

Electricity & Gas Prices in Ireland

Annex Household Electricity Prices
1st Semester (January – June) 2010



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Sustainable Energy Ireland

The Sustainable Energy Authority of Ireland was established as Ireland's national energy authority under the Sustainable Energy Act 2002. SEAI's mission is to play a leading role in transforming Ireland into a society based on sustainable energy structures, technologies and practices. To fulfil this mission SEAI aims provide well-timed and informed advice to Government, deliver a range of programmes efficiently and effectively, while engaging and motivating a wide range of stakeholders and showing continuing flexibility and innovation in all activities. SEAI's actions will help advance Ireland to the vanguard of the global green technology movement, so that Ireland is recognised as a pioneer in the move to decarbonised energy systems.

SEAI's key strategic objectives are;

- Energy efficiency first – implementing strong energy efficiency actions that radically reduce energy intensity and usage;
- Low carbon energy sources – accelerating the development and adoption of technologies to exploit renewable energy sources;
- Innovation and integration – supporting evidence-based responses that engage all actors, supporting innovation and enterprise for our low-carbon future;

The Sustainable Energy Authority of Ireland is financed by Ireland's EU Structural Funds Programme co-funded by the Irish Government and the European Union.

Energy Policy Statistical Support Unit (EPSSU)

SEAI has a lead role in developing and maintaining comprehensive national and sectoral statistics for energy production, transformation and end use. This data is a vital input in meeting international reporting obligations, for advising policy makers and informing investment decisions. Based in Cork, EPSSU is SEAI's specialist statistics team. Its core functions are to:

- Collect, process and publish energy statistics to support policy analysis and development in line with national needs and international obligations;
- Conduct statistical and economic analyses of energy services sectors and sustainable energy options;
- Contribute to the development and promulgation of appropriate sustainability indicators.

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1 Introduction

The fluctuations in energy prices over the past number of years are a key concern to all energy consumers in Ireland, as they impact on the rate of inflation and competitiveness. Understanding the key contributing factors and the precise impacts of energy price changes are key ingredients to developing appropriate, sensible and measured responses from businesses, householders and policy makers. Comparing energy prices in Ireland with those of other EU Member States and elsewhere is a particularly important aspect of any analysis of the impact of price changes. This report seeks to add to that analysis and thereby increase the understanding of energy price changes in Ireland.

This report draws on the results of a new EU methodology for gathering energy price data that came into effect on January 1st 2008. Significant changes have occurred recently in the international oil and gas market prices. However, the focus of the report is on the electricity and gas price data gathered under this improved methodology and focuses on the period January – June 2010, i.e. the first semester 2010.

The report is structured as follows:

- Section 2 provides a context for the analysis, touching on global factors affecting energy prices, discussing some characteristics that particularly impact on prices in Ireland.
- Section 3 focuses on electricity and gas prices paid by industrial and services (business) customers, informing the discussion on impacts of energy price changes for business in Ireland.
- Section 4 focuses on price changes for domestic customers, comparing prices for households in Ireland with those of other EU Member States.
- Appendix 1 shows the average electricity and natural gas prices in the various consumption bands in Ireland during the 1st semester 2010.

Four separate Annexes are available in pdf form on our website detailing, for the latest five semesters, for all countries and all consumption bands, the electricity and gas price to business and residential consumers. Tables in the Annexes show the ex-tax, ex-VAT and all taxes included prices for all categories.

SEAI acknowledges the co-operation of electricity and gas suppliers in providing the information necessary for Ireland to comply with the *European Commission Decision (2007/394/EC)* amending *Directive 90/377/EEC* with regard to the methodology to be applied for the collection of gas and electricity prices charged to business and household end-users and to allow this analysis to be carried out.

This is the sixth edition of this report focusing on energy prices. Feedback and comments on the report are welcome and should be addressed by post to the address on the back cover or by e-mail to epsu@seai.ie.

Readers may also be interested in previous statistical analysis related to energy prices carried out by SEAI. The report *Energy in Ireland 1990 – 2008* tracks changes in aggregated energy prices from 2000. The report *Energy in Industry 2007* assesses how significant energy costs are as a proportion of the overall cost base for business enterprises, drawing on data from the CSO's *Census of Industrial Production*. Both reports are available from www.seai.ie/statistics.

2 Electricity prices to Households in the EU (without taxes)

Table 1 Household Electricity Prices in band DA in Europe (S1 2008 to S1 2010) without taxes

Band DA	without taxes (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	18.12	18.12	18.74	18.74	18.12	0.0%	3.4%	0.0%	-3.3%	-3.3%
Belgium	21.53	21.85	20.24	20.61	21.78	1.5%	-7.4%	1.8%	5.7%	7.6%
Bulgaria	6.19	6.85	7.06	6.85	6.85	10.7%	3.1%	-3.0%	0.0%	-3.0%
Croatia	15.96	17.13	17.07	15.07	15.43	7.3%	-0.4%	-11.7%	2.4%	-9.6%
Cyprus	16.51	17.13	11.92	13.73	18.24	3.8%	-30.4%	15.2%	32.8%	53.0%
Czech Republic	22.22	22.66	22.51	23.72	23.67	2.0%	-0.7%	5.4%	-0.2%	5.2%
Germany	23.49	24.08	24.98	24.13	24.46	2.5%	3.7%	-3.4%	1.4%	-2.1%
Denmark	14.30	15.50	14.72	13.56	14.10	8.4%	-5.0%	-7.9%	4.0%	-4.2%
Estonia	6.59	6.88	7.32	7.18	7.13	4.4%	6.4%	-1.9%	-0.7%	-2.6%
Finland	16.73	17.70	19.03	19.32	19.65	5.8%	7.5%	1.5%	1.7%	3.3%
France	18.56	18.32	12.85	11.44	10.52	-1.3%	-29.9%	-11.0%	-8.0%	-18.1%
Greece	11.18	9.65	9.59	10.03	10.30	-13.7%	-0.6%	4.6%	2.7%	7.4%
Hungary	13.33	13.11	11.67	14.43	..	-1.7%	-11.0%	23.7%	..	..
Ireland	39.19	42.98	38.15	36.67	35.55	9.7%	-11.2%	-3.9%	-3.1%	-6.8%
Italy	..	..	..	..	..	..	..	..	..	..
Latvia	8.13	9.57	9.57	9.59	9.54	17.7%	0.0%	0.2%	-0.5%	-0.3%
Lithuania	7.81	7.82	8.50	8.14	10.02	0.1%	8.7%	-4.2%	23.1%	17.9%
Luxembourg	21.67	21.88	23.69	24.11	21.26	1.0%	8.3%	1.8%	-11.8%	-10.3%
Malta	4.44	12.10	23.65	21.65	..	172.5%	95.5%	-8.5%	..	..
Netherlands	23.60	23.90	25.20	24.81	23.40	1.3%	5.4%	-1.5%	-5.7%	-7.1%
Norway	30.12	29.52	28.43	29.11	35.21	-2.0%	-3.7%	2.4%	21.0%	23.8%
Poland	13.70	13.67	11.41	12.58	13.67	-0.2%	-16.5%	10.3%	8.7%	19.8%
Portugal	26.83	27.10	28.70	28.72	22.66	1.0%	5.9%	0.1%	-21.1%	-21.0%
Romania	8.95	9.15	8.18	8.03	8.63	2.2%	-10.6%	-1.8%	7.5%	5.5%
Slovakia	19.02	21.47	19.74	19.62	18.87	12.9%	-8.1%	-0.6%	-3.8%	-4.4%
Slovenia	14.64	15.23	19.28	20.36	17.60	4.0%	26.6%	5.6%	-13.6%	-8.7%
Spain	24.55	26.22	25.40	26.11	31.74	6.8%	-3.1%	2.8%	21.6%	25.0%
Sweden	20.22	21.21	17.95	19.35	24.82	4.9%	-15.4%	7.8%	28.3%	38.3%
Turkey	7.82	9.69	9.09	9.36	10.67	23.9%	-6.2%	3.0%	14.0%	17.4%
United Kingdom	15.23	16.03	14.99	16.55	14.00	5.3%	-6.5%	10.4%	-15.4%	-6.6%
Euro Area	21.25	21.62	20.34	19.68	20.19	1.7%	-5.9%	-3.2%	2.6%	-0.7%
EU 27	19.38	19.85	18.54	18.46	18.76	2.4%	-6.6%	-0.4%	1.6%	1.2%

Ireland relative to:

Euro Area	184.4%	198.8%	187.6%	186.3%	176.1%
EU 27	202.2%	216.5%	205.8%	198.6%	189.5%

Source: Eurostat

Table 2 Household Electricity Prices in band DB in Europe (S1 2008 to S1 2010) without taxes

