

Table 7d part 1. U.S. Regional Electricity Generation, Electric Power Sector (billion kilowatthours), continues on Table 7d part 2

U.S. Energy Information Administration | Short-Term Energy Outlook - November 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
United States															
Natural Gas	354.7	342.6	474.2	340.7	318.2	345.4	452.8	324.9	298.0	325.2	445.5	326.4	1,512.2	1,441.3	1,395.1
Coal	170.3	151.2	248.2	198.6	230.3	203.8	280.8	214.3	217.6	195.1	263.1	210.1	768.2	929.1	886.0
Nuclear	204.1	190.7	204.1	191.0	198.5	185.2	203.3	191.1	195.3	191.1	204.7	193.0	789.9	778.1	784.1
Renewable Energy Sources:	190.1	206.5	176.9	187.0	198.0	208.2	180.7	202.4	220.7	240.1	199.7	215.7	760.6	789.3	876.1
Conventional Hydropower	75.0	81.3	70.6	63.0	69.3	67.2	60.7	57.3	67.7	78.4	63.6	58.0	289.9	254.6	267.7
Wind	87.4	87.1	67.5	94.7	96.3	95.2	75.0	110.7	114.3	106.6	82.0	117.6	336.7	377.3	420.4
Solar (a)	16.7	27.3	27.6	18.5	21.4	35.2	33.8	23.8	28.2	44.8	43.1	29.5	90.1	114.3	145.7
Biomass	7.1	6.7	7.0	6.7	7.0	6.6	7.0	6.5	6.6	6.4	6.9	6.4	27.5	27.1	26.3
Geothermal	3.9	4.2	4.2	4.2	3.9	4.0	4.1	4.1	3.9	3.9	4.1	4.2	16.5	16.0	16.0
Pumped Storage Hydropower	-1.0	-1.2	-2.0	-1.2	-1.1	-1.0	-2.1	-1.1	-1.0	-1.0	-2.0	-1.0	-5.3	-5.3	-5.0
Petroleum (b)	4.0	3.9	4.5	4.0	5.2	3.5	4.6	3.8	4.5	3.7	4.3	3.6	16.5	17.1	16.2
Other Gases	1.0	0.4	0.8	0.9	0.7	0.8	0.9	0.9	0.9	0.7	0.9	0.9	3.1	3.3	3.5
Other Nonrenewable Fuels (c)	1.9	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	7.5	7.2	7.2
Total Generation	925.2	896.1	1,108.5	922.9	951.8	947.8	1,122.8	938.0	937.9	956.8	1,117.9	950.5	3,852.8	3,960.3	3,963.2
New England (ISO-NE)															
Natural Gas	10.8	10.0	16.1	10.8	12.1	11.0	16.6	13.2	13.6	12.6	16.1	11.8	47.7	52.8	54.1
Coal	0.1	0.0	0.0	0.1	0.5	0.0	0.3	1.1	0.5	0.2	0.1	0.6	0.2	1.9	1.4
Nuclear	7.3	4.9	7.3	6.1	7.1	7.1	7.3	5.6	7.0	6.2	7.2	7.2	25.6	27.1	27.7
Conventional hydropower	2.2	2.1	1.8	1.7	1.9	1.8	1.7	1.9	2.0	2.3	1.3	1.8	7.8	7.2	7.3
Nonhydro renewables (d)	2.6	2.7	2.4	2.6	2.8	2.9	2.7	2.9	3.0	3.1	2.8	3.0	10.3	11.2	11.9
Other energy sources (e)	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.4	1.4	1.5	1.5
Total generation	23.2	20.1	28.0	21.7	24.7	23.0	29.0	25.0	26.6	24.7	27.8	24.8	92.9	101.7	104.0
Net energy for load (f)	27.9	25.2	32.3	27.6	29.4	26.9	32.5	27.9	29.3	27.4	32.0	28.5	113.0	116.7	117.2
New York (NYISO)															
Natural Gas	12.4	11.4	20.6	12.8	12.8	14.0	20.0	14.1	14.4	14.4	20.1	14.9	57.1	60.9	63.8
Coal	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Nuclear	10.7	9.2	9.0	9.6	9.3	7.7	7.3	6.9	6.5	7.0	6.7	7.0	38.5	31.1	27.3
Conventional hydropower	8.0	8.0	7.8	7.6	7.3	7.2	7.3	7.4	7.1	7.1	7.0	7.2	31.4	29.3	28.4
Nonhydro renewables (d)	2.0	1.9	1.7	2.1	1.9	2.0	1.7	2.2	2.1	2.2	1.9	2.5	7.6	7.8	8.6
