

Released: August 2025

Next MECS will be fielded in 2027

Table 11.3 Electricity: components of onsite generation, 2022

Level: National and regional data

Row: NAICS codes

Column: Onsite generation components

Unit: Million kilowatthours

NAICS code ^a	Subsector and industry	Total onsite generation	Cogeneration ^b	Renewable energy (excluding wood and other biomass) ^c	Other ^d
Total United States					
311	Food	7,372	6,808	90	475
3112	Grain and Oilseed Milling	4,122	4,117	5	*
311221	Wet Corn Milling and Starch Manufacturing	1,833	1,833	0	0
31131	Sugar Manufacturing	1,631	1,606	0	25
3114	Fruit and Vegetable Preserving and Specialty Food	748	689	57	2
3115	Dairy Product Manufacturing	325	321	3	1
3116	Animal Slaughtering and Processing	210	48	5	Q
312	Beverage and Tobacco Products	251	127	104	20
3121	Beverages	224	103	102	20
3122	Tobacco	27	24	2	1
313	Textile Mills	215	177	5	33
314	Textile Product Mills	Q	Q	*	0
315	Apparel	Q	Q	Q	0
316	Leather and Allied Products	2	Q	1	0
321	Wood Products	2,271	2,215	50	6
321113	Sawmills	1,603	1,596	3	4
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	407	405	Q	*
321219	Reconstituted Wood Products	252	252	0	*
3219	Other Wood Products	260	214	Q	1
322	Paper	47,281	45,831	350	1,099
322110	Pulp Mills	18,391	18,305	86	0
322120	Paper Mills	9,413	9,263	150	*
322130	Paperboard Mills	16,922	15,802	21	1,099
323	Printing and Related Support	Q	Q	Q	*
324	Petroleum and Coal Products	23,016	22,239	240	537
324110	Petroleum Refineries	21,719	20,981	234	504
324121	Asphalt Paving Mixture and Block	151	118	5	28
324122	Asphalt Shingle and Coating Materials	5	0	*	5
324191	Petroleum Lubricating Oil and Grease Manufacturing	5	4	1	*
324199	All Other Petroleum and Coal Products Manufacturing	1,136	1,136	0	0
325	Chemicals	60,426	59,772	259	395
325110	Petrochemicals	4,437	4,437	0	0
325120	Industrial Gases	3,806	3,806	0	*
325180	Other Basic Inorganic Chemical Manufacturing	13,553	13,552	0	1
325193	Ethyl Alcohol	821	702	85	34
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	1	*	1	*
325199	All Other Basic Organic Chemical Manufacturing	5,285	5,280	3	3
325211	Plastics Materials and Resins	27,324	27,283	20	21
325212	Synthetic Rubber	365	244	2	119
325220	Artificial and Synthetic Fibers and Filaments	179	179	*	0
325311	Nitrogenous Fertilizers	389	201	1	188
325312	Phosphatic Fertilizers	632	632	*	1
3254	Pharmaceuticals and Medicines	559	393	137	29
325412	Pharmaceutical Preparation	237	117	Q	25
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	2	2	0	*
326	Plastics and Rubber Products	910	822	Q	*
327	Nonmetallic Mineral Products	671	602	54	Q
327120	Clay Building Material and Refractories	*	0	*	*
327211	Flat Glass	Q	Q	1	*
327212	Other Pressed and Blown Glass and Glassware	Q	0	Q	*
327213	Glass Containers	47	47	0	0
327215	Glass Products from Purchased Glass	34	30	4	*
327310	Cements	29	0	29	*
327410	Lime	*	*	0	0
327420	Gypsum	217	213	3	1
327993	Mineral Wool	94	89	4	*
331	Primary Metals	4,920	4,891	17	11
331110	Iron and Steel Mills and Ferroalloys	3,997	3,997	*	*
3312	Steel Products from Purchased Steel	94	89	5	*
3313	Alumina and Aluminum Production and Processing	480	480	*	0
331314	Secondary Smelting and Alloying of Aluminum	16	16	*	0
331315	Aluminum Sheet, Plate and Foils	216	216	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	12	12	*	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	270	268	Q	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	171	171	*	0

3315	Foundries	78	58	10	11
331511	Iron Foundries	56	38	6	11
331523	Nonferrous Metal Die-Casting Foundries	Q	Q	*	*
331524	Aluminum Foundries, except Die-Casting	4	1	3	0
332	Fabricated Metal Products	348	206	Q	*
333	Machinery	476	Q	265	Q
334	Computer and Electronic Products	1,237	829	342	Q
334413	Semiconductors and Related Devices	584	432	152	*
335	Electrical Equip., Appliances, and Components	7	6	*	*
336	Transportation Equipment	1,152	Q	155	88
336110	Automobile and Light Duty Motor Vehicle Manufacturing	186	35	65	86
3364	Aerospace Product and Parts	296	267	29	1
336411	Aircraft	71	70	1	*
337	Furniture and Related Products	80	54	Q	Q
339	Miscellaneous	156	Q	47	*
	Total	151,366	146,163	2,276	2,926

