

APPENDIX B CONVERSION TABLE

The following are a few frequently used units of measure and natural gas equivalents in British thermal unit (Btu). The equal sign (=) between volumes and energy unit is read as “contains.” The numbers reflect the national average Btu content per cubic foot.

- 1 Cubic Foot (cf) = 0.02832 Cubic Meters = 1,037 Btu
- 1 Therm = 100,000 Btu \simeq 25,200 Kilocalories \simeq 100 Cubic Feet
- 1 Mcf = 1,000 Cubic Feet = 28.32 Cubic Meters = 1,037,000 Btu
- 1 M Therm = 100,000,000 Btu - 25,200,000 Kilocalories
- 1 MMcf = 1,000,000 Cubic Feet = 1,037,000,000 Btu

Conversion examples:

- (1) To convert 2,325 MMcf to trillions of Btu:
 (2,325 MMcf) (1,037,000,000 Btu/MMcf)
 = 2,411,025,000,000 Btu
 ~ 2.411025 trillion Btu
- (2) To convert 5,000 trillion Btu to millions of cubic feet:
 (5,000 trillion Btu) (1 cf/1,037.0 Btu)
 = 4.822 trillion cf (Tcf)
 \simeq 4,821,601 MMcf
- (3) To convert 22,150 million therms to trillions of Btu:
 (22,150 million therms) (100,000 Btu/therm)
 = 2,215,000,000 million Btu
 = 2,215 trillion Btu
- (4) To convert the Btu content of 1 cubic foot at 15.05 psia to 14.73 psia:
 (1,037.0 Btu/cf) (14.73 psia/15.05 psia)
 \simeq 1,015.0 Btu/cf

For comparative purposes, Btu contents of energy sources other than natural gas are shown below*:

Fuel Oil (barrel)	
Distillate	5,770,000 Btu
Residual	6,287,000 Btu
Coal (short ton)	19,950,000 Btu
Electricity (kilowatt-hour)	3,412 Btu
Natural gas liquids (barrel)	3,585,000 Btu

* Department of Energy, Energy Information Administration, *Monthly Energy Review*, October 2022.

