

Table 11.16 World Net Generation of Electricity by Type, 1980, 1990, and 2002
(Billion Kilowatthours)

Region and Country	Fossil Fuels			Nuclear Electric Power			Hydroelectric Power ¹			Total ²		
	1980	1990	2002 ^P	1980	1990	2002 ^P	1980	1990	2002 ^P	1980	1990	2002 ^P
North America	1,880.1	R2,292.0	3,050.4	287.0	648.9	860.3	546.9	606.5	595.8	2,721.6	3,623.9	4,592.7
Canada	79.8	101.9	155.2	35.9	69.2	71.0	251.0	293.9	315.5	367.9	468.6	548.9
Mexico	46.0	85.7	164.1	0.0	2.8	9.3	16.7	23.2	24.7	63.6	116.6	203.6
United States	1,753.8	2,103.8	2,730.2	251.1	576.9	780.1	279.2	289.4	255.6	2,289.6	3,038.0	3,839.3
Other	0.5	0.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.9
Central and South America	99.8	114.8	214.3	2.2	9.0	19.2	201.5	365.0	534.8	308.2	R 497.0	789.7
Argentina	22.2	20.9	39.7	2.2	7.0	5.4	17.3	20.2	35.5	41.8	48.3	81.4
Brazil	7.5	8.1	28.6	0.0	1.9	13.8	128.4	204.6	282.1	138.3	219.6	339.0
Paraguay	0.0	(s)	(s)	0.0	0.0	0.0	0.7	26.9	48.3	0.8	27.0	48.4
Venezuela	17.6	21.0	28.1	0.0	0.0	0.0	14.4	36.6	58.9	32.0	57.6	87.0
Other	52.4	R 64.8	118.0	0.0	0.0	0.0	40.6	76.5	110.0	95.3	R 144.5	233.9
Western Europe	1,180.1	1,171.6	1,436.8	219.2	707.5	881.7	431.7	453.4	503.2	1,844.5	2,351.7	2,918.4
Belgium	38.3	25.0	29.5	11.9	40.6	45.0	0.3	0.3	0.4	50.8	66.5	76.6
Finland	22.0	22.8	29.8	6.6	18.3	21.2	10.1	10.8	10.7	38.7	51.8	71.6
France	118.0	44.3	49.0	63.4	298.4	414.9	68.3	52.8	60.5	250.8	397.6	528.6
Germany	390.3	358.9	341.6	55.6	145.1	156.8	18.8	17.2	23.0	469.9	526.0	548.3
Italy	125.5	167.5	212.3	2.1	0.0	0.0	45.0	31.3	40.0	176.4	202.1	261.6
Netherlands	58.0	63.2	82.3	3.9	3.3	3.7	0.0	0.1	0.1	62.9	67.6	90.6
Norway	0.1	0.2	0.5	0.0	0.0	0.0	82.7	119.9	125.1	82.9	120.4	125.9
Spain	74.5	66.5	134.8	5.2	51.6	59.9	29.2	25.2	22.8	109.2	143.9	229.0
Sweden	10.1	3.2	6.2	25.3	64.8	65.4	58.1	71.8	66.0	94.3	141.5	142.8
Switzerland	0.9	0.6	1.0	12.9	22.4	25.9	32.5	29.5	34.8	46.4	53.0	63.5
Turkey	12.0	32.3	89.7	0.0	0.0	0.0	11.2	22.9	33.3	23.3	55.2	123.3
United Kingdom	228.9	230.0	265.5	32.3	58.7	83.6	3.9	5.1	4.8	265.1	295.2	360.8
Other	101.4	157.0	194.6	0.0	4.4	5.3	71.7	66.6	81.6	173.8	230.8	295.9
Eastern Europe and Former U.S.S.R.	1,309.3	1,471.5	1,042.1	83.2	251.3	297.1	211.3	253.6	275.8	1,604.1	1,976.6	1,619.9
Czech Republic	—	—	50.8	—	—	17.8	—	—	2.5	—	—	71.8
