N. Unit Conversion

SI Decimal Multiples

Prefix	Symbol	Factor	Term
kilo	k	10^3	thousand
mega	M	10^6	million
giga	G	10^9	billion
tera	T	10^{12}	trillion
peta	P	10^{15}	quadrillion

Mass

Name		t	kg	t_s	t_l	lb	Units System
tonne	t	1	1000	1.102	0.984	2205	Metric
kilograms	kg	0.001	1	0.001	0.001	2.205	Metric/SI
short tons	t_s	0.907	907	1	0.893	2000	American
long tons	t_l	1.016	1016	1.120	1	2240	Imperial
pounds	lb	0.000454	0.454	0.0005	0.000446	1	American/Imperial

Volume

Name		Mm^3	Bcf	mmbbls	Units System
million cubic meters	Mm^3	1	0.0353	6.289	Metric/SI
billion cubic feet	Bcf	28.317	1	178.08	American/Imperial
million barrels	mmbbls	0.159	0.00562	1	Common Oil

Energy and Heat

Name		PJ	Cal_{th}	btu	GWh	boe	toe	Units System
Petajoule	PJ	1	2.390×10^{14}	9.478×10^{11}	277.78	1.634×10^{5}	23885	Metric/SI
Thermochemical calories	Cal_{th}	4.184×10^{-15}	1	0.004	1.162×10^{-12}	6.837×10^{-10}	9.993×10^{-11}	Imperial/American
British thermal units	btu	1.055×10^{-12}	252.16	1	2.931×10^{-10}	1.724×10^{-7}	2.520×10^{-8}	Imperial/American
Gigawatt hours	GWh	0.0036	8.604×10^{11}	3.412×10^{9}	1	588.30	85.98	Common Electricity
Barrels of oil equivalent	boe	6.119×10^{-6}	1.463×10^{9}	5.800×10^{6}	0.0017	1	0.146	Common Oil
Tonnes of oil equivalent (toe)	toe	4.187×10^{-5}	1.001×10^{10}	3.968×10^{7}	0.01163	6.842	1	Common Oil

Electrical Capacity – Power

Name		MW	kW	HP_e
Megawatt	MW	1	1000	1340.5
Kilowatt	kW	0.001	1	1.340
Horsepower (Electrical)	HP_e	0.00000746	0.746	1