

Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources and Shipments;
Unit: Trillion Btu.

Economic Characteristic(a)	Total(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)	RSE Row Factors
Total United States											
RSE Column Factors:	0.8	0.9	1.4	2.7	0.8	0.6	2	1.4	1.1	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	1,370	436	15	55	617	32	W	W	167	W	10.1
20-49	1,503	407	47	25	598	13	W	W	281	10	4.9
50-99	1,832	394	35	15	839	40	W	W	310	61	4.3
100-249	3,060	561	53	17	1,194	473	W	W	545	W	3.1
250-499	3,562	458	57	18	952	627	W	W	968	55	4.6
500 and Over	8,031	584	47	21	2,267	1,885	730	322	2,692	518	1.4
Not Ascertained (i)	3,307	0	0	0	0	0	0	0	3,307	0	0
Total	22,669	2,840	255	151	6,468	3,070	1,959	385	8,271	730	2.4
Employment Size											
Under 50	972	247	W	45	437	105	W	W	183	91	7
50-99	1,601	248	W	W	669	157	W	W	180	22	8.5
100-249	3,517	617	W	29	1,203	781	W	W	605	127	4.1
250-499	3,975	619	43	15	1,350	866	W	W	924	159	4
500-999	4,455	546	64	19	1,245	524	W	W	1,926	158	3
1000 and Over	4,839	564	W	W	1,564	637	713	323	1,147	173	1.5
Not Ascertained (i)	3,307	0	0	0	0	0	0	0	3,307	0	0
Total	22,669	2,840	255	151	6,468	3,070	1,959	385	8,271	730	2.4
Northeast Census Region											
RSE Column Factors:	0.8	1.4	1.4	2.3	1.2	1.3	0.8	0.9	0.8	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	264	89	W	W	105	W	W	W	15	5	10.9
20-49	223	58	11	6	80	W	W	W	21	*	6.3
50-99	205	52	11	3	95	W	11	W	29	0	4
100-249	265	59	17	2	80	17	W	W	66	*	2.5
250-499	165	26	W	W	72	W	W	0	52	0	2.5
500 and Over	476	49	16	2	108	1	220	0	193	114	1.1
Not Ascertained (i)	276	0	0	0	0	0	0	0	276	0	0
Total	1,877	334	68	30	541	27	332	14	651	119	3.6
Employment Size											
Under 50	132	39	3	10	53	3	W	W	17	0	13
50-99	164	53	8	W	67	W	W	W	11	0	16.1
100-249	326	74	14	8	110	19	W	W	37	W	4
250-499	267	67	15	3	106	1	W	W	69	0	3.2
500-999	338	52	18	2	99	W	W	W	150	0	2.5

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1000 and Over	372	48	10	W	105	W	228	0	92	W	1.5
Not Ascertained (i)	276	0	0	0	0	0	0	0	276	0	0
Total	1,877	334	68	30	541	27	332	14	651	119	3.6
Midwest Census Region											
RSE Column Factors:	0.8	0.9	1.8	3.4	0.9	1.2	1.1	0.9	1.2	0.2	
Value of Shipments and Receipts (million dollars)											
Under 20	525	146	W	W	247	W	W	W	91	17	13.5
20-49	390	119	8	3	180	W	23	W	59	8	7.1
50-99	574	128	1	4	286	W	W	W	48	2	9.6
100-249	574	140	5	3	236	14	103	6	68	*	3.4
250-499	496	141	W	W	179	W	76	W	90	0	8.6
500 and Over	1,741	185	11	11	460	113	364	234	395	33	1.9
Not Ascertained (i)	401	0	0	0	0	0	0	0	401	0	0
Total	4,701	858	28	32	1,588	164	675	261	1,152	59	3.7
Employment Size											
Under 50	331	78	W	4	160	16	21	W	Q	W	7.5
50-99	347	70	W	W	217	W	21	W	25	W	10.7
100-249	757	169	W	6	297	11	128	W	136	W	9.3
250-499	979	202	3	5	323	123	162	W	159	W	6.5
500-999	649	138	4	2	196	3	55	9	243	0	2.7
1000 and Over	1,237	201	W	W	395	W	289	235	121	W	2.7
Not Ascertained (i)	401	0	0	0	0	0	0	0	401	0	0
Total	4,701	858	28	32	1,588	164	675	261	1,152	59	3.7
South Census Region											
RSE Column Factors:	1	1.1	1.2	2.8	1	0.6	2.7	0.6	1	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	387	144	Q	16	164	W	W	W	47	W	10.5
20-49	671	170	27	10	261	W	W	W	146	0	7.8
50-99	844	170	21	5	368	23	W	W	190	59	3.7
100-249	1,769	273	28	11	690	441	76	W	297	W	4.2
250-499	2,665	241	46	10	624	625	W	W	730	55	3.3
500 and Over	5,094	302	19	7	1,517	1,763	145	88	1,624	371	1.2
Not Ascertained (i)	2,263	0	0	0	0	0	0	0	2,263	0	0
Total	13,692	1,301	146	59	3,625	2,862	845	105	5,297	549	2.7
Employment Size											
Under 50	356	94	Q	16	159	W	W	W	67	W	7

