

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

Table 8.11 Number of Establishments by Participation of Audits to Identify Potential Energy Saving Opportunities, 2018;

Level: National Data;
 Row: NAICS Codes
 Column: Participation in Audits on Energy Systems
 Unit: Establishment Counts

		Audits Performed on Energy Systems												
NAICS Code(a)	Subsector and Industry	No Participation	Participation(b)	Don't Know	Compressed Air	Process Heating	Process Cooling and Steam	Refrigeration	Computing	Facility HVAC	Facility Lighting	Machine Drives	Establishment Wide	Don't Know
Total United States														
311	Food	9,458	2,257	4,127	1,050	506	765	819	123	653	1,680	669	760	0
3112	Grain and Oilseed Milling	280	120	211	81	57	66	34	5	21	68	61	50	0
311221	Wet Corn Milling	33	D	D	11	10	8	7	D	5	12	8	6	0
31131	Sugar Manufacturing	31	18	21	7	8	11	D	D	3	10	11	6	0
3114	Fruit and Vegetable Preserving and Specialty Food	519	273	255	116	55	87	101	D	82	177	109	45	0
3115	Dairy Product	589	260	188	150	69	119	139	8	83	190	103	100	0
3116	Animal Slaughtering and Processing	1,045	310	487	118	72	109	109	8	66	231	84	75	0
312	Beverage and Tobacco Products	2,619	533	787	228	155	156	228	D	172	295	193	156	0
3121	Beverages	2,559	520	774	221	151	148	224	D	165	286	188	149	0
3122	Tobacco	59	13	12	7	4	8	4	D	7	9	4	6	0
313	Textile Mills	915	176	268	121	60	71	48	0	66	134	73	55	0
314	Textile Product Mills	2,612	Q	1,212	74	Q	Q	0	0	Q	Q	Q	Q	0
315	Apparel	2,358	782	716	Q	Q	Q	0	0	Q	Q	Q	Q	0
316	Leather and Allied Products	381	74	200	Q	Q	12	0	4	Q	Q	Q	5	Q
321	Wood Products	5,760	987	2,689	504	119	108	96	20	105	703	363	153	0
321113	Sawmills	1,117	238	432	123	35	56	3	14	32	112	130	D	0
3212	Veneer, Plywood, and Engineered Woods	659	178	246	95	47	44	5	4	24	128	90	25	0
321219	Reconstituted Wood Products	58	74	26	27	16	9	D	0	15	52	21	6	0
3219	Other Wood Products	3,851	561	1,874	283	D	D	Q	3	D	454	D	75	0
322	Paper	1,597	733	679	303	236	176	152	71	173	489	228	190	20
322110	Pulp Mills	14	14	0	8	6	12	3	0	4	6	5	4	0
322121	Paper Mills, except Newsprint	37	101	18	50	45	67	19	4	33	64	62	33	D
322122	Newsprint Mills	D	7	D	D	3	4	3	0	D	4	4	D	0
322130	Paperboard Mills	44	65	34	36	28	48	10	5	15	34	29	20	0
323	Printing and Related Support	9,370	1,121	2,122	205	Q	5	Q	D	304	848	Q	258	0
324	Petroleum and Coal Products	862	370	651	136	193	93	29	11	130	171	178	226	10
324110	Petroleum Refineries	45	78	13	22	57	67	21	D	5	19	30	27	0
324121	Asphalt Paving Mixture and Block	568	230	491	91	112	5	D	5	106	118	129	180	10
324122	Asphalt Shingle and Coating Materials	67	29	72	19	12	5	0	0	3	14	11	10	0
324191	Petroleum Lubricating Oil and Grease Products	132	20	59	D	8	8	D	D	11	12	3	4	0
324199	Other Petroleum and Coal Products	49	14	16	D	5	8	D	0	5	8	5	6	0
325	Chemicals	4,916	1,879	2,107	630	327	611	354	60	550	957	452	527	4
325110	Petrochemicals	24	23	18	3	10	19	5	D	3	4	6	6	0
325120	Industrial Gases	189	123	212	30	8	5	10	8	D	5	11	108	D
325180	Other Basic Inorganic Chemicals	268	144	89	69	22	83	14	3	15	40	40	25	0
325193	Ethyl Alcohol	59	79	69	39	51	69	22	0	9	34	50	36	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	39	19	3	9	4	14	3	0	D	8	4	4	0
325199	Other Basic Organic Chemicals	184	178	162	59	60	97	51	7	56	104	45	48	0
325211	Plastics Materials and Resins	432	219	163	116	66	116	51	6	35	141	68	67	0
325212	Synthetic Rubber	56	17	15	8	10	8	5	D	4	12	6	6	0
325220	Artificial and Synthetic Fibers and Filaments	56	27	16	15	8	13	10	D	12	8	8	9	0
325311	Nitrogenous Fertilizers	124	13	11	8	4	8	4	0	0	6	6	D	0
325312	Phosphatic Fertilizers	21	5	28	3	D	4	D	0	0	5	3	D	0
3254	Pharmaceuticals and Medicines	657	280	391	88	34	83	72	8	146	196	87	67	0
325412	Pharmaceutical Preparation	334	156	228	50	18	39	31	4	84	126	55	25	0
325992	Photographic Film, Paper, Plate, and Chemicals	47	30	31	21	4	5	5	Q	Q	24	Q	5	D
326	Plastics and Rubber Products	5,257	1,715	1,345	840	337	79	457	Q	493	1,271	654	402	0
327	Nonmetallic Mineral Products	7,314	1,441	3,280	615	255	115	89	64	222	998	286	353	0
327120	Clay Building Material and Refractories	237	77	101	40	37	5	D	D	9	47	16	39	0
327211	Flat Glass	26	11	23	9	5	D	0	0	3	7	5	4	0
327212	Other Pressed and Blown Glass and Glassware	91	61	13	26	15	D	4	D	12	31	12	Q	0
327213	Glass Containers	14	13	31	8	4	D	3	D	5	7	5	3	0
327215	Glass Products from Purchased Glass	449	99	138	56	25	D	15	3	29	61	29	37	0
327310	Cements	116	43	28	25	29	D	D	0	D	16	28	19	0
327410	Lime	20	13	53	5	7	0	0	D	3	9	7	5	0
327420	Gypsum	57	66	25	6	22	D	D	0	D	60	4	5	0
327993	Mineral Wool	100	29	61	25	9	0	Q	0	Q	12	8	9	0

