

Commercial / Industrial Fuels Comparison of Energy Costs

01-Jan-16

Notes:

- All prices are inclusive of 13.5% VAT
- Ex-works price. Add delivery costs as appropriate.
Actual prices also depend on quality purchased. Carbon tax included.
- Prices used are an average of wholesale scheduled prices, exclusive of any rebates that may apply. Rebate may reduce fuel cost in the region of 20-25% depending on various market conditions. Please contact your petroleum supplier for current prices.
- Prices available on request from suppliers for L.P.G. quantities over three tonnes.
- Gas prices are VAT Incl prices from the EU Price Directive Survey, & represent prices for 01/01/2015 to 30/06/2015 (Prices updated every 6 mths)
For methodology and more details please see the following report : http://www.seai.ie/Publications/Statistics_Publications/EPSSU_Publications/Electricity_and_Gas_Prices/Electricity_Gas_Prices_in_Ireland.pdf
- Electricity prices are VAT Incl prices from the EU Price Directive Survey, & represent prices for 01/01/2015 to 30/06/2015 (Prices updated every 6 mths)
For methodology and more details please see the following report : http://www.seai.ie/Publications/Statistics_Publications/EPSSU_Publications/Electricity_and_Gas_Prices/Electricity_Gas_Prices_in_Ireland.pdf
See Special Note below on the Public Service Obligation (PSO) levy.
- To avail of lower night rate electricity a second meter is required.
The rate quoted is estimated for unit consumption costs only.
Actual costs may be higher due to higher standing charges for night rate electricity.
- Wood fuel prices may vary from the average, given the fragmented supplier network at present.
- Minimum delivery conditions may apply. Discounts may apply for larger quantities.

DISCLAIMER:

While every effort has been made to ensure the accuracy of these statistical publications and/or reports, they are subject to revisions and changes from time to time. The Sustainable Energy Authority of Ireland is not liable for losses suffered, whether direct or consequential, arising out of any reliance on these data. It is the responsibility of each individual or entity to independently verify such information if the intention is to use such information in any form for personal or commercial purposes. The Sustainable Energy Authority of Ireland reserves the right to change the methodology in collecting, presenting and publishing these statistics and/or report.

Fuel	Form	Unit of Supply	Average Price per Unit (€) ¹	Gross Calorific Value (kWh/unit)	Delivered Energy Cost cent/kWh	Percentage change since 1 October, 2015	Percentage change since 1 January, 2015
Coal ²	Industrial Fines	Tonne	123.34	7759.2	1.59	-	-
Oil ³	Gas Oil	Litre	0.714	10.55	6.77	-11.6%	-13.7%
	Light Fuel Oil	Litre	0.650	11.21	5.80	-13.2%	-15.1%
	Medium Fuel Oil	Litre	0.607	11.32	5.36	-10.5%	-15.1%
	Heavy Fuel Oil	Litre	0.565	11.45	4.94	-10.0%	-15.5%
L.P.G.	Commercial Cylinders	kg	1.848	13.96	13.24	-1.5%	-9.8%
	Bulk L.P.G. (0-3 tonnes) ⁴	Litre	0.575	7.09	8.10	-3.3%	-19.7%
	Bulk L.P.G. (3.1-40 tonnes)	Litre	0.478	7.09	6.74	-0.6%	-21.5%
Natural Gas ⁵	Band 1I: <278 MWh per annum	kWh	0.0592	1.0	5.92	-	-9.2%
	Band 12: >=278 <2,778 MWh per annum	kWh	0.0441	1.0	4.41	-	-15.0%
	Band 13: >=2,778 <27,778 MWh per annum	kWh	0.0433	1.0	4.33	-	-5.7%
	Band 14: >=27,778 <277,778 MWh per annum	kWh	0.0331	1.0	3.31	-	+4.0%
Electricity ⁶	Band 1A: <20MWh per annum	kWh	0.2381	1.0	23.81	-	+6.4%
	Band 1B: >=20 < 500 MWh per annum	kWh	0.1860	1.0	18.60	-	+2.6%
	Band 1C: >=500 < 2000 MWh per annum	kWh	0.1601	1.0	16.01	-	+4.5%
	Band 1D: >=2000 < 20,000 MWh per annum	kWh	0.1293	1.0	12.93	-	+2.9%
	Band 1E: >=20,000 < 70,000 MWh per annum	kWh	0.1090	1.0	10.90	-	+4.0%
	Band 1F: >=70,000 < 150,000 MWh per annum	kWh	0.1005	1.0	10.05	-	+0.1%
	Night rate ⁷	kWh	0.0788	1.0	7.88	-	-
Wood ⁸	Fuel Chips (35% moisture)	kg wet	0.127	3.2	3.97	-	-1.1%
	Pellets bulk delivery ⁹	kg	0.273	4.8	5.69	-	-1.6%
	Pellets bagged	kg	0.322	4.8	6.71	-1.0%	+2.6%

Special Notes:

Note: New source for Electricity and Gas Prices from October 2010 : Due to full deregulation of the market, prices are now sourced from the prices gathered for the EU Gas & Electricity Price Transparency Directive. Prices are updated 6 monthly. See notes 5 & 6 and www.seai.ie/Publications/Statistics_Publications/EPSSU_Publications/ for the latest report.