Other energy sources (e)	0.2	0.1	0.1	0.2	0.4	0.2	0.3	0.1	0.4	0.1	0.2	0.1	0.6	0.9	0.8
Total generation	33.4	30.6	39.2	32.2	31.7	31.0	36.6	30.8	30.5	30.9	35.9	31.6	135.4	130.0	128.9
Net energy for load (f)	35.3	32.4	42.9	34.7	36.6	34.7	43.4	36.5	37.2	36.1	43.1	37.0	145.3	151.2	153.4
Mid-Atlantic (PJM)															
Natural Gas	78.4	69.9	97.6	69.9	72.5	70.9	91.6	69.1	68.4	69.1	90.2	72.2	315.8	304.0	299.9
Coal	33.7	29.7	46.8	38.1	50.5	39.8	55.7	38.2	44.8	39.8	47.6	40.2	148.3	184.2	172.4
Nuclear	68.9	67.1	70.9	68.9	68.4	64.6	70.4	68.1	67.9	67.8	72.0	66.6	275.7	271.5	274.2
Conventional hydropower	3.1	2.9	2.1	1.9	2.7	2.4	2.1	2.2	2.6	2.7	1.6	2.1	9.9	9.4	9.0
Nonhydro renewables (d)	10.4	10.2	7.5	10.9	11.1	11.0	8.8	11.9	12.0	12.5	9.6	12.7	39.1	42.8	46.8
Other energy sources (e)	0.6	0.5	0.4	0.7	1.0	0.5	0.3	0.7	0.8	0.6	0.3	0.6	2.2	2.6	2.3
Total generation	195.1	180.2	225.3	190.5	206.2	189.3	229.0	190.1	196.6	192.4	221.3	194.3	791.1	814.6	804.6
Net energy for load (f)	182.5	163.5	209.3	177.0	194.4	177.8	214.4	181.3	193.3	178.6	207.8	184.4	732.4	767.9	764.2
Southeast (SERC)															
Natural Gas	61.9	59.1	74.7	58.5	57.6	57.2	73.1	57.0	49.9	55.1	71.8	55.9	254.2	244.8	232.8
Coal	23.8	22.1	44.4	28.0	36.3	33.7	45.4	34.0	38.4	35.9	49.1	36.1	118.3	149.4	159.4
Nuclear	53.0	50.5	54.1	52.5	53.8	50.9	54.6	52.1	51.7	52.6	56.9	54.8	210.1	211.4	216.0
Conventional hydropower	11.1	10.2	8.8	8.6	9.8	8.7	8.3	8.4	10.3	7.6	6.7	7.8	38.7	35.2	32.3
Nonhydro renewables (d)	3.4	5.0	5.0	3.9	4.0	5.9	5.3	4.2	4.4	6.9	6.4	4.7	17.4	19.4	22.5
Other energy sources (e)	-0.1	-0.3	-0.6	-0.2	0.0	-0.2	-0.5	-0.2	-0.1	-0.2	-0.6	-0.2	-1.1	-0.9	-1.0
Total generation	153.1	146.7	186.5	151.3	161.4	156.2	186.3	155.4	154.7	157.9	190.2	159.1	637.6	659.2	661.9
Net energy for load (f)	157.4	152.5	186.1	153.7	163.0	161.2	179.7	153.5	157.1	159.4	187.6	158.9	649.7	657.4	663.0
Florida (FRCC)															
Natural Gas	40.0	45.7	52.8	41.0	34.5	43.7	51.6	36.9	33.9	45.5	51.5	40.4	179.5	166.8	171.4
Coal	2.1	3.5	5.7	4.6	4.7	5.3	6.2	5.3	2.8	3.0	4.7	4.9	15.9	21.4	15.4
Nuclear	7.3	7.6	7.6	7.0	7.8	7.2	7.2	7.6	7.9	7.3	8.1	7.1	29.4	29.9	30.4
Conventional hydropower	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.2	0.2
Nonhydro renewables (d)	1.8	2.4	2.3	1.9	2.4	3.2	2.9	2.7	3.1	3.4	3.2	2.8	8.4	11.2	12.5
Other energy sources (e)	0.9	0.8	0.9	0.7	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7	3.3	2.9	3.1
Total generation	52.1	60.0	69.3	55.2	50.3	60.2	68.7	53.1	48.6	60.0	68.4	56.0	236.7	232.3	233.0
Net energy for load (f)	50.2	54.3	72.0	56.3	50.6	54.9	68.2	53.2	47.8	59.0	67.3	52.7	232.8	226.9	226.7

(a) Solar generation from large-scale power plants with more than 1 megawatt of capacity. Excludes generation from small-scale solar photovoltaic systems.

