



## Annex C. Common energy unit conversion factors and unit prefixes

Common Energy Unit Conversion Factors

To:	Terajoule (TJ)	Gigacalorie (Gcal)	Megaton oil (equiv) (Mtoe)	Million British thermal units (Mbtu)	Gigawatt-hour (GWh)
<b>From:</b>	<b>Multiply by:</b>				
TJ	1	238.8	$2.388 \times 10^{-5}$	947.8	0.2778
Mtoe	$4.1868 \times 10^4$	$10^7$	1	$3.968 \times 10^7$	11,630
Mbtu	$1.0551 \times 10^{-3}$	0.252	$2.52 \times 10^{-8}$	1	$2.931 \times 10^{-4}$
GWh	3.6	860	$8.6 \times 10^{-5}$	3,412	1

Source: IEA figures. Additional conversion figures available at <http://www.iea.org/stat.htm>

### Unit Prefixes

- k** kilo ( $10^3$ )
- M** mega ( $10^6$ )
- G** giga ( $10^9$ )
- T** tera ( $10^{12}$ )
- P** peta ( $10^{15}$ )
- E** exa ( $10^{18}$ )