Table 4.4 Number of Establishments by Offsite-Produced Fuel Consumption, 2018;

Level: National Data;

Row: NAICS Codes; Column: Energy Sources;

Unit: Establishment Counts.

NAICS Code(a)	s) Subsector and Industry	Any Energy		Residual Distillate Fuel		Natural	HGL (excluding		Coke and	
		Source(b)	Electricity(c)	Fuel Oil	Oil(d)	Gas(e)	natural gasoline)(f)	Coal	Breeze	Other(g)
		Total United States								
311	Food	15,842	15,796	16	1,760	12,659	3,166	27	9	1,370
3112	Grain and Oilseed Milling	611	611	6	132	508	146	11	0	100
311221	Wet Corn Milling	52	52	0	22	46	28	4	0	23
31131	Sugar Manufacturing	70	70	D	23	61	21	17	9	15
3114	Fruit and Vegetable Preserving and Specialty Food	1,047	1,045	D	163	880	323	0	0	107
3115	Dairy Product	1,036	1,036	4	166	875	231	0	0	98
3116	Animal Slaughtering and Processing	1,842	1,842	D	282	1,500	353	0	0	142
312	Beverage and Tobacco Products	3,938	3,938	5	374	1,768	2,106	3	0	354
3121	Beverages	3,853	3,853	D	354	1,716	2,079	3	0	348
3122	Tobacco	85	85	D	20	52	27	0	0	7
313	Textile Mills	1,352	1,352	Q	181	818	516	10	0	73
314	Textile Product Mills	4,116	4,116	0	Q	2,016	799	D	0	Q
315	Apparel	3,856	3,856	0	D	1,054	Q	Q	0	Q
316	Leather and Allied Products	655	655	0	D	281	152	0	0	7
321	Wood Products	9,433	9,229	15	2,167	4,528	4,391	Q	0	1,261
321113	Sawmills	1,787	1,782	D	850	410	461	0	0	420
3212	Veneer, Plywood, and Engineered Woods	1,083	1,079	D	269	794	470	Q	0	142
321219	Reconstituted Wood Products	158	158	D	77	127	79	0	0	48
3219	Other Wood Products	6,284	6,089	Q	948	3,156	3,366	Q	0	664
322	Paper	3,009	3,009	47	246	2,534	1,543	37	0	262
322110	Pulp Mills	28	28	D	18	27	18	D	0	19
322121	Paper Mills, except Newsprint	156	156	20	71	145	91	23	0	72
322122	Newsprint Mills	11	11	0	9	9	10	0	0	9
322130	Paperboard Mills	143	143	17	77	136	90	10	0	75
323	Printing and Related Support	12,534	12,534	D	402	8,297	1,689	0	0	298
324	Petroleum and Coal Products	1,883	1,879	47	753	1,171	433	D	0	330
324110	Petroleum Refineries	136	135	5	72	128	50	0	0	128
324121	Asphalt Paving Mixture and Block	1,289	1,288	42	568	704	192	D	0	132
324122	Asphalt Shingle and Coating Materials	168	168	0	35	156	98	0	0	15
324191	Petroleum Lubricating Oil and Grease Products	211	211	0	39	127	71	0	0	27
324199	Other Petroleum and Coal Products	79	78	0	39	56	23	0	0	28
325	Chemicals	8,899	8,869	6	1,369	7,046	3,937	26	D	1,281
325110	Petrochemicals	66	66	0	31	48	30	0	0	30
325120	Industrial Gases	525	524	0	3	235	111	0	0	Q
325180	Other Basic Inorganic Chemicals	501	501	0	117	410	221	4	D	151
325193	Ethyl Alcohol	207	207	0	103	198	72	3	0	86
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	61	61	0	18	56	20	0	0	43
325199	Other Basic Organic Chemicals	524	524	3	159	457	180	Q	0	166
325211	Plastics Materials and Resins	813	813	0	173	665	538	D	0	163
325212	Synthetic Rubber	87	87	0	17	76	37	D	0	27
325220	Artificial and Synthetic Fibers and Filaments	99	99	0	12	82	56	D	0	8

