



# ACRONYMS AND ABBREVIATIONS

<b>ACEE</b>	American Council for an Energy-Efficient Economy	<b>EOR</b>	enhanced oil recovery
<b>AEO</b>	<i>Annual Energy Outlook</i> (annual publication from EIA)	<b>EIA</b>	DOE's Energy Information Administration
<b>AIChE</b>	American Institute of Chemical Engineers	<b>EPRI</b>	Electric Power Research Institute
<b>ANWR</b>	Arctic National Wildlife Refuge	<b>FAO</b>	Food and Agriculture Organization of the United Nations
<b>APEC</b>	Asia-Pacific Economic Cooperation (a group of energy ministers from 21 countries)	<b>GDP</b>	gross domestic product
<b>ASPO</b>	Association for the Study of Peak Oil	<b>GTL</b>	gas-to-liquids
<b>Btu</b>	British thermal unit	<b>HOV</b>	high-occupancy vehicle
<b>CAFE</b>	Corporate Average Fuel Economy	<b>HVAC</b>	heating-ventilation-air conditioning systems
<b>CBM</b>	coalbed methane	<b>IEA</b>	International Energy Agency
<b>CCS</b>	carbon capture and sequestration	<b>IEO</b>	<i>International Energy Outlook</i> (annual publication from EIA)
<b>CCSP</b>	U.S. Climate Change Science Program	<b>IGCC</b>	integrated gasification combined cycle
<b>CHP</b>	combined heat and power	<b>IOCs</b>	international oil companies
<b>CO<sub>2</sub></b>	carbon dioxide	<b>IOGCC</b>	Interstate Oil and Gas Compact Commission
<b>CSEM</b>	controlled source electromagnetism	<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>CSS</b>	cyclic steam stimulation	<b>LDV</b>	light duty vehicle
<b>CTG</b>	coal-to-gas	<b>LNG</b>	liquefied natural gas
<b>CTL</b>	coal-to-liquids	<b>MB/D</b>	million barrels per day
<b>EC</b>	European Commission (see also WETO)	<b>mpg</b>	miles per gallon
<b>DOE</b>	U.S. Department of Energy	<b>MMS</b>	U.S. Minerals Management Service
<b>E&amp;P</b>	exploration and production		

<b>NAFTA</b>	North American Free Trade Agreement	<b>R&amp;D</b>	research and development
<b>NGL</b>	natural gas liquid	<b>R/P</b>	reserves-to-production
<b>NIMBY</b>	not in my back yard	<b>RPSEA</b>	Research Partnership for a Secure Energy America
<b>NGOs</b>	non-governmental organizations	<b>SAGD</b>	steam-assisted gravity drainage
<b>NOCs</b>	national oil companies	<b>SPR</b>	Strategic Petroleum Reserve
<b>NOx</b>	nitrogen oxides	<b>SSEB</b>	Southern States Energy Board
<b>NPC</b>	National Petroleum Council	<b>TCF</b>	trillion cubic feet
<b>OECD</b>	Organisation for Economic Co-operation and Development	<b>URR</b>	ultimately recoverable resources
<b>OPEC</b>	Organization of Petroleum Exporting Countries	<b>USGS</b>	United States Geological Survey
<b>PDVSA</b>	Petroleos de Venezuela (Venezuela's national oil company)	<b>WEC</b>	World Energy Council
<b>ppmv</b>	parts per million by volume	<b>WEO</b>	<i>World Energy Outlook</i> (annual publication from IEA)
<b>PPP</b>	purchasing power parity	<b>WETO</b>	<i>World Energy Technology Outlook 2050</i> (published in 2006 by European Commission)
<b>Quad</b>	quadrillion Btu	<b>WETO-H2</b>	WETO Hydrogen Case
<b>RECS</b>	EIA's Residential Energy Consumption Survey	<b>WTO</b>	World Trade Organization



***Note:** A detailed glossary of terms used in this report is available at [www.npc.org](http://www.npc.org) and on the CD that accompanies the printed report.*

# CONVERSION FACTORS

1 barrel = 42 U.S. gallons = 159 liters = 0.16 cubic meters (m<sup>3</sup>)

1 cubic foot = 0.028 cubic meters (m<sup>3</sup>)

1 cubic meter (m<sup>3</sup>) = 35.7 cubic feet

1 short ton = 0.91 metric tons

1 metric ton = 1.1 cubic feet

## APPROXIMATE BTU CONTENT<sup>1</sup>

100 million metric tons of oil equivalent = 4 quadrillion Btu

1 quadrillion Btu = 25.2 million metric tons of oil equivalent

1 barrel of crude oil = 6.0 million Btu

1 million barrels of oil per day = 2.12 quadrillion Btu per year

1 cubic foot of natural gas = 1,030 Btu

1 billion cubic feet per day = 0.38 quadrillion Btu per year

1 short ton of coal = 20.3 million Btu

1 million short tons of coal per day = 7.4 quadrillion Btu per year

1 gigawatt-hour of electricity = 3,412 million Btu

2,400 gigawatt-hours of electricity per day = 3 quadrillion Btu per year

1 barrel of motor gasoline = 5.2 million Btu

1 barrel of distillate fuel = 5.8 million Btu

1 barrel of residual fuel oil = 6.3 million Btu

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<sup>1</sup> Actual heat values vary over time and by source. The values shown are an approximation.