

Converting Fuel to kWh and CO₂e

Important!

- Before using the conversions on this table you should check with your suppliers if they can provide more accurate conversions or search online for local information.
- This table mainly uses metric kilograms, litres or cubic metres (m³) so you will need to first convert any other weight or volume measurement units you are using.

Fuel Type	Unit of Measurement	kWh	Kg CO ₂ e
Coal	1 kilogram (k or kg)	7.25	2.88165
Wood	1 kilogram (k or kg)	3.80	0.61522
Fuel oil (heavy oil, furnace oil)	1 litre (l)	11.84	3.17799
LPG/propane/butane	1 litre (l)	6.98	1.51906
Gasoil/diesel-oil	1 litre (l)	10.96	2.68779
Burning oil (e.g. kerosene)	1 litre (l)	10.31	2.53627
Petrol/gasoline	1 litre (l)	9.61	2.20307 (biofuel blend) 2.30531 (no biofuel)
Natural gas	1 cubic metre (m ³)	11.02	2.04652

Source for kWh conversions

http://www.eauc.org.uk/file_uploads/uccfcs_unit_converter_v1_3_1.xlsx

Source for CO₂e conversions

<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>