331	Primary Metals	1,962	661	603	269	190	37	65	28	130	401	258	195	Q
331110	Iron and Steel Mills and Ferroalloys	188	109	92	45	38	20	12	4	13	78	47	19	0
3312	Steel Products from Purchased Steel	318	90	89	26	Q	3	D	0	17	48	26	17	D
3313	Alumina and Aluminum	211	103	85	54	29	4	D	0	15	74	45	31	0
331314	Secondary Smelting and Alloying of Aluminum	48	20	41	9	9	0	D	0	D	9	D	D	0
331315	Aluminum Sheet, Plate and Foils	23	29	13	16	10	D	4	0	4	22	14	15	0
331318	Other Aluminum Rolling, Drawing and Extruding	118	49	24	26	6	0	4	0	7	40	16	10	0
3314	Nonferrous Metals, except Aluminum	396	133	121	24	34	5	14	7	13	43	65	48	D
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	73	20	15	10	9	D	4	3	7	12	11	7	0
3315	Foundries	848	225	215	120	77	5	27	18	71	158	76	80	0
331511	Iron Foundries	280	56	37	39	21	0	6	D	17	35	25	17	0
331523	Nonferrous Metal Die-Casting Foundries	128	62	67	33	21	0	D	D	16	40	20	17	0
331524	Aluminum Foundries, except Die-Casting	174	34	68	14	16	D	D	D	17	30	18	16	0
332	Fabricated Metal Products	27,528	3,325	7,097	1,129	Q	Q	D	23	1,049	2,237	Q	746	Q
333	Machinery	10,164	2,076	2,680	563	414	Q	Q	Q	659	1,507	Q	463	0
334	Computer and Electronic Products	4,413	1,099	1,134	497	295	33	60	16	625	861	348	307	0
334413	Semiconductors and Related Devices	160	123	61	43	18	13	21	4	62	74	26	13	0
335	Electrical Equip., Appliances, and Components	2,257	606	433	186	79	56	35	D	111	375	Q	77	0
336	Transportation Equipment	3,746	1,402	1,954	659	220	165	142	76	449	1,139	366	528	Q
336111	Automobiles	29	33	9	26	18	9	9	9	26	28	24	24	0
336112	Light Trucks and Utility Vehicles	27	28	14	16	8	5	8	5	17	19	12	18	0
3364	Aerospace Product and Parts	693	240	266	144	43	36	61	55	136	195	73	76	Q
336411	Aircraft	186	44	117	31	7	9	10	3	17	26	14	16	0
337	Furniture and Related Products	6,166	534	1,647	163	Q	12	D	Q	Q	382	Q	45	3
339	Miscellaneous	10,259	815	2,605	119	72	47	Q	D	376	535	68	Q	0
	Total	119,913	22,876	38,337	8,343	4,085	2,705	2,982	636	6,878	15,608	5,249	6,127	222

