

**Table 3.3 Fuel Consumption, 2002;**  
**Level: National and Regional Data;**  
**Row: Values of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Trillion Btu.**

<b>Economic Characteristic(a)</b>	<b>Total</b>	<b>Net Electricity(b)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil(c)</b>	<b>Natural Gas(d)</b>	<b>LPG and NGL(e)</b>	<b>Coal</b>	<b>Coke and Breeze</b>	<b>Other(f)</b>	<b>RSE Row Factors</b>
<b>Total United States</b>										
<b>RSE Column Factors:</b>	0.6	0.7	1.3	2.1	0.7	1.4	1.5	0.7	0.9	
<b>Value of Shipments and Receipts (million dollars)</b>										
Under 20	1,312	436	15	50	598	W	47	W	132	13.9
20-49	1,465	407	28	22	590	W	112	W	289	6.9
50-99	1,598	394	17	W	731	7	185	W	237	4.5
100-249	2,385	561	43	17	972	8	253	7	525	4.2
250-499	2,598	458	57	W	826	W	326	W	906	5.4
500 and Over	6,914	584	47	21	2,077	55	259	530	3,342	1.5
<b>Total</b>	<b>16,273</b>	<b>2,840</b>	<b>208</b>	<b>141</b>	<b>5,794</b>	<b>103</b>	<b>1,182</b>	<b>574</b>	<b>5,431</b>	<b>2.9</b>
<b>Employment Size</b>										
Under 50	884	247	W	39	419	14	37	W	W	11
50-99	1,091	248	W	17	546	8	88	W	151	11.6
100-249	2,706	617	33	28	1,049	13	292	W	W	5
250-499	3,131	619	43	15	1,229	13	253	13	945	6
500-999	4,001	546	64	18	1,089	44	269	9	1,961	3.6
1000 and Over	4,460	564	39	24	1,461	10	242	531	1,589	2.2
<b>Total</b>	<b>16,273</b>	<b>2,840</b>	<b>208</b>	<b>141</b>	<b>5,794</b>	<b>103</b>	<b>1,182</b>	<b>574</b>	<b>5,431</b>	<b>2.9</b>
<b>Northeast Census Region</b>										
<b>RSE Column Factors:</b>	0.7	1.2	1.2	2	1.1	1.9	0.7	0.6	0.6	
<b>Value of Shipments and Receipts (million dollars)</b>										
Under 20	254	89	9	W	105	4	W	W	W	14.8
20-49	196	58	11	6	80	2	22	W	W	7.7
50-99	203	52	11	W	94	1	11	W	W	4.9
100-249	239	59	16	2	80	1	23	*	58	3.6
250-499	166	26	5	W	72	1	W	0	W	2.7
500 and Over	472	49	16	W	107	1	W	W	W	1.2
<b>Total</b>	<b>1,530</b>	<b>334</b>	<b>68</b>	<b>30</b>	<b>538</b>	<b>9</b>	<b>92</b>	<b>38</b>	<b>422</b>	<b>4.2</b>

**Table 3.3 Fuel Consumption, 2002;**  
**Level: National and Regional Data;**  
**Row: Values of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Trillion Btu.**

<b>Economic Characteristic(a)</b>	<b>Total</b>	<b>Net Electricity(b)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil(c)</b>	<b>Natural Gas(d)</b>	<b>LPG and NGL(e)</b>	<b>Coal</b>	<b>Coke and Breeze</b>	<b>Other(f)</b>	<b>RSE Row Factors</b>
<b>Employment Size</b>										
Under 50	127	39	3	10	53	2	W	0	W	11.5
50-99	160	53	8	W	67	W	9	W	W	12.1
100-249	283	74	14	W	110	3	W	W	W	5.7
250-499	257	67	15	3	105	W	6	1	W	4.3
500-999	336	52	18	W	99	W	W	1	W	3.2
1000 and Over	368	48	10	W	104	W	W	W	W	1.5
<b>Total</b>	<b>1,530</b>	<b>334</b>	<b>68</b>	<b>30</b>	<b>538</b>	<b>9</b>	<b>92</b>	<b>38</b>	<b>422</b>	<b>4.2</b>
<b>Midwest Census Region</b>										
<b>RSE Column Factors:</b>	<b>0.7</b>	<b>0.8</b>	<b>1.7</b>	<b>3</b>	<b>0.8</b>	<b>2.3</b>	<b>1</b>	<b>0.2</b>	<b>0.9</b>	
<b>Value of Shipments and Receipts (million dollars)</b>										
Under 20	509	146	Q	W	241	W	22	W	W	15.3
20-49	390	119	2	2	179	W	23	2	W	10.2
50-99	496	128	1	4	236	3	75	4	46	7.9
100-249	552	140	5	2	231	W	103	W	W	4.9
250-499	458	141	Q	W	173	W	76	W	W	7.8
500 and Over	1,804	185	11	11	434	6	146	400	611	2.6
<b>Total</b>	<b>4,209</b>	<b>858</b>	<b>22</b>	<b>29</b>	<b>1,494</b>	<b>20</b>	<b>445</b>	<b>419</b>	<b>921</b>	<b>5</b>
<b>Employment Size</b>										
Under 50	318	78	W	3	150	W	21	W	W	9.6
50-99	298	70	W	W	176	W	21	W	W	13.1
100-249	723	169	4	W	286	3	W	5	W	9.9
250-499	884	202	3	4	319	5	162	Q	183	6.7
500-999	631	138	4	1	196	3	55	8	226	3.2
1000 and Over	1,355	201	9	W	367	W	W	399	W	2.8
<b>Total</b>	<b>4,209</b>	<b>858</b>	<b>22</b>	<b>29</b>	<b>1,494</b>	<b>20</b>	<b>445</b>	<b>419</b>	<b>921</b>	<b>4.9</b>