325312 Phosphaile Ferilikers 55 55 0 18 29 21 0 0 15	325311	Nitrogenous Fertilizers	147	147	0	100	135	92	0	0	25
325412 Pharmaceutical Preparation 716 687 0 99 524 104 0 0 41 326 74 325992 Phatics and Rubber Products 8,317 8,317 3 763 5,457 3,441 0 0 655 32710 75 75 75 75 75 75 75 7	325312	Phosphatic Fertilizers	55		_	18	29		_	0	15
Photographic Him, Paper, Palte, and Chemicals 108 108 0 14 86 23 0 0 14 268 Palsits and Rubber Products 12,055 12,035 0 4,014 7,002 3,241 139 0 1,589 32710 Nonmerallic Mineral Products 415 415 0 122 361 181 4 0 666 327211 Flot Glass 66 60 60 0 14 40 23 0 0 10 32712 Other Pressed and Blown Glass and Glassware 164 164 0 22 148 83 0 0 10 327213 Glass Containers 57 57 0 19 56 21 0 0 15 327215 Glass Products from Purchased Glass 668 686 0 0 2 519 225 0 0 40 327310 Cements 187 187 0 70 91 49 82 6 96 327410 Lime 86 86 0 0 70 91 49 82 6 96 327410 Lime 86 86 0 0 70 91 49 82 6 96 327410 Lime 86 86 0 0 70 91 49 82 6 96 327410 General Register 187 187 0 70 91 49 82 6 96 327410 Lime 86 86 0 0 70 91 49 82 6 96 327410 Lime 86 86 0 0 70 91 49 82 6 96 327410 Lime 86 86 0 0 70 91 49 82 0 96 327410 Lime 86 86 0 0 70 91 49 82 0 96 327410 Lime 86 86 0 0 70 91 49 82 0 96 327410 Lime 86 86 0 0 70 91 49 82 0 96 327410 Lime 86 86 0 0 70 91 49 82 0 96 327410 Lime 86 86 0 0 0 0 0 0 12 327939 Mineral Wool 191 191 191 0 0 0 0 13 33110 Iron and Steel Mills and Ferroalloys 3326 3226 0 625 2,796 2,086 22 67 584 331110 Iron and Steel Mills and Ferroalloys 398 398 0 113 344 354 0 0 13 331314 Nonterious Metals Ceccept Aluminum 109 109 109 135 354 239 0 0 13 331314 Nonterious Metals Ceccept Aluminum 109 109 100 155 156 100 100 100 331410 Nonterious Metals Ceccept Aluminum 109 109 100 105 100 100 100 100 331511	3254	Pharmaceuticals and Medicines	1,326	1,297	0	198	1,030	220	D	0	109
Plastics and Rubber Products 8,317 8,317 3 763 5,457 3,441 0 0 653	325412	Pharmaceutical Preparation	716	687	0	99	524	104	D	0	
Nonmetallic Minerial Products		Photographic Film, Paper, Plate, and Chemicals			D		86	23	0	0	14
3771/20		Plastics and Rubber Products	,	8,317	-	763	5,457	3,441	0	0	651
Flat Claiss	327	Nonmetallic Mineral Products	12,035	12,035	Q	4,014	7,002	3,241	139	D	1,589
37712	327120	Clay Building Material and Refractories	415	415	0	132	361	181	4	0	
Sample S	327211	Flat Glass	60	60	0	14	40	23	0	0	10
Sample Comments					-	32	148		0	0	
37310 Cements 187 187 0 70 91 49 82 6 96 37240 Cypsum 148 148 0 87 134 87 0 0 17 32793 Mineral Wood 191 191 191 0 24 163 92 0 0 17 32793 Mineral Wood 191 191 0 24 163 92 0 0 17 311 Primary Metals 3,226 3,226 0 625 2,796 2,086 22 67 584 33110 Iron an Steel Mills and Ferroalloys 390 390 0 158 334 229 17 29 142 3313 Steel Products from Purchased Steel 498 498 0 113 424 354 29 0 0 14 3313 Alumina and Aluminum 399 399 0 102 354 239 