



2012 Energy Statistics Yearbook



United Nations
New York, 2015

The Department of Economic and Social Affairs of the United Nations Secretariat is a vital interface between global policies in the economic, social and environmental spheres and national action. The Department works in three main interlinked areas: (i) it compiles, generates and analyses a wide range of economic, social and environmental data and information on which States Members of the United Nations draw to review common problems and to take stock of policy options; (ii) it facilitates the negotiations of Member States in many intergovernmental bodies on joint courses of action to address ongoing or emerging global challenges; and (iii) it advises interested Governments on the ways and means of translating policy frameworks developed in United Nations conferences and summits into programmes at the country level and, through technical assistance, helps build national capacities.

NOTE

Symbols of United Nations documents are composed of capital letters combined with figures. Mention of such a symbol indicates reference to a United Nations document.

General Disclaimer

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Where the designation "country or area" appears in the headings of tables, it covers countries, territories, cities or areas. In prior issues of this publication, where the designation "country" appears in the headings of tables, it should be interpreted to cover countries, territories, cities or areas.

ST/ESA/STAT/SER.J/56

UNITED NATIONS PUBLICATION
Sales number: E.15.XVII.12 H

ISBN: 978-92-1-161599-9
eISBN: 978-92-1-057433-4
ISSN 0256-6400

Copyright © United Nations 2015
All rights reserved

CONTENTS

	Page
Introduction	vi
Abbreviations and symbols	viii
Energy product definitions	ix
Energy flow definitions	xvi
Capacities and other definitions	xviii
General notes	xx
Country notes	xxi
Units of measurement and conversion	xxiii
Conversion factors	
I. Net calorific values of energy products	xxiv
II. Selected conversion factors for crude oil and oil products	xxxiv
TABLES	
Summary Tables	
1. Total energy supply – Petajoules	2
2. Components of total energy supply – Petajoules and Gigajoules per capita	10
3. Total final consumption and its components – Petajoules and Gigajoules per capita	46
Solid Fuels	
4. Production, trade and supply of coal – thousand tons of coal equivalent	65
5. Production, trade and supply of hard coal	76
6. International trade of hard coal (principal importers and exporters), 2011 and 2012	88
7. Production, trade and supply of brown coal and oil shale	92
8. Production, trade and supply of coke	98
9. Production, trade and supply of patent fuel	106
10. Production, trade and supply of brown coal briquettes and peat products	109
11. Production, trade and supply of peat	112
12. Production of biofuels and wastes	115
Liquid fuels	
13. Production, trade and supply of conventional crude oil	148
14. Production of additives and other hydrocarbons	160
15. International trade of conventional crude oil (principal importers and exporters), 2011 and 2012	164
16. Refinery distillation capacity, throughput and output	168
17. Production, trade and supply of liquefied Petroleum gases	180
18. Production, trade and supply of motor gasoline	197
19. Production, trade and supply of other kerosene	215
20. Production, trade and supply of jet fuels	230
21. Production, trade and supply of Gas oil/diesel oil	247
22. Production, trade and supply of fuel oil	266
23. Production of other oil products from refineries – by type	282
24. Production of oil products from refineries – by type	292
25. Production, trade and supply of oil products	303
26. Production of natural gas liquid plants – by end use	322
Gaseous fuels	
27. Production, trade and supply of natural gas	329
28. International trade of natural gas (principal importers and exporters), 2011 and 2012	340
29. Production of manufactured and recovered gases - by type	344
Electricity and heat	
30. Net installed capacity of electricity plants – by type	351
31. Utilization of installed electricity capacity – by type	387
32. Production of electricity – by type	422
33. Electricity supply and consumption	458
34. Production of heat - by type	478
Nuclear fuels	
35. Production of uranium (uranium content)	487
Energy resources	
36. Selected energy resources and reserves	489

