



ENERGY UNIT CONVERSIONS

ELECTRICITY	Input		=	Result	
1 kW = 1,000 watts	1	kW	=	1,000	watts
1 MW = 1,000 kW	1	MW	=	1,000	kW
1 MW = 1,000,000 watts	1	MW	=	1,000,000	watts
1 kW = 3412.1416 Btu/h	1	kW	=	3,412	Btu/h
1 kWh = 3412.1416 Btu	1	kWh	=	3,412	Btu

Input		=	Result	
1,000	watts	=	1	kW
1,000	kW	=	1	MW
1,000,000	watts	=	1	MW
1	Btu/h	=	0	kW
3,412	Btu	=	1	kWh

WATER	Input		=	Result	
1 cu.ft. = 7.48 gallons	1	cu.ft.	=	7.48	Gallons
1 HCF = 748 gallons	1	HCF	=	748	Gallons
1 CCF = 748 Gallons	1	CCF	=	748	Gallons

Input		=	Result	
7.48	Gallons	=	1	cu.ft.
748	Gallons	=	1	HCF
748	Gallons	=	1	CCF

1 HCF = 1 CCF = 100 cu.ft
 1,000 Gallons = HCF x 1,000 / 748

ENERGY	Input		=	Result	
Natural Gas: 1 CF = 1,000 Btu	1	CF	=	1,000	Btu
Natural Gas: 1 therm = 100,000 Btu	1	Therm	=	100,000	Btu
#2 Oil: 1 gal = 140,000 Btu	1	Gallon	=	140,000	Btu
#6 Oil: 1 gal = 152,000 Btu	1	Gallon	=	152,000	Btu
Kerosene: 1 gal = 134,000 Btu	1	Gallon	=	134,000	Btu
Propane: 1 gal = 92,000 Btu	1	Gallon	=	92,000	Btu

Input		=	Result	
1	Btu	=	0	CF
1	Btu	=	0	Therm
1	Btu	=	0	Gallon
1	Btu	=	0	Gallon
1	Btu	=	0	Gallon
92,000	Btu	=	1	Gallon

NATURAL GAS	Input		=	Result	
1 therm = 100,000 Btu	1	therm	=	100,000	Btu
1 therm = 100 MBtu	1	therm	=	100	MBtu
1 therm = 0.1 MMBtu	1	therm	=	0.1	MMBtu
1 therm = 1 CCF	1	therm	=	1	CCF
1 CCF = 100 CF of NG	1	CCF	=	100	CF
1 MCF = 1,000 CF of NG	1	MCF	=	1,000	CF
1 CF NG = 1,025 Btu	1	CF of NG	=	1,025	Btu
1 CCF = 100,000 Btu	1	CCF	=	100,000	Btu

Input		=	Result	
100,000	Btu	=	1.00	therm
100	Mbtu	=	1	therm
0.1	MMBtu	=	1.0	therm
1	CCF	=	1	therm
100	CF	=	1.0	CCF
1,000	CF	=	1	MCF
1,025	Btu	=	1	CF of NG
100,000	Btu	=	1	CCF

1 CF = 950 to 1150 Btu
 1 CF = 1,000 Btu. Used
 1 cf of natural gas produce approx 1,000 Btu, so 1,000 cf of gas is 1 MBTU.

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