

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002

Level: National Data;

Row: NAICS Codes;

Column: Usage within General Energy-Saving Technologies

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments(b)	Computer Control of Building Wide Environment(c)			Computer Control of Processes or Major Energy-Using Equipment(d)		
			In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know
Total United States								
RSE Column Factors:		0	1.1	0.7	1.2	1	0.9	1.3
311	Food	15,089	1,546	12,347	1,196	4,360	9,442	1,287
311221	Wet Corn Milling	49	14	34	1	38	10	1
31131	Sugar	77	4	68	5	59	14	4
311421	Fruit and Vegetable Canning	468	64	352	52	142	275	51
312	Beverage and Tobacco Products	1,595	234	1,095	266	367	954	274
3121	Beverages	1,517	214	1,039	264	333	913	271
3122	Tobacco	78	20	55	2	33	41	4
313	Textile Mills	2,247	300	1,859	88	625	1,531	92
314	Textile Product Mills	3,457	180	2,689	588	109	2,787	562
315	Apparel	5,500	529	3,827	1,144	316	4,173	1,011
316	Leather and Allied Products	685	21	537	141	16	526	157
321	Wood Products	10,486	470	9,196	821	1,495	8,160	832
321113	Sawmills	2,235	69	1,942	225	483	1,482	271
3212	Veneer, Plywood, and Engineered Woods	1,478	147	1,197	134	403	969	106
3219	Other Wood Products	6,461	186	5,852	423	501	5,545	415
322	Paper	4,257	389	3,506	362	968	2,866	423
322110	Pulp Mills	34	8	23	2	27	7	0
322121	Paper Mills, except Newsprint	323	31	267	25	221	73	29
322122	Newsprint Mills	21	10	10	1	17	3	1
322130	Paperboard Mills	210	23	179	9	135	68	7
323	Printing and Related Support	20,220	1,276	16,182	2,762	1,108	16,403	2,709
324	Petroleum and Coal Products	1,916	136	1,503	277	668	936	313
324110	Petroleum Refineries	215	47	148	20	148	50	17
324199	Other Petroleum and Coal Products	47	13	30	4	27	15	4
325	Chemicals	8,909	1,297	6,937	675	2,860	5,534	515
325110	Petrochemicals	37	10	22	5	27	6	5
325120	Industrial Gases	527	84	428	15	313	200	14
325181	Alkalies and Chlorine	33	11	22	0	25	8	0
325182	Carbon Black	22	W	W	0	18	4	0
325188	Other Basic Inorganic Chemicals	515	42	400	73	141	328	46
325192	Cyclic Crudes and Intermediates	37	W	31	W	19	14	4
325193	Ethyl Alcohol	48	8	38	1	25	23	0
325199	Other Basic Organic Chemicals	578	184	336	58	338	226	14
325211	Plastics Materials and Resins	709	55	623	30	362	315	33
325212	Synthetic Rubber	125	22	98	5	64	56	5
325222	Noncellulosic Organic Fibers	64	23	41	0	43	21	0
325311	Nitrogenous Fertilizers	56	6	44	6	31	18	7
325312	Phosphatic Fertilizers	27	5	22	0	18	8	1
3254	Pharmaceuticals and Medicines	1,143	467	665	11	463	657	23
325412	Pharmaceutical Preparation	606	240	362	3	252	351	3
325992	Photographic Film, Paper, Plate, and Chemicals	171	28	143	0	38	133	0
326	Plastics and Rubber Products	10,538	669	9,110	759	2,172	7,556	810
327	Nonmetallic Mineral Products	11,593	993	9,431	1,170	3,407	6,937	1,250
3272	Glass and Glass Products	1,047	162	858	27	499	517	31
327211	Flat Glass	38	5	24	9	25	5	8
327213	Glass Containers	61	W	57	W	53	7	1
327310	Cements	195	24	166	4	160	34	1
327410	Lime	65	16	43	6	39	18	8
327993	Mineral Wool	207	13	193	2	59	148	1

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002

Level: National Data;

Row: NAICS Codes;

