

Domestic Fuels Comparison of Energy Costs - Quarterly

01-Oct-24

Notes:

- All prices are inclusive of VAT (9% for Electricity and Gas, 13.5% for all other)
- Production ceased in May 2023.
- Bulk purchase prices no longer available.
- Prices include those from a selection of suppliers that publish their prices online.
- Oil prices assuming 1000L delivered.
- Prices represent scheduled prices, exclusive of any discounts that may be available.
- Prices include those from a selection of suppliers that publish their prices online. Prices vary depending on delivery location.
- Price per unit does not include standing charge.
- Wood fuel prices may vary from the average, given the fragmented supplier network at present.
- Firewood prices include those from a selection of suppliers that publish their prices online.
- Minimum delivery conditions may apply. Discounts may apply for larger quantities.
- Gas prices are VAT Incl prices from the EU Price Regulation Survey & represent prices for 01/01/2024 to 30/06/2024 (Prices updated every 6 mths) For methodology and more details please see the following report: <https://www.seai.ie/data-and-insights/seai-statistics/key-publications/>
- Electricity prices are VAT Incl prices from the EU Price Regulation Survey, & represent prices for 01/01/2024 to 30/06/2024 (Prices updated every 6 mths) For methodology and more details please see the following report: <https://www.seai.ie/data-and-insights/seai-statistics/key-publications/>
- From 01/10/24 the Public Service Obligation (PSO) levy is €3.23. See CRU.ie for more details.
- 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.

- Electricity for Semester 1 2024 includes 2 x €150 Rebates per household as per the Government Electricity Costs Emergency Benefit Scheme.

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 July, 2024	Percentage Change since 1 October, 2023
Peat ²	Briquettes, Baled	Bale	n/a	67.0	n/a	-	-
Coal ³	Ovoids (Low Smoke), bag ⁴	40 kg Bag	33.05	354.0	9.33	+0.1%	-5.2%
Oil ⁵	Gas Oil (schedule) ⁶	Litre	1.15	10.55	10.86	-10.4%	-19.5%
	Gas Oil (typical discounted price) ⁷	Litre	0.99	10.55	9.42	-8.3%	-19.2%
	Kerosene (schedule) ⁶	Litre	1.10	10.18	10.82	-12.3%	-21.2%
	Kerosene (typical discounted price) ⁷	Litre	0.91	10.18	8.94	-11.1%	-23.0%
L.P.G.	Bulk L.P.G. ⁸	Litre	1.11	7.09	15.72	-0.5%	+1.5%
	Bottled Butane	11.35 kg Cylinder	30.92	155.7	19.86	-2.1%	-0.6%
	Bottled Propane	34 kg Cylinder	94.75	471.0	20.12	-1.7%	+0.1%
	Bottled Propane	47 kg Cylinder	127.90	651.0	19.65	-2.9%	+1.1%
Wood ^{9, 10}	Pellets Bulk Delivery ¹¹	kg	0.47	4.8	9.90	-1.6%	-9.5%
	Pellets Bagged	kg	0.52	4.8	10.84	-2.2%	-10.8%
	Briquettes	kg	0.82	4.8	17.08	-4.1%	-10.4%
	Hardwood, Small Bag, 20% moisture, Collected	kg	0.67	4.16	16.08	+5.8%	+10.5%
	Softwood, Small Bag, 25% moisture, Collected	kg	0.64	3.86	16.65	-	+1.9%
	Hardwood, Full Pallet, 20% moisture, Delivered	kg	0.60	4.16	14.47	+6.3%	+2.3%
	Softwood, Full Pallet, 25% moisture, Delivered	kg	0.42	3.86	10.85	-	-2.0%
	Softwood, Bulk (loose), 25% moisture, Delivered	kg	0.34	3.86	8.92	+6.5%	+35.1%

Comparison of Energy Costs - Biannually (see notes 12 & 13 and special note for electricity rebate)

