

2. SECTORAL TRENDS OF ENVIRONMENTAL SIGNIFICANCE

Energy prices and taxes

Energy end-use prices influence overall energy demand and the fuel mix, which in turn determine environmental pressures caused by energy activities. They also help internalise environmental costs. Though price elasticity varies considerably by end-use sector, historical and cross-country experience suggests that the overall price effect on energy demand is strong and that increases in energy prices have reduced energy use and hence its environmental impact.

Definitions

The indicators presented here relate to:

- Energy end-use prices and taxes for selected energy sources and for industry and households.
- Real price indices are calculated using the Paasche method and deflated using the country-specific producer price index (industrial sector) and the consumer price index (household sector).

When analysing energy end-use prices, consideration should be given to the various support measures that may provide a benefit or preference for a particular activity or product, either absolutely or relatively. Equally, when examining energy taxes, consideration should be given to the range of energy products taxed, tax base definitions, and tax rate levels and rebates.

Overview

Energy prices and related taxes, whether for industry or households, vary widely among countries for all types of energy.

Real end-use energy prices have been relatively stable in most OECD countries up to the early 2000s, though rates of change differ greatly among countries. Since then, real end-use prices have increased mainly due to a rise in crude oil prices.

Comparability

Care should be taken when comparing end-use energy prices, and the way that energy use is taxed. In view of the large number of factors involved, direct comparisons may be misleading. However, comparisons may be the starting point for analysis of differences observed.

For additional notes, see Annex B.

Sources

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Further information

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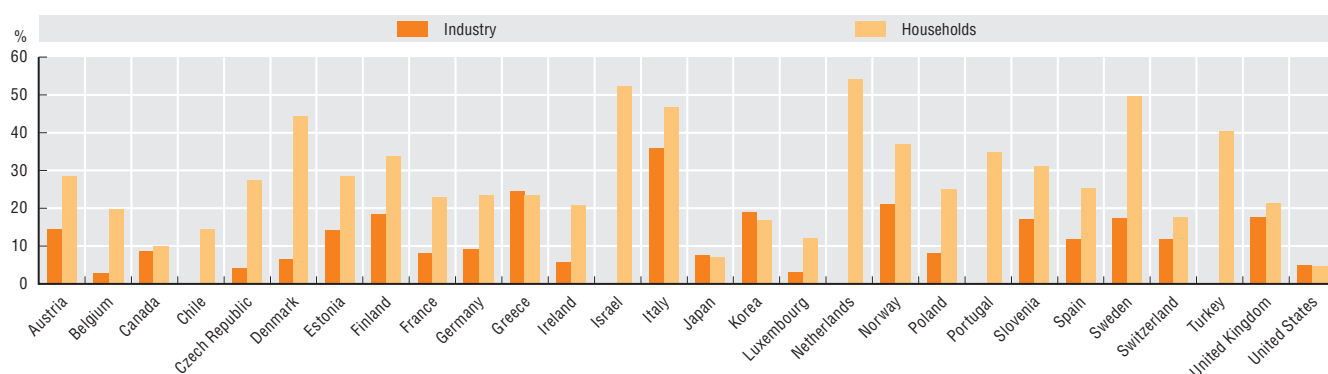
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Figure 2.5. Tax component of oil prices for industry and households, 2011 or latest available year



Source: IEA (2013), *Energy Prices and Taxes*, Vol. 2012/4, OECD Publishing, Paris.

