

## **Domestic Fuels** Comparison of Energy Costs

Percentage

Change since

1 July, 2016

-

-

+0.2%

-1.8%

-

-1.2%

+2.9%

+2.9%

+2.9% +3.3%

+9.7%

+3.7%

+4.5%

+4.5%

+13.7%

+4.0% -1.6%

+8.3%

+5.2%

+0.8% +0.0% -3.7%

-1.0% -0.7%

-0.3%

-

OF IRELAND	Compans	on of Energy Costs					
Notes: 1. All prices are inclusive of 13.5% VAT.			Unit of	Average	Gross	Delivered	Percentage
<ol> <li>Estimated average price to consumers countrywide.</li> </ol>	Fuel	Form	Supply	Price per	Calorific	Energy Cost	change since
3. Prices include delivery for bulk purchase				Unit (€) <sup>1</sup>	Value	cent/kWh	1 April, 2017
<ol> <li>Prices include those from a selection of suppliers that publish their prices online.</li> </ol>					(kWh/unit)		
5. Oil prices assuming 1000L delivered.	Peat <sup>2</sup>	Briquettes, Baled	Bale	4.75	67.0	7.09	-
6. Prices represent scheduled prices, exclusive of any discounts that may							
be available.	Coal <sup>3</sup>	Nuggets (Lignite)	Tonne	399.00	5763.5	6.92	-
7. Prices include those from a selection of suppliers that publish their		Premium Coal, bulk	Tonne	442.00	8267.2	5.35	-
prices online. Prices vary depending on delivery location.		Premium Coal, bag <sup>4</sup>	40 kg Bag	18.33	330.7	5.54	-
8. Price per unit does not include standing charge.		Standard Coal, bulk	Tonne	422.00	7900.0	5.34	-
9. Gas prices are VAT Incl prices from the EU Price Directive Survey		Standard Coal, bag <sup>4</sup>	40 kg Bag	17.47	316.0	5.53	-
& represent prices for 01/07/2016 to 31/12/2016. (Prices updated every 6 mths)		Standard Anthracite	Tonne	509.00	8735.2	5.83	-
For methodology and more details please see the following :		Grade A Anthracite	Tonne	549.00	8960.0	6.13	-
http://www.seai.ie/Publications/Statistics_Publications/		Ovoids (Low Smoke), bulk	Tonne	484.00	8850.0	5.47	-
Electricity_and_Gas_Prices/		Ovoids (Low Smoke), bag <sup>4</sup>	40 kg Bag	20.75	354.0	5.86	+0%
10. Electricity prices are VAT Incl prices from the EU Price Directive Survey,							
& represent prices for 01/07/2016 to 31/12/2016.	Oil⁵	Gas Oil (schedule) <sup>6</sup>	Litre	0.75	10.55	7.09	-5.4%
(Prices updated every 6 mths)		Gas Oil (typical discounted price)7	Litre	0.63	10.55	5.93	-0.1%
For methodology and more details please see the following report :		Kerosene (schedule) <sup>6</sup>	Litre	0.72	10.18	7.06	-5.4%
http://www.seai.ie/Publications/Statistics_Publications/		Kerosene (typical discounted price) <sup>7</sup>	Litre	0.58	10.18	5.71	-2.1%
Electricity_and_Gas_Prices/							
11. From 1/10/16 the Public Service Obligation (PSO) levy was increased	L.P.G.	Bulk L.P.G. <sup>8</sup>	Litre	0.71	7.09	9.95	-
from €5.01 to €5.90 per customer per month. See www.cer.ie for details		Bottled Butane	11.35 kg Cylinder	30.23	155.7	19.41	-
12. To avail of lower night rate electricity a second meter is required.		Bottled Propane	34 kg Cylinder	81.23	471.0	17.25	-
The rate quoted is estimated for unit consumption costs only.		Bottled Propane	47 kg Cylinder	112.98	651.0	17.35	-
Actual costs may be higher due to higher standing charges for							
night rate electricity.	Natural Gas <sup>9</sup>	Band D1: <5,556 kWh per annum	kWh	0.083	1.0	8.29	-
13. Wood fuel prices may vary from the average, given the		Band D2: >=5,556 <55,556 kWh per annum	kWh	0.068	1.0	6.78	-
fragmented supplier network at present.		Band D3: >=55,556 kWh per annum	kWh	0.060	1.0	5.99	-
14. Firewood prices provided by certified members of the Wood Fuel							
Quality Assurance Scheme. See http://www.wfqa.org/	Electricity 10, 11	Band DA: <1,000 kWh per annum	kWh	0.44	1.0	44.33	-
15. Minimum delivery conditions may apply. Discounts may		Band DB: >=1,000 <2,500 kWh per annum	kWh	0.30	1.0	29.79	-
apply for larger quantities.		Band DC: >=2,500 <5,000 kWh per annum	kWh	0.23	1.0	23.38	-
		Band DD: >=5,000 <15,000 kWh per annum	kWh	0.20	1.0	19.92	-
		Band DE: >=15,000 kWh per annum	kWh	0.17	1.0	16.59	-
		Night rate <sup>12</sup>	kWh	0.09	1.0	9.13	
	Wood <sup>13, 14</sup>	Pellets Bulk Delivery 15	kg	0.29	4.8	5.97	-1.0%
		Pellets Bagged	kg	0.36	4.8	7.40	-0.4%
DISCLAIMER: While every effort has been made to ensure the accuracy of		Briquettes	kg	0.38	4.8	7.82	-0.3%
these statistical publications and/or reports, they are subject to		Hardwood, Small Bag, 20% moisture, Collected	kg	0.50	4.16	12.10	-
revisions and changes from time to time. The Sustainable Energy		Softwood, Small Bag, 25% moisture, Collected	kg	0.34	3.86	8.75	-
Authority of Ireland is not liable for losses suffered, whether direct or		Hardwood, Full Pallet, 20% moisture, Delivered	kg	0.41	4.16	9.79	-
consequential, arising out of any reliance on these data. It is		Softwood, Full Pallet, 25% moisture, Delivered	kg	0.29	3.86	7.62	-
			· · ·				

