

Next MECS will be fielded in 2027

Table 4.3 Offsite-produced fuel consumption, 2022

Level: National and regional data

Row: Values of shipments and employment sizes

Column: Energy sources

Unit: Trillion British thermal units (Btu)

economic characteristic ^a	Total	Electricity ^b	Residual fuel oil	Distillate fuel oil ^c	Natural gas ^d	HGL (excluding natural gasoline) ^e	Coal	Coke and breeze	Other ^f
Total United States									
Value of shipments and receipts (million dollars)									
Under 20	924	339	2	19	407	21	16	2	Q
20–49	885	241	*	7	443	8	37	5	143
50–99	1,376	372	*	13	700	7	90	6	188
100–249	1,846	564	3	13	1,041	11	101	13	99
250–499	1,585	359	3	7	987	3	46	4	177
500 and over	5,444	892	2	20	3,481	35	108	211	694
Total	12,060	2,769	10	78	7,058	85	398	240	1,422
Employment size									
Under 50	1,303	375	2	22	632	20	65	1	186
50–99	1,259	301	*	8	746	8	38	8	151
100–249	2,611	659	1	18	1,495	17	117	14	290
250–499	2,472	568	3	8	1,477	18	128	4	265
500–999	2,142	479	4	11	1,273	17	30	5	323
1,000 and over	2,273	387	*	11	1,435	5	21	208	207
Total	12,060	2,769	10	78	7,058	85	398	240	1,422
Northeast Census Region									
Value of shipments and receipts (million dollars)									
Under 20	189	35	*	4	62	4	5	0	Q
20–49	123	40	*	2	37	2	2	*	40
50–99	137	56	*	1	71	1	3	1	4
100–249	201	64	2	1	126	3	1	0	4
250–499	142	38	1	1	83	*	5	*	13
500 and over	235	47	1	1	152	2	0	9	23
Total	1,026	281	3	10	531	12	16	10	162
Employment size									
Under 50	232	34	D	5	65	D	6	0	Q
50–99	109	50	*	D	49	1	D	1	D
100–249	162	63	D	D	92	1	D	0	D
250–499	235	66	1	1	153	5	1	*	8
500–999	142	32	D	D	77	D	D	0	24
1,000 and over	146	35	0	1	95	*	0	9	7
Total	1,026	281	3	10	531	12	16	10	162
Midwest Census Region									
Value of shipments and receipts (million dollars)									
Under 20	292	103	*	4	159	6	6	2	13
20–49	333	86	*	1	172	2	16	2	Q
50–99	319	88	*	1	165	2	37	1	25
100–249	674	230	0	1	371	4	21	9	37
250–499	575	109	*	Q	410	1	23	3	26
500 and over	1,403	262	*	7	748	4	69	202	110
Total	3,595	878	*	17	2,027	20	172	218	264
Employment size									
Under 50	527	121	*	4	321	6	44	1	29
50–99	551	115	*	D	347	D	16	3	D
100–249	662	210	*	D	387	D	D	9	D
250–499	751	175	D	D	393	D	91	3	82
500–999	356	121	D	D	208	D	D	4	D
1,000 and over	749	135	*	D	370	3	*	198	D
Total	3,595	878	*	17	2,027	20	172	218	264

(million dollars)									
Under 20	311	160	1	7	120	8	5	0	10
20–49	320	85	*	3	192	2	7	2	29
50–99	688	172	*	Q	390	3	22	3	91
100–249	695	196	*	9	426	3	20	2	39
250–499	710	162	1	3	413	1	14	1	115
500 and over	3,298	502	1	11	2,222	18	39	*	504
Total	6,022	1,277	5	38	3,763	37	108	8	787

Employment size									
Under 50	390	174	D	6	177	D	5	0	18
50–99	481	102	*	4	299	D	D	4	56
100–249	1,385	287	0	12	869	D	D	D	170
250–499	1,139	253	D	5	725	2	16	D	137
500–999	1,439	279	2	D	853	14	18	1	D
1,000 and over	1,189	182	0	D	840	1	21	*	D
Total	6,022	1,277	5	38	3,763	37	108	8	787

West Census Region									
Value of shipments and receipts									
(million dollars)									
Under 20	133	41	*	4	65	3	0	0	Q
20–49	109	30	*	2	42	1	13	1	21
50–99	232	57	*	Q	74	Q	28	1	Q
100–249	276	75	1	2	118	1	58	2	19
250–499	157	50	*	1	81	1	3	*	22
500 and over	509	82	0	1	358	10	*	0	58
Total	1,416	334	2	13	737	16	103	3	208