Column: Usage within General Energy-Saving Technologies

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Waste Heat Recovery			Adjustable - Speed Motors			Oxy - Fuel Firing			RSE Row Factors
		In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	
RSE Column Factors:		1	0.8	1.2	0.9	1	1.1	1.1	0.7	1.1	
311	Food	2,102	11,722	1,265	6,515	6,732	1,842	227	12,995	1,867	7.6
311221	Wet Corn Milling	28	20	1	37	9	2	0	46	4	1
31131	Sugar	42	31	4	56	16	5	5	63	10	1
311421	Fruit and Vegetable Canning	111	303	54	273	136	58	15	322	131	10.5
312	Beverage and Tobacco Products	111	1,133	351	653	607	335	16	1,232	347	15.5
3121	Beverages	98	1,072	347	605	582	330	W	1,163	W	16.6
3122	Tobacco	13	61	4	49	25	5	W	69	W	1
313	Textile Mills	225	1,879	144	1,182	938	128	29	2,021	191	6.6
314	Textile Product Mills	43	2,820	594	459	2,348	651	W	2,921	W	10.9
315	Apparel	114	4,253	1,133	233	3,996	1,271	W	4,337	W	6.2
316	Leather and Allied Products	14	547	138	114	438	146	0	553	146	17.8
321	Wood Products	384	9,273	830	2,285	6,803	1,399	31	9,562	894	2.3
321113	Sawmills	104	1,836	296	668	1,150	417	12	1,868	356	4.3
3212	Veneer, Plywood, and Engineered Woods	136	1,262	80	424	923	131	19	1,334	125	6.7
3219	Other Wood Products	132	5,919	410	1,141	4,515	805	0	6,086	375	3.3
322	Paper	506	3,294	458	2,222	1,414	621	42	3,715	501	1.9
322110	Pulp Mills	24	9	1	31	W	W	W	29	W	1.1
322121	Paper Mills, except Newsprint	166	132	25	252	41	29	13	271	38	10.2
322122	Newsprint Mills	18	W	W	18	W	W	W	17	W	1
322130	Paperboard Mills	85	116	10	172	29	9	10	158	42	1.8
323	Printing and Related Support	285	17,171	2,764	2,690	14,022	3,508	44	16,757	3,419	4.8
324	Petroleum and Coal Products	297	1,340	279	819	754	343	16	1,573	327	12.8
324110	Petroleum Refineries	167	41	7	142	44	29	7	183	25	2.7
324199	Other Petroleum and Coal Products	12	21	14	32	10	4	W	25	W	1
325	Chemicals	1,164	7,152	593	3,785	4,578	547	107	8,043	759	2.4
325110	Petrochemicals	22	11	5	19	11	7	W	26	W	1
325120	Industrial Gases	167	322	38	109	379	38	W	486	W	7.8
325181	Alkalies and Chlorine	20	13	0	21	12	0	0	32	1	1.1
325182	Carbon Black	15	7	0	19	3	0	W	W	1	1.1
325188	Other Basic Inorganic Chemicals	84	354	77	148	288	79	8	405	101	11.9
325192	Cyclic Crudes and Intermediates	17	17	2	19	16	2	0	33	4	1
325193	Ethyl Alcohol	14	34	0	19	23	6	0	41	7	1
325199	Other Basic Organic Chemicals	205	353	20	393	156	29	8	444	126	2.3
325211	Plastics Materials and Resins	120	551	37	283	387	38	9	649	52	2.6
325212	Synthetic Rubber	27	93	6	69	48	8	33	87	5	1.7
325222	Noncellulosic Organic Fibers	23	40	1	58	4	3	4	55	5	1
325311	Nitrogenous Fertilizers	32	16	7	36	13	7	W	45	W	1
325312	Phosphatic Fertilizers	19	6	1	21	W	W	W	19	W	1
3254	Pharmaceuticals and Medicines	93	1,036	14	577	552	14	8	1,111	24	3.3
325412	Pharmaceutical Preparation	61	540	5	363	239	4	5	593	9	4
325992	Photographic Film, Paper, Plate, and Chemicals	9	162	0	75	93	2	3	168	0	6.9
326	Plastics and Rubber Products	719	9,153	665	3,294	6,203	1,024	16	9,719	803	2
327	Nonmetallic Mineral Products	547	9,749	1,298	2,614	7,367	1,613	150	10,118	1,326	8.1
3272	Glass and Glass Products	97	832	118	526	423	98	58	874	115	12.3
327211	Flat Glass	10	19	9	27	3	8	13	17	8	1
327213	Glass Containers	35	25	1	52	5	4	15	46	0	1
327310	Cements	78	115	2	129	63	2	12	173	10	2.6
327410	Lime	17	45	3	49	8	9	0	55	10	1
327993	Mineral Wool	22	180	7	112	88	8	16	183	9	10.3

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002

Level: National Data;

Row: NAICS Codes;