Band DB	without taxes (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	14.10	14.32	14.75	14.86	15.43	1.6%	3.0%	0.7%	3.8%	4.6%
Belgium	16.63	17.88	16.29	15.79	18.49	7.5%	-8.9%	-3.1%	17.1%	13.5%
Bulgaria	6.08	6.75	6.90	6.80	6.80	11.0%	2.2%	-1.4%	0.0%	-1.4%
Croatia	8.80	10.59	10.30	9.18	9.19	20.3%	-2.7%	-10.9%	0.1%	-10.8%
Cyprus	15.09	16.39	11.20	12.95	15.89	8.6%	-31.7%	15.6%	22.7%	41.9%
Czech Republic	16.67	16.99	17.02	17.93	17.61	1.9%	0.2%	5.3%	-1.8%	3.5%
Germany	14.97	15.38	16.07	15.62	15.84	2.7%	4.5%	-2.8%	1.4%	-1.4%
Denmark	14.30	15.50	14.72	13.56	14.10	8.4%	-5.0%	-7.9%	4.0%	-4.2%
Estonia	6.52	6.81	7.25	7.11	7.08	4.4%	6.5%	-1.9%	-0.4%	-2.3%
Finland	11.18	11.66	12.49	12.61	12.90	4.3%	7.1%	1.0%	2.3%	3.3%
France	10.78	10.79	10.90	10.70	10.45	0.1%	1.0%	-1.8%	-2.3%	-4.1%
Greece	8.28	8.55	8.88	8.38	8.77	3.3%	3.9%	-5.6%	4.7%	-1.2%
Hungary	13.27	13.07	12.69	13.82	..	-1.5%	-2.9%	8.9%	..	..
Ireland	18.39	20.87	20.54	18.94	18.56	13.5%	-1.6%	-7.8%	-2.0%	-9.6%
Italy	..	..	..	..	..	..	..	..	..	..
Latvia	8.08	9.56	9.57	9.59	9.54	18.3%	0.1%	0.2%	-0.5%	-0.3%
Lithuania	7.57	7.57	8.25	7.92	9.77	0.0%	9.0%	-4.0%	23.4%	18.4%
Luxembourg	16.26	16.34	17.80	18.14	16.06	0.5%	8.9%	1.9%	-11.5%	-9.8%
Malta	5.90	12.60	18.16	16.30	..	113.6%	44.1%	-10.2%	..	..
Netherlands	15.30	15.30	16.50	15.99	14.77	0.0%	7.8%	-3.1%	-7.6%	-10.5%
Norway	18.40	18.56	17.48	17.70	22.20	0.9%	-5.8%	1.3%	25.4%	27.0%
Poland	10.16	10.96	9.50	10.20	11.27	7.9%	-13.3%	7.4%	10.5%	18.6%
Portugal	12.42	12.57	14.51	15.75	12.31	1.2%	15.4%	8.5%	-21.8%	-15.2%
Romania	8.97	9.02	8.17	8.14	8.60	0.6%	-9.4%	-0.4%	5.7%	5.3%
Slovakia	13.50	15.01	14.65	14.31	14.40	11.2%	-2.4%	-2.3%	0.6%	-1.7%
Slovenia	10.27	10.41	12.12	12.16	12.12	1.4%	16.4%	0.3%	-0.3%	0.0%
Spain	12.99	14.75	14.59	15.71	16.22	13.5%	-1.1%	7.7%	3.2%	11.2%
Sweden	12.26	12.99	11.88	11.94	13.18	6.0%	-8.5%	0.5%	10.4%	10.9%
Turkey	7.82	9.69	9.09	9.36	10.67	23.9%	-6.2%	3.0%	14.0%	17.4%
United Kingdom	14.58	15.79	14.66	14.64	14.14	8.3%	-7.2%	-0.1%	-3.4%	-3.5%
Euro Area	12.88	13.53	13.74	13.64	13.66	5.0%	1.6%	-0.7%	0.1%	-0.6%
EU 27	12.92	13.65	13.50	13.47	13.52	5.7%	-1.1%	-0.2%	0.4%	0.1%

Ireland relative to:

Euro Area	142.8%	154.2%	149.5%	138.9%	135.9%
EU 27	142.3%	152.9%	152.1%	140.6%	137.3%

Source: Eurostat

Table 3 Household Electricity Prices in band DC in Europe (S1 2008 to S1 2010) without taxes

Band DC	without taxes (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	12.71	12.68	13.80	13.80	14.31	-0.2%	8.8%	0.0%	3.7%	3.7%
Belgium	15.00	15.78	14.31	14.07	15.49	5.2%	-9.3%	-1.7%	10.1%	8.2%
Bulgaria	5.93	6.85	6.85	6.85	6.75	15.5%	0.0%	0.0%	-1.5%	-1.5%
Croatia	7.98	9.61	9.35	9.32	9.34	20.4%	-2.7%	-0.3%	0.2%	-0.1%
Cyprus	15.28	17.54	13.36	14.09	15.97	14.8%	-23.8%	5.5%	13.3%	19.5%
Czech Republic	10.60	10.80	11.02	11.61	11.08	1.9%	2.0%	5.4%	-4.6%	0.5%
Germany	12.99	13.41	14.01	13.59	13.81	3.2%	4.5%	-3.0%	1.6%	-1.4%
Denmark	12.03	13.23	12.39	11.22	11.68	10.0%	-6.3%	-9.4%	4.1%	-5.7%
Estonia	6.39	6.70	7.12	6.96	6.95	4.9%	6.3%	-2.2%	-0.1%	-2.4%
Finland	9.15	9.55	9.74	9.68	9.98	4.4%	2.0%	-0.6%	3.1%	2.5%
France	9.14	9.10	9.26	9.23	9.22	-0.4%	1.8%	-0.3%	-0.1%	-0.4%
Greece	9.57	10.05	10.55	9.42	9.75	5.0%	5.0%	-10.7%	3.5%	-7.6%
Hungary	12.77	12.81	12.27	13.20	..	0.3%	-4.2%	7.6%	..	..
Ireland	15.59	17.91	17.89	16.35	15.89	14.9%	-0.1%	-8.6%	-2.8%	-11.2%
Italy	..	..	..	..	..	..	..	..	..	..
Latvia	8.02	9.56	9.57	9.59	9.54	19.2%	0.1%	0.2%	-0.5%	-0.3%
Lithuania	7.29	7.32	7.99	7.68	9.55	0.4%	9.2%	-3.9%	24.3%	19.5%
Luxembourg	14.42	13.91	16.19	16.53	14.33	-3.5%	16.4%	2.1%	-13.3%	-11.5%
Malta	9.45	14.63	16.27	14.41	..	54.8%	11.2%	-11.4%	..	..
Netherlands	12.70	13.20	14.40	13.86	12.66	3.9%	9.1%	-3.7%	-8.7%	-12.1%
Norway	11.79	12.37	11.31	11.24	14.84	4.9%	-8.6%	-0.6%	32.0%	31.2%
Poland	9.65	10.05	8.83	10.10	10.49	4.1%	-12.1%	14.4%	3.9%	18.8%
Portugal	10.74	10.66	12.64	13.83	10.93	-0.7%	18.6%	9.4%	-21.0%	-13.5%
Romania	8.85	9.20	8.14	8.15	8.56	4.0%	-11.5%	0.1%	5.0%	5.2%
Slovakia	11.48	12.83	12.94	13.11	12.77	11.8%	0.9%	1.3%	-2.6%	-1.3%
Slovenia	9.11	9.19	10.56	10.50	10.57	0.9%	14.9%	-0.6%	0.7%	0.1%
Spain	11.24	12.77	12.94	13.81	14.17	13.6%	1.3%	6.7%	2.6%	9.5%
Sweden	10.85	11.37	10.40	10.59	11.95	4.8%	-8.5%	1.8%	12.8%	14.9%
Turkey	7.82	9.69	9.09	9.36	10.67	23.9%	-6.2%	3.0%	14.0%	17.4%
United Kingdom	13.94	15.30	13.99	13.40	13.21	9.8%	-8.6%	-4.2%	-1.4%	-5.6%
Euro Area	11.67	12.25	12.46	12.31	12.34	5.0%	1.7%	-1.2%	0.2%	-1.0%
EU 27	11.75	12.43	12.27	12.14	12.23	5.8%	-1.3%	-1.1%	0.7%	-0.3%

Ireland relative to:

Euro Area	133.6%	146.2%	143.6%	132.8%	128.8%
EU 27	132.7%	144.1%	145.8%	134.7%	129.9%

Source: Eurostat

Table 4 Household Electricity Prices in band DD in Europe (S1 2008 to S1 2010) without taxes

