Table 4.3 Offsite-Produced Fuel Consumption, 2018;

Level: National and Regional Data; Row: Values of Shipments and Employment Sizes;

Column: Energy Sources; Unit: Trillion Btu.

Value of Shipments and Receipts	Economic Characteristic(a)	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal	Coke and Breeze	Other(f)
Value of Shipments and Receipts						Justay				
Under 20	Value of Shipments and Receipts	Total Officed States								
20-49										
1,200	Under 20	908	325		35	460	15	30	3	38
100 2494 1,883 1,7 2 1,1 1,107 8, 6 6, 37 1, 20-499 1,375 3,21 1, 20-499 1,375 3,21 1, 20-499 1,375 3,21 1, 20-599 1,375 3,21 1, 20-599 1,375 3,27 1,37 1,38 1,39 1,39 1,39 1,39 1,39 1,39 1,39 1,39										57
1,375										95
										146
Total 11,142 2,680 14 82 6,312 52 432 762 1.2										208
Employment Size										765
Under 50	Total	11,142	2,680	14	82	6,312	52	432	262	1,308
100,249				<u>1</u>						58
250-499										72
1000 and Over										295
1000 and Over										255
		_								388
Northeast Census Region Northeast Census										241
Value of Shipments and Receipts	Iotal	11,142	2,680	14	82	6,312	52	432	262	1,308
Main Modelars Main	Value of Chinasanta and Bossinta	Northeast Census Regio	n							
Under 20										
20-49		1/1		*		70		1	*	9
149				*					*	3
100-249				*						8
So Ag B B S S C B B T T T T T T T T				*						9
500 and over D 46 1 1 D 1 7 0 Total 859 255 4 15 489 9 19 1 Employment Size Under 50 129 39 * 5 70 3 2 0 * 50-99 97 34 * Q 136 2 0 * 1 0 1 1 2 0 * 1 0 2 2 0 * 1 1 8 1 1 1 2 2 2 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 <td></td> <td></td> <td></td> <td>7</td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td>9</td>				7	*					9
Total S59 255 4					1		1		0	29
Under 50 129 39 *										67
Under 50 129 39 *	Employment Size									
So-99		129	39	*	5	70	3	2	0	9
250-499	50-99		34	*		53			*	2
500-999 142 32 3 * 68 * 9 0 1000 and Over 141 32 * 1 97 1 5 0 Total Midwest Census Region Value of Shipments and Receipts (million dollars) Under 20 321 117 * 10 168 4 9 1 50-99 372 130 * 3 201 2 23 1 50-99 372 130 * 3 201 2 23 1 100-249 775 171 * 2 493 2 29 34 250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 <td< td=""><td>100-249</td><td>214</td><td>78</td><td>*</td><td>Q</td><td>116</td><td>2</td><td>2</td><td>1</td><td>12</td></td<>	100-249	214	78	*	Q	116	2	2	1	12
1000 and Over	250-499	136	40	*	1	84	1	1	*	9
Total 859 255 4 15 489 9 19 19 1 Midwest Census Region	500-999	142	32	3	*	68	*	9	0	29
Value of Shipments and Receipts (million dollars)	1000 and Over	141	32	*	1	97	1	5	0	5
Value of Shipments and Receipts (million dollars) Under 20 321 117 * 10 168 4 9 1 20-49 257 89 0 1 134 2 16 1 50-99 372 130 * 3 201 2 23 1 100-249 775 171 * 2 493 2 29 34 250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 6 1000 and Over 765 114 * 3 367 1 26 220 1000 and Over 3,322 836 * 20 1,823 14 182 247 2	Total	859	255	4	15	489	9	19	1	67
(million dollars) Under 20 321 117 * 10 168 4 9 1 20-49 257 89 0 1 134 2 16 1 50-99 372 130 * 3 201 2 23 1 100-249 775 171 * 2 493 2 29 34 250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 300 2 35 15 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1<		Midwest Census Region	1							
Under 20 321 117 * 10 168 4 9 1 20-49 257 89 0 1 134 2 16 1 50-99 372 130 * 3 201 2 23 1 100-249 775 171 * 2 493 2 29 34 250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 550-499 604 184 * 3 298 3 83										
20-49 257 89 0 1 134 2 16 1 50-99 372 130 * 3 201 2 23 1 100-249 775 171 * 2 493 2 29 34 250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size 5 Under 50 481 110 * 9 323 3 16 1 1 50-99 3 17 1 1 100-249 3 17 1 1 100-249 3 17 1 1 100-249 3 17 1 1 100-249 3 17 1 1 1 3 298 3 83 2 2 20 1 3 3 16 <td></td> <td>224</td> <td></td> <td>·</td> <td></td> <td>4.60</td> <td></td> <td></td> <td></td> <td></td>		224		·		4.60				
50-99 372 130 * 3 201 2 23 1 100-249 775 171 * 2 493 2 29 34 250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3				·						13
100-249 775 171 * 2 493 2 29 34 250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836				U						13
250-499 D 96 * 1 D 1 16 2 500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20				*						13
500 and Over D 235 * 5 D 3 89 207 Total 3,322 836 * 20 1,823 14 182 247 2 Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2				*						44 31
Employment Size Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2										85
Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2										200
Under 50 481 110 * 9 323 3 16 1 50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2	Employment Size									
50-99 477 114 * 1 324 3 17 1 100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2			110	*	g	323	3	16	1	19
100-249 589 169 * 1 300 2 35 15 250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2				*						17
250-499 604 184 * 3 298 3 83 2 500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2				*						65
500-999 406 144 * 2 212 1 5 6 1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2				*						31
1000 and Over 765 114 * 3 367 1 26 220 Total 3,322 836 * 20 1,823 14 182 247 2				*						34
Total 3,322 836 * 20 1,823 14 182 247 2				*						33
South Census Region				*						200
		South Census Region								