Employment size									
Under 50	155	45	*	6	69	2	10	1	Q
50–99	118	34	0	2	49	D	9	*	D
100–249	401	99	D	D	147	D	64	D	D
250–499	347	74	D	D	206	D	19	D	38
500–999	205	46	*	1	136	D	2	*	D
1,000 and over	189	35	0	D	129	2	0	0	D
Total	1,416	334	2	13	737	16	103	3	208

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. The derived estimates presented in this table represent the consumption of energy originally produced offsite, acquired because of a purchase or transfer, and consumed onsite for the production of heat and power. This definition is consistent with the definition of *purchased* fuels and electric energy used by the Bureau of the Census in the preparation of *Fuels and Electric Energy Consumed* of the *Annual Survey of Manufactures*.

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

^b *Electricity* consists of quantities of electricity that were purchased or transferred in and is equivalent to *purchased electricity* as defined in the *Annual Survey of Manufactures*.

^c *Distillate fuel oil* includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

^d *Natural gas* includes natural gas obtained from utilities, local distribution companies, and any other suppliers, such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

^e Hydrocarbon gas liquids (HGLs) include ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas liquids (NGLs).

^f *Other* includes all other energy that was purchased or transferred in and not shown elsewhere.

* 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).

RSE Table 4.3 Relative standard errors for Table 4.3
Unit: Percentage

Economic characteristic ^a	Total	Electricity ^b	Residual fuel oil	Distillate fuel oil ^c	Natural gas ^d	HGL (excluding natural gasoline) ^e	Coal	Coke and breeze	Other ^f
Total United States									
Value of shipments and receipts (million dollars)									
Under 20	10.7	17.1	17.2	15.8	7.5	13.9	14.0	44.0	59.3
20–49	10.0	7.6	56.5	15.8	16.1	15.1	1.8	16.5	30.7
50–99	11.1	8.2	49.8	33.3	15.9	21.1	12.6	8.1	32.2
100–249	3.9	7.9	8.0	9.0	4.5	14.1	16.4	0.0	2.0
250–499	1.9	2.6	6.2	21.3	2.2	11.2	0.0	0.0	4.0
500 and over	1.6	2.4	0.0	2.9	2.0	0.9	0.0	0.0	0.7
Total	1.9	3.0	4.4	7.1	2.2	4.5	5.1	0.5	7.3
Employment size									
Under 50	7.6	15.3	16.4	17.1	5.2	14.1	3.4	10.3	38.4
50–99	6.0	8.2	0.0	13.7	6.7	14.3	0.0	13.7	29.5
100–249	7.3	7.5	7.7	19.8	9.6	9.5	17.2	3.0	20.6
250–499	1.9	3.9	8.8	5.6	2.2	8.7	0.2	3.4	3.3
500–999	1.1	2.0	3.8	3.9	1.3	1.8	0.1	0.0	0.8
1,000 and over	1.0	3.1	0.0	13.3	0.8	6.2	0.0	0.0	1.6
Total	1.9	3.0	4.4	7.1	2.2	4.5	5.1	0.5	7.3
Northeast Census Region									
Value of shipments and receipts (million dollars)									
Under 20	37.8	9.4	28.9	29.7	26.6	6.0	0.2	X	88.2
20–49	11.5	34.1	0.0	40.5	6.9	32.2	0.0	0.0	1.4
50–99	11.8	23.1	57.7	19.4	9.7	27.5	0.0	0.0	5.7
100–249	8.1	10.4	16.3	11.5	9.0	42.1	0.0	X	0.1
250–499	10.2	10.9	0.0	3.2	12.8	8.1	0.0	0.0	10.5
500 and over	2.8	6.8	0.0	0.1	1.4	5.4	X	0.0	12.1
Total	7.5	6.7	8.6	16.1	4.5	11.8	0.1	0.0	42.5
Employment size									
Under 50	30.8	8.6	D	27.3	25.5	D	0.1	X	59.1
50–99	16.0	30.5	0.0	D	14.1	46.5	D	0.0	D
100–249	6.6	10.6	D	D	6.2	13.9	D	X	D
250–499	6.9	8.5	45.1	8.7	7.4	27.1	0.0	0.0	16.8
500–999	6.9	11.1	D	D	9.5	D	D	X	0.1
1,000 and over	7.6	13.0	X	1.8	6.5	44.6	X	0.0	41.9
Total	7.5	6.7	8.6	16.1	4.5	11.8	0.1	0.0	42.5
Midwest Census Region									
Value of shipments and receipts (million dollars)									
Under 20	8.9	11.0	99.0	31.5	11.2	43.9	0.1	44.0	20.0
20–49	21.9	10.7	79.2	12.4	32.2	31.9	0.0	47.2	81.9
50–99	10.1	9.4	0.0	12.6	16.3	38.3	0.0	25.9	29.7
100–249	7.3	18.8	X	9.9	5.0	19.9	1.3	0.0	2.7
250–499	3.1	4.5	1.5	53.2	3.4	16.9	0.0	0.0	22.0
500 and over	1.1	2.9	0.0	7.2	1.3	5.0	0.0	0.0	0.4
Total	2.7	5.3	16.9	11.6	3.3	15.4	0.2	0.5	17.0
Employment size									
Under 50	5.5	8.3	74.7	28.2	7.4	45.5	0.1	20.1	11.1
50–99	9.4	14.4	0.0	D	4.9	D	0.0	39.4	D
100–249	10.6	19.5	0.0	D	14.1	D	D	0.0	D
250–499	4.4	5.0	D	D	6.8	D	0.3	4.3	8.9
500–999	4.2	5.1	D	D	4.8	D	D	0.0	D
1,000 and over	1.7	5.8	0.0	D	1.8	9.6	0.0	0.0	D
Total	2.7	5.3	16.9	11.6	3.3	15.4	0.2	0.5	17.0
South Census Region									
Value of shipments and receipts (million dollars)									
Under 20	19.3	35.5	23.2	27.5	12.9	10.5	0.0	X	14.0
20–49	15.0	8.7	85.7	23.1	23.5	21.5	9.6	0.0	4.4
50–99	16.0	12.9	0.0	53.8	27.3	32.7	1.8	14.2	2.1
100–249	6.5	4.7	0.0	12.9	9.8	13.0	0.0	0.0	4.5