Band DD	without taxes (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	11.80	11.96	12.63	12.74	12.98	1.4%	5.6%	0.9%	1.9%	2.8%
Belgium	13.30	14.02	12.55	12.38	13.08	5.4%	-10.5%	-1.4%	5.7%	4.2%
Bulgaria	5.88	6.80	6.80	6.85	6.75	15.6%	0.0%	0.7%	-1.5%	-0.7%
Croatia	7.43	9.05	8.80	9.04	8.95	21.8%	-2.8%	2.7%	-1.0%	1.7%
Cyprus	15.33	18.09	13.79	14.20	15.50	18.0%	-23.8%	3.0%	9.2%	12.4%
Czech Republic	8.69	8.86	9.14	9.63	9.17	2.0%	3.2%	5.4%	-4.8%	0.3%
Germany	11.76	12.07	12.72	12.33	12.72	2.6%	5.4%	-3.1%	3.2%	0.0%
Denmark	10.36	11.56	10.68	9.52	9.90	11.6%	-7.6%	-10.9%	4.0%	-7.3%
Estonia	6.07	6.49	6.82	6.76	6.61	6.9%	5.1%	-0.9%	-2.2%	-3.1%
Finland	7.79	8.23	8.52	8.49	8.69	5.6%	3.5%	-0.4%	2.4%	2.0%
France	7.89	7.89	7.98	8.14	8.16	0.0%	1.1%	2.0%	0.2%	2.3%
Greece	11.39	12.33	12.53	10.97	11.05	8.3%	1.6%	-12.5%	0.7%	-11.8%
Hungary	12.71	12.62	11.13	12.39	..	-0.7%	-11.8%	11.3%	..	..
Ireland	13.85	16.25	16.19	14.87	14.20	17.3%	-0.4%	-8.2%	-4.5%	-12.3%
Italy	..	..	..	..	..	..	..	..	..	..
Latvia	7.82	9.54	9.54	9.59	9.54	22.0%	0.0%	0.5%	-0.5%	0.0%
Lithuania	6.85	6.97	7.54	7.33	9.12	1.8%	8.2%	-2.8%	24.4%	21.0%
Luxembourg	13.09	12.83	14.76	14.81	13.23	-2.0%	15.0%	0.3%	-10.7%	-10.4%
Malta	12.46	17.19	16.86	15.10	..	38.0%	-1.9%	-10.4%	..	..
Netherlands	12.00	12.20	13.30	12.84	11.62	1.7%	9.0%	-3.5%	-9.5%	-12.6%
Norway	8.18	8.98	7.93	7.70	10.83	9.8%	-11.7%	-2.9%	40.6%	36.6%
Poland	8.52	9.51	8.34	9.13	9.63	11.6%	-12.3%	9.5%	5.5%	15.5%
Portugal	9.33	9.21	11.46	12.33	9.87	-1.3%	24.4%	7.6%	-20.0%	-13.9%
Romania	8.70	9.21	7.83	7.86	8.40	5.9%	-15.0%	0.4%	6.9%	7.3%
Slovakia	9.63	10.95	12.47	13.09	11.42	13.7%	13.9%	5.0%	-12.8%	-8.4%
Slovenia	8.49	8.70	10.13	9.83	9.94	2.5%	16.4%	-3.0%	1.1%	-1.9%
Spain	10.21	12.19	12.03	12.66	12.71	19.4%	-1.3%	5.2%	0.4%	5.7%
Sweden	9.13	9.54	8.47	8.86	10.01	4.5%	-11.2%	4.6%	13.0%	18.2%
Turkey	7.82	9.69	9.09	9.36	10.67	23.9%	-6.2%	3.0%	14.0%	17.4%
United Kingdom	12.90	13.34	12.53	11.93	11.79	3.4%	-6.1%	-4.8%	-1.2%	-5.9%
Euro Area	10.93	11.47	11.90	11.87	11.79	4.9%	3.7%	-0.3%	-0.7%	-0.9%
EU 27	10.90	11.44	11.49	11.43	11.44	5.0%	0.4%	-0.5%	0.1%	-0.4%

Ireland relative to:

Euro Area	126.7%	141.7%	136.1%	125.3%	120.4%
EU 27	127.1%	142.0%	140.9%	130.1%	124.1%

Source: Eurostat

Table 5 Household Electricity Prices in band DE in Europe (S1 2008 to S1 2010) without taxes

Band DE	without taxes (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	10.95	11.12	11.43	11.64	12.00	1.6%	2.8%	1.8%	3.1%	5.0%
Belgium	11.81	12.40	10.55	10.54	11.99	5.0%	-14.9%	-0.1%	13.8%	13.6%
Bulgaria	5.88	7.52	6.80	6.75	6.70	27.9%	-9.6%	-0.7%	-0.7%	-1.5%
Croatia	7.15	8.64	8.40	8.63	8.60	20.8%	-2.8%	2.7%	-0.3%	2.4%
Cyprus	15.39	18.24	13.97	14.44	13.64	18.5%	-23.4%	3.4%	-5.5%	-2.4%
Czech Republic	7.50	7.65	7.96	8.39	7.89	2.0%	4.1%	5.4%	-6.0%	-0.9%
Germany	11.31	11.81	12.48	11.99	12.46	4.4%	5.7%	-3.9%	3.9%	-0.2%
Denmark	10.36	11.56	10.68	9.52	9.90	11.6%	-7.6%	-10.9%	4.0%	-7.3%
Estonia	5.15	5.78	5.92	6.04	5.85	12.2%	2.4%	2.0%	-3.1%	-1.2%
Finland	6.41	6.77	6.99	6.92	7.11	5.6%	3.2%	-1.0%	2.7%	1.7%
France	7.34	7.84	7.50	7.95	7.89	6.8%	-4.3%	6.0%	-0.8%	5.2%
Greece	12.45	15.61	15.24	13.15	13.37	25.4%	-2.4%	-13.7%	1.7%	-12.3%
Hungary	13.11	13.32	10.99	12.82	..	1.6%	-17.5%	16.7%	..	..
Ireland	12.09	14.02	14.20	12.93	12.33	16.0%	1.3%	-8.9%	-4.6%	-13.2%
Italy	..	..	..	..	..	..	..	..	..	..
Latvia	7.53	9.52	9.53	9.54	9.50	26.4%	0.1%	0.1%	-0.4%	-0.3%
Lithuania	6.38	6.51	6.79	6.81	8.55	2.0%	4.3%	0.3%	25.6%	25.9%
Luxembourg	9.09	9.90	11.92	11.92	11.68	8.9%	20.4%	0.0%	-2.0%	-2.0%
Malta	13.50	18.78	20.27	20.27	..	39.1%	7.9%	0.0%	..	..
Netherlands	11.30	11.50	12.70	12.23	10.70	1.8%	10.4%	-3.7%	-12.5%	-15.7%
Norway	7.08	7.96	6.91	6.65	9.62	12.4%	-13.2%	-3.8%	44.7%	39.2%
Poland	8.51	9.00	8.18	9.12	9.69	5.8%	-9.1%	11.5%	6.2%	18.5%
Portugal	8.68	8.25	10.73	11.41	9.20	-5.0%	30.1%	6.3%	-19.4%	-14.3%
Romania	8.78	9.43	7.61	7.63	8.11	7.4%	-19.3%	0.3%	6.3%	6.6%
Slovakia	7.60	8.81	10.22	11.06	9.68	15.9%	16.0%	8.2%	-12.5%	-5.3%
Slovenia	8.02	8.60	10.15	9.55	9.67	7.2%	18.0%	-5.9%	1.3%	-4.7%
Spain	9.81	11.48	11.63	11.53	11.74	17.0%	1.3%	-0.9%	1.8%	0.9%
Sweden	8.05	8.42	7.83	7.89	8.99	4.6%	-7.0%	0.8%	13.9%	14.8%
Turkey	7.82	9.69	9.09	9.36	10.67	23.9%	-6.2%	3.0%	14.0%	17.4%
United Kingdom	13.16	12.61	12.42	11.37	10.70	-4.2%	-1.5%	-8.5%	-5.9%	-13.8%
Euro Area	10.32	11.12	11.77	11.83	11.65	7.8%	5.8%	0.5%	-1.5%	-1.0%
EU 27	10.43	11.00	11.31	11.26	11.12	5.5%	2.8%	-0.4%	-1.2%	-1.7%

Ireland relative to:

Euro Area	117.2%	126.1%	120.6%	109.3%	105.8%
EU 27	115.9%	127.5%	125.6%	114.8%	110.9%

Source: Eurostat

3 Electricity prices to Households in the EU (without VAT)

Table 6 Household Electricity Prices in band DA in Europe (S1 2008 to S1 2010) without VAT

