

Released: August 2021
 Next MECS will be fielded in 2023.

Table 8.8 Number of Establishments by Participation in Setting Goals for Improving Energy Consumption, 2018;

Level: National Data;
Row: NAICS Codes;
Column: Participation and Policies Influencing Energy Consumption Goals;
Unit: Establishment Counts.

		Policies that Influenced Energy Consumption Goals								
NAICS Code(a)	Subsector and Industry	No Participation	Participation(b)	Don't Know	Legal Requirement	Voluntary Programs	Corporate Policy	Customer Requirements	Government Incentives	Don't Know
Total United States										
311	Food	6,405	4,713	4,724	1,024	2,537	2,895	1,191	1,067	212
3112	Grain and Oilseed Milling	151	329	131	109	189	262	52	98	D
311221	Wet Corn Milling	14	38	0	D	17	36	5	D	0
31131	Sugar Manufacturing	15	35	20	19	21	23	4	5	0
3114	Fruit and Vegetable Preserving and Specialty Food	388	398	261	109	225	305	70	89	D
3115	Dairy Product	262	560	215	129	380	399	172	131	D
3116	Animal Slaughtering and Processing	726	481	635	43	261	292	97	113	Q
312	Beverage and Tobacco Products	1,769	1,426	743	338	879	841	216	345	46
3121	Beverages	1,731	1,390	732	333	857	811	208	341	D
3122	Tobacco	38	36	11	5	22	30	8	4	D
313	Textile Mills	745	398	217	81	243	305	53	133	Q
314	Textile Product Mills	1,819	1,010	1,287	Q	530	Q	Q	Q	0
315	Apparel	2,246	788	823	Q	94	Q	Q	Q	Q
316	Leather and Allied Products	325	47	283	Q	24	37	Q	9	0
321	Wood Products	4,486	1,864	3,085	493	873	734	405	298	66
321113	Sawmills	864	412	511	139	249	158	67	121	20
3212	Veneer, Plywood, and Engineered Woods	468	273	342	76	216	144	30	67	0
321219	Reconstituted Wood Products	52	57	49	32	48	52	10	28	0
3219	Other Wood Products	3,055	1,139	2,092	268	392	408	301	Q	Q
322	Paper	1,298	1,088	622	145	785	699	321	220	42
322110	Pulp Mills	D	19	D	4	13	12	8	3	0
322121	Paper Mills, except Newsprint	32	115	8	29	78	83	26	28	D
322122	Newsprint Mills	D	8	D	0	8	4	D	D	0
322130	Paperboard Mills	22	109	11	25	79	63	19	27	D
323	Printing and Related Support	7,636	1,902	3,076	390	852	750	307	394	Q
324	Petroleum and Coal Products	512	780	591	315	513	591	189	214	12
324110	Petroleum Refineries	31	96	9	34	62	81	D	21	D
324121	Asphalt Paving Mixture and Block	290	555	444	254	381	421	170	175	4
324122	Asphalt Shingle and Coating Materials	59	57	52	9	34	45	D	12	Q
324191	Petroleum Lubricating Oil and Grease Products	97	46	68	14	25	30	5	D	D
324199	Other Petroleum and Coal Products	34	26	19	3	12	14	8	D	D
325	Chemicals	3,450	3,082	2,370	390	1,619	2,205	436	471	112
325110	Petrochemicals	23	29	15	7	17	24	D	5	0
325120	Industrial Gases	108	218	199	D	9	190	D	0	Q
325180	Other Basic Inorganic Chemicals	236	186	80	32	154	125	14	27	D
325193	Ethyl Alcohol	22	139	46	35	91	62	23	25	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	13	45	3	5	32	20	5	4	D
325199	Other Basic Organic Chemicals	123	232	169	35	178	175	31	31	0
325211	Plastics Materials and Resins	257	346	209	85	167	262	74	73	D
325212	Synthetic Rubber	28	40	19	6	23	27	7	4	D
325220	Artificial and Synthetic Fibers and Filaments	33	48	19	15	29	38	11	11	D
325311	Nitrogenous Fertilizers	102	16	Q	5	10	12	3	D	D
325312	Phosphatic Fertilizers	9	20	25	3	6	10	4	4	7
3254	Pharmaceuticals and Medicines	444	404	480	104	229	314	97	126	Q
325412	Pharmaceutical Preparation	192	244	282	90	132	169	88	106	Q
325992	Photographic Film, Paper, Plate, and Chemicals	50	48	10	D	39	40	4	4	D
326	Plastics and Rubber Products	3,756	2,767	1,795	290	1,854	1,397	251	710	Q
327	Nonmetallic Mineral Products	5,528	2,643	3,864	792	1,591	1,438	466	761	166
327120	Clay Building Material and Refractories	182	143	90	34	73	90	20	30	3
327211	Flat Glass	17	27	16	D	21	19	D	D	0