(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 nine listed audits performed on energy systems at any time in 2018, plus those units where the audits performed on energy systems 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).

Released: August 2021

Next MECS will be fielded in 2023.

RSE Table 8.11 Relative Standard Errors for Table 8.11;

Unit: Percents.

		Audits Performed on Energy Systems													
NAICS Code(a)	Subsector and Industry	No Participation	Participation(b)	Don't Know	Compressed Air	Process Heating	Steam	Process Cooling and Refrigeration	Computing	Facility HVAC	Facility Lighting	Machine Drives	Establishment Wide	Don't Know	
Total United States															
311	Food	2.7	4.6	5.7	5.3	6.6	5.3	8.9	8.3	10.9	6.0	6.7	7.1	X	
3112	Grain and Oilseed Milling	4.7	4.2	14.4	4.9	3.8	4.4	4.0	0.7	5.2	3.7	4.4	6.0	X	
311221	Wet Corn Milling	0.0	D	D	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	X	
31131	Sugar Manufacturing	0.0	0.0	0.0	0.0	0.0	0.0	D	D	0.0	0.0	0.0	0.0	X	
3114	Fruit and Vegetable Preserving and Specialty Food	11.3	17.1	19.4	16.7	21.1	15.8	33.3	D	39.5	20.8	31.4	21.8	X	
3115	Dairy Product	7.7	15.4	14.8	19.1	40.5	23.6	22.7	17.5	33.3	20.9	27.5	28.4	X	
3116	Animal Slaughtering and Processing	7.2	16.4	13.8	18.5	42.8	24.9	12.8	31.3	14.3	19.3	13.1	13.3	X	
312	Beverage and Tobacco Products	2.5	7.6	8.6	8.7	14.3	8.1	13.2	D	9.5	8.0	13.6	10.0	X	
3121	Beverages	5.2	16.4	14.8	20.8	31.9	27.9	23.7	D	26.8	19.8	27.0	29.6	X	
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	X	
313	Textile Mills	7.1	18.5	21.3	23.2	32.0	28.3	33.4	X	27.7	21.6	29.1	33.0	X	
314	Textile Product Mills	15.0	63.7	31.3	42.3	68.4	53.0	X	X	95.9	71.8	57.1	79.8	X	
315	Apparel	17.2	42.6	46.0	51.1	54.4	63.2	X	X	87.6	69.4	57.8	80.2	X	
316	Leather and Allied Products	15.3	41.9	28.2	66.8	72.4	19.1	X	15.0	66.0	50.3	54.5	44.1	78.0	
321	Wood Products	5.3	14.1	8.3	13.3	14.5	9.3	40.6	10.6	17.5	24.1	13.8	12.1	X	
321113	Sawmills	5.5	12.5	14.2	20.8	9.9	17.1	0.0	15.5	32.4	9.7	18.6	D	X	
3212	Veneer, Plywood, and Engineered Woods	10.2	19.5	16.1	17.6	17.4	11.6	13.4	9.5	21.3	33.2	18.4	17.8	X	
321219	Reconstituted Wood Products	23.6	23.4	21.2	20.1	23.2	18.0	D	X	23.5	40.6	20.9	18.0	X	
3219	Other Wood Products	7.4	27.6	14.4	39.1	D	D	84.7	0.0	D	33.5	D	32.6	X	
322	Paper	3.4	1.9	6.5	2.7	2.8	0.4	3.7	28.9	4.0	2.9	2.0	3.7	49.2	
322110	Pulp Mills	0.0	0.0	X	0.0	0.0	0.0	0.0	X	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	0.0	0.0	0.0	0.0	D	
322122	Newsprint Mills	D	0.0	D	D	0.0	0.0	0.0	X	D	0.0	0.0	D	X	
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	
323	Printing and Related Support	4.4	23.3	17.0	45.1	91.2	0.0	77.1	D	46.1	27.8	63.4	46.0	X	
324	Petroleum and Coal Products	4.1	3.0	8.3	6.3	3.4	1.4	2.4	3.7	9.5	5.4	4.7	4.8	50.0	
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	X	
324121	Asphalt Paving Mixture and Block	6.3	12.3	7.8	27.4	23.2	0.0	D	0.0	24.6	22.0	20.5	15.4	50.0	