Band DA	without VAT (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - Jun 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	22.08	22.08	22.72	22.72	22.11	0.0%	2.9%	0.0%	-2.7%	-2.7%
Belgium	23.02	23.23	21.72	22.09	22.54	0.9%	-6.5%	1.7%	2.0%	3.8%
Bulgaria	6.19	6.85	7.06	6.85	6.85	10.7%	3.1%	-3.0%	0.0%	-3.0%
Croatia	16.09	17.27	17.20	15.21	15.48	7.3%	-0.4%	-11.6%	1.8%	-10.0%
Cyprus	16.73	17.35	12.14	13.95	18.46	3.7%	-30.0%	14.9%	32.3%	52.1%
Czech Republic	22.34	22.78	22.62	23.84	23.79	2.0%	-0.7%	5.4%	-0.2%	5.2%
Germany	28.70	29.28	30.11	29.98	30.79	2.0%	2.8%	-0.4%	2.7%	2.3%
Denmark	23.36	24.56	23.92	22.76	23.79	5.1%	-2.6%	-4.8%	4.5%	-0.5%
Estonia	7.10	7.39	8.01	7.89	8.29	4.1%	8.4%	-1.5%	5.1%	3.5%
Finland	17.62	18.58	19.91	20.21	20.53	5.4%	7.2%	1.5%	1.6%	3.1%
France	20.67	20.40	14.43	12.90	12.34	-1.3%	-29.3%	-10.6%	-4.3%	-14.5%
Greece	11.21	9.65	9.59	10.09	10.73	-13.9%	-0.6%	5.2%	6.3%	11.9%
Hungary	13.47	13.24	11.78	14.55	..	-1.7%	-11.0%	23.5%	..	..
Ireland	39.19	42.98	38.15	36.67	35.55	9.7%	-11.2%	-3.9%	-3.1%	-6.8%
Italy	25.10	25.00	26.69	25.17	25.78	-0.4%	6.8%	-5.7%	2.4%	-3.4%
Latvia	8.13	9.57	9.57	9.59	9.54	17.7%	0.0%	0.2%	-0.5%	-0.3%
Lithuania	7.81	7.82	8.50	8.14	10.02	0.1%	8.7%	-4.2%	23.1%	17.9%
Luxembourg	22.81	23.22	25.32	25.32	23.15	1.8%	9.0%	0.0%	-8.6%	-8.6%
Malta	4.44	12.10	23.65	21.65	..	172.5%	95.5%	-8.5%	..	..
Netherlands	..	..	..	..	..	..	..	..	..	..
Norway	31.44	30.76	29.65	30.39	36.59	-2.2%	-3.6%	2.5%	20.4%	23.4%
Poland	14.40	14.24	11.86	13.05	14.17	-1.1%	-16.7%	10.0%	8.6%	19.5%
Portugal	32.03	32.55	31.54	31.04	32.18	1.6%	-3.1%	-1.6%	3.7%	2.0%
Romania	8.95	9.15	8.18	8.03	8.63	2.2%	-10.6%	-1.8%	7.5%	5.5%
Slovakia	19.02	21.47	19.74	19.62	18.87	12.9%	-8.1%	-0.6%	-3.8%	-4.4%
Slovenia	15.48	16.10	22.13	23.56	21.75	4.0%	37.5%	6.5%	-7.7%	-1.7%
Spain	25.80	27.56	26.70	27.45	33.36	6.8%	-3.1%	2.8%	21.5%	24.9%
Sweden	22.96	23.75	20.35	21.95	27.58	3.4%	-14.3%	7.9%	25.6%	35.5%
Turkey	8.46	10.36	9.70	9.99	11.37	22.5%	-6.4%	3.0%	13.8%	17.2%
United Kingdom	15.23	16.03	14.99	16.55	14.00	5.3%	-6.5%	10.4%	-15.4%	-6.6%
Euro Area	24.20	24.57	23.09	22.54	23.49	1.5%	-6.0%	-2.4%	4.2%	1.7%
EU 27	21.67	22.13	20.69	20.70	21.33	2.1%	-6.5%	0.0%	3.0%	3.1%

Ireland relative to:

Euro Area	161.9%	174.9%	165.2%	162.7%	151.3%
EU 27	180.8%	194.2%	184.4%	177.1%	166.7%

Source: Eurostat

Table 7 Household Electricity Prices in band DB in Europe (S1 2008 to S1 2010) without VAT

Band DB	without VAT (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - Jun 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	16.71	16.95	17.40	17.51	18.10	1.4%	2.7%	0.6%	3.4%	4.0%
Belgium	17.95	19.30	17.82	17.25	19.40	7.5%	-7.7%	-3.2%	12.5%	8.9%
Bulgaria	6.08	6.75	6.90	6.80	6.80	11.0%	2.2%	-1.4%	0.0%	-1.4%
Croatia	8.94	10.73	10.43	9.32	9.23	20.0%	-2.8%	-10.6%	-1.0%	-11.5%
Cyprus	15.31	16.61	11.42	13.17	16.11	8.5%	-31.2%	15.3%	22.3%	41.1%
Czech Republic	16.79	17.11	17.13	18.05	17.72	1.9%	0.1%	5.4%	-1.8%	3.4%
Germany	20.01	20.50	21.26	21.30	22.03	2.4%	3.7%	0.2%	3.4%	3.6%
Denmark	23.36	24.56	23.92	22.76	23.79	5.1%	-2.6%	-4.8%	4.5%	-0.5%
Estonia	7.04	7.32	7.96	7.82	8.23	4.0%	8.7%	-1.8%	5.2%	3.4%
Finland	12.07	12.54	13.37	13.49	13.78	3.9%	6.6%	0.9%	2.1%	3.1%
France	12.18	12.19	12.32	12.11	12.29	0.1%	1.1%	-1.7%	1.5%	-0.2%
Greece	8.31	8.55	8.88	8.43	9.38	2.9%	3.9%	-5.1%	11.3%	5.6%
Hungary	13.40	13.21	12.80	13.94	..	-1.4%	-3.1%	8.9%	..	..
Ireland	18.39	20.87	20.54	18.94	18.56	13.5%	-1.6%	-7.8%	-2.0%	-9.6%
Italy	14.35	16.18	15.55	15.22	14.81	12.8%	-3.9%	-2.1%	-2.7%	-4.8%
Latvia	8.08	9.56	9.57	9.59	9.54	18.3%	0.1%	0.2%	-0.5%	-0.3%
Lithuania	7.57	7.57	8.25	7.92	9.77	0.0%	9.0%	-4.0%	23.4%	18.4%
Luxembourg	17.39	17.65	19.39	19.36	17.98	1.5%	9.9%	-0.2%	-7.1%	-7.3%
Malta	5.90	12.60	18.16	16.30	..	113.6%	44.1%	-10.2%	..	..
Netherlands	11.70	11.70	9.80	9.33	8.29	0.0%	-16.2%	-4.8%	-11.1%	-15.4%
Norway	19.73	19.79	18.71	18.96	23.57	0.3%	-5.5%	1.3%	24.3%	26.0%
Poland	10.90	11.52	9.95	10.68	11.77	5.7%	-13.6%	7.3%	10.2%	18.3%
Portugal	16.15	16.59	16.33	17.22	17.09	2.7%	-1.6%	5.5%	-0.8%	4.7%
Romania	8.97	9.02	8.17	8.14	8.60	0.6%	-9.4%	-0.4%	5.7%	5.3%
Slovakia	13.50	15.01	14.65	14.31	14.40	11.2%	-2.4%	-2.3%	0.6%	-1.7%
Slovenia	10.80	10.95	13.22	13.29	13.94	1.4%	20.7%	0.5%	4.9%	5.4%
Spain	13.65	15.50	15.34	16.52	17.05	13.6%	-1.0%	7.7%	3.2%	11.1%
Sweden	15.00	15.63	14.36	14.54	15.94	4.2%	-8.1%	1.3%	9.6%	11.0%
Turkey	8.46	10.36	9.70	9.99	11.37	22.5%	-6.4%	3.0%	13.8%	17.2%
United Kingdom	14.58	15.79	14.66	14.64	14.14	8.3%	-7.2%	-0.1%	-3.4%	-3.5%
Euro Area	14.94	15.67	15.70	15.71	16.06	4.9%	0.2%	0.1%	2.2%	2.3%
EU 27	14.63	15.39	15.12	15.18	15.47	5.2%	-1.8%	0.4%	1.9%	2.3%

Ireland relative to:

Euro Area	123.1%	133.2%	130.8%	120.6%	115.6%
EU 27	125.7%	135.6%	135.8%	124.8%	120.0%

Source: Eurostat

Table 8 Household Electricity Prices in band DC in Europe (S1 2008 to S1 2010) without VAT

