

## Appendix G

# Conversion factors

**Table G1. Heat contents**

Fuel	Units	Approximate heat content
<b>Coal<sup>1</sup></b>		
Production .....	million Btu per short ton	20.02
Consumption .....	million Btu per short ton	19.49
Coke plants .....	million Btu per short ton	28.69
Industrial <sup>2</sup> .....	million Btu per short ton	20.73
Commercial and institutional .....	million Btu per short ton	23.11
Electric power sector <sup>3</sup> .....	million Btu per short ton	19.04
Imports.....	million Btu per short ton	22.73
Exports .....	million Btu per short ton	26.21
<b>Coal coke</b> .....	million Btu per short ton	24.80
<b>Crude oil<sup>1</sup></b>		
Production .....	million Btu per barrel	5.719
Imports.....	million Btu per barrel	6.063
<b>Petroleum products and other liquids</b>		
Consumption <sup>1</sup> .....	million Btu per barrel	5.148
Motor gasoline <sup>1</sup> .....	million Btu per barrel	5.057
Jet fuel.....	million Btu per barrel	5.670
Distillate fuel oil <sup>1</sup> .....	million Btu per barrel	5.778
Diesel fuel <sup>1</sup> .....	million Btu per barrel	5.778
Residual fuel oil .....	million Btu per barrel	6.287
Liquefied petroleum gases and other <sup>1,4</sup> ...	million Btu per barrel	3.559
Kerosene.....	million Btu per barrel	5.670
Petrochemical feedstocks <sup>1</sup> .....	million Btu per barrel	5.441
Unfinished oils <sup>1</sup> .....	million Btu per barrel	6.111
Imports <sup>1</sup> .....	million Btu per barrel	5.518
Exports <sup>1</sup> .....	million Btu per barrel	5.398
Ethanol, including denaturant .....	million Btu per barrel	3.558
Biodiesel.....	million Btu per barrel	5.359
<b>Natural gas plant liquids<sup>1</sup></b>		
Production .....	million Btu per barrel	3.745
<b>Natural gas<sup>1</sup></b>		
Production, dry .....	Btu per cubic foot	1,031
Consumption .....	Btu per cubic foot	1,031
End-use sectors.....	Btu per cubic foot	1,032
Electric power sector <sup>3</sup> .....	Btu per cubic foot	1,029
Imports.....	Btu per cubic foot	1,025
Exports .....	Btu per cubic foot	1,009
<b>Electricity consumption</b> .....	Btu per kilowatthour	3,412

<sup>1</sup>Conversion factor varies from year to year. The value shown is for 2015.

<sup>2</sup>Includes combined heat and power plants that have a non-regulatory status, and small on-site generating systems.

<sup>3</sup>Includes all electricity-only and combined heat and power plants that have a regulatory status.

<sup>4</sup>Includes ethane, natural gasoline, and refinery olefins.

Btu = British thermal unit.

Sources: U.S. Energy Information Administration, *Short-Term Energy Outlook*, February 2016 and EIA, AEO2016 National Energy Modeling System run ref2016.d032416a.