**South Census Region**

<b>RSE Column Factors:</b>	<b>0.7</b>	<b>0.7</b>	<b>1.3</b>	<b>1.9</b>	<b>0.7</b>	<b>1.7</b>	<b>1.9</b>	<b>0.4</b>	<b>0.8</b>	
----------------------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	--

**Value of Shipments and Receipts**

**Table 3.3 Fuel Consumption, 2002;**  
**Level: National and Regional Data;**  
**Row: Values of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Trillion Btu.**

<b>Economic Characteristic(a)</b>	<b>Total</b>	<b>Net Electricity(b)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil(c)</b>	<b>Natural Gas(d)</b>	<b>LPG and NGL(e)</b>	<b>Coal</b>	<b>Coke and Breeze</b>	<b>Other(f)</b>	<b>RSE Row Factors</b>
<b>(million dollars)</b>										
Under 20	364	144	Q	14	156	6	W	W	W	14.6
20-49	680	170	15	9	256	W	45	4	W	10.9
50-99	696	170	3	W	312	3	74	W	W	6.4
100-249	1,192	273	18	11	507	4	74	2	302	6.4
250-499	1,740	241	46	W	504	W	238	W	W	5.1
500 and Over	3,919	302	19	W	1,352	40	W	W	W	1.1
<b>Total</b>	<b>8,589</b>	<b>1,301</b>	<b>107</b>	<b>54</b>	<b>3,086</b>	<b>58</b>	<b>540</b>	<b>116</b>	<b>3,327</b>	<b>3.5</b>
<b>Employment Size</b>										
Under 50	310	94	Q	14	154	W	4	W	W	13.8
50-99	480	91	14	5	232	3	27	W	W	16
100-249	1,221	280	10	10	511	5	93	W	W	7.8
250-499	1,512	264	20	6	625	W	68	6	W	3.6
500-999	2,647	307	41	14	676	39	201	*	1,369	4.4
1000 and Over	2,419	264	19	5	888	W	148	W	W	2.2
<b>Total</b>	<b>8,589</b>	<b>1,301</b>	<b>107</b>	<b>54</b>	<b>3,086</b>	<b>58</b>	<b>540</b>	<b>116</b>	<b>3,327</b>	<b>3.5</b>
<b>West Census Region</b>										
<b>RSE Column Factors:</b>	1.1	1.2	0.5	3.5	1.5	2.8	0.4	0.2	1.3	
<b>Value of Shipments and Receipts (million dollars)</b>										
Under 20	184	58	1	11	95	W	W	W	W	9.1
20-49	200	60	*	5	76	W	22	W	W	4.8
50-99	203	44	2	3	89	1	25	W	W	4.5
100-249	402	88	4	2	155	W	52	W	W	2.6
250-499	235	51	3	5	77	W	W	0	96	5
500 and Over	720	46	2	1	183	7	0	0	480	4.3
<b>Total</b>	<b>1,945</b>	<b>347</b>	<b>12</b>	<b>28</b>	<b>676</b>	<b>16</b>	<b>105</b>	<b>1</b>	<b>761</b>	<b>3.5</b>
<b>Employment Size</b>										
Under 50	129	35	*	12	62	2	W	*	W	7.9
50-99	153	33	1	3	71	2	32	*	12	8.4
100-249	479	94	5	5	143	2	46	*	186	3.6
250-499	478	87	6	1	180	3	18	1	182	4.1

**Table 3.3 Fuel Consumption, 2002;**  
**Level: National and Regional Data;**  
**Row: Values of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Trillion Btu.**

<b>Economic Characteristic(a)</b>	<b>Total</b>	<b>Net Electricity(b)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil(c)</b>	<b>Natural Gas(d)</b>	<b>LPG and NGL(e)</b>	<b>Coal</b>	<b>Coke and Breeze</b>	<b>Other(f)</b>	<b>RSE Row Factors</b>
500-999	388	48	1	W	118	W	W	0	W	1.8
1000 and Over	318	51	*	W	102	W	*	0	155	2
Total	1,945	347	12	28	676	16	105	1	761	3.5

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

(b) '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).

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

(d) '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.

(e) 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).'

(f) '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.

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 estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced

**Table 3.3 Fuel Consumption, 2002;**  
**Level: National and Regional Data;**  
**Row: Values of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Trillion Btu.**

<b>Economic Characteristic(a)</b>	<b>Total</b>	<b>Net Electricity(b)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil(c)</b>	<b>Natural Gas(d)</b>	<b>LPG and NGL(e)</b>	<b>Coal</b>	<b>Coke and Breeze</b>	<b>Other(f)</b>	<b>RSE Row Factors</b>
---------------------------------------	--------------	-------------------------------	------------------------------	-----------------------------------	---------------------------	---------------------------	-------------	----------------------------	-----------------	--------------------------------

onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.

During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.

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.'