Column: Usage within General Energy-Saving Technologies

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments(b)	Computer Control of Building Wide Environment(c)			Computer Control of Processes or Major Energy-Using Equipment(d)		
			In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know
331	Primary Metals	4,166	306	3,582	277	1,200	2,678	288
331111	Iron and Steel Mills	771	30	632	109	187	459	125
331112	Electrometallurgical Ferroalloy Products	15	W	12	W	8	4	2
3312	Steel Products from Purchased Steel	548	W	489	W	129	391	28
3313	Alumina and Aluminum	446	45	349	52	191	201	54
331312	Primary Aluminum	41	9	29	4	29	10	2
3314	Nonferrous Metals, except Aluminum	671	69	575	28	230	412	29
3315	Foundries	1,715	125	1,527	63	455	1,210	50
331511	Iron Foundries	453	48	398	7	184	265	4
331521	Aluminum Die-Casting Foundries	227	16	189	22	59	164	4
331524	Aluminum Foundries, except Die-Casting	341	15	319	7	80	251	9
332	Fabricated Metal Products	35,349	2,409	29,597	3,343	3,389	28,489	3,471
333	Machinery	17,381	2,109	13,635	1,638	2,212	13,492	1,677
334	Computer and Electronic Products	9,238	2,476	5,825	937	1,581	6,677	980
334413	Semiconductors and Related Devices	578	182	394	2	179	387	12
335	Electrical Equip., Appliances, and Components	3,886	628	2,863	395	589	2,886	412
336	Transportation Equipment	7,653	1,214	5,997	442	1,297	5,870	486
336112	Light Trucks and Utility Vehicles	42	28	12	2	31	9	2
337	Furniture and Related Products	10,941	442	9,382	1,117	525	9,211	1,204
339	Miscellaneous	15,605	1,450	12,517	1,638	1,114	12,480	2,011
	Total	200,710	19,073	161,618	20,019	30,376	149,588	20,746

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

(b) The 'Establishments' column includes those units which reported any of the five listed energy-saving technologies in use anytime in 2002, plus those units where usage of those energy-saving technologies was not ascertained.

(c) Some examples are space-heating equipment, cooling equipment, and lights.

(d) Some examples are boilers, furnaces, and conveyors used in the manufacturing process

(e) This count includes only those establishments that reported this technology in use anytime in 2002.

NF=No applicable RSE row/column factor.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002

Level: National Data;

Row: NAICS Codes;

Column: Usage within General Energy-Saving Technologies

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Waste Heat Recovery			Adjustable - Speed Motors			Oxy - Fuel Firing			RSE Row Factors
		In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	
331	Primary Metals	389	3,468	309	1,507	2,200	449	170	3,511	485	4
331111	Iron and Steel Mills	57	605	109	252	389	131	60	588	123	9.7
331112	Electrometallurgical Ferroalloy Products	3	9	2	10	3	2	0	12	3	1
3312	Steel Products from Purchased Steel	47	472	29	268	244	37	12	502	35	4.6
3313	Alumina and Aluminum	46	329	71	191	137	118	26	297	123	4.5
331312	Primary Aluminum	5	33	2	28	11	2	5	31	5	2
3314	Nonferrous Metals, except Aluminum	83	558	30	273	355	33	24	569	78	3.5
3315	Foundries	153	1,495	67	514	1,072	129	48	1,544	123	4.7
331511	Iron Foundries	48	392	14	190	247	17	31	403	19	5.7
331521	Aluminum Die-Casting Foundries	14	208	5	71	142	13	3	201	23	1.2
331524	Aluminum Foundries, except Die-Casting	38	292	11	95	222	25	W	305	W	3.9
332	Fabricated Metal Products	1,106	31,369	2,874	6,228	25,046	4,075	347	30,999	4,003	4.2
333	Machinery	646	15,355	1,380	3,698	11,445	2,238	166	15,142	2,073	3
334	Computer and Electronic Products	264	8,121	853	1,758	6,537	943	7	8,362	869	2
334413	Semiconductors and Related Devices	57	506	15	229	335	14	4	545	29	3.5
335	Electrical Equip., Appliances, and Components	140	3,300	446	1,045	2,250	591	31	3,355	500	10.8
336	Transportation Equipment	587	6,508	557	2,439	4,487	727	62	6,754	837	2
336112	Light Trucks and Utility Vehicles	10	17	15	34	6	2	0	38	4	1
337	Furniture and Related Products	219	9,545	1,177	1,246	8,152	1,542	0	9,748	1,193	5.3
339	Miscellaneous	232	13,594	1,779	3,093	10,378	2,134	W	13,592	W	2.4
	Total	10,095	170,744	19,871	47,879	126,692	26,139	1,488	175,008	24,214	1.8

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

(b) The 'Establishments' column includes those units which reported any of the five listed energy-saving technologies in use anytime in 2002, plus those units where usage of those energy-saving technologies was not ascertained.

(c) Some examples are space-heating equipment, cooling equipment, and lights.

(d) Some examples are boilers, furnaces, and conveyors used in the manufacturing process

(e) This count includes only those establishments that reported this technology in use anytime in 2002.

NF=No applicable RSE row/column factor.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'