0 0 15 331315 Aluminum Sheet, Plate and Folis 65 65 65 0 30 62 37 0 0 18 331314 Nonferrous Metals, except Aluminum 619 191 191 0 27 162 123 0 0 18 3314 Nonferrous Metals, except Aluminum 651 651 0 55 564 363 0 10 55 33151 Foundries 373 373 0 83 326 365 0 25 182 33151 Foundries 373 373 0 83 326 365 0 25 88 33151 Iron Foundries 377 277 0 18 194 173 0 0 27 33152 Aluminum Dolling, Dranch Steel Mills and Refining 277 277 0 18 194 173 0 0 25 182 33151 Iron Foundries 373 373 0 83 326 365 0 25 38 33152 Aluminum Dolling, Except Die-Casting 379 37949 0 205 2255 1435 0 0 25 33153 Nonferrous Metal Die-Casting 379 37949 0 205 2255 1435 0 0 0 25 33154 Aluminum Doundries, except Die-Casting 379 37949 0 205 2255 1435 0 0 0 25 33153 Machinery 14919 14919 0 1411 9,780 5,318 0 0 0 24 334 Computer and Electronic Products 6,646 3 152 3,678 804 0 0 0 294 336 Transportation Equipment 7,032 7,032 14 996 4,396 2,497 0 0 0 294 336 Transportation Equipment 7,032 7,032 14 996 4,276 2,492 0 0 0 25 336 Transportation Equipment 7,032 7,032 14 996					0	19			0	0	
327410 Lime	327215	Glass Products from Purchased Glass	686	686	0	62	519	225	0	0	
3274240 Gypsum	327310	Cements	187	187	0	70	91	49	82	6	
321993 Mineral Wool 191 191 0 24 163 92 0 0 15		Lime	86	86	0			19	48	5	
3311 Primary Metals 3,226 3,226 D 625 2,796 2,086 22 67 584 33110 Iron and Steel Mills and Ferroalloys 390 390 D 158 334 229 17 29 142 313 33112 Steel Products from Purchased Steel 498 498 0 113 424 354 D 4 134 3313 Alumina and Aluminum 399 399 0 102 354 229 0 0 71 331314 Secondary Smelting and Alloying of Aluminum 109 109 0 37 97 68 0 0 15 331315 Aluminum Sheet, Plate and Foils 65 65 65 0 30 62 37 0 0 18 331318 Other Aluminum Rolling, Drawing and Extruding 191 191 0 27 162 123 0 0 31 31 314 Nonferrous Metals, except Aluminum 651 651 0 55 564 363 0 10 55 331410 Nonferrous Metals, except Aluminum Smelting and Refining 107 107 0 14 89 75 0 D 15 331511 Iron Foundries 373 373 373 0 83 326 305 D 25 182 331523 Nonferrous Metal Die-Casting Foundries 277 277 0 18 194 173 0 0 20 331 331524 Aluminum Foundries, except Die-Casting 277 277 0 18 194 173 0 0 20 20 20 20 20 20		Gypsum			-	87			•	0	
331110 Iron and Steel Mills and Ferroalloys 390 390 0 158 334 229 17 29 142 3312 Steel Products from Purchased Steel 498 498 0 113 424 354 D 0 0 134 3313 Alumina and Aluminum 399 399 0 102 354 239 0 0 71 331314 Secondary Smelting and Alloying of Aluminum 109 109 0 37 97 68 0 0 158 3314 Secondary Smelting and Alloying of Aluminum 109 109 0 37 97 68 0 0 158 331315 Aluminum Rolling, Drawing and Extruding 191 191 0 27 162 123 0 0 31 314 Nonferrous Metals, except Aluminum 651 651 0 55 564 363 0 10 55 3314 Nonferrous Metal (except Aluminum) Smelting and Refining 107 107 0 14 89 75 0 D 15 315 50 315 315 50 315 315 50 315 315 50 315 315 50 315 315 315 50 315 315 315 315 50 315	327993	Mineral Wool	191	191	0	24	163	92		_	