StatLink <http://dx.doi.org/10.1787/888932977315>

Table 2.2. Selected energy prices for industry and households, 2011 or latest available year

	Industry						Households					
	Oil		Gas		Electricity		Oil		Gas		Electricity	
	Price	Tax	Price	Tax	Price	Tax	Price	Tax	Price	Tax	Price	Tax
	USD/ 1 000 litres	of which: %	USD/MWh on a GCV basis	of which: %	USD/MWh	of which: %	USD/ 1 000 litres	of which: %	USD/MWh on a GCV basis	of which: %	USD/MWh	of which: %
Australia	..	..	..	..	..	..	..	..	..	..	..	..
Austria ¹	1 052	14	..	..	154	17	1 283	29	93	26	273	27
Belgium	934	3	36	2	139	12	1 130	20	95	20	264	27
Canada	918	9	15	5	70	9	1 116	10	37	5	95	8
Chile	..	..	..	..	154	..	1 211	14	138	16	211	16
Czech Republic	945	4	51	3	160	1	1 251	27	83	17	211	17
Denmark ¹	1 245	6	65	55	115	8	1 933	44	141	49	409	56
Estonia	1 091	14	40	4	101	13	1 309	28	60	22	137	27
Finland	1 209	18	45	25	114	9	1 487	34	62	37	214	30
France	981	8	52	4	122	14	1 235	23	87	17	187	29
Germany	925	9	54	10	157	29	1 136	23	93	24	352	45
Greece	1 236	24	56	4	126	14	1 220	23	108	14	173	18
Hungary	..	..	44	3	134	4	..	..	64	20	233	21
Iceland	..	..	..	..	..	..	..	..	..	..	..	..
Ireland	1 141	6	44	9	152	..	1 410	21	81	17	259	12
Israel	..	..	..	..	97	..	2 030	52	..	..	149	14
Italy	1 568	36	42	13	279	27	1 887	47	94	38	279	28
Japan	937	7	70	5	179	7	1 134	7	165	5	261	7
Korea ¹	923	19	41	12	58	..	1 198	17	50	19	89	..
Luxembourg	933	3	50	1	118	5	1 028	12	74	8	220	14
Mexico ¹	623	..	37	..	117	..	..	..	37	14	95	14
Netherlands ¹	..	..	39	8	118	13	926	54	97	40	238	19
New Zealand	772	..	22	6	74	..	..	..	100	14	212	13
Norway	1 330	21	..	..	71	20	1 663	37	..	..	171	32
Poland	988	8	43	..	122	6	1 245	25	72	19	199	22
Portugal	..	..	50	..	139	..	1 469	35	94	9	246	9
Slovak Republic	1 059	..	50	4	178	..	..	..	69	17	242	17
Slovenia	1 058	17	58	11	126	9	1 270	31	99	23	202	24
Spain ¹	1 015	12	38	..	149	5	1 198	25	89	15	295	19
Sweden	1 023	17	68	18	104	1	1 991	50	164	44	248	37
Switzerland	959	12	72	11	132	4	1 103	18	107	15	222	10
Turkey	..	..	34	19	139	19	1 820	40	42	15	169	22
United Kingdom	1 012	18	36	3	127	3	1 091	21	67	5	211	5
United States	773	5	17	..	70	..	1 032	5	36	..	118	..
OECD	893	..	29	..	124	..	1 166	..	61	..	174	..
OECD America	..	..	..	..	..	..	..	..	..	..	..	..
OECD Asia-Oceania	..	..	..	..	..	..	..	..	..	..	..	..
OECD Europe	1 084	..	45	..	150	..	1 228	..	81	..	245	..

