

Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2010;

Level: National Data;
 Row: NAICS Codes; Column: Energy Sources and Shipments;
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)
Total United States											
311	Food	13,269	13,265	151	2,494	10,376	4,061	64	7	1,668	W
3112	Grain and Oilseed Milling	602	602	9	201	490	286	30	0	165	W
311221	Wet Corn Milling	59	59	W	26	50	36	15	0	29	0
31131	Sugar Manufacturing	73	73	3	36	67	13	11	7	15	0
3114	Fruit and Vegetable Preserving and Specialty Foods	987	987	18	207	840	503	W	0	242	0
3115	Dairy Products	998	998	12	219	909	163	W	0	89	0
3116	Animal Slaughtering and Processing	1,709	1,709	78	514	1,262	584	W	0	332	0
312	Beverage and Tobacco Products	2,093	2,093	Q	364	1,275	1,165	12	0	202	0
3121	Beverages	2,022	2,022	W	337	1,221	1,127	7	0	191	0
3122	Tobacco	71	71	W	26	54	38	5	0	11	0
313	Textile Mills	1,341	1,341	49	161	1,059	617	23	0	130	0
314	Textile Product Mills	3,531	3,531	W	Q	1,969	779	W	0	437	0
315	Apparel	4,193	4,193	0	Q	1,979	Q	0	0	W	0
316	Leather and Allied Products	452	452	W	17	231	143	0	0	W	0
321	Wood Products	7,727	7,709	67	2,934	3,152	4,234	Q	0	2,494	0
321113	Sawmills	1,660	1,647	13	906	348	588	0	0	794	0
3212	Veneer, Plywood, and Engineered Woods	1,228	1,228	Q	522	630	743	4	0	334	0
321219	Reconstituted Wood Products	182	182	3	98	137	137	W	0	88	0
3219	Other Wood Products	4,521	4,515	W	1,358	2,016	2,781	W	0	1,278	0
322	Paper	3,733	3,733	125	584	2,984	2,425	93	W	614	0
322110	Pulp Mills	41	41	17	28	32	27	0	0	28	0
322121	Paper Mills, except Newsprint	204	204	46	103	177	150	51	0	104	0
322122	Newsprint Mills	26	26	4	18	15	20	6	0	19	0
322130	Paperboard Mills	177	177	48	99	147	134	30	W	102	0
323	Printing and Related Support	15,313	15,313	W	250	10,138	2,475	0	0	473	0
324	Petroleum and Coal Products	2,024	2,017	161	1,006	1,317	689	14	4	612	27
324110	Petroleum Refineries(i)(j)	232	231	29	110	204	107	W	0	189	0
324121	Asphalt Paving Mixture and Block	1,338	1,332	126	743	767	243	W	0	286	0
324199	Other Petroleum and Coal Products	48	48	W	33	44	20	9	4	35	25
325	Chemicals	8,289	8,288	53	1,602	6,381	3,798	81	Q	1,348	46
325110	Petrochemicals	40	40	3	24	39	27	0	0	26	16
325120	Industrial Gases	486	486	0	18	176	Q	0	0	11	11
325181	Alkalies and Chlorine	35	35	0	21	27	20	6	0	22	0
325182	Carbon Black	33	32	13	12	31	8	0	0	11	0
325188	Other Basic Inorganic Chemicals	470	470	W	205	399	263	6	W	154	W
325192	Cyclic Crudes and Intermediates	24	24	W	14	23	13	0	0	15	W
325193	Ethyl Alcohol	185	185	0	84	170	59	12	0	62	0
325199	Other Basic Organic Chemicals	476	476	W	174	426	280	8	0	242	5
325211	Plastics Materials and Resins	744	744	3	172	628	440	5	W	204	6
325212	Synthetic Rubber	126	126	0	20	78	53	W	0	26	0
325222	Noncellulosic Organic Fibers	77	77	5	23	59	42	4	0	24	W
325311	Nitrogenous Fertilizers	70	70	W	40	44	30	0	0	30	W
325312	Phosphatic Fertilizers	65	65	W	24	32	24	W	0	26	0
3254	Pharmaceuticals and Medicines	1,178	1,178	9	213	990	227	6	0	115	0
325412	Pharmaceutical Preparation	609	609	W	129	500	117	6	0	59	0
325992	Photographic Film, Paper, Plate, and Chemicals	138	138	W	21	117	37	W	0	20	0
326	Plastics and Rubber Products	8,268	8,268	W	571	6,374	4,280	W	0	899	0
327	Nonmetallic Mineral Products	11,997	11,997	Q	5,696	6,536	3,853	260	28	2,267	0
327121	Brick and Structural Clay Tile	156	156	W	87	147	46	13	0	66	0
327211	Flat Glass	51	51	0	36	47	36	W	0	36	0
327212	Other Pressed and Blown Glass and Glassware	163	163	0	39	140	77	0	0	43	0
327213	Glass Containers	68	68	0	39	63	46	0	0	35	0
327215	Glass Products from Purchased Glass	561	561	0	48	412	229	W	0	146	0
327310	Cements	209	209	5	150	128	86	97	W	112	0
327410	Lime	83	83	W	63	43	36	51	W	55	0
327420	Gypsum	138	138	W	65	113	111	0	0	35	0
327993	Mineral Wool	203	203	0	69	150	95	0	12	43	0
331	Primary Metals	3,196	3,196	12	928	2,715	1,790	77	125	1,049	17
331111	Iron and Steel Mills	427	427	4	168	348	190	52	31	185	13
331112	Electrometallurgical Ferroalloy Products	20	20	0	16	17	9	W	W	13	0
3312	Steel Products from Purchased Steel	418	418	W	121	319	237	W	W	161	0
3313	Alumina and Aluminum	388	388	W	125	289	202	0	0	116	W
331314	Secondary Smelting and Alloying of Aluminum	79	79	W	49	71	50	0	0	29	0
331315	Aluminum Sheet, Plate and Foils	67	67	0	31	61	41	0	0	23	W
331316	Aluminum Extruded Products	133	133	0	33	128	95	0	0	47	0
3314	Nonferrous Metals, except Aluminum	602	602	W	149	487	347	6	18	197	W
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Aluminum	82	82	0	31	69	50	6	W	37	0
3315	Foundries	1,341	1,341	W	348	1,254	804	11	65	377	W
331511	Iron Foundries	332	332	0	180	313	227	11	64	137	W
331521	Aluminum Die-Casting Foundries	162	162	0	7	136	112	0	0	49	0
331524	Aluminum Foundries, except Die-Casting	271	271	W	54	252	150	0	0	42	0
332	Fabricated Metal Products	32,369	32,369	W	3,791	23,274	16,298	W	W	5,830	0
333	Machinery	14,370	14,370	W	1,417	10,802	6,230	0	0	2,626	0

