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 Next MECS will be fielded in 2019

Table 3.3 Fuel Consumption, 2014;

Level: National and Regional Data;
 Row: Values of Shipments and Employment Sizes;
 Column: Energy Sources;
 Unit: Trillion Btu.

Economic Characteristic(a)	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal	Coke and Breeze	Other(f)
Total United States									
Value of Shipments and Receipts									
(million dollars)									
Under 20	885	314	2	29	392	15	14	2	117
20-49	823	287	1	13	344	10	80	4	84
50-99	1,317	352	2	11	540	7	128	5	271
100-249	1,877	464	4	11	871	10	129	28	359
250-499	1,965	354	9	12	772	3	124	3	689
500 and Over	8,035	829	12	23	2,938	39	300	280	3,613
Total	14,903	2,600	30	99	5,858	84	776	323	5,132
Employment Size									
Under 50	1,138	298	3	28	607	12	40	1	148
50-99	1,094	281	Q	10	595	7	71	2	128
100-249	2,457	604	6	21	1,060	20	226	32	489
250-499	3,231	557	5	13	1,186	14	209	5	1,241
500-999	3,769	514	13	16	1,204	10	121	8	1,883
1000 and Over	3,214	347	3	12	1,206	19	109	276	1,242
Total	14,903	2,600	30	99	5,858	84	776	323	5,132
Northeast Census Region									
Value of Shipments and Receipts									
(million dollars)									
Under 20	156	44	*	6	54	3	*	*	50
20-49	114	40	Q	2	45	2	6	*	17
50-99	136	45	1	2	64	1	14	0	9
100-249	183	50	2	2	86	Q	9	*	31
250-499	169	31	5	*	66	*	13	0	53
500 and Over	399	53	1	3	108	1	4	26	200
Total	1,156	264	11	15	423	8	47	27	361
Employment Size									
Under 50	117	39	1	6	51	2	2	*	18
50-99	105	35	Q	2	56	1	4	*	6
100-249	272	79	3	2	104	2	16	*	65
250-499	184	35	*	1	86	Q	13	0	48
500-999	238	39	6	2	67	*	5	0	119
1000 and Over	240	37	1	2	59	1	8	26	106
Total	1,156	264	11	15	423	8	47	27	361
Midwest Census Region									
Value of Shipments and Receipts									
(million dollars)									
Under 20	308	101	*	6	173	5	3	Q	18
20-49	263	91	*	2	132	3	25	1	9
50-99	409	112	*	1	194	2	47	4	48
100-249	709	155	*	2	390	3	43	24	92
250-499	465	94	*	2	270	1	48	3	47
500 and Over	1,893	272	1	7	600	19	157	229	608
Total	4,048	826	1	20	1,760	33	323	263	822
Employment Size									

Under 50	496	95	*	6	295	3	28	*	Q
50-99	477	109	*	2	313	3	30	1	20
100-249	616	158	*	3	291	3	64	28	69
250-499	752	183	*	2	301	4	145	3	114
500-999	652	159	*	2	202	5	28	7	249
1000 and Over	1,053	122	*	5	358	14	28	225	301
Total	4,048	826	1	20	1,760	33	323	263	822

South Census Region

Value of Shipments and Receipts (million dollars)

Under 20	283	108	1	10	109	4	4	*	Q
20-49	327	118	*	8	120	4	32	2	43
50-99	539	141	*	5	195	3	33	1	161
100-249	751	200	*	4	299	4	47	4	192
250-499	1,116	169	3	6	356	1	46	0	533
500 and Over	4,710	400	8	11	1,907	11	115	25	2,232
Total	7,726	1,136	13	45	2,988	27	277	32	3,208

Employment Size

Under 50	359	106	1	10	179	4	2	0	56
50-99	398	104	*	4	178	2	16	1	93
100-249	1,193	288	*	12	542	8	91	2	248
250-499	1,753	255	4	5	621	7	39	3	820
500-999	2,507	255	6	9	807	4	79	1	1,346
1000 and Over	1,516	128	2	4	661	2	50	25	645
Total	7,726	1,136	13	45	2,988	27	277	32	3,208

West Census Region

Value of Shipments and Receipts (million dollars)