1. See Annex B for country notes.

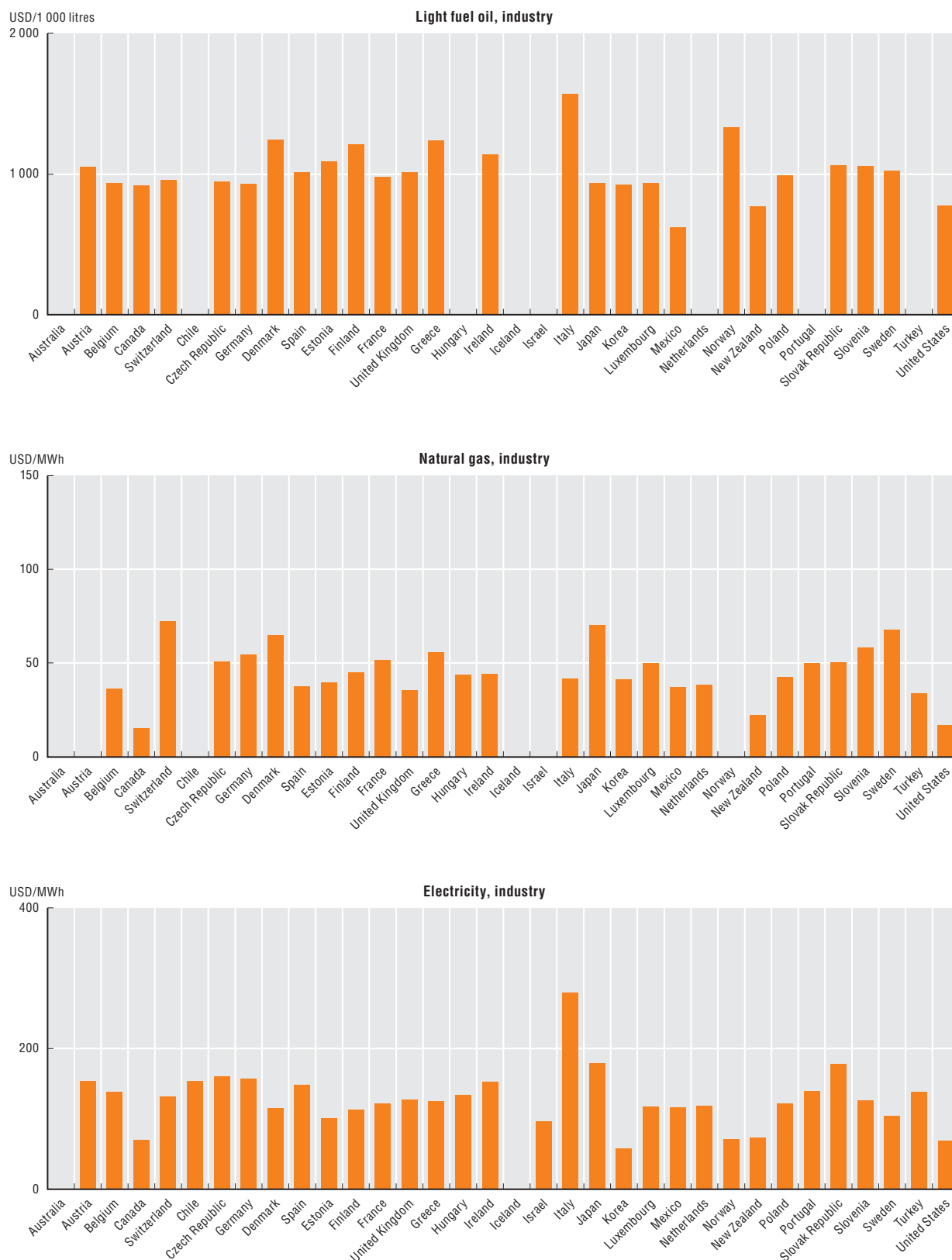
Source: IEA (2013), *Energy Prices and Taxes*, Vol. 2012/4, OECD Publishing, Paris.

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Figure 2.6. Selected energy prices for industry, 2011 or latest available year