Steel Products from Purchased Steel 498 498 0	331	Primary Metals	3,226	3,226	D	625	2,796	2,086	22	67	584
3313 Alumina and Aluminum 399 399 0 102 354 239 0 0 71	331110	Iron and Steel Mills and Ferroalloys	390	390	D	158	334	229	17	29	142
Secondary Smelting and Alloying of Aluminum 109 109 0 37 97 68 0 0 15	3312	Steel Products from Purchased Steel		498	0	113	424	354	D	4	134
Satistable Aluminum Sheet, Plate and Foils 65 65 0 30 62 37 0 0 18	3313		399	399	0	102	354	239	0	0	
331318 Other Aluminum Rolling, Drawing and Extruding 191 191 0 27 162 123 0 0 31 3314 Nonferrous Metals, except Aluminum 651 651 0 55 564 363 0 10 55 331410 Nonferrous Metal (except Aluminum) Smelting and Refining 107 107 0 14 89 75 0 0 15 33151 Foundries 1,288 1,288 1,288 0 196 1,119 902 D 25 182 331523 Nonferrous Metal Die-Casting Foundries 257 257 Q 34 250 192 0 0 36 331524 Aluminum Foundries, except Die-Casting 277 277 0 18 194 173 0 0 203 322 Fabricated Metal Products 37,949 37,949 0 2,095 22,655 14,355 Q 0 4,422 334 Computer and Electr	331314	Secondary Smelting and Alloying of Aluminum			0	37	97		0	0	
Salid Nonferrous Metals, except Aluminum Smelting and Refining 107 107 0 14 89 75 0 0 0 15 15 15 15 15	331315	Aluminum Sheet, Plate and Foils	65	65	0	30	62	37	0	0	
331410 Nonferrous Metal (except Aluminum) Smelting and Refining 107 107 0 14 89 75 0 D 15	331318				-	27			0	0	
3315 Foundries 1,288 1,288 Q 196 1,119 902 D 25 182 183 1511 Iron Foundries 373 373 0 83 326 305 D 25 58 183 1523 Nonferrous Metal Die-Casting Foundries 257 257 Q 34 250 192 0 0 0 26 131524 Aluminum Foundries, except Die-Casting 277 277 0 18 194 173 0 0 20 20 20 20 20 20					0	55			0	10	
331511 Iron Foundries 373 373 0 83 326 305 D 25 58 331523 Nonferrous Metal Die-Casting Foundries 257 257 Q 34 250 192 0 0 36 331524 Aluminum Foundries, except Die-Casting 277 277 0 18 194 173 0 0 20 332 Fabricated Metal Products 37,949 37,949 0 2,095 22,655 14,355 Q 0 4,422 333 Machinery 14,919 14,919 Q 1,411 9,780 5,318 Q 0 1,635 334 Computer and Electronic Products 6,646 6,646 3 152 3,678 804 0 0 198 3344 Semiconductors and Related Devices 344 344 D 65 126 25 0 0 32 335 Electrical Equip., Appliances, and Components 3,295 3		Nonferrous Metal (except Aluminum) Smelting and Refining	107	107	0		89		-		
331523 Nonferrous Metal Die-Casting Foundries 257 257 Q 34 250 192 0 0 36 331524 Aluminum Foundries, except Die-Casting 277 277 0 18 194 173 0 0 20 332 Fabricated Metal Products 37,949 37,949 0 2,095 22,655 14,355 Q 0 4,422 333 Machinery 14,919 14,919 Q 1,411 9,780 5,318 Q 0 1,635 334 Computer and Electronic Products 6,646 6,646 6,646 3 152 3,678 804 0 0 198 334413 Semiconductors and Related Devices 344 344 D 65 126 25 0 0 32 336 Transportation Equipment 7,032 7,032 7,032 14 986 4,396 2,497 0 D 924 336111 Automobiles							,				