Value of Shipments and Receipts									
(million dollars)									
Under 20	302	111	*	10	164	5	3	0	10
20-49	313	110	*	2	143	3	16	5	33
50-99	475	141	*	3	246	2	31	3	49
100-249	746	234	*	4	418	4	16	2	68
250-499	763	164	2	3	409	1	24	*	159
500 and Over	D	449	4	8	D	4	52	2	580
Total	D	1,210	7	30	D	18	141	11	899
Employment Size									
Under 50	429	122	*	10	276	5	1	0	15
50-99	388	105	0	2	211	2	18	4	47
100-249	D	289	*	6	D	4	43	4	176
250-499	1,106	278	1	5	626	3	18	1	174
500-999	D	235	3	4	D	3	33	1	301
1000 and Over	1,180	181	2	4	777	1	28	1	186
Total	D	1,210	7	30	D	18	141	11	899
	West Census Region								
Value of Shipments and Receipts									
(million dollars)									
Under 20	137	51	*	6	50	4	Q	Q	6
20-49	97	32	*	2	44	2	8	*	8
50-99	204	79	0	2	73	1	25	*	25
100-249	221	66	1	5	105	1	19	*	24
250-499	D	66	*	1	D	*	8	*	8
500 and Over	D	85	2	2	D	3	12	0	71
Total	D	379	4	17	D	11	90	3	143
Employment Size									
Under 50	148	51	1	7	68	4	2	*	14
50-99	91	26	0	2	44	Q	12	*	6
100-249	D	114	*	4	D	2	48	Q	42
250-499	396	93	3	2	240	2	16	0	40
500-999	260	58	0	2	164	1	12	*	23
1000 and Over	105	37	0	*	49	*	0	0	17

- (a) Value of Shipments and Receipts and Employment Size categories were supplied by the Bureau of the Census.
- (b) Electricity consists of quantities of electricity that were purchased or transferred in, and is equivalent to purchased electricity as defined in the Annual Survey of Manufactures. (c) Distillate Fuel Oil includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

379

(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.

143

11

90

- (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).
- $(f) \ \textit{Other} \ \text{includes all other energy that was purchased or transferred in and not shown elsewhere.}$
- * Estimate less than 0.5.
- D=Withheld to avoid disclosing data for individual establishments.
- Q=Withheld because Relative Standard Error (RSE) is greater than 50 percent.
- NA=Not available.

Total

Notes: Totals may not equal sum of components because of independent rounding. The derived estimates presented in this table represent the consumption of energy originally produced offsite, acquired as a result of a purchase or transfer and consumed onsite for the production of heat and power. This definition is consistent with the definition of purchased fuels and electric energy used by the Bureau of the Census in the preparation of Fuels and Electric Energy Consumed, of the Annual Survey of Manufactures.

Sources: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey, and the Bureau of the Census, data files for the 2018 Annual Survey of Manufactures.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).