Band DC	without VAT (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - Jun 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	14.83	14.76	15.90	15.91	16.42	-0.5%	7.7%	0.1%	3.2%	3.3%
Belgium	16.30	17.20	15.84	15.55	16.74	5.5%	-7.9%	-1.8%	7.7%	5.7%
Bulgaria	5.93	6.85	6.85	6.85	6.75	15.5%	0.0%	0.0%	-1.5%	-1.5%
Croatia	8.12	9.75	9.48	9.45	9.39	20.1%	-2.8%	-0.3%	-0.6%	-0.9%
Cyprus	15.50	17.76	13.58	14.31	16.19	14.6%	-23.5%	5.4%	13.1%	19.2%
Czech Republic	10.72	10.92	11.13	11.72	11.19	1.9%	1.9%	5.3%	-4.5%	0.5%
Germany	18.00	18.43	19.18	19.28	19.96	2.4%	4.1%	0.5%	3.5%	4.1%
Denmark	21.08	22.28	21.58	20.43	21.36	5.7%	-3.1%	-5.3%	4.6%	-1.0%
Estonia	6.91	7.21	7.82	7.67	8.10	4.3%	8.5%	-1.9%	5.6%	3.6%
Finland	10.03	10.43	10.62	10.56	10.86	4.0%	1.8%	-0.6%	2.8%	2.3%
France	10.38	10.33	10.51	10.49	10.76	-0.5%	1.7%	-0.2%	2.6%	2.4%
Greece	9.60	10.05	10.55	9.47	10.79	4.7%	5.0%	-10.2%	13.9%	2.3%
Hungary	12.90	12.94	12.38	13.32	..	0.3%	-4.3%	7.6%	..	..
Ireland	15.59	17.91	17.89	16.35	15.89	14.9%	-0.1%	-8.6%	-2.8%	-11.2%
Italy	18.48	20.25	19.08	18.17	17.91	9.6%	-5.8%	-4.8%	-1.4%	-6.1%
Latvia	8.02	9.56	9.57	9.59	9.54	19.2%	0.1%	0.2%	-0.5%	-0.3%
Lithuania	7.29	7.32	7.99	7.68	9.55	0.4%	9.2%	-3.9%	24.3%	19.5%
Luxembourg	15.52	15.18	17.75	17.75	16.28	-2.2%	16.9%	0.0%	-8.3%	-8.3%
Malta	9.45	14.63	16.27	14.41	..	54.8%	11.2%	-11.4%	..	..
Netherlands	14.50	15.00	16.00	15.47	14.32	3.4%	6.7%	-3.3%	-7.4%	-10.5%
Norway	13.11	13.60	12.52	12.50	16.23	3.7%	-7.9%	-0.2%	29.8%	29.6%
Poland	10.32	10.62	9.27	10.58	10.99	2.9%	-12.7%	14.1%	3.9%	18.6%
Portugal	14.12	14.53	14.37	15.19	15.04	2.9%	-1.1%	5.7%	-1.0%	4.7%
Romania	8.85	9.20	8.14	8.15	8.56	4.0%	-11.5%	0.1%	5.0%	5.2%
Slovakia	11.48	12.83	12.94	13.11	12.77	11.8%	0.9%	1.3%	-2.6%	-1.3%
Slovenia	9.56	9.64	11.22	11.17	11.67	0.8%	16.4%	-0.4%	4.5%	4.0%
Spain	11.82	13.42	13.60	14.52	14.90	13.5%	1.3%	6.8%	2.6%	9.6%
Sweden	13.59	14.00	12.89	13.19	14.71	3.0%	-7.9%	2.3%	11.5%	14.1%
Turkey	8.46	10.36	9.70	9.99	11.37	22.5%	-6.4%	3.0%	13.8%	17.2%
United Kingdom	13.94	15.30	13.99	13.40	13.21	9.8%	-8.6%	-4.2%	-1.4%	-5.6%
Euro Area	14.10	14.75	14.90	14.85	15.17	4.6%	1.0%	-0.3%	2.2%	1.8%
EU 27	13.70	14.42	14.23	14.18	14.47	5.3%	-1.3%	-0.4%	2.0%	1.7%

Ireland relative to:

Euro Area	110.6%	121.4%	120.1%	110.1%	104.7%
EU 27	113.8%	124.2%	125.7%	115.3%	109.8%

Source: Eurostat

Table 9 Household Electricity Prices in band DD in Europe (S1 2008 to S1 2010) without VAT

Band DD	without VAT (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - Jun 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	13.65	13.81	14.49	14.61	14.87	1.2%	4.9%	0.8%	1.8%	2.6%
Belgium	14.61	15.43	14.07	13.86	14.47	5.6%	-8.8%	-1.5%	4.4%	2.8%
Bulgaria	5.88	6.80	6.80	6.85	6.75	15.6%	0.0%	0.7%	-1.5%	-0.7%
Croatia	7.56	9.19	8.94	9.18	8.99	21.6%	-2.7%	2.7%	-2.1%	0.6%
Cyprus	15.55	18.31	14.01	14.42	15.72	17.7%	-23.5%	2.9%	9.0%	12.2%
Czech Republic	8.81	8.98	9.25	9.74	9.29	1.9%	3.0%	5.3%	-4.6%	0.4%
Germany	16.70	17.13	17.86	17.97	18.83	2.6%	4.3%	0.6%	4.8%	5.4%
Denmark	18.75	19.95	19.21	18.06	18.56	6.4%	-3.7%	-6.0%	2.8%	-3.4%
Estonia	6.58	7.01	7.52	7.47	7.83	6.5%	7.3%	-0.7%	4.8%	4.1%
Finland	8.67	9.11	9.41	9.37	9.58	5.1%	3.3%	-0.4%	2.2%	1.8%
France	9.01	9.00	9.11	9.29	9.48	-0.1%	1.2%	2.0%	2.0%	4.1%
Greece	11.42	12.33	12.53	11.02	12.51	8.0%	1.6%	-12.1%	13.5%	-0.2%
Hungary	12.84	12.75	11.24	12.51	..	-0.7%	-11.8%	11.3%	..	..
Ireland	13.85	16.25	16.19	14.87	14.20	17.3%	-0.4%	-8.2%	-4.5%	-12.3%
Italy	21.00	21.87	23.73	23.79	22.71	4.1%	8.5%	0.3%	-4.5%	-4.3%
Latvia	7.82	9.54	9.54	9.59	9.54	22.0%	0.0%	0.5%	-0.5%	0.0%
Lithuania	6.85	6.97	7.54	7.33	9.12	1.8%	8.2%	-2.8%	24.4%	21.0%
Luxembourg	13.94	13.86	16.03	16.03	15.20	-0.6%	15.7%	0.0%	-5.2%	-5.2%
Malta	12.46	17.19	16.86	15.10	..	38.0%	-1.9%	-10.4%	..	..
Netherlands	16.50	16.70	19.30	18.74	17.69	1.2%	15.6%	-2.9%	-5.6%	-8.3%
Norway	9.50	10.22	9.14	8.98	12.20	7.6%	-10.6%	-1.8%	35.9%	33.5%
Poland	9.13	10.07	8.79	9.61	10.12	10.3%	-12.7%	9.3%	5.3%	15.1%
Portugal	12.65	13.01	13.02	13.66	13.65	2.8%	0.1%	4.9%	-0.1%	4.8%
Romania	8.70	9.21	7.83	7.86	8.40	5.9%	-15.0%	0.4%	6.9%	7.3%
Slovakia	9.63	10.95	12.47	13.09	11.42	13.7%	13.9%	5.0%	-12.8%	-8.4%
Slovenia	8.88	9.10	10.55	10.26	10.64	2.5%	15.9%	-2.7%	3.7%	0.9%
Spain	10.74	12.81	12.65	13.31	13.37	19.3%	-1.2%	5.2%	0.5%	5.7%
Sweden	11.88	12.08	10.96	11.36	12.77	1.7%	-9.3%	3.6%	12.4%	16.5%
Turkey	8.46	10.36	9.70	9.99	11.37	22.5%	-6.4%	3.0%	13.8%	17.2%
United Kingdom	12.90	13.34	12.53	11.93	11.79	3.4%	-6.1%	-4.8%	-1.2%	-5.9%
Euro Area	13.50	14.12	14.62	14.71	14.87	4.6%	3.5%	0.6%	1.1%	1.7%
EU 27	12.94	13.52	13.63	13.66	13.86	4.5%	0.8%	0.2%	1.5%	1.7%

Ireland relative to:

Euro Area	102.6%	115.1%	110.7%	101.1%	95.5%
EU 27	107.0%	120.2%	118.8%	108.9%	102.5%

Source: Eurostat

Table 10 Household Electricity Prices in band DE in Europe (S1 2008 to S1 2010) without VAT

