy Association of Finland/Association of Finnish Peat Industries, Finnish Petroleum Federation

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



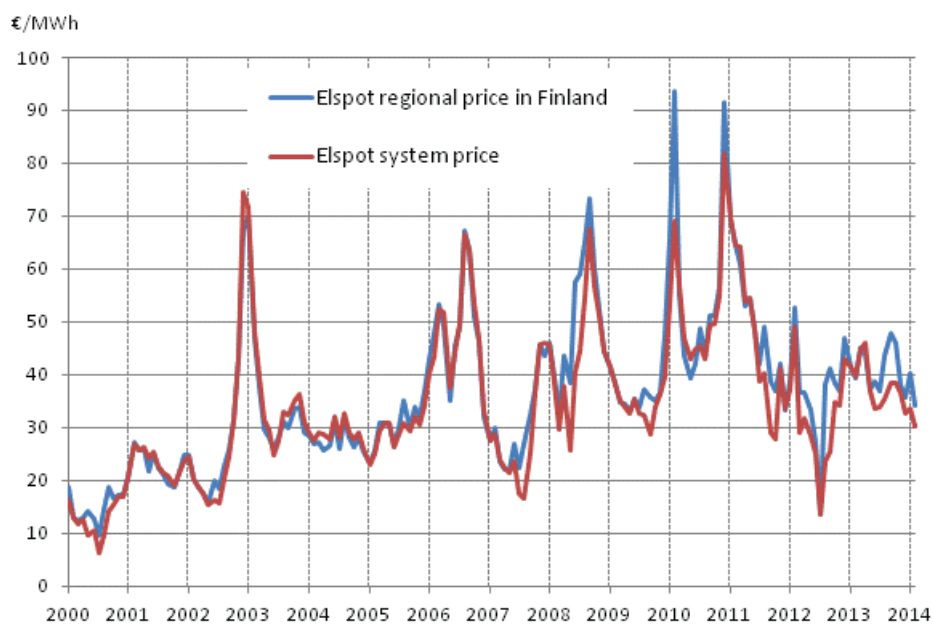
Sources: Finnish Customs/Foreign Trade Statistics, Energy Market Authority/Gasum Oy, The Bioenergy Association of Finland/ Association of Finnish Peat Industries, Finnish Petroleum Federation

**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