

# Fuel Conversion Factors

(Sources: Annex A, Digest of United Kingdom Energy Statistics 2001, DTI; Table 3.1, Paper CCA10, DEFRA).

Fuel	Gross Calorific Value			Carbon Emission Factors
	<b>GJ per Tonne</b>		<b>KWh per Tonne</b>	<b>Kg per kWh</b>
Coal (weighted average)	26.8		7444	0.0817
Coke	29.8		8278	0.117
Electricity				0.0453
<b>Petroleum Products</b>	<b>GJ per Tonne</b>	<b>Litres per Tonne</b>	<b>KWh per Litre</b>	
Liquified Petroleum Gas (LPG)	49.4	1850	7.4	0.0627
Ethane	50.7	2730	5.2	0.0545
Aviation turbine fuel (jet kerosene)	46.2	1248	10.3	0.0655
Motor Spirit (petrol)	47.0	1361	9.6	0.0655
Gas/Diesel oil (including DERV)	45.6	1170	10.8	0.068
Fuel Oil	43.1	1011	11.8	0.0709
Naptha	47.7			0.0709
Petroleum Coke	39.5			0.0927
<b>Gas</b>	<b>MJ per Meter<sup>3</sup></b>		<b>KWh per Therm</b>	
Natural Gas	39.4		29.3	0.0518
Coke Oven Gas	18.0		29.3	
Blast Furnace Gas	3.0		29.3	
Landfill Gas	38.6		29.3	
Sewage Gas	38.6		29.3	
Refinery Gas			29.3	0.0545
<b>Unit Conversion factors</b>				
1 tonne of oil equivalent (toe)	396.8	therms		
	41.9	GJ		
	11630.0	KWh		
1 therm	29.3	KWh		
1 GJ	277.8	KWh		