Electricity - from 1/10/2015 the Public Service Obligation (PSO) levy was decreased as follows: From €18.47 to €17.88 per customer per month for small commercial customers (max import capacity < 30kVA) and from €2.85 to €2.76 per kVA for medium and large customers (max import capacity >= 30kVA). See www.cer.ie for more details

Carbon Tax was introduced for Oil, L.P.G and Natural Gas on 1st May 2010. The Carbon Tax was extended to Coal and Peat on 1 May 2013. See www.revenue.ie for more details.

Commercial / Industrial Fuels

Comparison of Useful Energy Costs for Space Heating

01-Jan-16

Notes:

10. Use manufacturers recommended fuel for each appliance.

11. Delivered energy costs quoted are for the

conditions stated overleaf.

12. Efficiencies quoted are bands of typical seasonal heating efficiencies

13. If a night rate electricity meter is installed and if the heat pumps are run during the night, a unit cost of approximately half that specified can be assumed in the calculations for heat pump running costs.

14. Seasonal Performance Factor is defined as the ratio of heat output from the heat pump and the electricity supplied to the heat pump over the heating season. SPF's quoted assume heat pumps are used in conjunction with low temperature systems such as underfloor heating.

15. The Home Heating Appliance Register of Performance (HARP) database contains exact performance specifications of the proposed/installed appliances. www.seai.ie/harp

While HARP is not used in non-domestic Building Energy Rating (BER) it still gives a useful indicator of appliance efficiency/SPF for the purpose of commercial fuel cost comparisons.

Fuel ¹⁰	Form	Delivered Cost ¹¹ (c/kWh)	Seasonal Efficiency Ratings ¹²									Typical Seasonal Efficiencies ¹⁵
			100%	90%	80%	70%	60%	50%	40%	30%	20%	
Coal	Industrial Fines	1.59			1.99	2.27	2.65	3.18	3.97	5.30	7.95	Solid Fuel Boiler 65% - 75%
Oil	Gas Oil	6.77		7.52	8.46	9.67	11.28	13.54				Gas or Oil Fired Boiler or Air Heater 65% - 75%
	Light Fuel Oil	5.80		6.44	7.25	8.28	9.66	11.60				
	Medium Fuel Oil	5.36		5.96	6.70	7.66	8.94	10.72				
	Heavy Fuel Oil	4.94		5.49	6.17	7.05	8.23	9.87				
L.P.G.	Commercial Cylinders	13.24		14.71	16.54	18.91	22.06	26.47				Electric Storage Heater 90%
	Bulk L.P.G. (0-3 tonnes)	8.10		9.01	10.13	11.58	13.51	16.21				
	Bulk L.P.G. (3.1-40 tonnes)	6.74		7.49	8.42	9.62	11.23	13.47				
Natural Gas	Band I1: <278 MWh per annum	5.92		6.57	7.40	8.45	9.86	11.83				Direct Gas Fired Heater 90%
	Band I2: >=278 <2,778 MWh per annum	4.41		4.90	5.52	6.31	7.36	8.83				
	Band I3: >=2,778 <27,778 MWh per annum	4.33		4.82	5.42	6.19	7.22	8.67				
	Band I4: >=27,778 <277,778 MWh per annum	3.31		3.67	4.13	4.72	5.51	6.61				
Electricity	Band IA: <20MWh per annum	23.81	23.81	26.46								Direct Electric Heater 100%
	Band IB: >=20 < 500 MWh per annum	18.60	18.60	20.67								
	Band IC: >=500 < 2000 MWh per annum	16.01	16.01	17.79								
	Band ID: >=2000 < 20,000 MWh per annum	12.93	12.93	14.37								
	Band IE: >=20,000 < 70,000 MWh per annum	10.90	10.90	12.11								
	Band IF: >=70,000 < 150,000 MWh per annum	10.05	10.05	11.17								
	Night rate	7.88	7.88	8.76								
Wood	Fuel Chips	3.97		4.41	4.97	5.67	6.62	7.94	9.93			
	Pellets bulk delivery	5.69		6.32	7.11	8.13	9.48	11.38	14.22			
	Pellets bagged	6.71		7.46	8.39	9.59	11.19	13.43	16.78	22.38	33.57	

	Electricity used for Heat pumps ¹³	Delivered Energy Cost ¹¹ (c/kWh)	Seasonal Performance Factor (SPF) ¹⁴ for heat pumps								Typical SPF's for Heat Pump Types ¹⁵	
				2.5	3	3.5	4	4.5	5	5.5		
Electricity	Band IA: <20MWh per annum	23.81		9.53	7.94	6.80	5.95	5.29	4.76	4.33	3.97	Ground source (horizontal) 2.7 - 4.5 Ground source (vertical) 2.7 - 4.5 Air/Air 2.5 - 4.2 Air/Water 2.5 - 4.0 Water/Water 3.0 - 5.6 Exhaust Air 2.5 - 4.2
	Band IB: >=20 < 500 MWh per annum	18.60		7.44	6.20	5.31	4.65	4.13	3.72	3.38	3.10	
	Band IC: >=500 < 2000 MWh per annum	16.01		6.40	5.34	4.57	4.00	3.56	3.20	2.91	2.67	
	Band ID: >=2000 < 20,000 MWh per annum	12.93		5.17	4.31	3.70	3.23	2.87	2.59	2.35	2.16	
	Band IE: >=20,000 < 70,000 MWh per annum	10.90		4.36	3.63	3.11	2.73	2.42	2.18	1.98	1.82	
	Band IF: >=70,000 < 150,000 MWh per annum	10.05										
	Night rate	7.88		3.15	2.63	2.25	1.97	1.75	1.58	1.43	1.31	