331524 Aluminum Foundries, except Die-Casting 277 277 0 18 194 173 0 0 20 20 23 22 25 25 25 25 25 25	331511					83			D	25	
332 Fabricated Metal Products 37,949 37,949 0 2,095 22,655 14,355 Q 0 4,422 333 Machinery 14,919 14,919 Q 1,411 9,780 5,318 Q 0 1,635 334 Computer and Electronic Products 6,646 6,646 3 152 3,678 804 0 0 198 334413 Semiconductors and Related Devices 344 344 D 65 126 25 0 0 32 335 Electrical Equip., Appliances, and Components 3,295 3,295 D 275 2,119 902 0 0 294 336 Transportation Equipment 7,032 7,032 14 986 4,396 2,497 0 D 924 336111 Automobiles 71 71 71 0 21 59 26 0 0 27 3364 Aerospace Product and Parts 1,199 <t< td=""><td></td><td>•</td><td></td><td></td><td>-</td><td>34</td><td>250</td><td></td><td>0</td><td>0</td><td></td></t<>		•			-	34	250		0	0	
333 Machinery 14,919 14,919 Q 1,411 9,780 5,318 Q 0 1,635 334 Computer and Electronic Products 6,646 6,646 3 152 3,678 804 0 0 198 334413 Semiconductors and Related Devices 344 344 D 65 126 25 0 0 32 335 Electrical Equip., Appliances, and Components 3,295 3,295 D 275 2,119 902 0 0 294 336 Transportation Equipment 7,032 7,032 14 986 4,396 2,497 0 D 924 336111 Automobiles 71 71 7 0 21 59 26 0 0 27 336112 Light Trucks and Utility Vehicles 69 69 0 21 51 33 0 0 25 3364 Aerospace Product and Parts 1,199 1,199		Aluminum Foundries, except Die-Casting	277	277	0	18	194	173	0	0	20
334 Computer and Electronic Products 6,646 6,646 3 152 3,678 804 0 0 198 334413 Semiconductors and Related Devices 344 344 D 65 126 25 0 0 32 335 Electrical Equip., Appliances, and Components 3,295 3,295 D 275 2,119 902 0 0 294 336 Transportation Equipment 7,032 7,032 14 986 4,396 2,497 0 D 924 336111 Automobiles 71 71 0 21 59 26 0 0 27 336112 Light Trucks and Utility Vehicles 69 69 0 21 51 33 0 0 25 3364 Aerospace Product and Parts 1,199 1,199 1,199 0 150 763 349 0 0 180 336411 Aircraft 347 347		Fabricated Metal Products		37,949	0	2,095	22,655	14,355	Q	0	4,422
334413 Semiconductors and Related Devices 344 344 D 65 126 25 0 0 32 335 Electrical Equip, Appliances, and Components 3,295 3,295 D 275 2,119 902 0 0 294 336 Transportation Equipment 7,032 7,032 14 986 4,396 2,497 0 D 924 336111 Automobiles 71 71 0 21 59 26 0 0 27 336112 Light Trucks and Utility Vehicles 69 69 0 21 51 33 0 0 25 3364 Aerospace Product and Parts 1,199 1,199 D 150 763 349 0 0 180 336411 Aircraft 347 347 347 0 38 216 103 0 0 55 337 Furniture and Related Products 8,347 8,201 0 <td>333</td> <td>Machinery</td> <td>14,919</td> <td>14,919</td> <td>Q</td> <td>1,411</td> <td>9,780</td> <td>5,318</td> <td>Q</td> <td>0</td> <td>1,635</td>	333	Machinery	14,919	14,919	Q	1,411	9,780	5,318	Q	0	1,635