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NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)
334	Computer and Electronic Products	6,685	6,685	5	509	4,021	1,088	0	0	574	0
334413	Semiconductors and Related Devices	419	419	W	64	291	66	0	0	97	0
335	Electrical Equip., Appliances, and Components	3,294	3,294	W	425	2,859	1,140	W	W	605	W
336	Transportation Equipment	6,270	6,270	16	1,054	4,667	3,616	7	0	1,762	0
336111	Automobiles	68	68	0	8	44	41	W	0	11	0
336112	Light Trucks and Utility Vehicles	50	50	0	10	38	9	W	0	11	0
3364	Aerospace Product and Parts	1,077	1,077	W	147	895	334	W	0	235	0
336411	Aircraft	278	278	10	64	255	98	0	0	96	0
337	Furniture and Related Products	8,257	8,187	0	512	5,022	3,643	W	0	479	0
339	Miscellaneous	13,494	13,491	W	473	9,530	4,072	W	0	1,187	0
	Total	170,166	170,062	1,094	24,991	116,661	66,739	959	188	25,325	94

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

(b) 'Any Energy Source' represents the non-duplicative total of establishments identified with any of the listed energy sources. This count includes only those establishments that reported this activity in 2010.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(f) Examples of Liquefied Petroleum Gases ('LPG') are 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 ('NGL').

(g) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs. See also Footnote 'i'.

(h) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use. Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source. Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

(i) For the petroleum refining industry only, the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. The remaining columns for the petroleum refining industry include only energy that was consumed for the production of heat and power. The 'Other' column also includes net steam and other energy that respondents indicated was used in the production of heat and power. Those inputs and feedstocks that were converted to other energy products (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

(j) The establishment counts from the current frame represent the best classifications available according to current procedures. However, some errors in classification can produce results that are in obvious disagreement with other known sources. Such is the case for Petroleum Refineries, NAICS 324110. Upon later examination, this industry includes establishments that should probably be classified in other industries within 324. Their influence on energy consumption quantities should be minimal due to the relatively much higher energy intensities of correctly classified petroleum refineries.

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

The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstocks or raw material inputs.

First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy.

Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as

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wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing Energy Consumption Survey,' and Office of Petroleum and Biofuels Statistics, Form EIA-810, Monthly Refinery Report' for 2010.