327212	Other Pressed and Blown Glass and Glassware	94	32	37	6	21	27	5	9	0
327213	Glass Containers	5	30	22	9	10	27	4	6	0
327215	Glass Products from Purchased Glass	353	173	160	15	150	77	19	28	0
327310	Cements	80	97	10	30	73	66	20	51	0
327410	Lime	16	31	39	12	26	28	12	10	0
327420	Gypsum	57	78	13	D	48	38	36	3	D
327993	Mineral Wool	53	73	65	Q	51	45	D	D	D
331	Primary Metals	1,351	1,081	794	265	685	685	183	286	16
331110	Iron and Steel Mills and Ferroalloys	119	187	84	43	140	125	31	38	6
3312	Steel Products from Purchased Steel	268	95	135	30	67	65	19	28	D
3313	Alumina and Aluminum	161	161	78	32	87	105	24	22	D
331314	Secondary Smelting and Alloying of Aluminum	39	48	22	13	29	19	D	8	D
331315	Aluminum Sheet, Plate and Foils	16	37	12	4	D	24	8	5	0
331318	Other Aluminum Rolling, Drawing and Extruding	88	66	37	11	33	54	9	6	0
3314	Nonferrous Metals, except Aluminum	233	269	150	79	142	176	34	105	D
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	34	51	22	8	19	47	7	32	0
3315	Foundries	571	370	347	80	249	214	75	93	6
331511	Iron Foundries	160	109	104	19	69	55	19	38	D
331523	Nonferrous Metal Die-Casting Foundries	83	116	58	32	90	80	16	22	D
331524	Aluminum Foundries, except Die-Casting	147	58	72	19	27	32	23	23	D
332	Fabricated Metal Products	19,751	7,222	10,976	1,584	3,657	2,197	752	1,167	592
333	Machinery	8,089	3,040	3,789	768	2,055	1,476	756	787	Q
334	Computer and Electronic Products	3,811	1,810	1,025	447	1,105	1,065	677	701	Q
334413	Semiconductors and Related Devices	167	118	58	28	72	104	24	34	0
335	Electrical Equip., Appliances, and Components	1,978	844	473	278	250	426	Q	Q	Q
336	Transportation Equipment	2,860	1,924	2,320	453	946	1,460	779	724	10
336111	Automobiles	17	43	12	4	22	41	8	8	0
336112	Light Trucks and Utility Vehicles	27	28	14	4	21	26	8	4	0
3364	Aerospace Product and Parts	580	331	287	50	184	254	64	60	3
336411	Aircraft	144	86	117	4	21	77	D	D	D
337	Furniture and Related Products	4,835	779	2,733	Q	533	207	Q	Q	0
339	Miscellaneous	7,383	2,992	3,304	564	2,369	993	417	492	Q
	Total	90,034	42,200	48,893	9,261	23,993	21,154	8,220	9,537	2,063

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

(b) The *Participation* column includes those units which reported any of the five listed policies that influenced energy consumption goals at any time in 2018, plus those units where the policies that influenced energy consumption goals was not ascertained.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

-- Estimation is not applicable.

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

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).

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RSE Table 8.8 Relative Standard Errors for Table 8.8;

Unit: Percents.