Released: May 2021

Next MECS will be fielded in 2023.

RSE Table 4.3 Relative Standard Errors for Table 4.3;

Unit: Percents.

Economic Characteristic(a)	Total	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	5.4	6.2	31.9	17.8	7.1	9.3	47.5	42.5	15.2
20-49	4.3	4.9	2.1	12.0	6.6	17.1	0.5	6.9	5.9
50-99	4.5	9.2	47.7	19.4	4.0	12.4	0.2	6.5	5.4
100-249	2.3	3.2	0.2	15.5	2.8	7.5	0.8	0.0	4.9
250-499 500 and Over	2.8	3.7 1.0	1.2	5.4	2.9	9.8	0.0	0.0	8.5 0.7
Total	0.4	1.8	2.8 2.5	4.2 8.3	0.4	6.0 4.9	0.0 3.3	0.1	1.6
Total	0.8	1.0	2.5	0.3	0.9	4.9	3.3	0.5	1.0
Employment Size									
Under 50	4.1	5.0	24.2	15.8	5.2	10.4	1.0	24.3	10.2
50-99	2.8	5.8	0.0	38.2	3.0	17.5	0.4	10.9	3.9
100-249	D	6.0	3.9	16.1	D	8.5	11.1	5.0	6.7
250-499	1.8	2.7	0.1	11.2	2.0	9.7	0.4	0.0	1.0
500-999	D	2.2	0.9	1.1	D	6.7	0.4	0.0	0.1
1000 and Over	0.8	2.1	8.1	6.9	0.8	8.8	0.0	0.1	2.2
Total	0.8	1.8	2.5	8.3	0.9	4.9	3.3	0.5	1.6
	Northeast Census Region	on							
Value of Shipments and Receipts									
(million dollars)	11.4			41.0	171	0.2	12.4	F1.C	40.7
Under 20 20-49	11.4 9.7	8.2 13.4	7.8 0.0	41.9 12.7	17.1 10.9	8.3 27.0	12.4 0.0	51.6	49.7 8.0
50-99	13.2	18.6	0.0	73.7	14.3	30.6	0.0	X	0.6
100-249	6.3	10.8	1.7	34.0	6.5	25.9	0.0	0.0	0.0
250-499	D.3	6.3	0.0	6.5	0.5 D	12.7	0.0	0.0	11.2
500 and Over	D	4.5	21.0	6.0	D	27.2	0.0	Χ	0.1
Total	3.4	5.1	5.3	29.1	4.0	8.7	0.3	1.6	7.0
Employment Size									
Under 50	10.9	6.5	5.6	16.4	17.1	12.5	3.8	X	49.0
50-99	8.0	12.0	0.0	80.0	6.2	12.6	Х	8.1	2.6
100-249	10.7	14.4	0.0	63.8	12.4	25.8	0.0	0.0	0.4
250-499	5.2	9.3	0.0	30.1	4.4	4.8	0.0	0.0	11.4
500-999	3.0	8.2	0.2	4.6	3.0	7.1	0.0	X	0.3
1000 and Over	3.1	5.0	52.1	8.4	3.2	28.8	0.0	X	0.4
Total	3.4	5.1	5.3	29.1	4.0	8.7	0.3	1.6	7.0
	Midwest Census Region	•							
Value of Shipments and Receipts	mawest census negion	•							
(million dollars)									
Under 20	11.2	11.7	63.4	41.5	16.8	13.3	1.6	31.1	18.3
20-49	8.7	8.9	Х	14.3	13.4	32.7	0.0	2.6	1.7
50-99	5.3	7.3	0.0	26.4	6.6	28.6	0.0	0.0	1.5
100-249	3.1	5.1	0.6	30.1	3.5	13.7	1.7	0.0	1.8
250-499	D	6.0	6.7	2.2	D	22.3	0.0	0.0	27.8
500 and Over	D	2.5	0.1	4.8	D	19.5	0.0	0.1	0.6
Total	1.6	2.5	0.6	20.3	2.2	9.1	0.3	0.2	4.6
For all and the Control of the Contr									
Employment Size	0.4	11 0	E2 0	42 F	0.0	1	0.1	22.0	12.0
Under 50 50-99	8.1 3.8	11.8 6.6	52.0 0.0	42.5 15.8	9.8 4.0	15.7 26.9	0.1	32.9 0.0	12.8 1.4
100-249	4.2	6.4	67.2	17.8	5.0	24.6	0.0	0.0	13.4
250-499	3.2	4.3	0.0	37.1	4.2	19.8	0.6	0.0	2.5
500-999	3.8	4.8	0.0	0.9	4.5	14.2	0.0	0.0	0.3
1000 and Over	1.2	4.6	0.1	3.0	1.5	12.6	0.0	0.1	1.6
Total	1.6	2.5	0.6	20.3	2.2	9.1	0.3	0.2	4.6
	South Census Region								
Value of Shipments and Receipts									
(million dollars)									
Under 20	5.8	12.7	20.3	19.3	5.1	12.1	2.9	X	12.9
20-49	6.7	8.3	88.0	9.9	10.4	28.4	0.8	9.8	8.5