Under 20	138	62	*	7	56	3	7	*	2
20-49	119	37	0	1	46	2	17	*	15
50-99	233	54	*	3	87	1	34	1	53
100-249	235	59	1	4	96	1	30	*	43
250-499	216	59	*	3	81	*	16	*	56
500 and Over	1,033	104	2	2	322	7	24	0	572
Total	1,973	375	4	19	688	15	129	2	741

Employment Size

Under 50	165	58	1	6	82	2	8	*	7
50-99	114	33	0	1	49	1	21	0	9
100-249	376	79	2	3	122	6	55	1	107
250-499	542	84	1	4	179	2	13	0	260
500-999	372	61	*	3	128	1	9	*	169
1000 and Over	404	60	0	1	128	2	24	0	189
Total	1,973	375	4	19	688	15	129	2	741

(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) Hydrocarbon Gas Liquids '(HGL)' include 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.

* 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 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 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.

Sources: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2014 Annual Survey of Manufactures.'

RSE Table 3.3 Relative Standard Errors for Table 3.3;

Unit: Percents.

Economic Characteristic(a)	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal	Coke and Breeze	Other(f)
Total United States									
Value of Shipments and Receipts (million dollars)									
Under 20	6.3	7.1	14.8	13.6	6.5	10.0	0.5	47.3	24.3
20-49	4.7	5.0	42.3	22.9	6.9	10.5	5.0	16.8	10.9
50-99	2.3	4.1	6.0	5.3	3.6	8.9	5.3	5.8	1.4
100-249	2.6	2.8	2.6	7.8	2.5	13.6	2.8	0.0	10.0
250-499	1.0	2.5	0.3	12.4	1.3	11.2	0.1	0.0	0.5
500 and Over	0.5	1.0	0.0	4.1	0.3	1.0	0.6	0.0	1.0
Total	0.6	1.2	2.2	5.4	0.8	2.8	1.1	0.4	1.1
Employment Size									
Under 50	5.2	6.5	10.2	14.0	4.7	8.1	5.2	2.5	25.7
50-99	4.4	5.3	53.7	13.6	3.7	15.1	8.0	19.1	21.2
100-249	1.4	2.8	0.6	14.0	1.9	6.0	2.4	3.5	0.8
250-499	0.9	2.4	2.5	10.3	1.4	9.3	0.9	0.0	0.4
500-999	1.1	1.8	0.1	6.8	1.0	5.4	1.9	0.0	1.8
1000 and Over	0.5	2.3	0.0	7.8	0.6	1.8	1.6	0.0	0.1
Total	0.6	1.2	2.2	5.4	0.8	2.8	1.1	0.4	1.1
Northeast Census Region									
Value of Shipments and Receipts (million dollars)									
Under 20	10.6	12.8	16.4	19.6	14.9	18.2	4.3	11.6	10.7
20-49	6.8	10.7	50.8	43.4	9.7	20.3	0.1	0.0	8.8
50-99	8.4	13.5	2.1	28.3	10.8	21.5	21.8	X	0.9
100-249	4.0	6.9	4.4	13.7	4.2	54.9	18.9	0.0	0.1
250-499	3.4	7.4	0.0	28.4	6.0	3.6	0.0	X	0.6
500 and Over	1.2	4.7	0.0	18.2	1.8	1.1	0.0	0.0	0.0
Total	2.0	3.9	5.3	11.4	3.0	13.2	7.3	0.1	1.5
Employment Size									
Under 50	13.8	13.8	11.1	20.2	15.4	20.9	0.2	89.2	30.0
50-99	7.6	10.7	67.4	44.7	8.6	20.3	0.0	0.0	12.5
100-249	4.5	8.7	0.5	21.2	6.7	15.3	17.9	0.0	2.1
250-499	3.5	8.1	31.1	19.2	4.4	57.9	14.2	X	0.0
500-999	2.3	6.5	0.2	5.1	4.9	3.5	0.0	X	0.3
1000 and Over	1.9	7.0	0.0	28.0	3.3	1.4	0.0	0.0	0.0
Total	2.0	3.9	5.3	11.4	3.0	13.2	7.3	0.1	1.5
Midwest Census Region									
Value of Shipments and Receipts (million dollars)									
Under 20	9.1	8.3	30.2	25.7	10.7	22.0	1.6	55.5	38.1
20-49	7.8	8.8	76.8	22.5	10.8	18.5	13.5	0.1	23.8
50-99	5.3	7.4	0.8	11.6	7.2	21.3	13.0	8.4	5.2
100-249	6.1	5.4	13.3	8.8	4.6	23.1	4.9	0.1	38.9
250-499	2.5	4.9	21.4	47.8	2.4	15.8	0.1	0.1	5.2
500 and Over	0.5	1.6	0.2	10.2	0.8	0.7	1.2	0.1	0.3
Total	1.5	2.0	7.2	10.1	1.8	4.6	2.3	0.4	4.5
Employment Size									
Under 50	8.9	6.6	24.5	25.4	6.3	13.8	7.4	0.0	53.8
50-99	4.9	7.5	1.1	27.2	5.3	31.5	18.9	49.9	3.1
100-249	3.5	5.4	0.0	13.3	4.7	24.1	6.5	3.1	3.6
250-499	2.9	4.9	0.6	44.0	4.7	19.7	0.4	0.0	1.8
500-999	2.1	3.9	0.0	14.5	4.0	3.8	0.0	0.0	0.6
1000 and Over	0.8	3.2	0.0	12.8	1.0	0.5	6.3	0.0	0.1
Total	1.5	2.0	7.2	10.1	1.8	4.6	2.3	0.4	4.5
South Census Region									
Value of Shipments and Receipts (million dollars)									
Under 20	15.0	12.8	19.9	22.9	12.4	14.7	1.4	79.8	59.0
20-49	9.6	9.3	8.7	36.1	14.9	15.1	6.6	29.2	20.4
50-99	3.0	6.4	19.5	3.9	4.5	14.7	0.9	0.0	1.8
100-249	2.6	4.5	1.4	10.0	3.9	15.9	5.2	0.0	1.5