335 Electrical Equip., Appliances, and Components 3,295 3,295 D 275 2,119 902 0 0 294 336 Transportation Equipment 7,032 7,032 14 986 4,396 2,497 0 D 924 336111 Automobiles 71 71 0 21 59 26 0 0 27 336112 Light Trucks and Utility Vehicles 69 69 0 21 51 33 0 0 25 3364 Aerospace Product and Parts 1,199 1,199 D 150 763 349 0 0 180 336411 Aircraft 347 347 347 0 38 216 103 0 0 55 337 Furniture and Related Products 8,347 8,201 0 359 4,276 2,642 D 0 462 339 Miscellaneous 13,589 13,589 13,589		Computer and Electronic Products	,				,		•	0	
336 Transportation Equipment 7,032 7,032 14 986 4,396 2,497 0 D 924 336111 Automobiles 71 71 0 21 59 26 0 0 27 336112 Light Trucks and Utility Vehicles 69 69 0 21 51 33 0 0 25 3364 Aerospace Product and Parts 1,199 1,199 D 150 763 349 0 0 180 336411 Aircraft 347 347 0 38 216 103 0 0 55 337 Furniture and Related Products 8,347 8,201 0 359 4,276 2,642 D 0 462 339 Miscellaneous 13,589 13,589 0 583 6,744 2,591 Q 0 555	334413	Semiconductors and Related Devices	344	344	D	65	126		0	0	32
336111 Automobiles 71 71 0 21 59 26 0 0 27 336112 Light Trucks and Utility Vehicles 69 69 0 21 51 33 0 0 25 3364 Aerospace Product and Parts 1,199 1,199 D 150 763 349 0 0 180 336411 Aircraft 347 347 0 38 216 103 0 0 55 337 Furniture and Related Products 8,347 8,201 0 359 4,276 2,642 D 0 462 339 Miscellaneous 13,589 13,589 0 583 6,744 2,591 Q 0 555	335	Electrical Equip., Appliances, and Components	3,295	3,295	D	275	2,119	902	0	0	294
336112 Light Trucks and Utility Vehicles 69 69 69 0 21 51 33 0 0 25 3364 Aerospace Product and Parts 1,199 1,199 D 150 763 349 0 0 180 336411 Aircraft 347 347 0 38 216 103 0 0 55 337 Furniture and Related Products 8,347 8,201 0 359 4,276 2,642 D 0 462 339 Miscellaneous 13,589 13,589 0 583 6,744 2,591 Q 0 555	336		7,032	7,032	14	986	4,396	2,497	0	D	
3364 Aerospace Product and Parts 1,199 1,199 D 150 763 349 0 0 180 336411 Aircraft 347 347 0 38 216 103 0 0 55 337 Furniture and Related Products 8,347 8,201 0 359 4,276 2,642 D 0 462 339 Miscellaneous 13,589 13,589 13,589 0 583 6,744 2,591 Q 0 555					-				•	0	
336411 Aircraft 347 347 0 38 216 103 0 0 55 337 Furniture and Related Products 8,347 8,201 0 359 4,276 2,642 D 0 462 339 Miscellaneous 13,589 13,589 0 583 6,744 2,591 Q 0 555	336112	Light Trucks and Utility Vehicles	69	69	0	21	51	33	0	0	25
337 Furniture and Related Products 8,347 8,201 0 359 4,276 2,642 D 0 462 339 Miscellaneous 13,589 13,589 0 583 6,744 2,591 Q 0 555	3364	Aerospace Product and Parts	1,199	1,199	D	150	763	349	0	0	
339 Miscellaneous 13,589 13,589 0 583 6,744 2,591 Q 0 555		Aircraft			0				-	0	55
		Furniture and Related Products	,		0	359	4,276	,	_	0	
Total 180,872 180,441 277 18,683 111,076 56,944 983 96 16,712	339	Miscellaneous	13,589	13,589	0	583	6,744	2,591	Q	0	555
		Total	180,872	180,441	277	18,683	111,076	56,944	983	96	16,712

