

CONVERSION FACTORS

The data which have been supplied by the countries in original units are converted to the common unit, terajoules (TJ), by using standard conversion factors or, in the case of solids and liquids, specific factors, where available.

Standard conversion factors for liquid fuels are determined on the basis of the net calorific value for each product.

The conversion of fuelwood (solid volume, 9.135 GJ/m³) is based on an average 20-30% moisture content. When data on the transformation of fuelwood into charcoal are incomplete,

estimations assume that it requires 6 cubic metres of fuelwood to produce 1 metric ton of charcoal, equivalent to an approximately 53% transformation efficiency on an energy basis.

For users wishing to convert the data from terajoules (TJ) to other common units: one thousand tons of coal equivalent (1,000 TCE) has traditionally been defined as comprising 29.3076 TJ, and one thousand tons of oil equivalent (1,000 TOE) as 42.6216 TJ. One calorie corresponds to 4.1868 joules and is the amount of energy which will raise the temperature of one gramme of water by one degree Celsius.

STANDARD NET CALORIFIC VALUES
(Terajoules per thousand metric tons, unless otherwise stated)

Hard coal	25.80
Brown coal	14.00
Peat	9.76
Oil shale	8.90
Coal coke	28.20
Patent fuel	20.70
Brown coal briquettes (BKB)	20.70
Coal tar	28.00
Coke-oven gas (original unit is TJ)	1.00
Gasworks gas (original unit is TJ)	1.00
Recovered gases (original unit is TJ)	1.00
Other coal products	20.00
Peat products	9.76
Conventional crude oil	42.30
Natural gas liquids	44.20
Additives and Oxygenates	30.00
Other hydrocarbons	36.00
Feedstocks	43.00
Refinery gas	49.50
Ethane	46.40
Liquefied petroleum gas	47.30
Naphtha	44.50
Aviation gasoline	44.30
Motor gasoline	44.30
Gasoline-type jet fuel	44.30
Kerosene-type jet fuel	44.10
Other kerosene	43.80
Gas-diesel oil	43.00
Fuel oil	40.40
White spirit and SBP industrial spirits	40.20
Lubricants	40.20
Paraffin waxes	40.20
Petroleum coke	32.50
Bitumen (asphalt)	40.20
Other oil products	40.20
Natural gas (original unit is TJ on a GCV basis)	0.90
Fuelwood, wood residues and by-products (10^3 m ³)	9.14
Bagasse	7.72
Animal waste (original unit is TJ)	1.00
Black liquor (original unit is TJ)	1.00
Other vegetal material and residues (original unit is TJ)	1.00
Biogasoline	26.80
Biodiesels	36.80
Bio jet kerosene	40.00

STANDARD NET CALORIFIC VALUES
(Terajoules per thousand metric tons, unless otherwise stated)

Other liquid biofuels	27.40
Biogases (original unit is TJ)	1.00
Industrial wastes (original unit is TJ)	1.00
Municipal wastes (original unit is TJ)	1.00
Charcoal	29.50
Nuclear heat (original unit is TJ)	1.00
Electricity (GWh)	3.60
Heat (original unit is TJ)	1.00