Kazakhstan	—	—	46.7	—	—	0.0	—	—	8.7	—	—	55.4
Poland	111.1	125.0	130.8	0.0	0.0	0.0	3.2	3.3	2.0	114.7	128.5	133.8
Romania	51.4	49.7	31.8	0.0	0.0	5.1	12.5	10.9	16.7	63.9	60.6	53.6
Russia	—	—	533.2	—	—	134.1	—	—	180.2	—	—	850.6
Ukraine	—	—	83.6	—	—	73.4	—	—	10.2	—	—	167.3
Other	1,146.8	1,296.7	165.2	83.2	251.3	66.7	195.5	239.4	55.5	1,425.6	1,787.5	287.4
Middle East	82.8	216.3	470.6	0.0	0.0	0.0	9.6	12.5	19.4	92.4	228.9	490.0
Iran	15.7	49.8	121.0	0.0	0.0	0.0	5.6	6.0	8.0	21.3	55.9	129.0
Saudi Arabia	20.5	64.9	138.2	0.0	0.0	0.0	0.0	0.0	0.0	20.5	64.9	138.2
Other	46.6	101.6	211.4	0.0	0.0	0.0	4.1	6.5	11.4	50.7	108.1	222.8
Africa	129.1	243.8	360.7	0.0	8.4	12.0	60.1	54.9	80.7	189.2	307.5	453.9
Egypt	8.6	31.5	66.8	0.0	0.0	0.0	9.7	9.9	14.4	18.3	41.4	81.3
South Africa	92.1	146.6	188.3	0.0	8.4	12.0	1.0	1.0	2.4	93.1	156.0	202.6
Other	28.4	65.6	105.5	0.0	0.0	0.0	49.4	44.0	63.9	77.8	110.1	170.0
Asia and Oceania	907.7	1,626.8	3,270.4	92.7	279.9	489.3	275.2	420.9	617.9	R 1,280.5	R 2,354.7	4,425.9
Australia	74.5	131.8	191.3	0.0	0.0	0.0	12.8	14.0	16.3	87.7	146.4	210.3
China	227.9	465.2	1,240.8	0.0	0.0	23.5	57.6	125.1	308.9	285.5	590.3	1,575.1
India	69.7	198.9	457.2	3.0	5.6	17.8	46.5	70.9	68.0	119.3	275.5	547.2
Indonesia	10.6	35.3	85.8	0.0	0.0	0.0	3.0	10.1	10.4	13.5	46.5	99.3
Japan	381.6	524.0	646.5	78.6	192.2	295.1	87.8	88.4	81.4	549.1	822.1	1,044.0
South Korea	29.8	45.5	170.9	3.3	50.2	113.1	1.5	4.6	3.2	34.6	100.4	287.6
Taiwan	31.3	43.6	114.2	7.8	31.6	38.0	2.9	8.2	6.3	42.0	83.3	158.5
Thailand	12.3	38.7	94.8	0.0	0.0	0.0	1.3	4.9	6.4	13.6	43.7	102.4
Other	70.1	143.8	269.0	(s)	0.4	1.8	61.8	94.5	117.0	135.3	R 246.4	401.4
World	5,588.8	7,136.8	9,845.2	684.4	1,905.0	2,559.6	1,736.3	2,166.8	2,627.6	8,040.5	R11,340.2	15,290.5

¹ Excludes pumped storage, except for the United States.

² Wood, waste, geothermal, solar, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies are included in total.

R=Revised. P=Preliminary. — = Not applicable. (s)=Less than 0.05 billion kilowatthours.

Note: • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

Sources: **United States:** Tables 1.2 and 8.2a. **All Other Data:** Energy Information Administration, "International Energy Annual 2002" (May 2004), Tables 2.6, 2.7, 6.1, and 6.3.