(b) Residual fuel oil, distillate fuel oil, petroleum coke, and other petroleum liquids.

(c) Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, nonrenewable waste, and miscellaneous technologies.

(d) Wind, large-scale solar, biomass, and geothermal

(e) Pumped storage hydroelectric, petroleum, other gases, batteries, and other nonrenewable fuels. See notes (b) and (c).

(f) Regional generation from generating units operated by electric power sector, plus energy receipts from minus energy deliveries to U.S. balancing authorities outside region.

Notes: EIA completed modeling and analysis for this report on November 4, 2021.

The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Data reflect generation supplied by power plants with a combined capacity of at least 1 megawatt operated by electric utilities and independent power producers.

Historical data: Latest data available from U.S. Energy Information Administration databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226; and *Electric Power Annual*, DOE/EIA-0348.

Table 7d part 2. U.S. Regional Electricity Generation, Electric Power Sector (billion kilowatthours), continued from Table 7d part 1
 U.S. Energy Information Administration | Short-Term Energy Outlook - November 2021

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Midwest (MISO)															
Natural Gas	43.9	43.2	53.4	37.7	34.5	40.2	49.3	33.6	31.0	37.7	48.8	33.0	178.3	157.6	150.5
Coal	51.0	41.1	68.5	57.8	69.7	60.1	81.7	64.4	71.1	60.6	74.8	61.5	218.4	275.9	268.1
Nuclear	26.6	22.9	24.4	21.2	23.6	22.6	25.2	23.0	23.8	22.2	23.7	23.0	95.1	94.3	92.7
Conventional hydropower	3.1	3.2	2.8	2.7	2.8	2.9	2.7	2.3	2.4	2.8	2.3	2.1	11.8	10.7	9.6
Nonhydro renewables (d)	20.8	20.1	16.2	24.2	24.3	23.2	18.7	27.9	26.5	25.2	20.0	28.8	81.3	94.1	100.4
Other energy sources (e)	1.4	1.3	1.3	1.2	1.8	1.3	1.5	1.1	1.7	1.4	1.5	1.0	5.2	5.8	5.6
Total generation	146.9	131.8	166.6	144.8	156.7	150.3	179.1	152.4	156.5	149.8	171.0	149.5	590.0	638.5	626.9
Net energy for load (f)	153.0	141.5	174.4	149.8	159.0	154.2	181.1	154.7	153.9	155.9	177.9	157.0	618.7	648.9	644.7
Central (Southwest Power Pool)															
Natural Gas	17.5	16.3	24.2	13.7	12.4	14.5	19.1	11.1	10.9	14.3	21.7	12.9	71.6	57.1	59.9
Coal	17.0	15.7	26.7	19.8	21.8	19.8	30.9	21.9	22.5	16.9	28.9	21.6	79.2	94.4	89.9
Nuclear	4.4	4.4	4.2	3.8	4.1	2.8	4.3	4.4	4.3	4.4	4.1	2.5	16.8	15.5	15.2
Conventional hydropower	5.9	6.0	5.1	4.8	5.3	5.1	4.7	3.6	3.6	4.3	3.9	3.1	21.8	18.7	15.0
Nonhydro renewables (d)	20.3	21.4	16.7	22.2	22.8	23.6	19.7	26.3	28.9	26.1	22.0	28.8	80.6	92.4	105.9
Other energy sources (e)	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.5	0.7	0.6
Total generation	65.2	63.9	77.0	64.4	66.7	65.9	78.7	67.4	70.5	66.1	80.8	69.2	270.5	278.8	286.5
Net energy for load (f)	62.8	63.7	74.7	60.9	64.7	66.2	76.4	62.5	65.3	65.4	79.8	66.0	262.1	269.7	276.6
Texas (ERCOT)															
Natural Gas	37.2	42.1	59.3	36.0	33.0	40.0	57.4	34.0	27.8	32.9	50.6	28.3	174.6	164.5	139.6