		Policies that Influenced Energy Consumption Goals								
NAICS Code(a)	Subsector and Industry	No Participation	Participation(b)	Don't Know	Legal Requirement	Voluntary Programs	Corporate Policy	Customer Requirements	Government Incentives	Don't Know
Total United States										
311	Food	4.7	3.1	6.4	7.3	4.6	3.5	6.1	8.3	42.8
3112	Grain and Oilseed Milling	9.9	4.5	25.2	16.2	7.0	4.4	9.9	15.1	D
311221	Wet Corn Milling	0.0	0.0	X	D	0.0	0.0	0.0	D	X
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
3114	Fruit and Vegetable Preserving and Specialty Food	15.2	13.5	19.8	30.9	20.1	15.6	18.1	17.3	D
3115	Dairy Product	14.7	8.4	20.2	23.5	12.1	10.8	12.5	22.9	D
3116	Animal Slaughtering and Processing	10.9	11.7	12.1	20.8	13.8	12.5	12.6	20.8	65.6
312	Beverage and Tobacco Products	4.4	4.5	9.4	13.7	6.5	5.0	11.2	14.7	30.5
3121	Beverages	8.7	10.0	15.8	24.0	14.0	13.3	31.2	22.8	D
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D
313	Textile Mills	10.0	15.8	21.1	35.3	21.6	17.9	33.9	31.4	53.2
314	Textile Product Mills	22.1	33.7	28.9	83.6	48.8	51.1	54.4	90.9	X
315	Apparel	18.1	42.0	40.5	77.1	46.6	82.4	70.3	83.6	92.4
316	Leather and Allied Products	18.1	28.7	20.7	66.7	23.9	25.0	57.8	22.6	X
321	Wood Products	6.5	10.3	10.3	12.8	13.3	14.6	16.6	12.9	27.0
321113	Sawmills	7.3	12.7	12.3	27.3	16.8	12.5	49.2	20.0	36.4
3212	Veneer, Plywood, and Engineered Woods	11.5	16.9	24.0	16.5	19.1	20.3	14.9	16.4	X
321219	Reconstituted Wood Products	19.2	23.8	44.3	19.7	25.4	24.7	18.0	20.0	X
3219	Other Wood Products	9.5	19.6	13.2	47.5	34.3	32.8	41.7	70.3	98.1
322	Paper	5.2	1.8	8.2	2.6	2.1	2.5	4.3	3.5	30.0
322110	Pulp Mills	D	0.0	D	0.0	0.0	0.0	0.0	0.0	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D
322122	Newsprint Mills	D	0.0	D	X	0.0	0.0	D	D	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D
323	Printing and Related Support	6.2	17.7	13.4	41.0	27.5	28.5	45.5	40.8	90.3
324	Petroleum and Coal Products	6.8	3.1	7.8	4.8	3.5	3.4	8.5	6.1	24.0
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	D
324121	Asphalt Paving Mixture and Block	8.7	6.8	8.7	12.8	9.8	8.7	18.9	15.7	22.7
324122	Asphalt Shingle and Coating Materials	22.5	12.6	15.7	21.9	13.4	12.8	D	18.5	75.7
324191	Petroleum Lubricating Oil and Grease Products	17.8	15.9	25.9	12.9	13.0	18.6	12.7	D	D
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	D
325	Chemicals	4.9	2.9	5.2	5.3	4.0	3.8	7.6	7.0	10.8
325110	Petrochemicals	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	X
325120	Industrial Gases	41.9	14.7	17.4	D	23.9	16.5	D	X	55.8
325180	Other Basic Inorganic Chemicals	14.4	16.1	28.0	17.9	19.1	17.9	9.4	19.4	D
325193	Ethyl Alcohol	15.6	3.6	8.2	8.7	7.2	7.3	18.5	11.6	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D
325199	Other Basic Organic Chemicals	16.5	11.8	18.9	18.8	14.8	15.0	23.5	25.8	X
325211	Plastics Materials and Resins	17.4	12.1	19.9	21.3	13.8	14.3	30.4	28.4	D
325212	Synthetic Rubber	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D
325311	Nitrogenous Fertilizers	21.4	43.7	52.6	43.3	43.3	44.0	43.3	D	D
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	14.2	13.6	14.1	30.9	19.8	16.2	37.9	30.4	73.0
325412	Pharmaceutical Preparation	21.5	18.2	17.6	36.3	26.7	23.4	42.1	36.7	73.0
325992	Photographic Film, Paper, Plate, and Chemicals	21.5	20.2	18.8	D	23.2	22.8	18.8	18.8	D
326	Plastics and Rubber Products	9.3	11.8	16.1	41.7	15.6	17.9	41.4	27.0	66.2
327	Nonmetallic Mineral Products	5.9	4.5	6.3	12.3	6.2	5.3	11.3	12.2	31.3
327120	Clay Building Material and Refractories	12.5	14.2	16.6	8.6	26.4	12.1	10.9	14.8	8.6
327211	Flat Glass	0.0	0.0	0.0	D	0.0	0.0	D	D	X
327212	Other Pressed and Blown Glass and Glassware	17.8	21.6	47.0	18.8	24.2	22.4	32.7	18.8	X
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
327215	Glass Products from Purchased Glass	11.5	17.2	18.9	13.8	19.3	21.4	11.7	13.7	X