Band DE	without VAT (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - Jun 09	July 09 - Dec 09	Jan 10 - Jun 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	12.62	12.79	13.10	13.32	13.72	1.3%	2.4%	1.7%	3.0%	4.7%
Belgium	13.17	13.80	12.05	12.01	13.26	4.8%	-12.7%	-0.3%	10.4%	10.0%
Bulgaria	5.88	7.52	6.80	6.75	6.70	27.9%	-9.6%	-0.7%	-0.7%	-1.5%
Croatia	7.29	8.78	8.53	8.77	8.64	20.4%	-2.8%	2.8%	-1.5%	1.3%
Cyprus	15.61	18.46	14.19	14.66	13.86	18.3%	-23.1%	3.3%	-5.5%	-2.3%
Czech Republic	7.62	7.77	8.07	8.50	8.01	2.0%	3.9%	5.3%	-5.8%	-0.7%
Germany	16.02	16.55	17.34	17.37	18.30	3.3%	4.8%	0.2%	5.4%	5.5%
Denmark	18.75	19.95	19.21	18.06	18.56	6.4%	-3.7%	-6.0%	2.8%	-3.4%
Estonia	5.66	6.29	6.61	6.75	7.01	11.1%	5.1%	2.1%	3.9%	6.1%
Finland	7.29	7.65	7.87	7.80	7.99	4.9%	2.9%	-0.9%	2.4%	1.5%
France	8.41	8.93	8.58	9.07	9.11	6.2%	-3.9%	5.7%	0.4%	6.2%
Greece	12.48	15.61	15.24	13.21	15.31	25.1%	-2.4%	-13.3%	15.9%	0.5%
Hungary	13.24	13.46	11.10	12.94	..	1.7%	-17.5%	16.6%	..	..
Ireland	12.09	14.02	14.20	12.93	12.33	16.0%	1.3%	-8.9%	-4.6%	-13.2%
Italy	19.75	21.24	26.63	28.34	25.66	7.5%	25.4%	6.4%	-9.5%	-3.6%
Latvia	7.53	9.52	9.53	9.54	9.50	26.4%	0.1%	0.1%	-0.4%	-0.3%
Lithuania	6.38	6.51	6.79	6.81	8.55	2.0%	4.3%	0.3%	25.6%	25.9%
Luxembourg	9.89	10.88	13.14	13.14	13.68	10.0%	20.8%	0.0%	4.1%	4.1%
Malta	13.50	18.78	20.27	20.27	..	39.1%	7.9%	0.0%	..	..
Netherlands	15.50	15.70	16.50	15.98	14.56	1.3%	5.1%	-3.2%	-8.9%	-11.8%
Norway	8.40	9.20	8.13	7.91	10.99	9.5%	-11.6%	-2.7%	38.9%	35.2%
Poland	9.10	9.57	8.62	9.60	10.18	5.2%	-9.9%	11.4%	6.0%	18.1%
Portugal	11.82	12.07	12.23	12.70	13.02	2.1%	1.3%	3.8%	2.5%	6.5%
Romania	8.78	9.43	7.61	7.63	8.11	7.4%	-19.3%	0.3%	6.3%	6.6%
Slovakia	7.60	8.81	10.22	11.06	9.68	15.9%	16.0%	8.2%	-12.5%	-5.3%
Slovenia	8.39	8.96	10.41	9.80	10.07	6.8%	16.2%	-5.9%	2.8%	-3.3%
Spain	10.31	12.07	12.22	12.12	12.34	17.1%	1.2%	-0.8%	1.8%	1.0%
Sweden	10.79	11.06	10.31	10.40	11.65	2.5%	-6.8%	0.9%	12.0%	13.0%
Turkey	8.46	10.36	9.70	9.99	11.37	22.5%	-6.4%	3.0%	13.8%	17.2%
United Kingdom	13.16	12.61	12.42	11.37	10.70	-4.2%	-1.5%	-8.5%	-5.9%	-13.8%
Euro Area	12.77	13.65	14.37	14.62	14.63	6.9%	5.3%	1.7%	0.1%	1.8%
EU 27	12.38	13.01	13.37	13.45	13.45	5.1%	2.8%	0.6%	0.0%	0.6%

Ireland relative to:

Euro Area	94.7%	102.7%	98.8%	88.4%	84.3%
EU 27	97.7%	107.8%	106.2%	96.1%	91.7%

Source: Eurostat

4 Electricity prices to Household in the EU (all taxes incl.)

Table 11 Household Electricity Prices in band DA in Europe (S1 2008 to S1 2010) all taxes included

Band DA	all taxes included (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 09 - June 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S2 '09 - S1 '10	12 months to S1 '10
Austria	26.50	26.49	27.27	27.26	26.57	0.0%	2.9%	0.0%	-2.5%	-2.6%
Belgium	27.85	28.10	26.28	26.73	27.42	0.9%	-6.5%	1.7%	2.6%	4.3%
Bulgaria	7.41	8.23	8.44	8.23	8.23	11.1%	2.6%	-2.5%	0.0%	-2.5%
Croatia	19.67	20.76	20.59	18.77	18.96	5.5%	-0.8%	-8.8%	1.0%	-7.9%
Cyprus	19.21	19.92	13.93	16.01	21.20	3.7%	-30.1%	14.9%	32.4%	52.2%
Czech Republic	26.59	27.11	26.93	28.38	28.53	2.0%	-0.7%	5.4%	0.5%	5.9%
Germany	34.15	34.80	35.99	35.67	36.64	1.9%	3.4%	-0.9%	2.7%	1.8%
Denmark	29.20	30.70	29.90	28.46	29.73	5.1%	-2.6%	-4.8%	4.5%	-0.6%
Estonia	8.38	8.72	9.45	9.47	9.95	4.1%	8.4%	0.2%	5.1%	5.3%
Finland	21.49	22.67	24.29	24.65	25.05	5.5%	7.1%	1.5%	1.6%	3.1%
France	23.20	22.90	16.48	14.81	14.26	-1.3%	-28.0%	-10.1%	-3.7%	-13.5%
Greece	12.22	10.55	10.49	10.99	11.75	-13.7%	-0.6%	4.8%	6.9%	12.0%
Hungary	16.16	15.89	14.11	18.16	..	-1.7%	-11.2%	28.7%	..	..
Ireland	44.48	48.78	43.30	41.62	40.34	9.7%	-11.2%	-3.9%	-3.1%	-6.8%
Italy	27.58	27.49	29.35	27.65	28.33	-0.3%	6.8%	-5.8%	2.5%	-3.5%
Latvia	8.54	10.05	10.53	10.55	10.50	17.7%	4.8%	0.2%	-0.5%	-0.3%
Lithuania	9.22	9.23	10.11	9.84	12.12	0.1%	9.5%	-2.7%	23.2%	19.9%
Luxembourg	24.18	24.62	26.84	26.84	24.54	1.8%	9.0%	0.0%	-8.6%	-8.6%
Malta	4.66	12.71	24.83	22.73	..	172.7%	95.4%	-8.5%	..	..
Netherlands	..	..	..	..	..	..	..	..	..	..
Norway	39.29	38.45	37.05	37.97	45.73	-2.1%	-3.6%	2.5%	20.4%	23.4%
Poland	17.57	17.37	14.47	15.93	17.29	-1.1%	-16.7%	10.1%	8.5%	19.5%
Portugal	33.61	34.16	33.09	32.57	33.79	1.6%	-3.1%	-1.6%	3.7%	2.1%
Romania	10.73	10.96	9.82	9.64	10.39	2.1%	-10.4%	-1.8%	7.8%	5.8%
Slovakia	22.63	25.56	23.49	23.35	22.46	12.9%	-8.1%	-0.6%	-3.8%	-4.4%
Slovenia	18.58	19.32	26.56	28.28	26.10	4.0%	37.5%	6.5%	-7.7%	-1.7%
Spain	30.09	31.97	30.97	31.84	38.70	6.2%	-3.1%	2.8%	21.5%	25.0%
Sweden	28.70	29.74	25.50	27.44	34.43	3.6%	-14.3%	7.6%	25.5%	35.0%
Turkey	9.98	12.22	11.44	11.79	13.41	22.4%	-6.4%	3.1%	13.7%	17.2%
United Kingdom	16.00	16.77	15.78	17.45	14.70	4.8%	-5.9%	10.6%	-15.8%	-6.8%
Euro Area	27.88	28.30	26.77	26.14	27.28	1.5%	-5.4%	-2.4%	4.4%	1.9%
EU 27	24.95	25.45	23.92	23.94	24.75	2.0%	-6.0%	0.1%	3.4%	3.5%

Ireland relative to:

Euro Area	159.5%	172.4%	161.7%	159.2%	147.9%
EU 27	178.3%	191.7%	181.0%	173.9%	163.0%

Source: Eurostat

Table 12 Household Electricity Prices in band DB in Europe (S1 2008 to S1 2010) all taxes included

