

Kilo	Mega	Giga	Tera	Peta	Quadrillion	
k	M	G	T	P	Q	Note that Q=P
10^3	10^6	10^9	10^{12}	10^{15}	10^{15}	

Energy equivalents
Conversion table

	J	kWh	Btu
1 Joule	1	2.78×10^{-7}	9.49×10^{-4}
1 kWh Kilowatt Hour	3.60×10^6	1	3413
1 calorie	4.184	1.16×10^{-6}	3.97×10^{-3}
1 British Thermal Unit BTU	1055	2.93×10^{-4}	1
1 ft pound (ft-lb)	1.36	3.78×10^{-7}	1.29×10^{-3}
1 electron volt (eV)	1.60×10^{-19}	4.45×10^{-26}	1.52×10^{-22}
1 Barrel petroleum (42 US Gallon)	6.12×10^9	1700	5.8×10^6

Numbers useful on a bigger scale

Total energy consumption in USA

(1 QBtu ~ referred to as a Quad) 1 Quad = 172.4 Million Barrels

1 Quad = 293 TWh 1000 TWh = 3.41 Quad

2003	98.3 Quad	2.88×10^{16} watt hours	28800 TWh
2007	101.6 Quad	2.97×10^{16} watt hours	29700 TWh

Annual electricity production in USA in 2010

3992 TWh (China 3715 TWh)

Energy Consumption per capita in US = $101.6 \times 172.4 \text{ Mill} / 290 \text{ Mill} =$
60.4 barrels per person

Power equivalents
Conversion table

1 Watt = 1 Joule/sec 1 year has 3.15×10^7 secs

	cal/sec	Watts	Btu/hr
1 kW	239	1000	3413
1 Horsepower	178	746	2545
Btu/hr	0.07	0.293	1