

Specific Net Calorific Values

Crude Oil*

	toe/tonne
Saudi Arabia	1.016
United States	1.029
Russia	1.005
Iran	1.019
Venezuela	1.069
Mexico	1.019
Norway	1.024
China	1.000
United Kingdom	1.037
UAE	1.018

* for selected countries.

Petroleum Products*

	toe/tonne
Refinery gas	1.150
LPG	1.130
Ethane	1.130
Naphtha	1.075
Motor Gasoline	1.070
Jet Fuel	1.065
Kerosene	1.045
Gas/Diesel Oil	1.035
Heavy Fuel Oil	0.960
Other Products	0.960

* selected products - average values.

Coal*

	toe/tonne
China	0.541
United States	0.632
India	0.441
South Africa	0.564
Australia	0.614
Russia	0.545
Poland	0.527
Kazakhstan	0.444
Ukraine	0.516
Germany	0.548

* steam coal production for selected countries.

Gross Calorific Values

Natural Gas*

	kJ/m ³
Russia	38231
United States	38267
Canada	38210
Netherlands	33320
United Kingdom	39708
Indonesia	40600
Algeria	42000
Uzbekistan	37889
Saudi Arabia	38000
Norway	39520

*for selected countries (production).

Note: to calculate the net heat content, the gross heat content is multiplied by 0.9.

Conventions for Electricity

Figures for electricity production, trade, and final consumption are calculated using the energy content of the electricity (i.e. at a rate of 1 TWh = 0.086 Mtoe). Hydro-electricity production (excluding pumped storage) and electricity produced by other non-thermal means (wind, tide, photovoltaic, etc.) are accounted for similarly using 1 TWh = 0.086 Mtoe. However, the primary energy equivalent of nuclear electricity is calculated from the gross generation by assuming a 33% conversion efficiency, i.e. 1 TWh = (0.086 ÷ 0.33) Mtoe. In the case of electricity produced from geothermal heat, if the actual geothermal efficiency is not known, then the primary equivalent is calculated assuming an efficiency of 10%, so 1 TWh = (0.086 ÷ 0.1) Mtoe.