

Domestic Fuels Comparison of Energy Costs - Quarterly

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 01/07/2022 to 31/12/2022 (Prices updated every 6 mths) For methodology and more details please see the following : <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 01/07/2022 to 31/12/2022 (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 01/10/22 the Public Service Obligation (PSO) levy decreased from €4.30 to €-7.43 per customer per month. See www.cru.ie for 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 2 2022 Incudes €200 Rebate 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 April, 2023	Percentage Change since 1 July, 2022
Peat ²	Briquettes, Baled	Bale	n/a	67.0	n/a	-	-
Coal ³	Ovoids (Low Smoke), bag ⁴	40 kg Bag	37.01	354.0	10.46	-0.2%	+18.9%
Oil ⁵	Gas Oil (schedule) ⁶	Litre	1.12	10.55	10.64	-2.1%	-31.7%
	Gas Oil (typical discounted price) ⁷	Litre	0.97	10.55	9.20	-4.2%	-35.6%
	Kerosene (schedule) ⁶	Litre	1.13	10.18	11.05	-1.0%	-28.7%
	Kerosene (typical discounted price) ⁷	Litre	0.91	10.18	8.98	-5.8%	-37.0%
L.P.G.	Bulk L.P.G. ⁸	Litre	1.07	7.09	15.04	-2.9%	+0.2%
	Bottled Butane	11.35 kg Cylinder	31.24	155.7	20.07	-10.0%	-10.0%
	Bottled Propane	34 kg Cylinder	97.24	471.0	20.65	-15.0%	-15.0%
	Bottled Propane	47 kg Cylinder	137.98	651.0	21.19	-12.5%	-12.5%
Wood ^{9,10}	Pellets Bulk Delivery ¹¹	kg	0.54	4.8	11.25	-0.9%	+24.0%
	Pellets Bagged	kg	0.60	4.8	12.59	-0.5%	+32.2%
	Briquettes	kg	0.97	4.8	20.10	-5.6%	+20.1%
	Hardwood, Small Bag, 20% moisture, Collected	kg	0.59	4.16	14.25	-4.3%	+5.5%
	Softwood, Small Bag, 25% moisture, Collected	kg	0.65	3.86	16.72	+9.4%	+41.9%
	Hardwood, Full Pallet, 20% moisture, Delivered	kg	0.56	4.16	13.55	+12.7%	+28.7%
	Softwood, Full Pallet, 25% moisture, Delivered	kg	0.42	3.86	10.94	+1.5%	+26.9%
	Softwood, Bulk (loose), 25% moisture, Delivered	kg	0.25	3.86	6.60	-17.0%	+11.4%

Comparison of Energy Costs - Biannually (see notes 12 & 13)

Natural Gas ¹²	Band D1: <5,556 kWh per annum	kWh	0.182	1.0	18.24	-	+91.5%
	Band D2: >=5,556 <55,556 kWh per annum	kWh	0.154	1.0	15.44	-	+82.3%
	Band D3: >=55,556 kWh per annum	kWh	0.115	1.0	11.55	-	+46.2%
Electricity ^{13,14,16}	Band DA: <1,000 kWh per annum	kWh	0.30	1.0	30.34	-	+34.9%
	Band DB: >=1,000 <2,500 kWh per annum	kWh	0.33	1.0	32.72	-	+47.4%
	Band DC: >=2,500 <5,000 kWh per annum	kWh	0.32	1.0	32.25	-	+38.7%
	Band DD: >=5,000 <15,000 kWh per annum	kWh	0.32	1.0	31.61	-	+38.2%
	Band DE: >=15,000 kWh per annum	kWh	0.29	1.0	28.84	-	+32.8%
	Night rate ¹⁵	kWh	0.15	1.0	15.11	-	-

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 01/07/2022 to 31/12/2022 and include the €200 Rebate per household which was credited between November and December 2022

as per the Government Electricity Costs Emergency Benefit Scheme.