100-249	4.6	5.4	0.0	12.2	6.1	11.6	1.4	0.0	9.8
250-499	2.6	2.9	2.3	2.6	1.9	15.2	0.0	0.0	9.7
500 and Over	D	1.2	0.1	7.3	D	3.0	0.0	0.0	0.9
Total	D	1.9	1.2	7.0	D	6.8	0.2	5.2	2.1
Employment Size									
Under 50	5.6	7.6	20.0	20.1	6.5	16.9	9.8	Х	13.8
50-99	5.6	12.9	Х	7.0	6.3	18.5	0.7	14.0	6.0
100-249	D	4.1	34.8	7.6	D	11.1	0.4	6.3	9.8
250-499	1.6	3.0	0.1	9.3	1.7	21.7	0.5	0.0	1.2
500-999	D	3.0	1.6	2.3	D	8.4	0.7	0.0	0.1
1000 and Over	1.2	3.1	0.1	14.8	1.0	14.8	0.0	0.0	2.9
Total	D	1.9	1.2	7.0	D	6.8	0.2	5.2	2.1
	West Census Region								
Value of Shipments and Receipts									
(million dollars)									
Under 20	17.1	6.7	58.9	33.1	11.3	32.6	79.2	78.9	38.5
20-49	7.0	9.2	0.0	35.2	9.1	46.0	2.3	9.3	22.8
50-99	20.0	42.9	X	14.4	10.3	11.2	0.0	0.0	0.1
100-249	4.6	6.7	0.0	31.4	5.3	13.3	0.0	0.0	10.2
250-499	D	15.8	0.0	42.9	D	16.2	0.0	0.0	2.2
500 and Over	D	1.3	0.0	10.5	D	1.0	0.0	X	0.1
Total	D	9.4	7.6	15.4	D	15.0	15.8	42.9	2.7
Employment Size									
Under 50	6.3	5.6	40.3	30.3	8.8	30.4	7.7	10.2	14.0
50-99	6.5	10.9	Х	49.9	6.7	60.6	0.0	0.0	1.3
100-249	D	29.7	0.0	29.0	D	7.1	29.8	52.5	7.8
250-499	7.5	11.8	0.0	17.3	7.9	4.0	0.0	X	0.2
500-999	2.1	3.2	X	0.8	2.3	26.1	0.0	0.0	0.4
1000 and Over	2.1	2.7	X	0.3	2.6	0.4	Х	X	0.0

91.2

11.0

15.4

6.1

13.9

0.6

10.4

42.9

10.5

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

4.6

5.7

- (b) Electricity consists of quantities of electricity that were purchased or transferred in, and is equivalent to purchased electricity as defined in the Annual Survey of Manufactures.
- (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 all other energy that was purchased or transferred in and not shown elsewhere.
- * Estimate less than 0.5.
- D=Withheld to avoid disclosing data for individual establishments.
- Q=Withheld because Relative Standard Error (RSE) is greater than 50 percent.
- X=Not defined because RSE corresponds to a data table value of zero.
- NA=Not available.

Total

50-99

Notes: Totals may not equal sum of components because of independent rounding. The derived estimates presented in this table represent the consumption of energy originally produced offsite, acquired as a result of a purchase or transfer and consumed onsite for the production of heat and power. This definition is consistent with the definition of purchased fuels and electric energy used by the Bureau of the Census in the preparation of Fuels and Electric Energy Consumed, of the Annual Survey of Manufactures.

Sources: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey, and the Bureau of the Census, data files for the 2018 Annual Survey of Manufactures.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).