Appendix G

Conversion factors

Table G1. Heat contents

Fuel	Units	Approximate heat content
Coal[1]		
Production	million Btu per short ton	20.169
Consumption	million Btu per short ton	19.664
Coke plants	million Btu per short ton	28.710
Industrial	million Btu per short ton	21.622
Commercial and institutional	million Btu per short ton	21.246
Electric power sector	million Btu per short ton	19.210
Imports	million Btu per short ton	23.256
Exports	million Btu per short ton	24.562
Coal coke	million Btu per short ton	24.800
Crude oil[1]		
Production	million Btu per barrel	5.751
Imports	million Btu per barrel	6.012
Petroleum products and other liquids		
Consumption[1]	million Btu per barrel	5.188
Motor gasoline[1]	million Btu per barrel	5.101
Jet fuel	million Btu per barrel	5.670
Distillate fuel oil[1]	million Btu per barrel	5.760
Diesel fuel[1]	million Btu per barrel	5.755
Residual fuel oil	million Btu per barrel	6.287
Liquefied petroleum gases and other[1,2]	million Btu per barrel	3.565
Kerosene	million Btu per barrel	5.670
Petrochemical feedstocks[1]	million Btu per barrel	4.944
Unfinished oils[1]	million Btu per barrel	6.098
Imports[1]	million Btu per barrel	5.575
Exports[1]	million Btu per barrel	5.506
Ethanol[3]	million Btu per barrel	3.559
Biodiesel	million Btu per barrel	5.359
Natural gas plant liquids[1]		
Production	million Btu per barrel	3.735
Natural gas[1]		
Production, dry	Btu per cubic foot	1,027
Consumption	Btu per cubic foot	1,027
End-use sectors	Btu per cubic foot	1,028
Electric power sector	Btu per cubic foot	1,025
Imports	Btu per cubic foot	1,025
Exports	Btu per cubic foot	1,009
Electricity consumption	Btu per kilowatthour	3,412

[1]Conversion factor varies from year to year. The value shown is for 2013.
[2]Includes ethane, natural gasoline, and refinery olefins.
[3]Includes denaturant.
Btu = British thermal unit.
Sources: U.S. Energy Information Administration (EIA), *Monthly Energy Review*, DOE/EIA-0035(2014/11) (Washington, DC, November 2014), and EIA, AEO2015 National Energy Modeling System run REF2015.D021915A.