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Economic Characteristic(a)	Total(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)	RSE Row Factors
50-99	929	91	26	6	310	W	W	W	130	W	9.3
100-249	1,948	280	38	10	653	747	W	W	242	W	3.8
250-499	2,206	264	20	6	708	739	W	W	503	W	2.4
500-999	3,077	307	41	14	832	519	203	5	1,314	158	3.7
1000 and Over	2,912	264	19	6	963	629	195	87	779	31	1.5
Not Ascertained (i)	2,263	0	0	0	0	0	0	0	2,263	0	0
Total	13,692	1,301	146	59	3,625	2,862	845	105	5,297	549	2.7
West Census Region											
RSE Column Factors:	1.2	1.4	0.6	4	1.7	3.5	0.5	0.3	1.4	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	194	58	1	14	100	2	W	W	14	0	7.5
20-49	220	60	1	5	77	4	22	*	54	3	3.8
50-99	209	44	2	3	89	1	W	W	44	0	3.9
100-249	452	88	4	2	189	1	52	2	115	0	2.1
250-499	236	51	3	5	77	1	W	W	97	0	4.3
500 and Over	720	46	2	1	183	7	0	0	480	0	3.8
Not Ascertained (i)	367	0	0	0	0	0	0	0	367	0	0
Total	2,398	347	13	30	715	17	106	4	1,170	3	3
Employment Size											
Under 50	152	35	*	15	65	W	W	*	30	3	5.5
50-99	160	33	1	3	74	W	W	*	15	0	6.8
100-249	486	94	5	5	143	3	46	2	190	0	3.4
250-499	523	87	6	1	213	3	18	1	194	0	3.4
500-999	392	48	1	1	118	W	W	*	220	0	1.8
1000 and Over	318	51	*	6	102	4	*	0	155	0	1.8
Not Ascertained (i)	367	0	0	0	0	0	0	0	367	0	0
Total	2,398	347	13	30	715	17	106	4	1,170	3	3

(a) Value of Shipments and Receipts and Employment Size categories were supplied by the Bureau of the Census.

(b) 'Total' is the sum of all of the listed energy sources, including 'Other,' minus the shipments of energy sources produced onsite. It is the total amount of first use of energy for all (fuel and nonfuel) purposes.

(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.

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(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) The entry in the 'Not Ascertained' row and the 'Other' column consists of the feedstocks and raw material inputs that were consumed by petroleum refineries for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents), as well as feedstock consumption at adjoining petrochemical plants. That entry includes all of those inputs, regardless of type. Those inputs that were converted to other energy products by petroleum refineries (e.g., crude oil converted to residual and distillate fuel oils) are excluded. The quantities of energy consumed by petroleum refineries for the production of heat and power are included in the appropriate 'Value of Shipments and Receipts' or 'Employment Size' rows.

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. 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 wastepaper and packing materials. First use excludes quantities of energy that are produced

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from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002, and the Bureau of the Census, data files for the '2002 Economic Census, Manufacturing - Industry Series.'