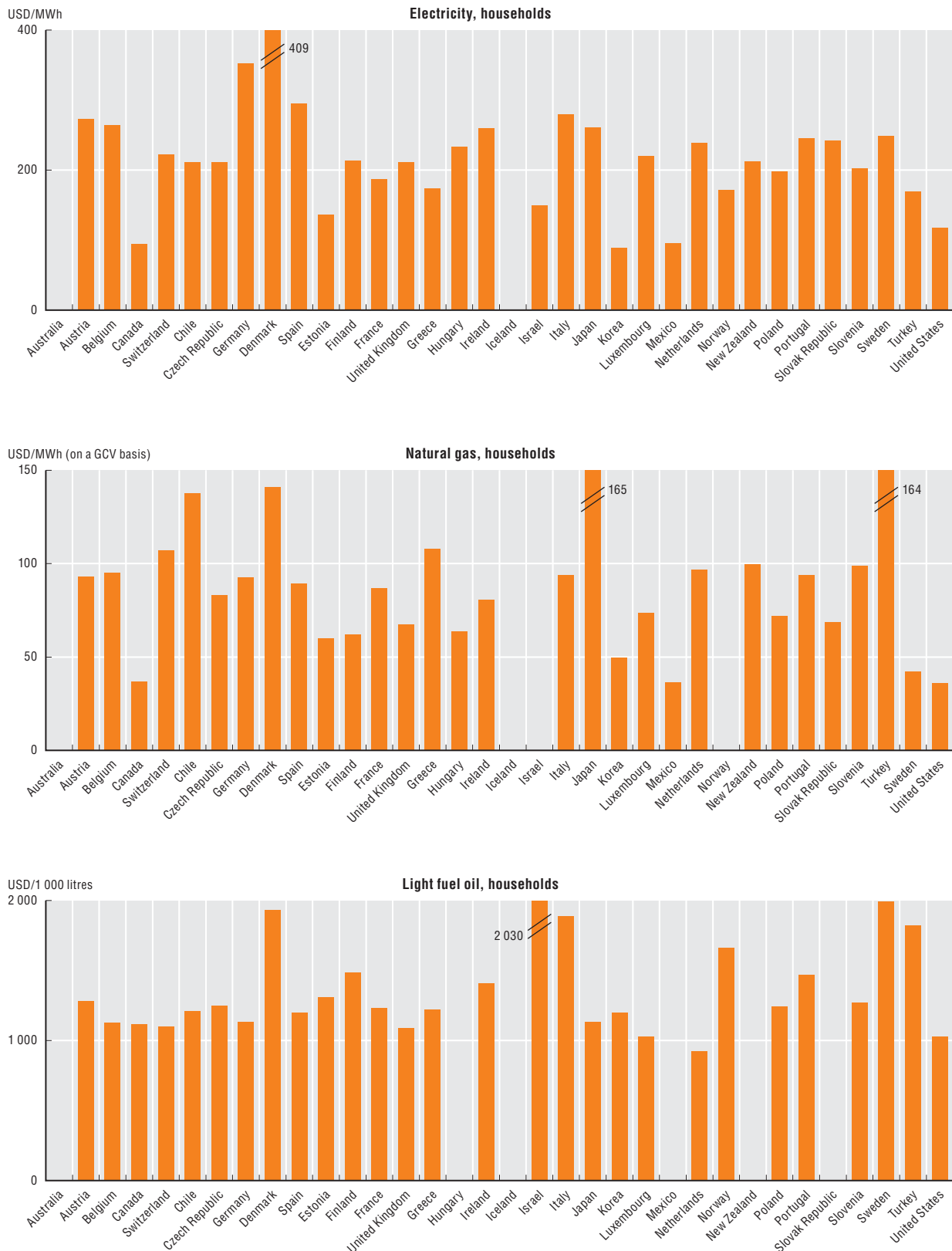
Source: IEA (2013), *Energy Prices and Taxes*, Vol. 2012/4, OECD Publishing, Paris.

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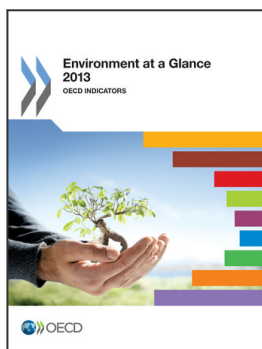
Energy prices and taxes

Figure 2.7. Selected energy prices for households, 2011 or latest available year



Source: IEA (2013), *Energy Prices and Taxes*, Vol. 2012/4, OECD Publishing, Paris.

StatLink  <http://dx.doi.org/10.1787/888932977353>



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