Band DB	all taxes included (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 09 - June 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S1 '09 - S2 '10	12 months to S1 '10
Austria	20.05	20.33	20.89	21.01	21.70	1.4%	2.8%	0.6%	3.3%	3.9%
Belgium	21.72	23.35	21.56	20.88	23.60	7.5%	-7.7%	-3.2%	13.0%	9.5%
Bulgaria	7.31	8.08	8.33	8.13	8.13	10.5%	3.1%	-2.4%	0.0%	-2.4%
Croatia	11.00	12.82	12.33	11.37	11.34	16.5%	-3.8%	-7.8%	-0.3%	-8.0%
Cyprus	17.57	19.06	13.10	15.11	18.50	8.5%	-31.3%	15.3%	22.4%	41.2%
Czech Republic	19.96	20.35	20.38	21.47	21.26	2.0%	0.1%	5.3%	-1.0%	4.3%
Germany	23.89	24.39	25.28	25.34	26.22	2.1%	3.6%	0.2%	3.5%	3.7%
Denmark	29.20	30.70	29.90	28.46	29.73	5.1%	-2.6%	-4.8%	4.5%	-0.6%
Estonia	8.30	8.65	9.39	9.38	9.89	4.2%	8.6%	-0.1%	5.4%	5.3%
Finland	14.72	15.30	16.32	16.46	16.81	3.9%	6.7%	0.9%	2.1%	3.0%
France	14.11	14.08	14.27	14.00	14.21	-0.2%	1.3%	-1.9%	1.5%	-0.4%
Greece	9.06	9.35	9.72	9.19	10.27	3.2%	4.0%	-5.5%	11.8%	5.7%
Hungary	16.08	15.85	15.34	17.39	..	-1.4%	-3.2%	13.4%	..	..
Ireland	20.87	23.69	23.31	21.50	21.07	13.5%	-1.6%	-7.8%	-2.0%	-9.6%
Italy	15.77	17.79	17.10	16.74	16.28	12.8%	-3.9%	-2.1%	-2.7%	-4.8%
Latvia	8.49	10.04	10.52	10.54	10.49	18.3%	4.8%	0.2%	-0.5%	-0.3%
Lithuania	8.93	8.94	9.81	9.56	11.82	0.1%	9.7%	-2.5%	23.6%	20.5%
Luxembourg	18.40	18.69	20.52	20.52	19.06	1.6%	9.8%	0.0%	-7.1%	-7.1%
Malta	6.19	13.23	19.06	17.11	..	113.7%	44.1%	-10.2%	..	..
Netherlands	13.90	13.90	11.70	11.11	9.87	0.0%	-15.8%	-5.0%	-11.2%	-15.6%
Norway	24.66	24.74	23.37	23.70	29.47	0.3%	-5.5%	1.4%	24.3%	26.1%
Poland	13.29	14.06	12.13	13.03	14.36	5.8%	-13.7%	7.4%	10.2%	18.4%
Portugal	16.95	17.42	17.13	18.07	17.98	2.8%	-1.7%	5.5%	-0.5%	5.0%
Romania	10.75	10.80	9.80	9.78	10.35	0.5%	-9.3%	-0.2%	5.8%	5.6%
Slovakia	16.07	17.84	17.43	17.03	17.14	11.0%	-2.3%	-2.3%	0.6%	-1.7%
Slovenia	12.96	13.14	15.87	15.95	16.72	1.4%	20.8%	0.5%	4.8%	5.4%
Spain	15.83	17.98	17.79	19.16	19.78	13.6%	-1.1%	7.7%	3.2%	11.2%
Sweden	18.74	19.49	17.95	18.19	19.92	4.0%	-7.9%	1.3%	9.5%	11.0%
Turkey	9.98	12.22	11.44	11.79	13.41	22.4%	-6.4%	3.1%	13.7%	17.2%
United Kingdom	15.36	16.52	15.33	15.42	14.84	7.6%	-7.2%	0.6%	-3.8%	-3.2%
Euro Area	17.41	18.21	18.27	18.28	18.70	4.6%	0.3%	0.1%	2.3%	2.4%
EU 27	16.93	17.76	17.48	17.56	17.93	4.9%	-1.6%	0.5%	2.1%	2.6%

Ireland relative to:

Euro Area	119.9%	130.1%	127.6%	117.6%	112.7%
EU 27	123.3%	133.4%	133.4%	122.4%	117.5%

Source: Eurostat

Table 13 Household Electricity Prices in band DC in Europe (S1 2008 to S1 2010) all taxes included

Band DC	all taxes included (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 09 - June 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S1 '09 - S2 '10	12 months to S1 '10
Austria	17.79	17.72	19.09	19.09	19.56	-0.4%	7.7%	0.0%	2.5%	2.5%
Belgium	19.72	20.81	19.16	18.82	20.32	5.5%	-7.9%	-1.8%	8.0%	6.1%
Bulgaria	7.11	8.23	8.23	8.18	8.13	15.8%	0.0%	-0.6%	-0.6%	-1.2%
Croatia	9.90	11.84	11.51	11.64	11.51	19.6%	-2.8%	1.1%	-1.1%	0.0%
Cyprus	17.80	20.40	15.58	16.42	18.58	14.6%	-23.6%	5.4%	13.2%	19.3%
Czech Republic	12.74	12.99	13.23	13.94	13.45	2.0%	1.8%	5.4%	-3.5%	1.7%
Germany	21.48	21.95	22.82	22.94	23.75	2.2%	4.0%	0.5%	3.5%	4.1%
Denmark	26.35	27.85	26.98	25.53	26.70	5.7%	-3.1%	-5.4%	4.6%	-1.0%
Estonia	8.14	8.50	9.22	9.20	9.70	4.4%	8.5%	-0.2%	5.4%	5.2%
Finland	12.23	12.73	12.96	12.89	13.25	4.1%	1.8%	-0.5%	2.8%	2.2%
France	12.13	12.03	12.28	12.25	12.56	-0.8%	2.1%	-0.2%	2.5%	2.3%
Greece	10.47	10.99	11.54	10.32	11.81	5.0%	5.0%	-10.6%	14.4%	2.3%
Hungary	15.48	15.53	14.83	16.62	..	0.3%	-4.5%	12.1%	..	..
Ireland	17.69	20.33	20.30	18.55	18.04	14.9%	-0.1%	-8.6%	-2.7%	-11.1%
Italy	20.31	22.27	20.98	19.97	19.67	9.7%	-5.8%	-4.8%	-1.5%	-6.2%
Latvia	8.42	10.03	10.52	10.54	10.49	19.1%	4.9%	0.2%	-0.5%	-0.3%
Lithuania	8.60	8.65	9.51	9.26	11.56	0.6%	9.9%	-2.6%	24.8%	21.6%
Luxembourg	16.45	16.09	18.82	18.82	17.26	-2.2%	17.0%	0.0%	-8.3%	-8.3%
Malta	9.93	15.36	17.08	15.13	..	54.7%	11.2%	-11.4%	..	..
Netherlands	17.30	17.80	19.00	18.41	17.04	2.9%	6.7%	-3.1%	-7.4%	-10.3%
Norway	16.39	17.00	15.65	15.63	20.27	3.7%	-7.9%	-0.1%	29.7%	29.5%
Poland	12.59	12.95	11.31	12.91	13.41	2.9%	-12.7%	14.1%	3.9%	18.6%
Portugal	14.82	15.25	15.08	15.94	15.84	2.9%	-1.1%	5.7%	-0.6%	5.0%
Romania	10.61	11.03	9.76	9.79	10.31	4.0%	-11.5%	0.3%	5.3%	5.6%
Slovakia	13.65	15.27	15.40	15.60	15.20	11.9%	0.9%	1.3%	-2.6%	-1.3%
Slovenia	11.47	11.56	13.46	13.41	14.01	0.8%	16.4%	-0.4%	4.5%	4.1%
Spain	13.66	15.57	15.77	16.84	17.28	14.0%	1.3%	6.8%	2.6%	9.6%
Sweden	16.98	17.46	16.02	16.46	18.39	2.8%	-8.2%	2.7%	11.7%	14.8%
Turkey	9.98	12.22	11.44	11.79	13.42	22.4%	-6.4%	3.1%	13.8%	17.3%
United Kingdom	14.58	16.03	14.66	14.07	13.86	9.9%	-8.5%	-4.0%	-1.5%	-5.5%
Euro Area	16.41	17.13	17.33	17.28	17.65	4.4%	1.2%	-0.3%	2.1%	1.8%
EU 27	15.82	16.63	16.43	16.40	16.76	5.1%	-1.2%	-0.2%	2.2%	2.0%

Ireland relative to:

Euro Area	107.8%	118.7%	117.1%	107.3%	102.2%
EU 27	111.8%	122.2%	123.6%	113.1%	107.6%

Source: Eurostat

Table 14 Household Electricity Prices in band DD in Europe (S1 2008 to S1 2010) all taxes included

Band DD	all taxes included (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 09 - June 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S1 '09 - S2 '10	12 months to S1 '10
Austria	16.38	16.57	17.39	17.53	17.73	1.2%	4.9%	0.8%	1.1%	2.0%
Belgium	17.68	18.67	17.02	16.77	17.56	5.6%	-8.8%	-1.5%	4.7%	3.2%
Bulgaria	7.06	8.18	8.13	8.23	8.13	15.9%	-0.6%	1.2%	-1.2%	0.0%
Croatia	9.22	11.28	10.84	11.23	11.01	22.3%	-3.9%	3.6%	-2.0%	1.6%
Cyprus	17.85	21.02	16.08	16.55	18.04	17.8%	-23.5%	2.9%	9.0%	12.2%
Czech Republic	10.48	10.68	11.02	11.61	11.15	1.9%	3.2%	5.4%	-4.0%	1.2%
Germany	19.88	20.39	21.22	21.38	22.40	2.6%	4.1%	0.8%	4.8%	5.6%
Denmark	23.44	24.94	24.02	22.57	23.21	6.4%	-3.7%	-6.0%	2.8%	-3.4%
Estonia	7.77	8.27	8.87	8.97	9.36	6.4%	7.3%	1.1%	4.3%	5.5%
Finland	10.58	11.11	11.47	11.43	11.68	5.0%	3.2%	-0.3%	2.2%	1.8%
France	10.58	10.54	10.70	10.93	11.15	-0.4%	1.5%	2.1%	2.0%	4.2%
Greece	12.45	13.47	13.69	12.01	13.70	8.2%	1.6%	-12.3%	14.1%	0.1%
Hungary	15.41	15.30	13.46	15.61	..	-0.7%	-12.0%	16.0%	..	..
Ireland	15.72	18.44	18.37	16.88	16.12	17.3%	-0.4%	-8.1%	-4.5%	-12.2%
Italy	23.08	24.05	26.09	26.15	24.93	4.2%	8.5%	0.2%	-4.7%	-4.4%
Latvia	8.21	10.02	10.51	10.54	10.50	22.0%	4.9%	0.3%	-0.4%	-0.1%
Lithuania	8.08	8.23	8.97	8.84	11.03	1.9%	9.0%	-1.4%	24.8%	23.0%
Luxembourg	14.77	14.69	17.00	17.00	16.11	-0.5%	15.7%	0.0%	-5.2%	-5.2%
Malta	13.09	18.05	17.70	15.85	..	37.9%	-1.9%	-10.5%	..	..
Netherlands	19.70	19.90	22.90	22.30	21.05	1.0%	15.1%	-2.6%	-5.6%	-8.1%
Norway	11.86	12.77	11.43	11.22	15.25	7.7%	-10.5%	-1.8%	35.9%	33.4%
Poland	11.14	12.29	10.72	11.72	12.35	10.3%	-12.8%	9.3%	5.4%	15.2%
Portugal	13.23	13.66	13.67	14.34	14.35	3.3%	0.1%	4.9%	0.1%	5.0%
Romania	10.43	11.03	9.41	9.44	10.11	5.8%	-14.7%	0.3%	7.1%	7.4%
Slovakia	11.45	13.03	14.84	15.58	13.59	13.8%	13.9%	5.0%	-12.8%	-8.4%
Slovenia	10.66	10.92	12.66	12.31	12.77	2.4%	15.9%	-2.8%	3.7%	0.9%
Spain	12.41	14.86	14.67	15.44	15.50	19.7%	-1.3%	5.2%	0.4%	5.7%
Sweden	14.85	15.12	13.72	14.25	15.94	1.8%	-9.3%	3.9%	11.9%	16.2%
Turkey	9.98	12.22	11.44	11.79	13.42	22.4%	-6.4%	3.1%	13.8%	17.3%
United Kingdom	13.55	13.95	13.09	12.50	12.38	3.0%	-6.2%	-4.5%	-1.0%	-5.4%
Euro Area	15.68	16.40	16.97	17.08	17.28	4.6%	3.5%	0.6%	1.2%	1.8%
EU 27	14.93	15.59	15.71	15.79	16.04	4.4%	0.8%	0.5%	1.6%	2.1%

