

Released: September 2025
Next MECS will be fielded in 2027

Table 11.4 Electricity: components of onsite generation, 2022

Level: National and regional data
Row: Values of shipments and employment sizes
Column: Onsite-generation components
Unit: Million kilowatthours

Economic characteristic ^a	Total onsite generation	Cogeneration ^b	Renewable energy (excluding wood and other biomass) ^c	Other ^d
Total United States				
Value of shipments and receipts (million dollars)				
Under 20	1,947	1,569	215	Q
20–49	3,140	2,971	157	12
50–99	6,897	6,271	314	Q
100–249	20,653	19,882	653	118
250–499	24,158	23,204	161	792
500 and over	94,571	92,266	775	1,530
Total	151,366	146,163	2,276	2,926
Employment size				
Under 50	7,186	6,548	274	Q
50–99	5,542	5,274	227	42
100–249	16,156	15,749	371	36
250–499	41,915	40,556	733	626
500–999	33,908	32,302	294	1,312
1,000 and over	46,659	45,735	378	546
Total	151,366	146,163	2,276	2,926
Northeast Census Region				
Value of shipments and receipts (million dollars)				
Under 20	300	221	78	2
20–49	134	101	Q	4
50–99	633	497	Q	33
100–249	10,918	10,662	253	3
250–499	2,391	2,350	Q	11
500 and over	3,768	3,709	Q	2
Total	18,144	17,539	549	56
Employment size				
Under 50	191	114	75	2
50–99	380	351	25	4
100–249	906	635	259	12
250–499	11,400	11,250	116	33
500–999	2,573	2,559	14	*
1,000 and over	2,695	2,630	Q	5
Total	18,144	17,539	549	56
Midwest Census Region				
Value of shipments and receipts (million dollars)				
Under 20	Q	Q	4	Q
20–49	286	254	Q	1
50–99	2,325	2,325	*	*
100–249	1,888	1,704	152	32
250–499	2,457	2,328	85	Q
500 and over	9,405	9,132	182	91
Total	17,085	16,457	454	175
Employment size				
Under 50	3,044	2,952	69	23

50-99	970	917	49	3
100-249	504	499	2	3
250-499	3,913	3,757	144	11
500-999	3,217	3,091	86	40
1,000 and over	5,437	5,240	103	94
Total	17,085	16,457	454	175

South Census Region

Value of shipments and receipts

(million dollars)

Under 20	596	476	Q	Q
20-49	2,630	2,556	Q	*
50-99	2,963	2,928	5	30
100-249	5,077	5,030	Q	Q
250-499	17,254	16,535	13	706
500 and over	71,429	69,886	381	1,162
Total	99,949	97,411	534	2,004

Employment size

Under 50	3,159	3,040	Q	Q
50-99	3,903	3,809	Q	28
100-249	11,703	11,677	23	3
250-499	20,862	20,167	226	470
500-999	25,472	24,286	Q	1,116
1,000 and over	34,849	34,432	132	285
Total	99,949	97,411	534	2,004

West Census Region

Value of shipments and receipts

(million dollars)

Under 20	326	158	116	Q
20-49	91	Q	24	Q
50-99	975	521	207	Q
100-249	2,770	2,486	204	80
250-499	2,056	1,991	Q	30
500 and over	9,969	9,540	154	275
Total	16,187	14,757	739	692

Employment size

Under 50	792	441	114	Q
50-99	289	197	Q	Q
100-249	3,043	2,938	86	Q
250-499	5,740	5,382	246	Q
500-999	2,645	2,366	Q	155
1,000 and over	3,677	3,432	83	163
Total	16,187	14,757	739	692

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2022 *Manufacturing Energy Consumption Survey*, and the Bureau of the Census, data files for the 2022 *Economic Census, Manufacturing – Industry Series*

Note: Totals may not equal sum of components because of independent rounding.

^a *Value of shipments and receipts and employment size* categories were supplied by the Bureau of the Census.

^b *Cogeneration* is the production of electrical energy and another form of useful energy, such as heat or steam, through the sequential use of energy. Cogeneration includes electricity generated from fossil fuels, such as natural gas, fuel oils, and coal; wood; and other biomass.

^c *Renewable energy* is energy obtained from essentially inexhaustible sources. Noncombustible sources include solar power, wind power, hydropower, and geothermal power.

^d *Other* is that electricity obtained from a generator fueled by combustible energy sources, such as diesel fuels and other fuel oils.

* Estimate less than 0.5

D=Withheld to avoid disclosing data for individual establishments

Q=Withheld because relative standard error (RSE) is greater than 50%

NA=Not available

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CBDRB-FY25-0054).