Northeast Census Region

311	Food	111	90	21	*
3112	Grain and Oilseed Milling	*	0	0	*
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	51	31	20	0
3115	Dairy Product Manufacturing	Q	Q	*	*
3116	Animal Slaughtering and Processing	49	47	1	0
312	Beverage and Tobacco Products	45	28	Q	11
3121	Beverages	43	28	Q	11
3122	Tobacco	2	0	2	0
313	Textile Mills	211	177	2	33
314	Textile Product Mills	Q	Q	*	0
315	Apparel	Q	*	Q	0
316	Leather and Allied Products	*	0	*	0
321	Wood Products	154	136	Q	5
321113	Sawmills	16	11	Q	4
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	100	98	Q	0
321219	Reconstituted Wood Products	98	98	0	0
3219	Other Wood Products	Q	Q	Q	1
322	Paper	14,183	14,033	150	*
322110	Pulp Mills	D	D	63	0
322120	Paper Mills	3,095	3,091	3	*
322130	Paperboard Mills	170	166	4	0
323	Printing and Related Support	Q	Q	0	0
324	Petroleum and Coal Products	347	346	*	1
324110	Petroleum Refineries	344	344	0	0
324121	Asphalt Paving Mixture and Block	2	Q	0	1
324122	Asphalt Shingle and Coating Materials	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Manufacturing	1	*	*	0
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0
325	Chemicals	283	256	23	4
325110	Petrochemicals	0	0	0	0
325120	Industrial Gases	23	23	0	0
325180	Other Basic Inorganic Chemical Manufacturing	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	1	0	1	0
325199	All Other Basic Organic Chemical Manufacturing	15	14	0	*
325211	Plastics Materials and Resins	30	13	17	*
325212	Synthetic Rubber	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	*	0	*	0
325311	Nitrogenous Fertilizers	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0
3254	Pharmaceuticals and Medicines	214	206	4	4
325412	Pharmaceutical Preparation	33	32	1	0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	*	0	0	*
326	Plastics and Rubber Products	Q	Q	Q	*
327	Nonmetallic Mineral Products	112	97	15	*
327120	Clay Building Material and Refractories	*	0	*	0
327211	Flat Glass	*	0	*	0
327212	Other Pressed and Blown Glass and Glassware	Q	0	Q	*
327213	Glass Containers	0	0	0	0
327215	Glass Products from Purchased Glass	13	10	3	*
327310	Cements	0	0	0	0
327410	Lime	0	0	0	0
327420	Gypsum	90	87	3	0
327993	Mineral Wool	3	0	3	0
331	Primary Metals	771	769	2	*
331110	Iron and Steel Mills and Ferroalloys	659	659	0	*
3312	Steel Products from Purchased Steel	39	39	0	0
3313	Alumina and Aluminum Production and Processing	*	*	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	*	0	0

331315	Aluminum Sheet, Plate and Foils	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	36	34	Q	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0
3315	Foundries	38	37	1	0
331511	Iron Foundries	37	37	0	0
331523	Nonferrous Metal Die-Casting Foundries	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	1	0	1	0
332	Fabricated Metal Products	Q	Q	Q	0
333	Machinery	Q	*	Q	0
334	Computer and Electronic Products	415	225	190	0
334413	Semiconductors and Related Devices	369	225	144	0
335	Electrical Equip., Appliances, and Components	6	6	*	0
336	Transportation Equipment	259	250	Q	1
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0	0	0	0
3364	Aerospace Product and Parts	254	250	4	*
336411	Aircraft	71	70	*	*
337	Furniture and Related Products	0	0	0	0
339	Miscellaneous	Q	Q	Q	*
	Total	18,144	17,539	549	56

Midwest Census Region

311	Food	4,059	4,036	19	4
3112	Grain and Oilseed Milling	3,745	3,745	0	0
311221	Wet Corn Milling and Starch Manufacturing	1,743	1,743	0	0
31131	Sugar Manufacturing	279	279	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	17	0	15	2
3115	Dairy Product Manufacturing	1	0	1	1
3116	Animal Slaughtering and Processing	4	*	3	1
312	Beverage and Tobacco Products	1	0	1	0
3121	Beverages	1	0	1	0
3122	Tobacco	0	0	0	0
313	Textile Mills	0	0	0	0
314	Textile Product Mills	0	0	0	0
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	88	Q	Q	*
321113	Sawmills	Q	Q	*	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	6	6	0	*
321219	Reconstituted Wood Products	*	0	0	*
3219	Other Wood Products	Q	Q	Q	*
322	Paper	3,945	3,749	196	*
322110	Pulp Mills	D	D	23	0
322120	Paper Mills	2,331	2,189	143	0
322130	Paperboard Mills	334	317	17	*
323	Printing and Related Support	Q	Q	0	0
324	Petroleum and Coal Products	2,043	2,043	Q	*
324110	Petroleum Refineries	1,267	1,267	0	0
324121	Asphalt Paving Mixture and Block	117	117	*	0
324122	Asphalt Shingle and Coating Materials	*	0	*	*
324191	Petroleum Lubricating Oil and Grease Manufacturing	3	3	0	0
324199	All Other Petroleum and Coal Products Manufacturing	656	656	0	0
325	Chemicals	1,997	1,878	100	19
325110	Petrochemicals	0	0	0	0
325120	Industrial Gases	0	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	*	*	0	*
325193	Ethyl Alcohol	804	702	85	Q
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0	0	0	0
325199	All Other Basic Organic Chemical Manufacturing	1	0	0	1
325211	Plastics Materials and Resins	812	812	*	*
325212	Synthetic Rubber	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0
325311	Nitrogenous Fertilizers	2	2	*	0
325312	Phosphatic Fertilizers	0	0	0	0
3254	Pharmaceuticals and Medicines	97	83	13	1
325412	Pharmaceutical Preparation	7	0	7	1
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	0	0
326	Plastics and Rubber Products	Q	0	Q	0
327	Nonmetallic Mineral Products	Q	Q	Q	*
327120	Clay Building Material and Refractories	*	0	*	0
327211	Flat Glass	*	0	*	*
327212	Other Pressed and Blown Glass and Glassware	*	0	0	*
327213	Glass Containers	0	0	0	0
327215	Glass Products from Purchased Glass	18	18	0	*
327310	Cements	0	0	0	0
327410	Lime	0	0	0	0
327420	Gypsum	44	44	0	0
327993	Mineral Wool	0	0	0	0
331	Primary Metals	3,404	3,385	8	11