FIGURES

	Page	
Total energy supply and final consumption		
1. Total energy supply by region, 1990	2	
2. Total energy supply by region, 2012	2	
3. Total energy supply by region, 1990-2012	3	
4. Total per capita energy supply by region, selected years	10	
5. Production of solids by region, 2012	11	
6. Production of liquids by region, 2012	11	
7. Production of gases by region, 2012	11	
8. Primary electricity production by region, 2012	11	
9. World total final consumption by component, 2012	46	
10. Total final consumption by region, 1993-2012	46	
Solid Fuels		
11. Production of coal by region, 1990-2012	65	
12. Hard coal production by region, 1990-2012	76	
13. Major hard coal producing countries, 2012	76	
14. Major hard coal consuming countries, 2012	76	
15. Brown coal and oil shale production, 1990-2012	92	
16. Major brown coal producing countries, 2012	92	
17. Major brown coal consuming countries, 2012	92	
18. Per capita supply of coke by region, 2012	98	
19. Major coke producing countries, 2012	98	
20. Major coke consuming countries, 2012	98	
21. Major patent fuel producing countries, 2012	106	
22. Major patent fuel consuming countries, 2012	106	
23. Production by region of BKB and peat products, 1990-2012	109	
24. Major BKB and peat products producing countries, 2012	109	
25. Major BKB and peat products consuming countries, 2012	109	
26. World production of peat, 1990-2012	112	
27. Major peat producing countries, 2012	112	
28. Major peat consuming countries, 2012	112	
29. Fuelwood production by region, 1990-2012	116	
30. Charcoal production by region, 1990-2012	116	
31. Primary solid biofuels production by region, 2012	117	
32. Biogases production by region, 2012	117	
33. Bagasse production by region, 2012	117	
34. Liquid biofuels production by region, 2012	117	
35. Energy production from wastes by region, 2012	117	
		Liquid Fuels
		36. Conventional crude oil production by region, 1990-2012
		148
		37. Conventional crude oil exports by region, 1990-2012
		148
		38. Production, trade and supply of conventional crude oil by region, 2012
		149
		39. Major crude oil producing countries, 2012
		149
		40. Major crude oil consuming countries, 2012
		149
		41. Major additive producing countries, 2012
		160
		42. Major other hydrocarbon producing countries, 2012
		160
		43. Refinery distillation capacity, throughput and output, by region, 2012
		168
		44. Total refinery distillation capacity by region, 1990-2012
		169
		45. World LPG production by region, 1990-2012
		180
		46. Major LPG producing countries, 2012
		180
		47. Major LPG consuming countries, 2012
		180
		48. Production of motor gasoline by region, 1990-2012
		197
		49. Major motor gasoline producing countries, 2012
		197
		50. Major motor gasoline consuming countries, 2012
		197
		51. Production of other kerosene by region, 1990-2012
		215
		52. Major other kerosene producing countries, 2012
		215
		53. Major other kerosene consuming countries, 2012
		215
		54. Production of jet fuels by region, 1990-2012
		230
		55. Major jet fuel producing countries, 2012
		230
		56. Major jet fuel consuming countries, 2012
		230
		57. Production of gas/diesel oil by region, 1990-2012
		247
		58. Major gas/diesel oil producing countries, 2012
		247
		59. Major gas/diesel oil consuming countries, 2012
		247
		60. Production of fuel oil by region, 1990-2012
		266
		61. Major fuel oil producing countries, 2012
		266
		62. Major fuel oil consuming countries, 2012
		266
		63. Production of other oil products from refineries, 2012
		282
		64. Production of selected oil products from refineries, 1990-2012
		292
		65. Production of oil products by region, 1990-2012
		303
		66. Natural gas liquids production by region, 1990-2012
		322
		67. World natural gas liquids production by type, 2012
		322

Gaseous fuels

68. Production of natural gas by region, 1990-2012	329
69. Major natural gas producing countries, 2012	329
70. Major natural gas consuming countries, 2012 ..	329
71. Production of manufactured gases by region, 1990-2012	344
72. World production of manufactured and recovered gases by type, 2012	344

Electricity and Heat

73. Change in net installed capacity of electricity generating plants by region, 2010-2012	351
74. Utilization of installed electric generating capacity by region, 2012.....	387
75. World electricity generation by source, 1990-2012	422

76. World production of electricity by region, 2012.....	423
77. Major countries producing electricity from combustible fuels, 2012.....	423
78. Major countries producing hydro electricity, 2012.....	423
79. Major countries producing nuclear electricity, 2012.....	423
80. Major countries producing electricity from other sources, 2012.....	423
81. World electricity generation, 1990-2012	458
82. Major electricity producing countries, 2012	459
83. Major electricity consuming countries, 2012	459
84. Heat production by region, 1990-2012	478
85. Major heat producing countries, 2012	479
86. World heat production by type, 2012.....	479

Statistics compiled as of March 2015