

Commercial / Industrial Fuels Comparison of Energy Costs

01-Oct-05

Notes

- 1 Ex-works price.
Add delivery costs as appropriate.
Actual prices also depend on quality purchased.
- 2 Prices used are an average of wholesale schedule 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.
- 3 Prices are available on request from suppliers for L.P.G. quantities over three tonnes.
- 4 Standing charges for electricity and natural gas are not included. These must be included in all total cost calculations.
Gas Meter charge = €8.04 per month (ex VAT)
Supply charge for 0-6000 kWh Gas tariff = €20.13 (ex VAT)
- 5 M.D.=1,000kW
L.F.=80%,
Day/Night units 60/40
P.F.=0.95
(mean Summer/Winter M.D. charge rate)
Assumed annual consumption 4,000,000 kWh
- 6 M.D.=500kW
L.F.=30%,
Day/Night units 75/25
P.F.=0.95.
Assumed annual consumption 2000,000 kWh
- 7 These prices represent the Standard Commercial/Industrial tariff. Other tariffs are available, on request for increased consumption. Tariffs are two monthly
- 8 All prices include 13.5% V.A.T.

Fuel	Form	Unit of Supply	Average ⁸ Price per	Gross Calorific	Delivered Energy Cost	Percentage change since	Percentage change since
Coal ¹	<i>Industrial Fines</i>	Tonne	68.59	7759.2	0.88	+19.8%	+19.8%
Oil ²	<i>Gas Oil</i>	Litre	0.735	10.55	6.97	+11.3%	+34.9%
	<i>Light Fuel Oil</i>	Litre	0.624	11.21	5.56	+11.7%	+45.1%
	<i>Medium Fuel Oil</i>	Litre	0.579	11.32	5.11	+11.9%	+46.2%
	<i>Heavy Fuel Oil</i>	Litre	0.547	11.45	4.78	+12.1%	+47.1%
L.P.G.	<i>Commercial Cylinders</i>	Kg	1.397	7.09	19.70	+10.1%	0
	<i>Bulk L.P.G. (0-3 tonnes)³</i>	Litre	0.521	7.09	7.35	+14.3%	+10.6%
	<i>Bulk L.P.G. (3.1-40 tonnes)</i>	Litre	0.467	7.09	6.59	+16.2%	+11.9%
Natural Gas ^{4,7}	<i>0 - 6,000 kWh</i>	kWh	0.0507	1.0	5.07	+25.3%	+25.3%
	<i>6,001 - 15,000 kWh</i>	kWh	0.0468	1.0	4.68	+25.2%	+25.2%
	<i>15,001 - 30,000 kWh</i>	kWh	0.0428	1.0	4.28	+25.0%	+25.0%
	<i>30,001+ kWh</i>	kWh	0.0390	1.0	3.90	+25.5%	+25.5%
Electricity	<i>Unrestricted Space Heating⁴</i>	kWh	0.1611	1.0	16.11	0	-0.0%
	<i>Night Space Heating⁴</i>	kWh	0.0615	1.0	6.15	0	+0.2%
	<i>Industrial Maximum Demand⁵</i>	kWh	0.1048	1.0	10.48	-0.0%	+2.3%
	<i>H.T. (10kV) 1,000kW Load</i>	kWh	0.1313	1.0	13.13	0	+3.4%
	<i>Industrial Maximum Demand⁶</i>	kWh	0.1313	1.0	13.13	0	+3.4%
Wood (*See note)	<i>Fuel Chips</i>	kg wet	0.03	3.7	0.81	0	n/a
	<i>Pellets</i>	kg	0.20	4.8	4.17	0	n/a

Special Notes: Wood Prices from Jan '05. Peat Briekens no longer included/sold.

Commercial / Industrial Fuels
Comparison of Useful Energy Costs for Space Heating

01-Oct-05

Notes

9 Standing charges for electricity and natural gas are not included. These must be included in all total cost calculations.

10 Efficiencies quoted are seasonal efficiencies, where
Seasonal Efficiency =
Conversion Efficiency x
Utilisation Efficiency

11 Delivered energy costs quoted are for the conditions stated overleaf.

Fuel	Form	Delivered Cost ¹¹ (c/kWh)	Efficiency Ratings									Heating Types & Efficiencies
			90%	80%	70%	60%	50%	40%	30%	20%	10%	
Coal	Industrial Fines	0.88	0.98	1.10	1.26	1.47	1.77	2.21	2.95	4.42	8.84	Solid Fuel Boiler 65% - 75%
Oil	Gas Oil	6.97	7.74	8.71	9.95	11.61	13.93	17.42	23.22	34.83	69.66	Gas or Oil Fired Boiler or Air Heater 65% - 75%
	Light Fuel Oil	5.56	6.18	6.96	7.95	9.27	11.13	13.91	18.55	27.82	55.65	
	Medium Fuel Oil	5.11	5.68	6.39	7.31	8.52	10.23	12.79	17.05	25.57	51.15	
	Heavy Fuel Oil	4.78	5.31	5.97	6.82	7.96	9.55	11.94	15.92	23.88	47.76	
L.P.G.	Commercial Cylinders	19.70	21.89	24.62	28.14	32.83	39.39	49.24	65.66	98.49	196.97	Electric Heater 100%
	Bulk L.P.G. (0-3 tonnes)	7.35	8.17	9.19	10.50	12.25	14.70	18.37	24.50	36.75	73.49	
	Bulk L.P.G. (3.1-40 tonnes)	6.59	7.33	8.24	9.42	10.99	13.19	16.48	21.98	32.97	65.93	
Natural Gas ⁹	0 - 6,000 kWh	5.07	5.63	6.33	7.24	8.44	10.13	12.67	16.89	25.33	50.67	Direct Gas Fired Heater 90%
	6,001 - 15,000 kWh	4.68	5.20	5.85	6.68	7.79	9.35	11.69	15.59	23.38	46.76	
	15,001 - 30,000 kWh	4.28	4.75	5.35	6.11	7.13	8.56	10.70	14.26	21.39	42.79	
	30,001+ kWh	3.90	4.34	4.88	5.58	6.51	7.81	9.76	13.01	19.52	39.04	
Electricity	Unrestricted Space Heating ⁹	16.11	17.90	20.13	23.01	26.84	32.21	40.26	53.69	80.53	161.06	Wood Boiler 80%
	Night Space Heating ⁹	6.15	6.84	7.69	8.79	10.25	12.30	15.38	20.51	30.76	61.52	
	Industrial Maximum Demand H.T. (10kV) 1,000kW Load	10.48	11.64	13.10	14.97	17.46	20.95	26.19	34.92	52.38	104.76	
	Industrial Maximum Demand L.T. 500kW Load	13.13	14.59	16.41	18.76	21.89	26.26	32.83	43.77	65.66	131.32	
Wood	Fuel Chips	0.81	0.90	1.01	1.16	1.35	1.62	2.03	2.70	4.05	8.11	
	Pellets	4.17	4.63	5.21	5.95	6.94	8.33	10.42	13.89	20.83	41.67	

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