- (a) The Bureau of the Census classifies establishments using the 2017 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 2018.
- (c) 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.
- (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) 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).
- (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.
- * Estimate less than 0.5.
- $\hbox{D=Withheld to avoid disclosing data for individual establishments.}$
- 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; wood chips, bark, and wood waste 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 from other energy inputs and, therefore, avoids double counting.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey.

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: August 2021

Next MECS will be fielded in 2023.

RSE Table 4.4 Relative Standard Errors for Table 4.4;

Unit: Percents

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Electricity(c)	Residual D Fuel Oil	istillate Fuel Oil(d)	Natural Gas(e)	HGL (excluding natural gasoline)(f)	Coal	Coke and Breeze	Other(g)
		Total United Star	es							
311	Food	0.0	0.1	5.4	3.9	1.6	4.1	0.3	0.0	4.7
3112	Grain and Oilseed Milling	0.0	0.0	34.8	4.7	2.9	4.7	1.0	Х	4.8
311221	Wet Corn Milling	0.0	0.0	Х	0.0	0.0	0.0	0.0	Х	0.0
31131	Sugar Manufacturing	0.0	0.0	D	0.0	0.0	0.0	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	0.0	0.1	D	14.9	5.8	14.7	X	Х	18.5
3115	Dairy Product	0.0	0.0	46.1	19.9	4.9	15.4	X	Х	34.0
3116	Animal Slaughtering and Processing	0.0	0.0	D	14.9	4.6	17.3	X	Х	24.1
312	Beverage and Tobacco Products	0.0	0.0	0.0	6.7	3.5	4.5	0.0	Х	13.3
3121	Beverages	0.0	0.0	D	23.9	8.3	7.1	0.0	Х	24.7
3122	Tobacco	0.0	0.0	D	0.0	0.0	0.0	X	Х	0.0
313	Textile Mills	0.5	0.5	62.7	28.4	9.3	14.3	42.4	Х	38.4
314	Textile Product Mills	0.0	0.0	X	71.0	19.9	38.8	D	X	82.0
315	Apparel	0.0	0.0	X	D	32.5	64.2	96.7	X	99.5
316	Leather and Allied Products	0.0	0.0	X	D	19.9	29.5	Х	X	19.9
321	Wood Products	0.0	0.4	29.8	8.5	4.5	7.2	53.8	X	8.6
321113	Sawmills	0.0	0.0	D	7.3	11.1	9.1	Х	X	9.7
3212	Veneer, Plywood, and Engineered Woods	0.0	0.2	D	16.5	5.5	13.2	80.8	X	15.3
321219	Reconstituted Wood Products	0.0	0.0	D	22.1	7.9	21.5	X	X	20.0
3219	Other Wood Products	0.0	1.8	86.4	17.9	9.2	8.6	70.6	X	24.3
322	Paper	0.0	0.0	0.0	0.5	1.2	1.9	0.0	X	0.8
322110	Pulp Mills	0.0	0.0	D	0.0	0.0	0.0	D	X	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
322122	Newsprint Mills	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
323	Printing and Related Support	0.6	0.6	D	39.8	5.6	18.5	X	X	42.3
324	Petroleum and Coal Products	0.0	0.0	10.4	3.0	2.5	5.3	D	X	3.5
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
324121	Asphalt Paving Mixture and Block	0.0	0.0	22.9	6.4	5.5	16.9	D	X	18.2
324122	Asphalt Shingle and Coating Materials	0.0	0.0	X	12.3	1.4	9.8	X	Х	12.8
324191	Petroleum Lubricating Oil and Grease Products	0.0	0.0	X	22.3	14.4	19.7	X	Х	40.8
324199	Other Petroleum and Coal Products	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325	Chemicals	0.1	0.3	5.4	4.6	1.5	4.1	12.7	D	3.8
325110	Petrochemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325120	Industrial Gases	0.0	0.0	X	12.1	16.9	40.7	X	X	67.4
325180	Other Basic Inorganic Chemicals	0.0	0.0	X	17.1	7.9	14.9	9.4	D	18.6
325193	Ethyl Alcohol	0.0	0.0	X	6.0	1.1	7.7	4.1	X	7.8
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
325199	Other Basic Organic Chemicals	0.0	0.0	8.8	12.5	3.1	15.2	53.2	X	13.7
325211	Plastics Materials and Resins	0.0	0.0	X	18.2	6.2	7.3	D	X	16.9
325211	Synthetic Rubber	0.0	0.0	X	0.0	0.0	0.0	D	X	0.0

