

Released: October 2017
 Next MECS will be fielded in 2019

Table 5.1 End Uses of Fuel Consumption, 2014;

Level: National Data;
 Row: End Uses within NAICS Codes;
 Column: Energy Sources, including Net Electricity;
 Unit: Physical Units or Btu.

| NAICS Code(a) | End Use | Total (trillion Btu) | Net Electricity(b) (million kWh) | Residual Fuel Oil (million bbl) | Distillate Fuel Oil and Diesel Fuel(c) (million bbl) | Natural Gas(d) (billion cu ft) | HGL (excluding natural gasoline)(e) (million bbl) | Coal (excluding Coke and Breeze) (million short tons) | Other(f) (trillion Btu) |
|----------------------------|-------------------------------------|----------------------|----------------------------------|---------------------------------|--|--------------------------------|---|---|-------------------------|
| Total United States | | | | | | | | | |
| 311 - 339 | ALL MANUFACTURING INDUSTRIES | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 14,903 | 762,136 | 5 | 17 | 5,693 | 22 | 35 | 5,455 |
| | Indirect Uses-Boiler Fuel | -- | 9,640 | 3 | 2 | 2,240 | 2 | 18 | -- |
| | Conventional Boiler Use | -- | 9,640 | 2 | 1 | 735 | 1 | 2 | -- |
| | CHP and/or Cogeneration Process | -- | -- | 2 | 1 | 1,505 | 1 | 16 | -- |
| | Direct Uses-Total Process | -- | 594,248 | 1 | 4 | 2,869 | 12 | 13 | -- |
| | Process Heating | -- | 100,298 | 1 | 1 | 2,517 | 10 | 13 | -- |
| | Process Cooling and Refrigeration | -- | 55,444 | * | * | 26 | * | 0 | -- |
| | Machine Drive | -- | 367,368 | * | 2 | 158 | 1 | * | -- |
| | Electro-Chemical Processes | -- | 51,672 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 19,466 | -- | 1 | 169 | 1 | 1 | -- |
| | Direct Uses-Total Nonprocess | -- | 144,273 | * | 10 | 421 | 7 | * | -- |
| | Facility HVAC (g) | -- | 72,284 | * | 1 | 358 | 2 | * | -- |
| | Facility Lighting | -- | 49,790 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 15,143 | * | * | 40 | * | * | -- |
| | Onsite Transportation | -- | 3,854 | -- | 7 | 2 | 5 | -- | -- |
| | Conventional Electricity Generation | -- | -- | * | * | 12 | * | * | -- |
| | Other Nonprocess Use | -- | 3,202 | * | 2 | 8 | * | * | -- |
| | End Use Not Reported | 5,761 | 13,975 | * | 1 | 163 | 1 | 4 | 5,455 |
| 311 | FOOD | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 1,114 | 72,331 | 1 | 3 | 554 | 1 | 5 | 158 |
| | Indirect Uses-Boiler Fuel | -- | 2,077 | 1 | 1 | 321 | * | 3 | -- |
| | Conventional Boiler Use | -- | 2,077 | * | * | 143 | * | 1 | -- |
| | CHP and/or Cogeneration Process | -- | -- | -- | 1 | 178 | * | 3 | -- |
| | Direct Uses-Total Process | -- | 55,265 | * | * | 175 | * | 1 | -- |
| | Process Heating | -- | 3,187 | * | * | 158 | * | 1 | -- |
| | Process Cooling and Refrigeration | -- | 19,416 | * | * | 3 | * | 0 | -- |
| | Machine Drive | -- | 31,117 | * | * | 4 | * | 0 | -- |
| | Electro-Chemical Processes | -- | 167 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 1,378 | 0 | * | 11 | * | 0 | -- |
| | Direct Uses-Total Nonprocess | -- | 13,545 | * | 2 | 48 | 1 | * | -- |
| | Facility HVAC (g) | -- | 5,987 | * | * | 32 | * | * | -- |
| | Facility Lighting | -- | 5,302 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 1,422 | * | * | 15 | * | * | -- |
| | Onsite Transportation | -- | 693 | -- | 1 | * | * | -- | -- |
| | Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| | Other Nonprocess Use | -- | 141 | 0 | 1 | 1 | * | 0 | -- |
| | End Use Not Reported | 197 | 1,443 | 0 | * | 10 | * | 1 | 158 |
| 3112 | Grain and Oilseed Milling | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 278 | 14,591 | * | * | 129 | * | 3 | 29 |
| | Indirect Uses-Boiler Fuel | -- | 491 | * | * | 84 | * | 2 | -- |
| | Conventional Boiler Use | -- | 491 | 0 | * | 49 | * | 1 | -- |
| | CHP and/or Cogeneration Process | -- | -- | * | * | 35 | * | 1 | -- |
| | Direct Uses-Total Process | -- | 12,548 | * | * | 41 | * | * | -- |
| | Process Heating | -- | 396 | * | * | 34 | * | * | -- |
| | Process Cooling and Refrigeration | -- | 1,417 | 0 | * | 2 | 0 | 0 | -- |
| | Machine Drive | -- | 10,648 | 0 | * | 1 | * | 0 | -- |
| | Electro-Chemical Processes | -- | 2 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 86 | 0 | * | 4 | * | 0 | -- |
| | Direct Uses-Total Nonprocess | -- | 1,456 | * | * | 4 | * | * | -- |
| | Facility HVAC (g) | -- | 587 | * | * | 3 | * | * | -- |
| | Facility Lighting | -- | 656 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 131 | 0 | * | 1 | * | * | -- |
| | Onsite Transportation | -- | 52 | -- | * | * | * | -- | -- |
| | Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |

