

Energy Cost Comparison – May 2022

Fuel	Fuel price (p per unit)	Unit	Pence per kWh (after boiler efficiency)	Energy content (kWh per unit)	KgCO2e per kWh*
Electricity Standard Rate¹	33.65	kWh	33.65 (100%)	1	0.291
Electricity Online Rate ¹	32.90	kWh	32.90 (100%)	1	0.291
Mains Gas Standard Rate²	8.33	kWh	9.26 (90%)	1	0.215
Mains Gas Online Rate ²	8.08	kWh	8.97 (90%)	1	0.215
Kerosene³	100.26	Litre	11.39 (90%)	9.8	0.298
Gas oil ⁴	123.80	Litre	13.62 (90%)	10.4	0.316
LPG⁵	N/A**	Litre	N/A** (90%)	6.66	0.240
Butane ⁶	191.20	Litre	29.34 (90%)	7.97	0.247
Propane⁷	112.26	Litre	18.79 (90%)	7.07	0.239
Seasoned Wood ⁸	30.04	Kg	8.42 (85%)	4.20	0.028
Pellets⁹	28.52	Kg	6.60 (90%)	4.72	0.053
Smokeless fuel ¹⁰	53.32	Kg	10.61 (75%)	8.51	0.398
Coal¹⁰	43.37	Kg	7.27 (75%)	6.20	0.398
GSHP¹¹	33.65	kWh	9.61 (350%)	1	0.083
ASHP¹¹	32.90	kWh	12.18 (270%)	1	0.108

*CO2e emissions are based on UK Government GHG Conversion Factors for Company Reporting Scope 3, which includes emissions from Transmission and Distribution.

References:

1. **Electricity:** Based on an average of the 6 major electricity suppliers' online prepayment, credit and direct debit tariffs, including standing charges and VAT, but not Economy 7. Data used are the Tariff Comparison Rates (TCR) provided on the 6 major energy suppliers' website.
2. **Gas:** Based on an average of the 6 major gas suppliers' standard prepayment, credit and direct debit tariffs, including standing charges and VAT. Data used are the Tariff Comparison Rates (TCR) provided on the 6 major energy suppliers' website.
3. **Kerosene:** Based on an average prices from [Boiler Juice](#), [Heating Oil](#) and [Home Fuels Direct](#).
4. **Gas Oil:** Based on an average prices from [Boiler Juice](#), [Heating Oil](#) and [Home Fuels Direct](#).
5. **LPG:** Based on an average prices from Calor Gas (0800 626 626), [Extra Fuel](#) and [Nottinghamshire LPG](#). Savings of up to 30% available on fixed price deals.
6. **Butane:** Based on prices from Flogas.
7. **Propane:** Based on an average prices from: Flogas, and Calor Gas – 0800 662 663. Note: The bottled gas market is very competitive and prices vary. It is recommended that you contact as many suppliers as possible in your area for the best price. We have used the CO₂eq factor of LPG, as both propane and butane are components of LPG and there is currently no specific GHG conversion factor for these.
8. **Seasoned Wood:** Based on an average prices from [House Fuel](#), [Logs Coal UK](#), and [Nottinghamshire Logs](#). We have used the CO₂ factor as there is currently no specific GHG CO₂eq conversion factor for this. **Note:** The values for seasoned logs have been updated based on the latest information on the Net CVs of Seasoned logs from Biomass Energy Centre.
9. **Wood Pellets:** Based on average prices from Wood Pellets Stove, Balcas Energy and Logs2U.
10. **Smokeless fuel and coal:** Based on average prices from House Fuels, Coals2U and Coal Merchant. We have used the CO₂eq factor of coal, as the components of smokeless fuels are coal-based and there is currently no specific GHG conversion factor for this.
11. **GSHP (Ground Source Heat Pump) and ASHP (Air Source Heat Pump):** Based on best electricity price taken from electric online rate. The boiler efficiency used in the calculation is based on the best available information from Review of Technical Information on Renewable Heat Technologies Report 2011.