250–499	2.4	3.4	11.2	2.6	3.0	8.6	0.0	0.0	3.4
500 and over	2.6	4.0	0.0	2.5	3.0	0.9	0.0	0.0	0.8
Total	2.8	5.1	7.1	10.6	3.8	4.2	2.1	5.2	0.8

Employment size

Under 50	14.9	32.5	D	28.3	6.3	D	0.0	X	9.9
50–99	10.6	9.0	0.0	22.2	15.6	D	D	0.0	4.8
100–249	10.4	8.2	X	28.4	15.2	D	D	D	1.1
250–499	2.5	7.6	D	9.0	1.8	12.1	0.3	D	3.2
500–999	1.0	1.9	8.7	D	1.3	1.3	0.1	0.0	D
1,000 and over	1.2	4.2	X	D	0.8	16.2	0.0	0.0	D
Total	2.8	5.1	7.1	10.6	3.8	4.2	2.1	5.2	0.8

West Census Region

Value of shipments and receipts

(million dollars)									
Under 20	17.4	10.9	43.1	39.6	16.7	18.9	X	X	92.9
20–49	8.2	12.1	41.7	24.7	13.0	38.3	0.0	0.0	17.9
50–99	43.2	25.2	0.0	58.0	21.7	55.0	40.3	0.0	88.0
100–249	7.5	6.8	0.0	0.7	3.7	17.9	28.3	0.0	0.1
250–499	4.8	8.9	0.0	7.1	4.5	45.1	0.0	0.0	1.0
500 and over	0.7	3.0	X	0.2	0.3	0.9	0.0	X	0.1
Total	7.4	5.0	4.7	21.4	2.8	5.1	19.6	0.0	30.2

Employment size

Under 50	14.8	9.3	40.7	45.1	15.3	19.0	0.0	0.0	85.1
50–99	6.0	11.9	X	24.9	6.2	D	0.0	0.0	D
100–249	25.5	15.0	D	D	11.5	D	31.6	D	D
250–499	2.1	5.6	D	D	2.1	D	0.0	D	0.5
500–999	3.1	8.2	0.0	1.4	2.2	D	0.0	0.0	D
1,000 and over	1.2	3.7	X	D	0.8	6.2	X	X	D
Total	7.4	5.0	4.7	21.4	2.8	5.1	19.6	0.0	30.2

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*

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^d *Natural gas* includes natural gas obtained from utilities, local distribution companies, and any other suppliers, such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

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^f *Other* includes all other energy that was purchased or transferred in and not shown elsewhere.

* 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: CDBRB-FY25-0054).