Coal	13.1	15.8	20.3	17.9	16.3	18.5	22.4	17.7	12.3	18.3	22.6	15.4	67.2	74.9	68.7
Nuclear	10.4	9.7	11.0	10.3	10.5	9.8	11.0	9.0	10.7	10.0	10.6	10.8	41.4	40.3	42.0
Conventional hydropower	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.1	1.1	0.9	0.7
Nonhydro renewables (d)	22.6	24.8	20.8	24.4	25.2	27.6	23.2	31.1	35.2	37.4	30.1	35.3	92.6	107.1	138.0
Other energy sources (e)	0.4	0.3	0.4	0.4	0.2	0.3	0.4	0.4	0.3	0.3	0.4	0.4	1.5	1.3	1.4
Total generation	84.1	93.1	112.1	89.1	85.6	96.5	114.6	92.4	86.6	99.1	114.3	90.3	378.4	389.0	390.3
Net energy for load (f)	84.1	93.1	112.1	89.1	85.6	96.5	114.6	92.4	86.6	99.1	114.3	90.3	378.4	389.0	390.3
Northwest															
Natural Gas	23.7	17.1	27.3	21.6	20.9	20.1	29.5	25.7	25.9	21.0	30.8	24.3	89.6	96.2	102.0
Coal	22.3	16.1	24.5	23.2	22.5	19.0	27.1	24.7	18.1	13.8	27.4	23.1	86.1	93.3	82.4
Nuclear	2.4	2.0	2.4	2.5	2.5	1.2	2.5	2.5	2.4	2.4	2.4	2.4	9.4	8.7	9.7
Conventional hydropower	35.0	38.7	32.4	29.9	34.3	32.0	26.7	26.3	32.8	40.5	30.3	27.6	136.0	119.2	131.3
Nonhydro renewables (d)	13.9	14.2	12.6	14.9	15.3	16.6	14.6	16.3	16.6	17.7	15.8	17.4	55.6	62.9	67.4
Other energy sources (e)	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.6	0.8	0.8
Total generation	97.5	88.3	99.4	92.2	95.6	89.2	100.6	95.6	96.0	95.6	107.0	95.0	377.4	381.0	393.7
Net energy for load (f)	91.3	81.6	94.8	87.6	88.4	84.1	97.2	91.1	89.1	85.9	96.6	90.1	355.3	360.9	361.7
Southwest															
Natural Gas	11.8	14.7	20.4	14.8	11.0	15.8	20.3	13.5	7.8	8.2	17.1	11.6	61.7	60.6	44.8
Coal	5.3	5.3	8.8	6.6	5.9	5.6	8.1	4.4	5.0	5.0	5.4	4.1	25.9	24.1	19.5
Nuclear	8.3	7.6	8.7	7.0	8.5	7.1	8.6	7.7	8.4	7.5	8.6	7.5	31.6	31.8	32.1
Conventional hydropower	2.7	4.0	3.7	2.5	2.5	3.3	3.1	2.1	2.6	3.9	3.8	2.6	12.8	11.0	12.9
Nonhydro renewables (d)	2.5	3.1	2.5	2.3	3.0	3.8	3.2	4.2	4.9	4.9	4.2	5.3	10.5	14.2	19.4
Other energy sources (e)	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.2	0.2	0.2
Total generation	30.5	34.8	44.2	33.1	30.8	35.7	43.4	32.0	28.9	29.6	39.4	31.1	142.7	142.0	129.0
Net energy for load (f)	20.6	24.4	34.4	20.6	19.5	25.6	31.9	20.5	18.7	24.3	31.9	20.9	100.0	97.5	95.8
California															
Natural Gas	16.7	12.6	27.0	23.6	16.6	17.4	28.8	20.6	13.6	13.7	26.2	20.2	79.9	83.4	73.7
Coal	1.4	1.2	2.1	2.0	1.8	1.4	2.6	2.1	1.7	1.2	2.0	2.2	6.7	7.9	7.1
Nuclear	4.8	4.9	4.5	2.1	2.9	4.2	5.0	4.3	4.6	3.8	4.4	4.0	16.3	16.5	16.7
Conventional hydropower	3.1	5.6	5.4	2.7	2.0	3.2	3.4	2.5	3.4	6.8	6.1	3.2	16.8	11.1	19.5
Nonhydro renewables (d)	14.3	18.9	18.1	14.4	15.5	20.9	18.6	15.0	15.9	21.7	19.6	16.0	65.8	69.9	73.1
Other energy sources (e)	0.0	0.1	0.1	0.1	0.0	-0.1	-0.1	0.2	0.0	-0.1	-0.1	0.3	0.2	0.0	0.1
Total generation	40.3	43.3	57.3	44.9	38.7	47.1	58.2	44.7	39.1	47.1	58.1	45.8	185.8	188.7	190.2
Net energy for load (f)	58.6	59.9	76.8	60.8	55.6	63.3	77.4	60.7	56.3	62.2	76.1	60.9	256.1	257.0	255.4

(a) Large-scale solar generation from power plants with more than 1 megawatt of capacity. Excludes generation from small-scale solar photovoltaic systems.

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