Softwood, Bulk (loose), 25% moisture, Delivered

## DISCLAIMER:

While every effort has been m these statistical publications a revisions and changes from tir Authority of Ireland is not liable consequential, arising out of a 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.

Special Notes:

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.

0.20

3.86

5.11

kg



## **Domestic Fuels** Comparison of Useful Energy Costs for Space Heating

Notes:	Fuel <sup>16</sup>	Form	Delivered Energy Cost <sup>17</sup>	gy Cost <sup>17</sup> Seasonal Efficiency Ratings <sup>18</sup>					Typical Seasonal Efficiencies <sup>26</sup>				
6. Use manufacturers recommended fuel for each appliance.			(c/kWh)	100%	90%	80%	70%	60%	50%	40%	30%	20%	
7. Delivered energy costs quoted are for the	Peat	Briquettes, Baled	7.09					11.82	14.18	17.72	23.63	35.45	Open Fire, Solid fuel or Gas DFE 22
conditions stated overleaf.													All 20-30%
8. Efficiencies quoted are bands of typical seasonal heating efficiencies.	Coal	Nuggets (Lignite)	6.92			8.65	9.89	11.54	13.85	17.31	23.08	34.61	
9. Higher efficiency indicated (50-80%) applies to		Premium Coal, bulk	5.35			6.68	7.64	8.91	10.69	13.37	17.82	26.73	Open Fire - Designed to Maximise Heating <sup>23</sup>
hese fuels when used in stoves / closed room heaters		Premium Coal, bag	5.54			6.93	7.92	9.24	11.09	13.86	18.48	27.71	Coal up to 32%
20. Higher efficiency indicated (60-70%) applies to		Standard Coal, bulk	5.34			6.68	7.63	8.90	10.68	13.35	17.81	26.71	Ovoids (Low Smoke) up to 37%
hese fuels.		Standard Coal, bag	5.53			6.91	7.90	9.22	11.06	13.82	18.43	27.65	
21. These specific fuel rates incur standing charges		Standard Anthracite 19	5.83			7.28	8.32	9.71	11.65	14.57	19.42	29.13	Open Fire with High Output Back Boiler
which must be included in all total cost calculations.		Grade A Anthracite 19	6.13			7.66	8.75	10.21	12.25	15.32	20.42	30.64	All 40-50%
22. DFE: Decorative fuel effect appliance in an open		Ovoids (Low Smoke), bulk <sup>19</sup>	5.47			6.84	7.81	9.11	10.94	13.67	18.23	27.34	
ire setting.		Ovoids (Low Smoke), bag 19	5.86			7.33	8.37	9.77	11.72	14.65	19.54	29.31	Stove / Closed Room Heater (without Back Boiler)
23. Appliances specifically designed as heating (rather than ambient													Peat 45-55%
	Oil	Gas Oil (schedule)	7.09		7.88	8.87	10.14	11.82	14.19				Coal 50-80%
chamber, with front fret and ashpit cover that provide a controllable	-	Gas Oil (typical discounted price)	5.93		6.58	7.41	8.47	9.88	11.85				Gas 60-75%
air supply.		Kerosene (schedule) <sup>20</sup>	7.06		7.85	8.83	10.09	11.77	14.12				
24. Adequate ventilation is required for flueless gas heaters.		Kerosene (typical discounted price) <sup>20</sup>	5.71		6.35	7.14	8.16	9.52	11.43				Stove / Closed Room Heater (with Back Boiler)
25. Dwellings with electrically driven heat pumps are most likely to be		·····											All 65-85%
n electricity consumption bands DD and DE. If a night rate	L.P.G.	Bulk L.P.G. <sup>21</sup>	9.95		11.05	12.43	14.21	16.58	19.89				7.44 00 00 /0
electricity meter is also installed and if the heat pump is run		Bottled Butane	19.41		21.57	24.27	27.73	32.35	38.82				Oil Fired Boiler
during the night, a unit cost of approximately half that specified		Bottled Propane 34kg	17.25		19.16	21.56	24.64	28.74	34.49				Gas Oil 55-75%
can be assumed in the calculations.		Bottled Propane 47kg	17.35		19.28	21.69	24.79	28.92	34.71				Kerosene 60-75%