324122	Asphalt Shingle and Coating Materials	12.8	12.9	16.9	12.5	14.4	21.8	X	X	12.1	12.4	12.1	15.3	X	
324191	Petroleum Lubricating Oil and Grease Products	13.0	18.3	30.1	D	12.7	18.2	D	D	24.2	21.0	12.7	12.7	X	
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	D	0.0	0.0	D	X	0.0	0.0	0.0	0.0	X	
325	Chemicals	2.7	4.4	5.3	7.7	5.6	4.3	5.9	35.5	11.7	7.1	8.3	6.5	17.6	
325110	Petrochemicals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	X	
325120	Industrial Gases	21.1	23.9	14.6	21.5	32.3	12.1	12.1	12.1	D	12.1	24.5	27.4	D	
325180	Other Basic Inorganic Chemicals	12.3	20.0	25.1	32.0	19.6	25.8	21.3	9.4	22.1	16.0	21.8	16.9	X	
325193	Ethyl Alcohol	8.9	8.7	6.9	20.7	15.0	10.3	8.9	X	17.9	7.8	7.0	8.3	X	
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	D	0.0	0.0	0.0	X	
325199	Other Basic Organic Chemicals	12.5	15.0	19.8	29.6	29.3	18.8	33.9	45.4	33.0	22.7	19.0	19.5	X	
325211	Plastics Materials and Resins	10.0	15.7	21.6	27.6	31.4	27.2	20.2	7.8	19.4	22.7	24.5	39.1	X	
325212	Synthetic Rubber	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	X	
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	X	
325311	Nitrogenous Fertilizers	8.5	44.8	45.9	46.5	43.3	43.3	43.3	X	X	43.3	43.3	D	X	
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	D	0.0	D	X	X	0.0	0.0	D	X	
3254	Pharmaceuticals and Medicines	10.4	15.9	16.8	11.9	11.1	10.9	19.9	8.0	20.5	19.9	30.6	25.2	X	
325412	Pharmaceutical Preparation	14.8	24.2	19.8	16.2	11.7	11.9	13.7	10.8	32.7	29.6	49.6	16.6	X	
325992	Photographic Film, Paper, Plate, and Chemicals	20.7	30.8	42.6	42.9	18.8	18.8	18.8	71.5	50.1	39.1	54.0	18.8	D	
326	Plastics and Rubber Products	6.3	15.4	19.4	21.7	33.7	36.4	30.4	73.1	28.0	18.1	25.7	31.6	X	
327	Nonmetallic Mineral Products	4.4	7.1	4.5	7.2	6.3	8.9	8.8	8.5	9.7	8.1	6.2	15.4	X	
327120	Clay Building Material and Refractories	8.4	12.3	16.3	8.8	10.0	8.6	D	D	16.2	16.3	17.1	10.5	X	
327211	Flat Glass	0.0	0.0	0.0	0.0	0.0	D	D	X	0.0	0.0	0.0	0.0	X	
327212	Other Pressed and Blown Glass and Glassware	19.6	27.6	40.3	32.9	36.9	D	18.8	D	41.8	31.3	32.7	58.1	X	
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0	D	0.0	D	0.0	0.0	0.0	0.0	X	
327215	Glass Products from Purchased Glass	7.4	17.9	18.3	12.9	11.4	D	21.9	17.6	15.0	11.9	14.8	41.2	X	
327310	Cements	10.5	15.1	28.2	15.1	15.1	D	D	X	D	15.1	15.1	15.1	X	
327410	Lime	0.0	0.0	0.0	0.0	0.0	X	X	D	0.0	0.0	0.0	0.0	X	
327420	Gypsum	28.2	20.0	16.6	15.0	15.0	D	D	X	D	21.1	15.0	15.0	X	
327993	Mineral Wool	19.9	30.8	31.5	34.8	36.2	X	52.4	X	62.6	29.7	40.1	36.0	X	
331	Primary Metals	2.5	4.5	6.8	5.0	5.5	3.8	9.5	27.0	6.9	4.3	6.3	6.8	88.1	
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	0.0	0.0	0.0	X	
3312	Steel Products from Purchased Steel	9.1	29.5	18.1	26.4	53.9	10.0	D	X	36.0	22.2	34.1	42.3	D	
3313	Alumina and Aluminum	3.8	5.4	9.7	7.9	4.8	0.0	D	X	2.8	6.0	7.1	2.7	X	
331314	Secondary Smelting and Alloying of Aluminum	14.2	18.1	23.1	21.4	22.1	X	D	X	D	15.1	D	D	X	