Released: September 2025
Next MECS will be fielded in 2027

RSE Table 11.4 Relative standard errors for Table 11.4

Unit: Percentage

Economic characteristic ^a	Total onsite generation	Cogeneration ^b	Renewable energy (excluding wood and other biomass) ^c	Other ^d
Total United States				
Value of shipments and receipts (million dollars)				
Under 20	22.6	26.9	23.4	69.0
20–49	3.8	3.3	43.7	37.1
50–99	6.5	6.1	36.9	55.9
100–249	3.1	3.1	15.8	7.6
250–499	1.6	1.6	16.0	6.2
500 and over	0.2	0.2	11.9	4.9
Total	0.7	0.6	8.8	7.7
Employment size				
Under 50	4.5	3.8	20.7	54.8
50–99	6.5	6.6	41.0	10.7
100–249	1.7	1.7	19.2	35.5
250–499	1.0	1.0	12.3	13.2
500–999	2.0	2.1	34.1	4.2
1,000 and over	0.4	0.4	19.6	6.5
Total	0.7	0.6	8.8	7.7
Northeast Census Region				
Value of shipments and receipts (million dollars)				
Under 20	29.9	38.3	38.8	18.8
20–49	16.1	4.7	73.3	0.6
50–99	35.6	43.5	62.6	0.0
100–249	0.4	0.4	2.8	4.8
250–499	13.6	13.8	60.6	19.0
500 and over	4.4	4.4	63.8	0.0
Total	2.4	2.5	15.5	4.0
Employment size				
Under 50	32.4	47.4	40.1	18.8
50–99	17.8	19.3	11.4	0.4
100–249	7.6	1.7	26.2	18.5
250–499	1.9	1.9	15.8	0.5
500–999	12.9	12.9	37.4	0.0
1,000 and over	6.2	6.2	61.7	0.3
Total	2.4	2.5	15.5	4.0
Midwest Census Region				
Value of shipments and receipts (million dollars)				
Under 20	55.4	56.1	44.5	92.9
20–49	15.6	15.4	68.5	14.2
50–99	11.5	11.5	72.1	0.0
100–249	29.8	32.9	21.4	27.7
250–499	6.1	6.3	0.0	79.8
500 and over	0.5	0.0	25.0	0.0
Total	4.4	4.6	13.2	21.3
Employment size				
Under 50	7.5	7.7	38.9	45.2
50–99	34.6	36.6	2.0	16.0
100–249	2.2	2.2	18.0	31.9
250–499	6.9	7.2	19.4	0.6

500-999	17.9	18.7	0.3	8.5
1,000 and over	1.1	0.3	44.3	37.8
Total	4.4	4.6	13.2	21.3

South Census Region

Value of shipments and receipts (million dollars)				
Under 20	22.0	17.6	78.9	98.2
20-49	3.9	3.2	83.6	69.7
50-99	3.9	3.9	46.1	0.3
100-249	2.4	2.4	56.2	61.0
250-499	0.6	0.6	36.7	4.7
500 and over	0.1	0.0	18.0	0.1
Total	0.3	0.2	18.0	5.3

Employment size

Under 50	4.2	2.9	85.2	98.3
50-99	1.6	0.2	91.0	0.0
100-249	0.5	0.5	41.0	7.3
250-499	1.0	1.0	13.4	7.1
500-999	0.2	0.1	79.7	0.1
1,000 and over	0.1	0.0	27.4	0.1
Total	0.3	0.2	18.0	5.3

West Census Region

Value of shipments and receipts (million dollars)				
Under 20	26.3	37.3	32.7	94.4
20-49	42.7	63.2	33.1	66.5
50-99	26.3	24.8	46.7	70.3
100-249	9.5	9.9	46.2	0.1
250-499	2.2	1.3	52.9	7.2
500 and over	0.9	0.3	14.1	27.5
Total	2.4	2.0	19.4	28.3

Employment size

Under 50	22.9	9.9	33.0	72.5
50-99	31.2	28.8	81.8	66.2
100-249	8.4	8.7	23.3	67.5
250-499	2.7	2.0	31.8	67.7
500-999	5.2	0.4	67.2	35.3
1,000 and over	1.6	1.2	32.8	1.3
Total	2.4	2.0	19.4	28.3

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2022 *Manufacturing Energy Consumption Survey*, and the Bureau of the Census, data files for the 2022 *Economic Census, Manufacturing – Industry Series*

Note: Totals may not equal sum of components because of independent rounding.

^a *Value of shipments and receipts* and *employment size* categories were supplied by the Bureau of the Census.

^b *Cogeneration* is the production of electrical energy and another form of useful energy, such as heat or steam, through the sequential use of energy. Cogeneration includes electricity generated from fossil fuels, such as natural gas, fuel oils, and coal; wood; and other biomass.

^c *Renewable energy* is energy obtained from essentially inexhaustible sources. Noncombustible sources include solar power, wind power, hydropower, and geothermal power.

^d *Other* is that electricity obtained from a generator fueled by combustible energy sources, such as diesel fuels and other fuel oils.

* Estimate less than 0.5

D=Withheld to avoid disclosing data for individual establishments

Q=Withheld because relative standard error (RSE) is greater than 50%

NA=Not available

X=Not defined because RSE corresponds to a data table value of zero

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CBDRB-FY25-0054).