Natural Gas ¹²	Band D1: <5,556 kWh per annum	kWh	0.143	1.0	14.26	-	-23.1%
	Band D2: >=5,556 <55,556 kWh per annum	kWh	0.127	1.0	12.71	-	-22.4%
	Band D3: >=55,556 kWh per annum	kWh	0.097	1.0	9.71	-	-15.8%
Electricity ^{13, 14, 16}	Band DA: <1,000 kWh per annum	kWh	0.30	1.0	29.79	-	-22.8%
	Band DB: >=1,000 <2,500 kWh per annum	kWh	0.44	1.0	43.80	-	+19.9%
	Band DC: >=2,500 <5,000 kWh per annum	kWh	0.37	1.0	37.36	-	-1.5%
	Band DD: >=5,000 <15,000 kWh per annum	kWh	0.33	1.0	33.18	-	-11.7%
	Band DE: >=15,000 kWh per annum	kWh	0.30	1.0	30.48	-	-14.0%
	Night rate ¹⁵	kWh	0.16	1.0	15.91	-	-

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.

Electricity prices represent prices for 01/01/2024 to 30/06/2024 and include the 2 x €150 Rebate per household which was credited in January and March 2024 as per the Government Electricity Costs Emergency Benefit Scheme. Quarterly and annual % changes are calculated using current available data i.e. S1 2024 and S1 2023, respectively.

Coal : Following the introduction of the "Solid Fuel Regulations for Ireland" on 31 October 2022 (Statutory Instrument SI-529, 2022) certain coal products will no longer be included. Historic data on these legacy coal products will remain available on the SEAI website, via the historic timeseries data-file.

Domestic Fuels Comparison of Useful Energy Costs for Space Heating

Notes:

- 16. Use manufacturers recommended fuel for each appliance.
- 17. Delivered energy costs quoted are for the conditions stated overleaf.
- 18. Efficiencies quoted are bands of typical seasonal heating efficiencies.
- 19. Higher efficiency indicated (50-80%) applies to these fuels when used in stoves / closed room heaters
- 20. Higher efficiency indicated (60-70%) applies to these fuels.
- 21. These specific fuel rates incur standing charges which must be included in all total cost calculations.
- 22. DFE: Decorative fuel effect appliance in an open fire setting.
- 23. Appliances specifically designed as heating (rather than ambient or decorative) i.e. typically with manufactured firebox and convection chamber, with front fret and ashpit cover that provide a controllable air supply.
- 24. Adequate ventilation is required for fuelless gas heaters.
- 25. The majority of residential dwellings that operate a heat-pump for space and water-heating are in the DD-band.
The Energy Cost and Seasonal Performance values for other bands are included for reference only.
- 26. 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.
- 27. The Home-heating Appliance Register of Performance (HARP) database contains exact performance specifications of the proposed/installed heating appliance. www.seai.ie/harp