331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	0.0	0.0	D	0.0	X	0.0	0.0	0.0	0.0	X
331318	Other Aluminum Rolling, Drawing and Extruding	7.9	16.5	14.1	29.3	13.2	X	18.1	X	8.9	19.7	18.7	17.1	X
3314	Nonferrous Metals, except Aluminum	7.0	16.2	19.8	14.4	18.2	11.2	19.3	16.7	15.6	13.6	23.3	28.8	D
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	8.4	18.0	18.0	18.0	18.0	D	18.0	18.0	18.0	18.0	18.0	18.0	X
3315	Foundries	4.6	8.7	15.9	9.3	14.5	44.8	30.8	46.8	13.9	9.7	12.9	14.6	X
331511	Iron Foundries	7.1	22.6	29.7	20.0	38.6	X	35.8	D	21.6	20.0	21.6	18.0	X
331523	Nonferrous Metal Die-Casting Foundries	10.0	12.6	19.2	16.9	10.3	X	D	D	14.7	16.1	14.5	14.1	X
331524	Aluminum Foundries, except Die-Casting	13.6	23.1	38.6	18.6	42.0	D	D	D	41.3	25.7	38.5	42.0	X
332	Fabricated Metal Products	3.7	19.1	12.6	32.6	58.2	51.6	D	0.0	34.7	23.3	52.9	40.3	99.4
333	Machinery	4.5	15.9	14.2	30.4	37.1	75.9	71.5	77.0	29.2	19.0	56.0	35.2	X
334	Computer and Electronic Products	9.4	17.1	26.4	23.3	26.5	13.9	22.6	20.7	21.2	20.6	23.6	27.1	X
334413	Semiconductors and Related Devices	20.8	22.5	47.2	30.5	29.1	14.4	24.4	23.1	28.1	29.2	28.6	27.8	X
335	Electrical Equip., Appliances, and Components	9.5	27.1	37.5	28.2	36.9	39.6	45.7	D	40.8	35.6	53.7	42.4	X
336	Transportation Equipment	5.1	4.3	12.1	4.6	4.8	5.6	6.0	9.8	4.5	5.0	4.4	4.8	65.3
336111	Automobiles	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	X
3364	Aerospace Product and Parts	10.2	13.8	24.8	15.3	27.3	14.2	22.3	37.7	17.6	15.9	19.6	24.2	65.3
336411	Aircraft	18.8	24.8	34.8	20.2	29.9	26.5	26.1	19.1	22.0	31.4	22.9	44.7	X
337	Furniture and Related Products	5.2	30.9	17.7	48.2	78.6	37.5	D	63.8	54.9	34.8	64.6	48.1	0.0
339	Miscellaneous	4.5	27.6	16.3	33.7	43.8	48.0	52.9	D	36.8	31.4	47.7	50.7	X
	Total	1.1	1.9	2.3	2.4	2.1	1.6	2.6	10.4	3.6	2.6	2.4	3.1	48.6

(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 nine listed audits performed on energy systems at any time in 2018, plus those units where the audits performed on energy systems 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*.

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).