331110	Iron and Steel Mills and Ferroalloys	3,339	3,339	*	*
3312	Steel Products from Purchased Steel	24	24	*	*
3313	Alumina and Aluminum Production and Processing	17	17	0	0
331314	Secondary Smelting and Alloying of Aluminum	16	16	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	Q	Q	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0
3315	Foundries	24	Q	8	11
331511	Iron Foundries	17	0	6	11
331523	Nonferrous Metal Die-Casting Foundries	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	2	*	2	0
332	Fabricated Metal Products	40	40	0	*
333	Machinery	107	Q	Q	Q
334	Computer and Electronic Products	Q	Q	Q	0
334413	Semiconductors and Related Devices	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	0	0	*
336	Transportation Equipment	Q	Q	Q	67
336110	Automobile and Light Duty Motor Vehicle Manufacturing	68	*	1	67
3364	Aerospace Product and Parts	Q	Q	*	0
336411	Aircraft	0	0	0	0
337	Furniture and Related Products	42	36	*	Q
339	Miscellaneous	Q	Q	*	0
	Total	17,085	16,457	454	175

South Census Region

311	Food	2,405	2,341	Q	Q
3112	Grain and Oilseed Milling	366	366	0	0
311221	Wet Corn Milling and Starch Manufacturing	89	89	0	0
31131	Sugar Manufacturing	1,190	1,189	0	1
3114	Fruit and Vegetable Preserving and Specialty Food	584	584	*	0
3115	Dairy Product Manufacturing	203	203	0	0
3116	Animal Slaughtering and Processing	Q	0	Q	Q
312	Beverage and Tobacco Products	92	58	Q	1
3121	Beverages	67	Q	Q	0
3122	Tobacco	25	24	*	1
313	Textile Mills	2	0	2	0
314	Textile Product Mills	Q	Q	0	0
315	Apparel	Q	Q	0	0
316	Leather and Allied Products	Q	Q	*	0
321	Wood Products	422	417	4	*
321113	Sawmills	66	65	2	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	217	216	Q	*
321219	Reconstituted Wood Products	154	154	0	*
3219	Other Wood Products	138	136	2	0
322	Paper	26,630	25,529	2	1,099
322110	Pulp Mills	D	D	0	0
322120	Paper Mills	3,239	3,237	2	0
322130	Paperboard Mills	15,149	14,050	*	1,099
323	Printing and Related Support	Q	Q	0	*
324	Petroleum and Coal Products	12,837	12,286	167	384
324110	Petroleum Refineries	12,329	11,805	167	357
324121	Asphalt Paving Mixture and Block	28	*	1	28
324122	Asphalt Shingle and Coating Materials	*	0	0	*
324191	Petroleum Lubricating Oil and Grease Manufacturing	0	0	0	0
324199	All Other Petroleum and Coal Products Manufacturing	480	480	0	0
325	Chemicals	55,782	55,427	22	333
325110	Petrochemicals	4,437	4,437	0	0
325120	Industrial Gases	2,396	2,396	0	*
325180	Other Basic Inorganic Chemical Manufacturing	13,004	13,003	0	1
325193	Ethyl Alcohol	0	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	*	*	0	*
325199	All Other Basic Organic Chemical Manufacturing	5,266	5,266	*	0
325211	Plastics Materials and Resins	26,480	26,459	Q	21
325212	Synthetic Rubber	364	244	1	119
325220	Artificial and Synthetic Fibers and Filaments	179	179	0	0
325311	Nitrogenous Fertilizers	387	199	0	188
325312	Phosphatic Fertilizers	461	461	*	*
3254	Pharmaceuticals and Medicines	23	1	Q	4
325412	Pharmaceutical Preparation	7	1	3	4
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	2	2	0	0
326	Plastics and Rubber Products	Q	Q	Q	0
327	Nonmetallic Mineral Products	147	145	*	1
327120	Clay Building Material and Refractories	0	0	0	0
327211	Flat Glass	Q	Q	*	*
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0
327213	Glass Containers	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0
327310	Cements	0	0	0	0

327410	Lime	*	*	0	0
327420	Gypsum	53	52	0	1
327993	Mineral Wool	89	89	0	*
331	Primary Metals	614	611	Q	*
331110	Iron and Steel Mills and Ferroalloys	*	*	0	*
3312	Steel Products from Purchased Steel	29	26	Q	0
3313	Alumina and Aluminum Production and Processing	452	452	*	0
331314	Secondary Smelting and Alloying of Aluminum	*	0	*	0
331315	Aluminum Sheet, Plate and Foils	216	216	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	131	131	0	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	69	69	0	0
3315	Foundries	2	2	*	*
331511	Iron Foundries	1	1	0	0
331523	Nonferrous Metal Die-Casting Foundries	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	*	0	0
332	Fabricated Metal Products	Q	Q	Q	0
333	Machinery	256	Q	Q	Q
334	Computer and Electronic Products	Q	Q	Q	*
334413	Semiconductors and Related Devices	Q	Q	0	*
335	Electrical Equip., Appliances, and Components	*	0	0	*
336	Transportation Equipment	172	65	87	20
336110	Automobile and Light Duty Motor Vehicle Manufacturing	117	35	63	19
3364	Aerospace Product and Parts	28	4	24	1
336411	Aircraft	*	0	*	*
337	Furniture and Related Products	Q	Q	0	0
339	Miscellaneous	Q	Q	*	*
	Total	99,949	97,411	534	2,004