| | | | | | | | | |
|-----------------------------|-----------|----------|----------|----------|----------|----------|----------|-----------|
| Other Nonprocess Use | -- | 30 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 52 | Q | 0 | * | * | * | 1 | 29 |

311221 Wet Corn Milling

| | | | | | | | | |
|-------------------------------------|------------|--------------|----------|----------|-----------|----------|----------|-----------|
| TOTAL FUEL CONSUMPTION | 138 | 6,461 | 0 | * | 46 | * | 2 | 13 |
| Indirect Uses-Boiler Fuel | -- | 268 | 0 | * | 31 | 0 | 1 | -- |
| Conventional Boiler Use | -- | 268 | 0 | * | 17 | 0 | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 13 | 0 | 1 | -- |
| Direct Uses-Total Process | -- | 5,736 | 0 | * | 15 | * | * | -- |
| Process Heating | -- | 67 | 0 | * | 14 | * | * | -- |
| Process Cooling and Refrigeration | -- | 927 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 4,739 | 0 | * | * | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 4 | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 458 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 167 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 233 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 51 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 6 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | * | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | 35 | 0 | 0 | 0 | 0 | * | 1 | 13 |

31131 Sugar

| | | | | | | | | |
|-------------------------------------|------------|--------------|----------|----------|-----------|----------|----------|------------|
| TOTAL FUEL CONSUMPTION | 174 | 1,224 | * | * | 15 | * | 2 | 108 |
| Indirect Uses-Boiler Fuel | -- | 57 | * | * | 10 | 0 | 1 | -- |
| Conventional Boiler Use | -- | 57 | * | 0 | 3 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 8 | 0 | 1 | -- |
| Direct Uses-Total Process | -- | 994 | * | * | 5 | 0 | 1 | -- |
| Process Heating | -- | 41 | 0 | 0 | 5 | 0 | 1 | -- |
| Process Cooling and Refrigeration | -- | 25 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 923 | * | * | 0 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 5 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 174 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 72 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 106 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 24 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 1 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | -30 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 108 | 0 | 0 | 0 | 0 | * | 0 | 108 |