26. Seasonal Performance Factor is defined as the ratio of heat		bould i topulle 47kg	11.00		10.20	21.00	24.75	20.02	04.11				
putput from the heat pump and the electricity supplied to the	Natural Gas	Band D1: <5,556 kWh per annum	8.29		9.22	10.37	11.85	13.82	16.59	20.74	27.65	41.47	Gas Fired Boiler
heat pump over the heating season. SPFs quoted assume heat	Natural Gas	Band D2: >=5,556 <55,556 kWh per annum	6.78		7.53	8.48	9.69	11.30	13.56	16.95	22.60	33.90	All 55-75%
pumps are used in conjunction with low temperature systems such		Band D3: >=55,556 kWh per annum	5.99		6.66	7.49	8.56	9.98	11.98	14.98	19.97	29.95	741 00 1070
as underfloor heating.		band bo. >=00,000 kwn per annum	5.55		0.00	1.43	0.50	3.30	11.30	14.30	13.37	23.35	Wood Product or Biomass Boiler
7. The Home-heating Appliance Register of Performance	Electricity	Band DA: <1,000 kWh per annum	44.33	44.33	49.25								All 55-87%
HARP) database contains exact performance specifications of	Electricity	Band DB: >=1,000 <2,500 kWh per annum	29.79	29.79	49.25 33.09								All 55-6776
he proposed/installed heating appliance. www.seai.ie/harp		Band DC: >=2,500 <2,500 kWh per annum	23.38	23.38	25.98								Flueless Gas <sup>24</sup>
ne proposed/installed heating appliance, www.seatile/harp		Band DD: >=2,500 <5,000 kWh per annum	19.92	19.92	22.13								All 90%
		Band DD: >=5,000 < 15,000 kWh per annum	16.59	16.59	18.43								All 90%
		Band DE. >=15,000 kwin per annum	10.59	10.59	10.43								Condensing Boiler
		Night rate	9.13	9.13	10.14								Condensing Boiler 85-97%
		Night fale	9.15	9.15	10.14								83-97%
	Wood	Pellets Bulk Delivery	5.97		6.63	7.46	8.53	9.95	11.94	14.92			Electric Storage Heater
		Pellets Bagged	7.40		8.22	9.25	10.57	12.33	14.80	14.52			All 90%
		Briquettes	7.82		8.69	9.77	11.17	13.03	15.64	19.54	26.06	39.09	All 3078
					0.00	0					20.00	50.00	Electric (Electric Fire, Panel Heater)
		Hardwood, Small Bag, 20% moisture, Collected	12.10			n/a	n/a	n/a	n/a	n/a	n/a	n/a	All 100%
		Softwood, Small Bag, 25% moisture, Collected	8.75			10.94	12.50	14.59	17.51		29.18	43.76	,
		Hardwood, Small Bag, 25% moisture, Collected Hardwood, Full Pallet, 20% moisture, Delivered	8.75 9.79			10.94	12.50	14.59	17.51	21.88 24.48	29.18 32.64	43.76 48.96	
		Softwood, Full Pallet, 25% moisture, Delivered	7.62			9.53	10.89	10.32	19.56	24.40 19.05	32.64 25.41	48.90 38.11	
		Controod, i di i dilet, 2070 molature, Dellvereu											
		Softwood, Bulk (loose), 25% moisture, Delivered	5.11			6.39	7.30	8.52	10.22	12.78	17.04	25.55	

	Electricity used for Heat pumps <sup>25</sup> Delivered Energy Cost		Seasonal Performance Factor (SPF) <sup>26</sup> for heat pumps									Typical SPFs for Heat Pump Types <sup>27</sup>	
		(c/kWh)		2.5	3	3.5	4	4.5	5	5.5	6		
	Band DA: <1,000 kWh per annum	44.33		17.73	14.78	12.66	11.08	9.85	8.87	8.06	7.39	Ground source (horizontal)	2.7 - 4.5
Electricity	Band DB: >=1,000 <2,500 kWh per annum	29.79		11.91	9.93	8.51	7.45	6.62	5.96	5.42	4.96	Ground source (vertical)	2.7 - 4.5
	Band DC: >=2,500 <5000 kWh per annum	23.38		9.35	7.79	6.68	5.85	5.20	4.68	4.25	3.90	Air/Air	2.5 - 4.2
	Band DD: >=5,000 <15,000 kWh per annum	19.92		7.97	6.64	5.69	4.98	4.43	3.98	3.62	3.32	Air/Water	2.5 - 4.0
	Band DE: >=15,000 kWh per annum	16.59		6.64	5.53	4.74	4.15	3.69	3.32	3.02	2.76	Water/Water	3.0 - 5.6
												Exhaust Air	2.5 - 4.2
	Night rate	9.13		3.65	3.04	2.61	2.28	2.03	1.83	1.66	1.52		

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