West Census Region

311	Food	797	340	49	409
3112	Grain and Oilseed Milling	12	7	5	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0
31131	Sugar Manufacturing	162	138	0	24
3114	Fruit and Vegetable Preserving and Specialty Food	Q	Q	22	0
3115	Dairy Product Manufacturing	120	117	2	Q
3116	Animal Slaughtering and Processing	Q	*	0	Q
312	Beverage and Tobacco Products	113	41	63	8
3121	Beverages	113	41	63	8
3122	Tobacco	0	0	0	0
313	Textile Mills	Q	*	Q	0
314	Textile Product Mills	0	0	0	0
315	Apparel	Q	0	Q	0
316	Leather and Allied Products	1	0	1	0
321	Wood Products	1,608	1,597	Q	0
321113	Sawmills	1,512	1,512	0	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	84	84	0	0
321219	Reconstituted Wood Products	0	0	0	0
3219	Other Wood Products	Q	0	Q	0
322	Paper	2,523	2,521	2	0
322110	Pulp Mills	99	99	0	0
322120	Paper Mills	748	746	2	0
322130	Paperboard Mills	1,269	1,269	0	0
323	Printing and Related Support	Q	Q	Q	0
324	Petroleum and Coal Products	7,789	7,565	71	152
324110	Petroleum Refineries	7,779	7,565	67	147
324121	Asphalt Paving Mixture and Block	4	*	4	0
324122	Asphalt Shingle and Coating Materials	5	0	*	5
324191	Petroleum Lubricating Oil and Grease Manufacturing	*	0	*	*
324199	All Other Petroleum and Coal Products Manufacturing	0	0	0	0
325	Chemicals	2,363	2,209	Q	40
325110	Petrochemicals	0	0	0	0
325120	Industrial Gases	1,387	1,387	0	0
325180	Other Basic Inorganic Chemical Manufacturing	549	549	0	0
325193	Ethyl Alcohol	17	0	0	17
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0	0	0	0
325199	All Other Basic Organic Chemical Manufacturing	5	0	3	Q
325211	Plastics Materials and Resins	1	0	1	*
325212	Synthetic Rubber	1	0	1	0
325220	Artificial and Synthetic Fibers and Filaments	0	0	0	0
325311	Nitrogenous Fertilizers	*	*	*	0
325312	Phosphatic Fertilizers	171	171	0	1
3254	Pharmaceuticals and Medicines	225	Q	Q	21
325412	Pharmaceutical Preparation	190	Q	Q	21
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0	0	0	0
326	Plastics and Rubber Products	Q	Q	Q	*
327	Nonmetallic Mineral Products	130	80	36	Q
327120	Clay Building Material and Refractories	*	0	0	*
327211	Flat Glass	0	0	0	0

327212	Other Pressed and Blown Glass and Glassware	0	0	0	0
327213	Glass Containers	47	47	0	0
327215	Glass Products from Purchased Glass	3	2	1	*
327310	Cements	29	0	29	*
327410	Lime	*	*	0	0
327420	Gypsum	31	31	0	*
327993	Mineral Wool	1	*	1	0
331	Primary Metals	131	127	4	0
331110	Iron and Steel Mills and Ferroalloys	*	*	0	0
3312	Steel Products from Purchased Steel	Q	0	Q	0
3313	Alumina and Aluminum Production and Processing	12	11	*	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	12	11	*	0
3314	Nonferrous Metal (except Aluminum) Production and Processing	102	102	*	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	102	102	*	0
3315	Foundries	14	13	1	0
331511	Iron Foundries	*	*	*	0
331523	Nonferrous Metal Die-Casting Foundries	Q	Q	*	0
331524	Aluminum Foundries, except Die-Casting	1	0	1	0
332	Fabricated Metal Products	Q	Q	Q	0
333	Machinery	Q	Q	Q	Q
334	Computer and Electronic Products	364	Q	Q	Q
334413	Semiconductors and Related Devices	Q	Q	8	*
335	Electrical Equip., Appliances, and Components	*	0	*	0
336	Transportation Equipment	Q	0	Q	*
336110	Automobile and Light Duty Motor Vehicle Manufacturing	1	0	1	*
3364	Aerospace Product and Parts	1	0	1	0
336411	Aircraft	0	0	0	0
337	Furniture and Related Products	Q	Q	Q	0
339	Miscellaneous	Q	Q	Q	*
	Total	16,187	14,757	739	692

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2022 Manufacturing Energy Consumption Survey

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

^a The Bureau of the Census classifies establishments using the 2022 North American Industry Classification System (NAICS).

^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).