327310	Cements	19.3	15.8	15.1	26.8	21.7	17.3	37.5	33.4	X
327410	Lime	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
327420	Gypsum	21.4	15.2	19.1	D	19.6	32.9	26.7	15.0	D
327993	Mineral Wool	42.2	23.9	29.3	57.4	28.9	26.1	D	D	D
331	Primary Metals	4.0	4.1	7.1	6.6	5.9	4.8	5.6	13.7	6.6
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	11.3	16.6	21.0	28.2	20.2	20.3	28.1	21.1	D
3313	Alumina and Aluminum	5.0	5.0	6.7	5.5	11.8	3.7	2.8	3.5	D
331314	Secondary Smelting and Alloying of Aluminum	15.5	17.0	16.5	13.9	36.8	15.3	D	13.1	D
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	X
331318	Other Aluminum Rolling, Drawing and Extruding	12.2	10.1	19.9	12.5	11.6	10.4	10.0	8.9	X
3314	Nonferrous Metals, except Aluminum	13.2	14.2	16.8	22.1	18.7	17.6	20.7	34.3	D
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	21.3	21.7	18.0	18.0	18.0	24.9	18.0	46.1	X
3315	Foundries	7.9	7.9	15.3	14.3	9.8	7.8	13.4	17.9	14.9
331511	Iron Foundries	21.6	22.9	40.6	19.6	30.4	19.3	31.5	44.3	D
331523	Nonferrous Metal Die-Casting Foundries	15.3	10.0	20.3	26.7	12.1	12.3	34.4	25.0	D
331524	Aluminum Foundries, except Die-Casting	14.5	16.8	36.9	22.4	16.5	19.9	21.8	21.0	D
332	Fabricated Metal Products	5.9	12.5	9.6	28.5	18.4	23.4	41.4	34.2	49.4
333	Machinery	6.0	12.8	11.3	27.8	16.1	18.9	28.3	27.4	98.9
334	Computer and Electronic Products	10.2	14.7	26.2	30.4	16.1	18.4	22.7	23.6	98.6
334413	Semiconductors and Related Devices	20.0	22.8	44.9	45.6	23.2	25.1	34.6	37.9	X
335	Electrical Equip., Appliances, and Components	11.8	23.6	36.8	46.7	31.7	32.3	54.3	52.8	92.6
336	Transportation Equipment	6.3	4.5	10.9	12.5	4.8	4.5	9.4	10.8	26.7
336111	Automobiles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
3364	Aerospace Product and Parts	11.9	13.1	23.8	33.0	15.0	14.2	31.0	29.8	24.6
336411	Aircraft	22.4	22.5	34.8	19.1	28.1	22.6	D	D	D
337	Furniture and Related Products	7.5	26.1	12.7	58.7	31.1	41.5	69.9	61.3	X
339	Miscellaneous	7.3	14.7	13.9	38.2	17.0	26.6	43.0	40.4	69.6
	Total	1.7	1.4	2.5	3.1	1.8	1.7	3.1	3.9	10.2

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

(b) The *Participation* column includes those units which reported any of the five listed policies that influenced energy consumption goals at any time in 2018, plus those units where the policies that influenced energy consumption goals was not ascertained.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

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

NA=Not available.

-- Estimation is not applicable.

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

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*.

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