Ireland relative to:

Euro Area	100.3%	112.4%	108.2%	98.8%	93.3%
EU 27	105.3%	118.3%	116.9%	106.9%	100.5%

Source: Eurostat

Table 15 Household Electricity Prices in band DE in Europe (S1 2008 to S1 2010) all taxes included

Band DE	all taxes included (c/kWh)					% change				
	Jan 08 - June 08	July 08 - Dec 08	Jan 09 - June 09	July 09 - Dec 09	Jan 09 - June 10	S1 '08 - S2 '08	S2 '08 - S1 '09	S1 '09 - S2 '09	S1 '09 - S2 '10	12 months to S1 '10
Austria	15.14	15.34	15.72	15.99	16.46	1.3%	2.5%	1.7%	2.9%	4.7%
Belgium	15.92	16.70	14.59	14.54	16.11	4.9%	-12.6%	-0.3%	10.8%	10.4%
Bulgaria	7.06	9.00	8.13	8.13	8.03	27.5%	-9.7%	0.0%	-1.2%	-1.2%
Croatia	8.80	10.73	10.43	10.82	10.67	21.9%	-2.8%	3.7%	-1.4%	2.3%
Cyprus	17.92	21.20	16.28	16.82	15.90	18.3%	-23.2%	3.3%	-5.5%	-2.3%
Czech Republic	9.05	9.22	9.62	10.13	9.60	1.9%	4.3%	5.3%	-5.2%	-0.2%
Germany	19.07	19.70	20.58	20.67	21.78	3.3%	4.5%	0.4%	5.4%	5.8%
Denmark	23.44	24.94	24.02	22.57	23.21	6.4%	-3.7%	-6.0%	2.8%	-3.4%
Estonia	6.69	7.42	7.80	8.10	8.42	10.9%	5.1%	3.8%	4.0%	7.9%
Finland	8.89	9.34	9.60	9.52	9.75	5.1%	2.8%	-0.8%	2.4%	1.6%
France	9.93	10.55	10.13	10.74	10.78	6.2%	-4.0%	6.0%	0.4%	6.4%
Greece	13.60	17.05	16.64	14.39	16.77	25.4%	-2.4%	-13.5%	16.5%	0.8%
Hungary	15.89	16.15	13.30	16.14	..	1.6%	-17.6%	21.4%	..	..
Ireland	13.72	15.91	16.12	14.67	14.00	16.0%	1.3%	-9.0%	-4.6%	-13.2%
Italy	21.70	23.35	29.27	31.11	28.07	7.6%	25.4%	6.3%	-9.8%	-4.1%
Latvia	7.91	10.00	10.48	10.49	10.45	26.4%	4.8%	0.1%	-0.4%	-0.3%
Lithuania	7.53	7.69	8.08	8.22	10.35	2.1%	5.1%	1.7%	25.9%	28.1%
Luxembourg	10.49	11.53	13.93	13.93	14.50	9.9%	20.8%	0.0%	4.1%	4.1%
Malta	14.17	19.72	21.28	21.28	..	39.2%	7.9%	0.0%	..	..
Netherlands	18.50	18.70	19.60	19.02	17.32	1.1%	4.8%	-3.0%	-8.9%	-11.6%
Norway	10.50	11.50	10.16	9.89	13.74	9.5%	-11.7%	-2.7%	38.9%	35.2%
Poland	11.10	11.67	10.52	11.71	12.43	5.1%	-9.9%	11.3%	6.1%	18.2%
Portugal	12.41	12.69	12.84	13.34	13.72	2.3%	1.2%	3.9%	2.8%	6.9%
Romania	10.52	11.30	9.16	9.16	9.78	7.4%	-18.9%	0.0%	6.8%	6.8%
Slovakia	9.03	10.49	12.16	13.16	11.52	16.2%	15.9%	8.2%	-12.5%	-5.3%
Slovenia	10.06	10.76	12.49	11.76	12.09	7.0%	16.1%	-5.8%	2.8%	-3.2%
Spain	11.88	14.00	14.18	14.06	14.32	17.8%	1.3%	-0.8%	1.8%	1.0%
Sweden	13.49	13.80	12.89	13.00	14.61	2.3%	-6.6%	0.9%	12.4%	13.3%
Turkey	9.98	12.22	11.44	11.79	13.42	22.4%	-6.4%	3.1%	13.8%	17.3%
United Kingdom	13.81	13.22	13.09	11.93	11.23	-4.3%	-1.0%	-8.9%	-5.9%	-14.2%
Euro Area	14.83	15.86	16.64	16.94	16.96	6.9%	4.9%	1.8%	0.1%	1.9%
EU 27	14.27	15.01	15.41	15.52	15.56	5.2%	2.7%	0.7%	0.3%	1.0%

Ireland relative to:

Euro Area	92.5%	100.3%	96.9%	86.6%	82.5%
EU 27	96.1%	106.0%	104.6%	94.5%	90.0%

Source: Eurostat

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Appendix – Methodologies for Assessing Prices

The International Energy Agency (IEA) are responsible for a major international compilation of energy prices at all market levels: import prices, industry prices and consumer prices. A large portion of the data is drawn from a quarterly reporting system of end-use energy prices initiated in 1981.

While this provides an extensive databank of energy prices, making comparisons between countries is not a trivial task. Definitions for prices shown for a particular energy source used in a given sector may differ from country to country. At one extreme, gasoline prices are closely comparable between countries; at the other extreme, only broad order of magnitude comparisons between coal prices may be possible.

Data collected in Ireland for *IEA's Energy Prices & Taxes* surveys are overall average prices for a given sector and therefore represent an aggregate price for small, medium and large consumers.

Eurostat collects electricity and gas prices under *Council Directive 90/377/EEC* of 29 June 1990 concerning a Community procedure to improve the transparency of gas and electricity prices charged to business end-users. This Directive obliges Member States to ensure that undertakings that supply electricity and gas to business end-users provide statistical data on an annual basis. Data must be provided to Eurostat on the price and terms of sale of gas and electricity to business end-users, the price systems in use and the breakdown of consumers and the corresponding volumes by category of consumption. Sustainable Energy Ireland has responsibility for the collection, collation and reporting of data on Ireland's behalf.

In 2002 Eurostat's Energy Statistics Committee meeting gave the mandate to set up a task force to study improvements in the existing data collection and methodology to take account in particular of market liberalization that changed the context for the methodology applied. *Directive 90/377/EEC* was recast in the interests of clarity and as a result the revised methodology, *European Commission Decision (2007/394/EC)*, has been applied since 1st January 2008. The electricity and gas price comparisons assessed in sections 3 and 4 of this report are drawn from the first set of results arising from this new methodology.

This new methodology reflects more accurately the actual cost of gas and electricity to final consumers as it incorporates all the factors in the cost of their use. The methodology is comprehensive and transparent and in each customer category, information is sought from each supplier regarding the volume of sales and the associated revenue. This allows computation of a national sales weighted unit price for electricity and gas for each customer category. It facilitates the comparison of costs across the EU but care must be taken in choosing the relevant costs to compare and to allow for currency and purchasing power differences.