325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	Χ	0.0	0.0	0.0	D	X	0.0
325311	Nitrogenous Fertilizers	0.4	0.4	X	22.6	4.6	27.4	Х	X	46.2
325312	Phosphatic Fertilizers	0.0	0.0	D	0.0	0.0	0.0	D	X	0.0
3254	Pharmaceuticals and Medicines	0.0	2.0	Х	15.0	6.0	21.0	D	Х	28.1
325412	Pharmaceutical Preparation	0.0	4.0	Х	16.8	9.3	32.8	D	Х	14.5
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	0.0	D	22.3	10.7	27.2	Х	Х	18.8
326	Plastics and Rubber Products	0.0	0.0	0.0	24.9	6.2	10.0	Х	X	26.7
327	Nonmetallic Mineral Products	0.0	0.0	97.5	5.1	1.8	6.0	6.9	D	5.3
327120	Clay Building Material and Refractories	0.0	0.0	X	15.0	5.8	12.0	8.6	X	13.2
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	Х	X	0.0
327212	Other Pressed and Blown Glass and Glassware	0.0	0.0	X	29.4	5.0	23.0	Х	X	26.5
327213	Glass Containers	0.0	0.0	X	0.0	0.0	0.0	Х	X	0.0
327215	Glass Products from Purchased Glass	0.0	0.0	Х	25.9	6.5	17.5	Х	Х	18.5
327310	Cements	0.0	0.0	Х	25.4	16.5	38.2	15.8	19.0	18.2
327410	Lime	0.0	0.0	Х	0.0	0.0	0.0	0.0	0.0	0.0
327420	Gypsum	0.0	0.0	Х	15.3	4.1	16.5	Х	Х	15.0
327993	Mineral Wool	0.0	0.0	X	18.9	5.4	22.3	D	D	20.5
331	Primary Metals	0.0	0.0	D	4.0	1.4	2.3	4.3	7.4	4.9
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	D	0.0	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	0.0	0.0	X	24.0	4.2	8.5	D	10.0	25.5
3313	Alumina and Aluminum	0.0	0.0	X	4.5	1.6	4.0	X	X	5.8
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	X	14.8	1.7	9.1	X	X	18.4
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	X	0.0	0.0	0.0	X	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	0.0	0.0	Х	10.2	6.6	10.1	Х	Х	23.0
3314	Nonferrous Metals, except Aluminum	0.0	0.0	Х	14.8	4.5	7.2	Х	11.2	16.2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	Х	21.6	5.1	8.3	Х	D	22.1
3315	Foundries	0.0	0.0	88.2	11.4	3.2	3.8	D	18.7	10.6
331511	Iron Foundries	0.0	0.0	X	20.4	7.2	7.1	D	18.7	20.4
331523	Nonferrous Metal Die-Casting Foundries	0.0	0.0	88.2	28.9	0.6	4.1	Х	X	19.5
331524	Aluminum Foundries, except Die-Casting	0.0	0.0	X	15.9	12.8	11.1	Х	X	13.9
332	Fabricated Metal Products	0.0	0.0	X	24.8	5.0	7.9	70.2	X	16.7
333	Machinery	0.0	0.0	98.9	19.5	4.8	8.8	98.9	X	18.3
334	Computer and Electronic Products	0.0	0.0	12.0	17.7	9.6	17.6	Х	X	30.8
334413	Semiconductors and Related Devices	0.0	0.0	D	18.9	19.9	15.4	Х	X	37.5
335	Electrical Equip., Appliances, and Components	0.0	0.0	D	37.2	11.5	22.6	Х	X	43.7
336	Transportation Equipment	0.2	0.2	37.8	5.2	4.0	7.0	Х	D	4.7
336111	Automobiles	0.0	0.0	Х	0.0	0.0	0.0	Х	X	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	X	0.0	0.0	0.0	Х	X	0.0
3364	Aerospace Product and Parts	0.0	0.0	D	15.8	10.2	19.7	Х	X	15.0
336411	Aircraft	0.0	0.0	Х	23.3	18.0	36.0	Х	Х	21.2
337	Furniture and Related Products	0.0	1.2	X	40.1	8.7	12.8	D	Х	34.7
339	Miscellaneous	0.7	0.7	Х	34.5	8.0	16.1	98.8	X	36.3
	Total	0.1	0.1	3.6	1.7	0.7	1.5	4.8	3.5	1.6

- (a) The Bureau of the Census classifies establishments using the 2017 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 2018.
- (c) 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.
- (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) Hydrocarbon Gas Liquids (HGL) include ethane. ethylene. propane. propulene. 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.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

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

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; wood chips, bark, and wood waste 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 from other energy inputs and, therefore, avoids double counting. Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey.

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).