Fuel ¹⁶	Form	Delivered Energy Cost ¹⁷ (c/kWh)	Seasonal Efficiency Ratings ¹⁸								Typical Seasonal Efficiencies ²⁶		
			100%	90%	80%	70%	60%	50%	40%	30%		20%	
Peat	Briquettes, Baled	n/a											Open Fire, Solid fuel or Gas DFE ²² All 20-30% Open Fire - Designed to Maximise Heating²³ Coal up to 32% Ovoids (Low Smoke) up to 37% Open Fire with High Output Back Boiler All 40-50% Stove / Closed Room Heater (without Back Boiler) Peat 45-55% Coal 50-60% Gas 60-75% Stove / Closed Room Heater (with Back Boiler) All 65-85% Oil Fired Boiler Gas Oil 55-75% Kerosene 60-75% Gas Fired Boiler All 55-75% Wood Product or Biomass Boiler All 55-87% Flueless Gas²⁴ All 90% Condensing Boiler 85-97% Electric Storage Heater All 90% Electric (Electric Fire, Panel Heater) All 100%
Coal	Ovoids (Low Smoke), bag ¹⁹	9.33											
Oil	Gas Oil (schedule)	10.86	12.07	13.58	15.52	18.11	21.73						
	Gas Oil (typical discounted price)	9.42	10.47	11.78	13.46	15.70	18.84						
	Kerosene (schedule) ²⁰	10.82	12.03	13.53	15.46	18.04	21.65						
	Kerosene (typical discounted price) ²⁰	8.94	9.93	11.17	12.77	14.90	17.88						
L.P.G.	Bulk L.P.G. ²¹	15.72	17.47	19.65	22.46	26.20	31.44						
	Bottled Butane	19.86	22.06	24.82	28.37	33.10	39.72						
	Bottled Propane 34kg	20.12	22.35	25.15	28.74	33.53	40.23						
	Bottled Propane 47kg	19.65	21.83	24.56	28.07	32.74	39.29						
Wood	Pellets Bulk Delivery	9.90	11.00	12.37	14.14	16.49	19.79	24.74					
	Pellets Bagged	10.84	12.05	13.55	15.49	18.07	21.69	27.11					
	Briquettes	17.08	18.98	21.35	24.40	28.47	34.17	42.71	56.94	85.42			
	Hardwood, Small Bag, 20% moisture, Collected	16.08		n/a	n/a	n/a	n/a	n/a	n/a	n/a			
	Softwood, Small Bag, 25% moisture, Collected	16.65		20.82	23.79	27.76	33.31	41.64	55.51	83.27			
	Hardwood, Full Pallet, 20% moisture, Delivered	14.47		18.09	20.67	24.12	28.94	36.17	48.23	72.35			
	Softwood, Full Pallet, 25% moisture, Delivered	10.85		13.57	15.50	18.09	21.71	27.13	36.18	54.26			
Softwood, Bulk (loose), 25% moisture, Delivered	8.92		11.15	12.74	14.86	17.84	22.30	29.73	44.59				
Natural Gas	Band D1: <5,556 kWh per annum	14.26	15.84	17.82	20.37	23.77	28.52	35.65	47.53	71.30			
	Band D2: >=5,556 <55,556 kWh per annum	12.71	14.13	15.89	18.16	21.19	25.43	31.78	42.38	63.56			
	Band D3: >=55,556 kWh per annum	9.71	10.78	12.13	13.87	16.18	19.41	24.26	32.35	48.53			
Electricity	Band DA: <1,000 kWh per annum	29.79	29.79	33.10									
	Band DB: >=1,000 <2,500 kWh per annum	43.80	43.80	48.67									
	Band DC: >=2,500 <5,000 kWh per annum	37.36	37.36	41.51									
	Band DD: >=5,000 <15,000 kWh per annum	33.18	33.18	36.86									
	Band DE: >=15,000 kWh per annum	30.48	30.48	33.87									
	Night rate	15.91	15.91	17.68									

Electricity	Electricity used for Heat pumps ²⁵	Delivered Energy Cost ¹⁷ (c/kWh)	Seasonal Performance Factor (SPF) ²⁶ for heat pumps							Typical SPFs for Heat Pump Types ²⁷	
			2.5	3	3.5	4	4.5	5	5.5		6
Electricity	Band DA: <1,000 kWh per annum	29.79	11.92	9.93	8.51	7.45	6.62	5.96	5.42	4.97	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 DB: >=1,000 <2,500 kWh per annum	43.80	17.52	14.60	12.51	10.95	9.73	8.76	7.96	7.30	
	Band DC: >=2,500 <5,000 kWh per annum	37.36	14.95	12.45	10.68	9.34	8.30	7.47	6.79	6.23	
	Band DD: >=5,000 <15,000 kWh per annum	33.18	13.27	11.06	9.48	8.29	7.37	6.64	6.03	5.53	
	The majority of residential dwellings operating a heat-pump are in the DD-band.										
	Band DE: >=15,000 kWh per annum	30.48	12.19	10.16	8.71	7.62	6.77	6.10	5.54	5.08	
	Night rate	15.91	6.37	5.30	4.55	3.98	3.54	3.18	2.89	2.65	