

Table 7a. U.S. Electricity Industry Overview

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

	2020				2021				2022				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2020	2021	2022
Electricity Supply (billion kilowatthours)															
Electricity Generation	966	933	1,148	962	989	984	1,157	975	986	1,002	1,158	988	4,009	4,104	4,133
Electric Power Sector (a)	925	896	1,109	923	952	948	1,116	936	947	964	1,116	949	3,853	3,952	3,976
Industrial Sector (b)	38	34	36	36	34	33	37	36	35	35	37	36	143	139	143
Commercial Sector (b)	3	3	4	3	3	3	4	3	3	3	4	3	13	13	14
Net Imports	10	11	15	12	11	12	14	10	11	12	14	11	47	46	49
Total Supply	976	944	1,163	973	999	996	1,170	985	997	1,014	1,172	999	4,056	4,150	4,182
Losses and Unaccounted for (c)	53	67	71	63	53	65	63	55	45	68	58	55	254	236	226
Electricity Consumption (billion kilowatthours unless noted)															
Retail Sales	887	844	1,057	876	914	898	1,072	896	918	912	1,078	909	3,664	3,780	3,817
Residential Sector	340	334	453	334	379	328	444	338	365	327	441	344	1,462	1,489	1,477
Commercial Sector	314	293	360	309	305	322	367	315	312	328	370	318	1,276	1,308	1,328
Industrial Sector	231	216	242	231	229	247	260	241	239	255	266	245	920	977	1,006
Transportation Sector	2	1	2	2	2	1	2	2	2	2	2	2	7	6	6
Direct Use (d)	36	33	35	34	33	32	36	35	34	33	36	35	138	135	139
Total Consumption	923	877	1,092	910	947	930	1,107	930	952	946	1,114	944	3,802	3,915	3,956
Average residential electricity usage per customer (kWh)	2,496	2,451	3,326	2,451	2,744	2,378	3,213	2,447	2,613	2,341	3,151	2,459	10,723	10,782	10,563
End-of-period Fuel Inventories Held by Electric Power Sector															
Coal (mmst)	145.2	150.4	129.1	132.7	111.8	111.2	77.5	61.3	50.1	57.7	48.4	51.8	132.7	61.3	51.8
Residual Fuel (mmb)	8.3	8.5	8.2	8.3	8.0	7.5	7.8	8.2	7.8	7.8	7.8	8.2	8.3	8.2	8.2
Distillate Fuel (mmb)	16.5	16.5	17.0	16.8	15.9	15.3	15.4	15.7	15.6	15.5	15.5	15.8	16.8	15.7	15.8
Prices															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	1.93	1.91	1.93	1.92	1.91	1.92	1.98	1.99	2.02	2.02	1.99	1.96	1.92	1.95	2.00
Natural Gas	2.39	2.08	2.26	2.87	7.26	3.27	4.16	4.42	4.76	3.53	3.42	3.56	2.39	4.69	3.75
Residual Fuel Oil	12.15	6.65	8.85	8.90	11.28	12.99	13.03	13.01	13.03	13.33	12.32	11.90	9.15	12.72	12.70
Distillate Fuel Oil	13.27	8.39	10.37	10.54	13.59	15.40	15.85	16.52	16.15	16.07	15.16	15.17	10.73	14.93	15.59
Retail Prices (cents per kilowatthour)															
Residential Sector	12.90	13.24	13.35	13.25	13.09	13.78	13.89	13.76	13.68	14.14	13.97	13.73	13.20	13.63	13.88
Commercial Sector	10.33	10.63	10.97	10.62	11.11	11.07	11.52	11.09	11.41	11.21	11.44	10.96	10.65	11.21	11.26
Industrial Sector	6.38	6.63	7.08	6.53	7.15	6.90	7.26	6.58	6.96	6.84	7.16	6.57	6.66	6.97	6.89
Wholesale Electricity Prices (dollars per megawatthour)															
ERCOT North hub	23.41	24.03	34.12	26.41	616.34	39.74	41.67	24.17	29.70	24.96	30.27	25.83	26.99	180.48	27.69
CAISO SP15 zone	28.64	19.21	61.94	42.80	44.74	36.90	54.28	17.49	18.03	17.56	19.92	17.00	38.15	38.35	18.13
ISO-NE Internal hub	24.61	20.25	27.20	34.03	55.26	33.67	53.32	52.61	54.31	53.80	56.46	49.52	26.52	48.71	53.52
NYISO Hudson Valley zone	21.82	18.13	24.38	27.05	44.74	31.85	48.44	45.95	49.03	46.74	49.05	43.16	22.85	42.74	46.99
PJM Western hub	22.47	20.79	28.24	26.44	35.09	33.71	45.02	35.49	37.47	33.35	37.52	32.55	24.49	37.33	35.23
Midcontinent ISO Illinois hub	24.43	23.00	29.35	24.94	44.97	33.82	43.47	33.38	34.75	32.10	34.84	30.49	25.43	38.91	33.04
SPP ISO South hub	20.06	19.54	26.27	24.34	250.31	30.86	41.15	26.35	27.51	26.93	30.40	25.04	22.55	87.17	27.47
SERC index, Into Southern	23.58	18.23	23.47	25.21	41.10	32.93	39.92	32.01	33.71	30.62	32.33	28.99	22.62	36.49	31.41
FRCC index, Florida Reliability	26.24	18.53	23.75	25.39	27.73	32.17	40.43	36.35	37.11	32.90	33.46	31.70	23.48	34.17	33.79
Northwest index, Mid-Columbia	22.77	14.49	33.56	31.00	34.56	51.51	69.08	15.91	19.36	16.81	19.09	16.94	25.46	42.76	18.05
Southwest index, Palo Verde	22.07	19.60	80.81	36.10	41.72	46.57	57.82	13.09	15.96	16.09	17.32	14.99	39.64	39.80	16.09

Notes: EIA completed modeling and analysis for this report on September 2, 2021.

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

kWh = kilowatthours. Btu = British thermal units.

Prices are not adjusted for inflation.

(a) Generation supplied by power plants with capacity of at least 1 megawatt operated by electric utilities and independent power producers.

(b) Generation supplied by power plants with capacity of at least 1 megawatt operated by businesses in the commercial and industrial sectors, primarily for onsite use.

(c) Includes transmission and distribution losses, data collection time-frame differences, and estimation error.

(d) Direct Use represents commercial and industrial facility use of onsite net electricity generation; and electrical sales or transfers to adjacent or collocated facilities for which revenue information is not available. See Table 7.6 of the EIA *Monthly Energy Review*.

Historical data sources:

(1) Electricity supply, consumption, fuel costs, and retail electricity prices: 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

(2) Wholesale electricity prices (except for PJM RTO price): S&P Global Market Intelligence, SNL Energy Data

(3) PJM ISO Western Hub wholesale electricity prices: PJM Data Miner website

Minor discrepancies with published historical data are due to independent rounding.

Forecasts: EIA Short-Term Integrated Forecasting System.