RSE Table 11.3 Relative standard errors for table 11.3
Unit: Percentage

NAICS code ^a	Subsector and industry	Total onsite generation	Cogeneration ^b	Renewable energy (excluding wood and other biomass) ^c	Other ^d
Total United States					
311	Food	2.8	1.2	21.5	40.2
3112	Grain and Oilseed Milling	0.6	0.6	43.3	64.5
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	X	X
31131	Sugar Manufacturing	0.0	0.0	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	9.3	10.1	16.2	46.9
3115	Dairy Product Manufacturing	7.5	7.6	14.0	32.9
3116	Animal Slaughtering and Processing	39.4	5.7	28.9	52.6
312	Beverage and Tobacco Products	12.5	18.8	19.5	10.7
3121	Beverages	14.0	23.2	19.9	11.0
3122	Tobacco	0.0	0.0	0.0	0.0
313	Textile Mills	0.6	0.1	25.1	0.0
314	Textile Product Mills	73.7	73.8	99.3	X
315	Apparel	70.5	69.2	86.8	X
316	Leather and Allied Products	46.8	96.4	30.8	X
321	Wood Products	2.3	2.1	48.6	5.8
321113	Sawmills	0.7	0.7	20.8	4.0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	1.2	1.2	70.1	0.0
321219	Reconstituted Wood Products	1.8	1.8	X	0.0
3219	Other Wood Products	19.2	20.6	53.5	22.3
322	Paper	0.6	0.6	18.4	0.0
322110	Pulp Mills	0.0	0.0	0.0	X
322120	Paper Mills	0.0	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0	0.0
323	Printing and Related Support	62.5	65.9	99.0	98.5
324	Petroleum and Coal Products	0.1	0.1	0.3	0.0
324110	Petroleum Refineries	0.0	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	9.4	12.0	14.4	0.0
324122	Asphalt Shingle and Coating Materials	0.0	X	0.0	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	11.3	14.1	0.0	0.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	X
325	Chemicals	0.5	0.5	25.6	2.2
325110	Petrochemicals	0.0	0.0	X	X
325120	Industrial Gases	0.0	0.0	X	0.0
325180	Other Basic Inorganic Chemical Manufacturing	0.1	0.1	X	0.0
325193	Ethyl Alcohol	6.6	7.2	19.3	25.6
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	0.0
325199	All Other Basic Organic Chemical Manufacturing	1.8	1.8	0.0	46.6
325211	Plastics Materials and Resins	0.1	0.1	3.0	0.2
325212	Synthetic Rubber	0.0	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	X
325311	Nitrogenous Fertilizers	0.0	0.0	0.0	0.0
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	14.7	14.0	46.9	1.0
325412	Pharmaceutical Preparation	34.0	46.5	66.3	0.6
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	X	0.0
326	Plastics and Rubber Products	41.5	45.2	70.1	93.6
327	Nonmetallic Mineral Products	32.2	35.8	10.6	84.4
327120	Clay Building Material and Refractories	0.0	X	0.0	0.0
327211	Flat Glass	73.0	85.3	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	70.7	X	73.5	0.0
327213	Glass Containers	0.0	0.0	X	X
327215	Glass Products from Purchased Glass	3.5	3.8	7.0	3.6
327310	Cements	0.0	X	0.0	0.0
327410	Lime	0.0	0.0	X	X
327420	Gypsum	0.0	0.0	0.0	0.0
327993	Mineral Wool	0.0	0.0	0.0	0.0
331	Primary Metals	1.0	1.0	16.7	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	18.4	19.3	48.0	0.0
3313	Alumina and Aluminum Production and Processing	0.2	0.1	85.6	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	X	X

331318	Other Aluminum Rolling, Drawing and Extruding	6.4	5.9	87.7	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	16.7	16.8	53.2	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0	X
3315	Foundries	6.6	8.9	9.7	0.0
331511	Iron Foundries	1.8	0.8	15.0	0.0
331523	Nonferrous Metal Die-Casting Foundries	56.8	59.2	28.9	0.0
331524	Aluminum Foundries, except Die-Casting	7.2	38.4	0.0	X
332	Fabricated Metal Products	31.6	37.8	55.3	69.9
333	Machinery	30.1	70.7	35.0	61.5
334	Computer and Electronic Products	31.4	43.6	26.8	82.4
334413	Semiconductors and Related Devices	23.1	30.6	2.1	0.0
335	Electrical Equip., Appliances, and Components	4.5	0.0	71.3	65.7
336	Transportation Equipment	48.7	61.6	27.4	0.5
336110	Automobile and Light Duty Motor Vehicle Manufacturing	7.4	0.0	21.4	0.0
3364	Aerospace Product and Parts	3.6	4.0	1.3	12.8
336411	Aircraft	0.0	0.0	0.0	0.0
337	Furniture and Related Products	33.1	38.7	75.7	96.5
339	Miscellaneous	49.0	61.0	48.2	74.5
	Total	0.7	0.6	8.8	7.7