3114 Fruit and Vegetable Preserving and Specialty Foods

| | | | | | | | | |
|-------------------------------------|------------|--------------|----------|----------|------------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 146 | 9,551 | * | * | 102 | * | * | 5 |
| Indirect Uses-Boiler Fuel | -- | 270 | * | * | 67 | * | * | -- |
| Conventional Boiler Use | -- | 270 | * | * | 22 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 45 | * | * | -- |
| Direct Uses-Total Process | -- | 7,116 | * | * | 20 | * | 0 | -- |
| Process Heating | -- | 444 | * | * | 19 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 3,899 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 2,620 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 29 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 124 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,038 | * | * | 9 | * | 0 | -- |
| Facility HVAC (g) | -- | 878 | * | * | 7 | * | 0 | -- |
| Facility Lighting | -- | 722 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 237 | * | 0 | 1 | * | 0 | -- |
| Onsite Transportation | -- | 166 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 36 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 12 | 127 | 0 | * | 6 | * | 0 | 5 |

3115 Dairy Products

| | | | | | | | | |
|-----------------------------------|------------|---------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 109 | 10,350 | * | * | 66 | * | * | 2 |
| Indirect Uses-Boiler Fuel | -- | 277 | * | * | 43 | * | 0 | -- |
| Conventional Boiler Use | -- | 277 | * | * | 21 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 22 | * | 0 | -- |
| Direct Uses-Total Process | -- | 7,467 | * | * | 18 | * | * | -- |
| Process Heating | -- | 288 | * | * | 15 | * | * | -- |
| Process Cooling and Refrigeration | -- | 3,402 | * | * | * | 0 | 0 | -- |

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| Machine Drive | -- | 3,593 | * | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 16 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 167 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,874 | * | * | 4 | * | * | -- |
| Facility HVAC (g) | -- | 870 | * | * | 4 | * | * | -- |
| Facility Lighting | -- | 654 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 178 | 0 | 0 | 1 | * | 0 | -- |
| Onsite Transportation | -- | 140 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 33 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 6 | 733 | 0 | * | 2 | * | 0 | 2 |

3116 Animal Slaughtering and Processing

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|-----|----|----|----|
| TOTAL FUEL CONSUMPTION | 201 | 18,173 | * | 1 | 122 | * | * | 5 |
| Indirect Uses-Boiler Fuel | -- | 484 | * | * | 77 | * | * | -- |
| Conventional Boiler Use | -- | 484 | * | * | 29 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 48 | * | * | -- |
| Direct Uses-Total Process | -- | 14,163 | 0 | * | 26 | * | 0 | -- |
| Process Heating | -- | 866 | 0 | * | 21 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 7,520 | 0 | * | * | * | 0 | -- |
| Machine Drive | -- | 5,155 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 73 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 550 | 0 | * | 4 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 3,165 | * | 1 | 19 | * | 0 | -- |
| Facility HVAC (g) | -- | 1,271 | 0 | * | 8 | * | 0 | -- |
| Facility Lighting | -- | 1,325 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 394 | * | * | 11 | * | 0 | -- |
| Onsite Transportation | -- | 110 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 65 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 8 | Q | 0 | * | 1 | * | 0 | 5 |

312 BEVERAGE AND TOBACCO PRODUCTS

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 95 | 9,808 | * | * | 47 | * | * | 4 |
| Indirect Uses-Boiler Fuel | -- | 152 | * | * | 33 | * | * | -- |
| Conventional Boiler Use | -- | 152 | * | * | 20 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 13 | * | * | -- |
| Direct Uses-Total Process | -- | 6,206 | 0 | * | 6 | * | * | -- |
| Process Heating | -- | 434 | 0 | * | 6 | * | * | -- |
| Process Cooling and Refrigeration | -- | 1,942 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 3,559 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 21 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 249 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,685 | 0 | * | 5 | * | * | -- |
| Facility HVAC (g) | -- | 1,181 | 0 | * | 4 | * | * | -- |
| Facility Lighting | -- | 934 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 327 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 200 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 43 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 9 | 766 | 0 | * | 2 | * | 0 | 4 |