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 flueless 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 ²⁰			
			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%
Coal	Ovoids (Low Smoke), bag ¹⁹	10.46												Open Fire - Designed to Maximise Heating ²³ Coal up to 32% Ovoids (Low Smoke) up to 37%
Oil	Gas Oil (schedule) Gas Oil (typical discounted price) Kerosene (schedule) ²⁰ Kerosene (typical discounted price) ²⁰	10.64 9.20 11.05 8.98	11.82 10.22 12.28 9.98	13.30 11.50 13.82 11.22	15.20 13.15 15.79 12.83	17.73 15.34 18.42 14.97	21.28 18.40 22.11 17.96							Open Fire with High Output Back Boiler All 40-50%
L.P.G.	Bulk L.P.G. ²¹ Bottled Butane Bottled Propane 34kg Bottled Propane 47kg	15.04 20.07 20.65 21.19	16.71 22.30 22.94 23.55	18.80 25.08 25.81 26.49	21.48 28.67 29.49 30.28	25.06 33.45 34.41 35.32	30.07 40.13 41.29 42.39							Stove / Closed Room Heater (without Back Boiler) Peat 45-55% Coal 50-80% Gas 60-75%
Wood	Pellets Bulk Delivery Pellets Bagged Briquettes Hardwood, Small Bag, 20% moisture, Collected Softwood, Small Bag, 25% moisture, Collected Hardwood, Full Pallet, 20% moisture, Delivered Softwood, Full Pallet, 25% moisture, Delivered Softwood, Bulk (loose), 25% moisture, Delivered	11.25 12.59 20.10 14.25 16.72 13.65 10.94 6.60	12.50 13.99 22.34 n/a 20.90 16.93 13.68 8.25	14.06 15.74 15.13 n/a 23.88 19.35 15.63 9.43	16.07 17.98 28.72 n/a 27.86 22.58 18.24 11.00	18.74 20.98 33.51 n/a 33.43 27.09 21.89 13.20	22.49 25.18 40.21 n/a 41.79 33.87 27.36 16.50	28.12 31.47 50.26 n/a 55.72 45.16 36.48 22.00						Stove / Closed Room Heater (with Back Boiler) All 65-85%
Natural Gas	Pellets Bulk Delivery Pellets Bagged Briquettes	11.25 12.59 20.10	12.50 13.99 22.34	14.06 15.74 15.13	16.07 17.98 28.72	18.74 20.98 33.51	22.49 25.18 40.21	28.12 31.47 50.26						Oil Fired Boiler Gas Oil 55-75% Kerosene 60-75%
	Band D1: <=5,556 kWh per annum Band D2: >=5,556 <=5,556 kWh per annum Band D3: >=55,556 kWh per annum	18.24 15.44 11.55	20.26 17.15 12.83	22.79 19.30 14.44	26.05 22.05 16.50	30.39 25.73 19.25	36.47 30.87 23.10	45.59 38.59 28.87	60.79 51.46 38.49	91.18 77.18 57.74				Gas Fired Boiler All 55-75%
	Band DA: <=1,000 kWh per annum Band DB: >=1,000 <=2,500 kWh per annum Band DC: >=2,500 <=5,000 kWh per annum Band DD: >=5,000 <=15,000 kWh per annum Band DE: >=15,000 kWh per annum	30.34 32.72 32.25 31.61 28.84	30.34 32.72 32.25 31.61 28.84	33.71 36.35 35.83 35.12 32.04										Wood Product or Biomass Boiler All 55-87%
	Night rate	15.11	15.11	16.79										Flueless Gas ²⁴ All 90%
	Electricity													Condensing Boiler 85-97%
	Night rate	15.11	15.11	16.79										Electric Storage Heater All 90%
	Night rate	15.11	15.11	16.79										Electric (Electric Fire, Panel Heater) All 100%

	Electricity used for Heat pumps ²⁵	Delivered Energy Cost ¹⁷ (c/kWh)	Seasonal Performance Factor (SPF) ²⁶ for heat pumps								Typical SPF's 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 Band DB: >=1,000 <=2,500 kWh per annum Band DC: >=2,500 <=5,000 kWh per annum Band DD: >=5,000 <=15,000 kWh per annum The majority of residential dwellings operating a heat-pump are in the DD-band. Band DE: >=15,000 kWh per annum Night rate	30.34 32.72 32.25 31.61 28.84 15.11	12.13 13.09 12.90 12.64 11.53 6.04	10.11 10.91 10.75 10.54 9.61 5.04	8.67 9.35 9.21 9.03 8.24 4.32	7.58 8.18 8.06 7.90 7.21 3.78	6.74 7.27 7.17 7.02 6.41 3.36	6.07 6.54 6.45 6.32 5.77 3.02	5.52 5.95 5.86 5.75 5.24 2.75	5.06 5.45 5.37 5.27 4.81 2.52	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	