Northeast Census Region					
311	Food	10.4	12.9	2.4	62.4
3112	Grain and Oilseed Milling	64.5	X	X	64.5
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X
31131	Sugar Manufacturing	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	7.4	12.2	0.0	X
3115	Dairy Product Manufacturing	87.8	87.8	87.8	0.0
3116	Animal Slaughtering and Processing	5.7	5.8	44.9	X
312	Beverage and Tobacco Products	9.2	0.0	61.5	19.1
3121	Beverages	9.6	0.0	97.2	19.1
3122	Tobacco	0.0	X	0.0	X
313	Textile Mills	0.0	0.0	0.0	0.0
314	Textile Product Mills	98.8	99.3	99.3	X
315	Apparel	99.1	99.3	99.1	X
316	Leather and Allied Products	75.4	X	75.4	X
321	Wood Products	17.7	18.9	74.1	6.2
321113	Sawmills	3.6	0.5	59.8	4.0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	4.6	4.5	92.0	X
321219	Reconstituted Wood Products	4.5	4.5	X	X
3219	Other Wood Products	70.9	94.7	89.7	28.9
322	Paper	0.5	0.1	43.0	0.0
322110	Pulp Mills	D	D	0.0	X
322120	Paper Mills	0.0	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0	X
323	Printing and Related Support	96.6	96.6	X	X
324	Petroleum and Coal Products	0.2	0.2	0.0	0.0
324110	Petroleum Refineries	0.0	0.0	X	X
324121	Asphalt Paving Mixture and Block	36.2	50.1	X	0.0
324122	Asphalt Shingle and Coating Materials	0.0	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	0.0	0.0	0.0	X
324199	All Other Petroleum and Coal Products Manufacturing	X	X	X	X
325	Chemicals	0.1	0.1	0.0	4.4
325110	Petrochemicals	X	X	X	X
325120	Industrial Gases	0.0	0.0	X	X
325180	Other Basic Inorganic Chemical Manufacturing	X	X	X	X
325193	Ethyl Alcohol	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	0.0	X
325199	All Other Basic Organic Chemical Manufacturing	0.1	0.0	X	65.6
325211	Plastics Materials and Resins	0.0	0.0	0.0	0.0
325212	Synthetic Rubber	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	0.0	X
325311	Nitrogenous Fertilizers	X	X	X	X
325312	Phosphatic Fertilizers	X	X	X	X
3254	Pharmaceuticals and Medicines	0.1	0.1	0.0	4.6
325412	Pharmaceutical Preparation	0.1	0.1	0.0	X
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	X	X	0.0
326	Plastics and Rubber Products	51.4	51.8	56.2	92.4
327	Nonmetallic Mineral Products	3.2	1.0	22.4	40.2
327120	Clay Building Material and Refractories	0.0	X	0.0	X
327211	Flat Glass	0.0	X	0.0	X
327212	Other Pressed and Blown Glass and Glassware	73.5	X	73.5	0.0
327213	Glass Containers	X	X	X	X
327215	Glass Products from Purchased Glass	7.4	9.7	8.2	79.7

327310	Cements	X	X	X	X
327410	Lime	X	X	X	X
327420	Gypsum	0.0	0.0	0.0	X
327993	Mineral Wool	0.0	X	0.0	X
331	Primary Metals	2.2	2.2	39.8	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	X	0.0
3312	Steel Products from Purchased Steel	44.2	44.2	X	X
3313	Alumina and Aluminum Production and Processing	0.0	0.0	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	X
331315	Aluminum Sheet, Plate and Foils	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	X	X	X	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	2.3	0.0	55.7	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	X	X	X
3315	Foundries	0.0	0.0	0.0	X
331511	Iron Foundries	0.0	0.0	X	X
331523	Nonferrous Metal Die-Casting Foundries	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	0.0	X	0.0	X
332	Fabricated Metal Products	60.1	70.4	72.3	X
333	Machinery	73.0	0.0	73.1	X
334	Computer and Electronic Products	6.6	0.0	14.4	X
334413	Semiconductors and Related Devices	0.0	0.0	0.0	X
335	Electrical Equip., Appliances, and Components	0.8	0.0	92.6	X
336	Transportation Equipment	1.6	0.0	51.0	1.0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	X	X	X	X
3364	Aerospace Product and Parts	0.1	0.0	0.0	3.8
336411	Aircraft	0.0	0.0	0.0	0.0
337	Furniture and Related Products	X	X	X	X
339	Miscellaneous	69.5	87.8	68.9	99.0
	Total	2.4	2.5	15.5	4.0

Midwest Census Region

311	Food	0.3	0.3	2.0	26.2
3112	Grain and Oilseed Milling	0.0	0.0	X	X
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	X	X
31131	Sugar Manufacturing	0.0	0.0	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	5.5	X	0.0	46.9
3115	Dairy Product Manufacturing	26.0	X	49.7	7.7
3116	Animal Slaughtering and Processing	11.5	0.1	0.1	38.4
312	Beverage and Tobacco Products	16.7	X	16.7	X
3121	Beverages	16.7	X	16.7	X
3122	Tobacco	X	X	X	X
313	Textile Mills	X	X	X	X
314	Textile Product Mills	X	X	X	X
315	Apparel	X	X	X	X
316	Leather and Allied Products	X	X	X	X
321	Wood Products	47.7	55.3	96.1	2.5
321113	Sawmills	82.7	83.1	0.0	0.0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	26.9	27.1	X	0.0
321219	Reconstituted Wood Products	0.0	X	X	0.0
3219	Other Wood Products	56.3	69.7	96.3	2.9
322	Paper	3.7	3.9	2.7	0.0
322110	Pulp Mills	D	D	0.0	X
322120	Paper Mills	0.0	0.0	0.0	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0
323	Printing and Related Support	92.6	92.6	X	X
324	Petroleum and Coal Products	0.7	0.7	60.2	0.0
324110	Petroleum Refineries	0.0	0.0	X	X
324121	Asphalt Paving Mixture and Block	12.1	12.2	75.6	X
324122	Asphalt Shingle and Coating Materials	0.0	X	0.0	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	16.3	16.3	X	X
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	X
325	Chemicals	13.8	14.6	16.6	46.8
325110	Petrochemicals	X	X	X	X
325120	Industrial Gases	X	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	0.0	0.0	X	0.0
325193	Ethyl Alcohol	6.8	7.2	19.3	51.1
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X
325199	All Other Basic Organic Chemical Manufacturing	0.0	X	X	0.0
325211	Plastics Materials and Resins	4.5	4.5	65.7	0.0
325212	Synthetic Rubber	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	0.0	0.0	X
325312	Phosphatic Fertilizers	X	X	X	X