250-499	1.2	3.8	0.2	16.2	1.8	19.1	0.2	X	0.5
500 and Over	0.8	1.6	0.0	0.8	0.4	3.1	0.0	0.0	1.6
Total	0.9	2.0	1.4	8.7	0.9	4.4	1.2	2.2	1.4

Employment Size

Under 50	8.7	9.9	16.1	24.0	9.9	13.5	3.5	X	16.5
50-99	10.3	11.2	42.1	14.1	7.6	22.1	0.9	11.1	29.2
100-249	1.9	4.1	7.7	22.4	2.3	7.0	2.4	30.7	1.0
250-499	0.9	3.6	2.3	6.1	1.2	7.8	1.2	0.0	0.5
500-999	1.6	2.5	0.0	11.3	1.0	12.0	3.0	0.0	2.6
1000 and Over	0.8	4.5	0.0	6.5	0.9	19.6	0.0	0.0	0.3
Total	0.9	2.0	1.4	8.7	0.9	4.4	1.2	2.2	1.4

West Census Region

Value of Shipments and Receipts

(million dollars)

Under 20	12.9	23.5	55.0	38.0	14.9	20.3	0.1	0.1	28.5
20-49	6.3	8.6	X	17.8	10.7	36.1	0.1	0.1	5.5
50-99	4.9	10.7	0.1	4.2	9.1	13.6	0.2	0.1	1.4
100-249	2.3	5.5	0.1	19.8	3.1	25.0	0.1	0.1	0.1
250-499	2.0	5.6	0.1	0.6	2.0	18.3	0.1	0.1	1.5
500 and Over	0.3	1.3	0.1	8.4	0.6	0.6	0.1	X	0.1
Total	1.2	4.4	4.5	13.9	1.9	6.3	0.1	0.1	0.2

Employment Size

Under 50	11.5	24.8	26.7	38.5	13.0	20.4	0.0	0.0	4.1
50-99	5.4	8.5	X	10.6	9.0	27.1	0.0	X	7.6
100-249	2.8	8.1	0.0	7.9	4.3	9.6	0.0	0.0	1.1
250-499	0.8	3.5	0.0	16.6	1.2	16.0	0.5	X	0.3
500-999	1.0	3.9	0.0	4.5	1.5	26.7	0.0	0.0	0.1
1000 and Over	1.0	4.7	X	19.7	1.4	1.1	0.0	X	0.0
Total	1.2	4.4	4.5	13.9	1.9	6.3	0.1	0.1	0.2

(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) Hydrocarbon Gas Liquids '(HGL)' include 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.

* 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.

X=Not defined because RSE corresponds to a value of zero.

-- Estimation is not applicable. Energy source is not included in series.

Notes: 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 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.

Sources: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2014 Annual Survey of Manufactures.'