3254	Pharmaceuticals and Medicines	1.7	0.0	12.8	19.9
325412	Pharmaceutical Preparation	22.9	X	25.4	19.9
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	X	X	X	X
326	Plastics and Rubber Products	91.7	X	91.7	X
327	Nonmetallic Mineral Products	76.4	76.9	78.7	0.0
327120	Clay Building Material and Refractories	0.0	X	0.0	X
327211	Flat Glass	0.0	X	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	0.0	X	X	0.0
327213	Glass Containers	X	X	X	X
327215	Glass Products from Purchased Glass	0.0	0.0	X	0.0
327310	Cements	X	X	X	X
327410	Lime	X	X	X	X
327420	Gypsum	0.0	0.0	X	X
327993	Mineral Wool	X	X	X	X
331	Primary Metals	0.2	0.2	11.3	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	0.0	0.0	0.0	0.0
3313	Alumina and Aluminum Production and Processing	4.3	4.3	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	X
331315	Aluminum Sheet, Plate and Foils	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	78.3	78.3	X	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	X	X	X	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	X	X	X
3315	Foundries	21.0	90.6	12.0	0.0
331511	Iron Foundries	5.6	X	15.5	0.0
331523	Nonferrous Metal Die-Casting Foundries	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	7.7	47.3	0.0	X
332	Fabricated Metal Products	45.5	45.7	X	69.9
333	Machinery	42.2	98.6	77.4	53.2
334	Computer and Electronic Products	91.3	98.5	98.5	X
334413	Semiconductors and Related Devices	X	X	X	X
335	Electrical Equip., Appliances, and Components	89.9	X	X	89.9
336	Transportation Equipment	79.9	94.3	90.4	0.0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.0	0.0	0.0	0.0
3364	Aerospace Product and Parts	81.2	81.2	86.2	X
336411	Aircraft	X	X	X	X
337	Furniture and Related Products	43.6	48.4	99.0	96.5
339	Miscellaneous	89.8	99.0	99.0	X
	Total	4.4	4.6	13.2	21.3

South Census Region					
311	Food	2.0	1.5	83.6	54.0
3112	Grain and Oilseed Milling	6.6	6.6	X	X
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	X	X
31131	Sugar Manufacturing	0.0	0.0	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	0.1	0.0	25.4	X
3115	Dairy Product Manufacturing	12.1	12.1	X	X
3116	Animal Slaughtering and Processing	54.3	X	94.8	55.6
312	Beverage and Tobacco Products	30.5	36.7	55.1	0.0
3121	Beverages	41.8	62.7	55.4	X
3122	Tobacco	0.0	0.0	0.0	0.0
313	Textile Mills	35.3	X	35.3	X
314	Textile Product Mills	96.1	96.1	X	X
315	Apparel	69.4	69.4	X	X
316	Leather and Allied Products	83.1	96.4	57.8	X
321	Wood Products	2.9	3.0	14.6	0.0
321113	Sawmills	14.6	15.0	0.0	X
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0.3	0.0	97.0	0.0
321219	Reconstituted Wood Products	0.0	0.0	X	0.0
3219	Other Wood Products	5.6	5.6	0.0	X
322	Paper	0.0	0.0	0.0	0.0
322110	Pulp Mills	D	D	X	X
322120	Paper Mills	0.0	0.0	0.0	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0
323	Printing and Related Support	78.7	78.8	X	98.5
324	Petroleum and Coal Products	0.1	0.1	0.0	0.0
324110	Petroleum Refineries	0.0	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	0.1	35.0	0.0	0.0
324122	Asphalt Shingle and Coating Materials	0.0	X	X	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	X	X	X	X
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	X	X
325	Chemicals	0.2	0.2	41.7	0.1
325110	Petrochemicals	0.0	0.0	X	X

325120	Industrial Gases	0.0	0.0	X	0.0
325180	Other Basic Inorganic Chemical Manufacturing	0.0	0.0	X	0.0
325193	Ethyl Alcohol	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	1.9	1.9	0.0	X
325211	Plastics Materials and Resins	0.1	0.0	67.6	0.2
325212	Synthetic Rubber	0.0	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	X	X
325311	Nitrogenous Fertilizers	0.0	0.0	X	0.0
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	40.7	0.0	50.6	4.6
325412	Pharmaceutical Preparation	0.0	0.0	0.0	0.0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	X	X
326	Plastics and Rubber Products	54.6	69.0	89.7	X
327	Nonmetallic Mineral Products	2.2	2.2	0.0	2.4
327120	Clay Building Material and Refractories	X	X	X	X
327211	Flat Glass	83.4	85.3	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X
327213	Glass Containers	X	X	X	X
327215	Glass Products from Purchased Glass	X	X	X	X
327310	Cements	X	X	X	X
327410	Lime	0.0	0.0	X	X
327420	Gypsum	0.0	0.0	X	0.0
327993	Mineral Wool	0.0	0.0	X	0.0
331	Primary Metals	7.3	7.4	67.8	0.0
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	X	0.0
3312	Steel Products from Purchased Steel	6.5	0.0	70.9	X
3313	Alumina and Aluminum Production and Processing	0.0	0.0	0.0	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	0.0	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	X	X	X	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	34.3	34.3	X	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	X	X
3315	Foundries	23.4	25.6	0.0	0.0
331511	Iron Foundries	27.9	27.9	X	X
331523	Nonferrous Metal Die-Casting Foundries	0.0	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	58.8	58.8	X	X
332	Fabricated Metal Products	59.6	74.6	99.5	X
333	Machinery	48.5	98.4	54.3	97.3
334	Computer and Electronic Products	85.4	86.4	99.0	0.0
334413	Semiconductors and Related Devices	86.4	86.4	X	0.0
335	Electrical Equip., Appliances, and Components	96.5	X	X	96.5
336	Transportation Equipment	14.1	30.7	15.8	2.3
336110	Automobile and Light Duty Motor Vehicle Manufacturing	11.8	0.0	21.8	0.0
3364	Aerospace Product and Parts	1.4	0.0	1.5	21.8
336411	Aircraft	0.0	X	0.0	0.0
337	Furniture and Related Products	66.9	66.9	X	X
339	Miscellaneous	66.7	70.2	0.0	0.0
	Total	0.3	0.2	18.0	5.3

West Census Region					
311	Food	25.2	20.4	39.6	46.0
3112	Grain and Oilseed Milling	18.0	1.3	43.3	X
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X
31131	Sugar Manufacturing	0.0	0.0	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	72.5	93.6	42.2	X
3115	Dairy Product Manufacturing	0.4	0.0	0.0	62.1
3116	Animal Slaughtering and Processing	79.2	97.0	X	79.2
312	Beverage and Tobacco Products	11.6	26.0	11.9	0.0
3121	Beverages	11.6	26.0	11.9	0.0
3122	Tobacco	X	X	X	X
313	Textile Mills	96.2	86.3	96.2	X
314	Textile Product Mills	X	X	X	X
315	Apparel	59.4	X	59.4	X
316	Leather and Allied Products	0.0	X	0.0	X
321	Wood Products	0.5	0.1	68.1	X
321113	Sawmills	0.1	0.1	X	X
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0.1	0.1	X	X
321219	Reconstituted Wood Products	X	X	X	X
3219	Other Wood Products	68.1	X	68.1	X
322	Paper	9.7	9.8	0.0	X
322110	Pulp Mills	0.0	0.0	X	X
322120	Paper Mills	0.0	0.0	0.0	X

322130	Paperboard Mills	0.0	0.0	X	X
323	Printing and Related Support	86.2	99.0	99.0	X
324	Petroleum and Coal Products	0.1	0.1	0.8	0.0
324110	Petroleum Refineries	0.0	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	15.7	79.1	16.0	X
324122	Asphalt Shingle and Coating Materials	0.0	X	0.0	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	0.0	X	0.0	0.0
324199	All Other Petroleum and Coal Products Manufacturing	X	X	X	X
325	Chemicals	3.5	2.6	55.9	2.9
325110	Petrochemicals	X	X	X	X
325120	Industrial Gases	0.0	0.0	X	X
325180	Other Basic Inorganic Chemical Manufacturing	3.3	3.3	X	X
325193	Ethyl Alcohol	0.0	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X
325199	All Other Basic Organic Chemical Manufacturing	26.0	X	0.0	70.4
325211	Plastics Materials and Resins	0.0	X	0.0	0.0
325212	Synthetic Rubber	0.0	X	0.0	X
325220	Artificial and Synthetic Fibers and Filaments	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	0.0	0.0	X
325312	Phosphatic Fertilizers	0.0	0.0	X	0.0
3254	Pharmaceuticals and Medicines	36.1	53.4	62.6	0.1
325412	Pharmaceutical Preparation	42.5	64.8	74.1	0.0
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	X	X	X	X
326	Plastics and Rubber Products	82.3	92.7	74.8	99.0
327	Nonmetallic Mineral Products	10.3	0.8	11.9	94.1
327120	Clay Building Material and Refractories	0.0	X	X	0.0
327211	Flat Glass	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X
327213	Glass Containers	0.0	0.0	X	X
327215	Glass Products from Purchased Glass	24.5	31.2	0.0	0.0
327310	Cements	0.0	X	0.0	0.0
327410	Lime	0.0	0.0	X	X
327420	Gypsum	0.0	0.0	X	0.0
327993	Mineral Wool	0.0	0.0	0.0	X
331	Primary Metals	1.5	0.5	45.2	X
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	X	X
3312	Steel Products from Purchased Steel	73.7	X	73.7	X
3313	Alumina and Aluminum Production and Processing	3.0	0.0	87.7	X
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	3.0	0.0	87.7	X
3314	Nonferrous Metal (except Aluminum) Production and Processing	0.0	0.0	0.0	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0	X
3315	Foundries	4.8	5.2	0.3	X
331511	Iron Foundries	0.0	0.0	0.0	X
331523	Nonferrous Metal Die-Casting Foundries	58.5	59.2	28.9	X
331524	Aluminum Foundries, except Die-Casting	0.0	X	0.0	X
332	Fabricated Metal Products	53.2	75.3	69.3	X
333	Machinery	69.9	81.9	81.8	87.6
334	Computer and Electronic Products	49.4	64.5	67.7	82.4
334413	Semiconductors and Related Devices	88.2	91.3	41.2	0.0
335	Electrical Equip., Appliances, and Components	81.4	X	81.4	X
336	Transportation Equipment	84.2	X	84.3	0.0
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.0	X	0.0	0.0
3364	Aerospace Product and Parts	0.0	X	0.0	X
336411	Aircraft	X	X	X	X
337	Furniture and Related Products	73.4	85.0	76.3	X
339	Miscellaneous	77.4	85.0	68.6	81.9
	Total	2.4	2.0	19.4	28.3

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2022 Manufacturing Energy Consumption Survey

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

^a The Bureau of the Census classifies establishments using the 2022 North American Industry Classification System (NAICS).

^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).