3121 Beverages

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 86 | 8,868 | 0 | * | 42 | * | * | 4 |
| Indirect Uses-Boiler Fuel | -- | 145 | 0 | * | 30 | * | * | -- |
| Conventional Boiler Use | -- | 145 | 0 | * | 17 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 12 | * | * | -- |
| Direct Uses-Total Process | -- | 5,715 | 0 | * | 5 | * | 0 | -- |
| Process Heating | -- | 392 | 0 | * | 5 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 1,897 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 3,165 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 21 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 240 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,243 | 0 | * | 5 | * | 0 | -- |
| Facility HVAC (g) | -- | 914 | 0 | * | 4 | * | 0 | -- |
| Facility Lighting | -- | 812 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 281 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 194 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 41 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 9 | 766 | 0 | * | 2 | * | 0 | 4 |

3122 Tobacco

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 9 | 940 | * | * | 5 | * | * | * |
| Indirect Uses-Boiler Fuel | -- | 7 | * | * | 4 | * | * | -- |
| Conventional Boiler Use | -- | 7 | * | * | 3 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 1 | * | * | -- |
| Direct Uses-Total Process | -- | 491 | 0 | * | 1 | * | * | -- |
| Process Heating | -- | 43 | 0 | * | 1 | * | * | -- |
| Process Cooling and Refrigeration | -- | 45 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 395 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | * | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 9 | 0 | 0 | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 442 | 0 | * | 1 | * | * | -- |
| Facility HVAC (g) | -- | 266 | 0 | * | * | * | * | -- |
| Facility Lighting | -- | 122 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 46 | 0 | * | * | 0 | 0 | -- |
| Onsite Transportation | -- | 7 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 2 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | * | 0 | 0 | 0 | 0 | 0 | 0 | * |

313 TEXTILE MILLS

| | | | | | | | | |
|-------------------------------------|----|--------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 97 | 12,586 | * | * | 35 | * | * | 12 |
| Indirect Uses-Boiler Fuel | -- | 259 | * | * | 13 | * | * | -- |
| Conventional Boiler Use | -- | 259 | 0 | * | 4 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 9 | * | * | -- |
| Direct Uses-Total Process | -- | 9,204 | * | * | 19 | * | 0 | -- |
| Process Heating | -- | 1,064 | * | * | 12 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 467 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 7,443 | 0 | 0 | Q | * | 0 | -- |
| Electro-Chemical Processes | -- | 1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 229 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 3,091 | * | * | 3 | * | 0 | -- |
| Facility HVAC (g) | -- | 1,872 | * | * | 2 | * | 0 | -- |
| Facility Lighting | -- | 916 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 186 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 110 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 12 | Q | 0 | 0 | 1 | * | 0 | 12 |

314 TEXTILE PRODUCT MILLS

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 27 | 2,748 | * | * | 16 | * | * | * |
| Indirect Uses-Boiler Fuel | -- | 134 | * | * | 7 | * | * | -- |
| Conventional Boiler Use | -- | 134 | 0 | * | 4 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 2 | * | * | -- |
| Direct Uses-Total Process | -- | 1,832 | 0 | * | 6 | * | 0 | -- |
| Process Heating | -- | 191 | 0 | * | 5 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 180 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 1,442 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 8 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 12 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 780 | 0 | * | 4 | * | 0 | -- |
| Facility HVAC (g) | -- | 355 | 0 | * | 3 | * | 0 | -- |
| Facility Lighting | -- | 289 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 67 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 68 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | * | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 1 | Q | 0 | * | * | * | 0 | * |

315 APPAREL

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 5 | 803 | 0 | * | 2 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 17 | 0 | * | 1 | * | 0 | -- |
| Conventional Boiler Use | -- | 17 | 0 | * | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | * | 0 | -- |
| Direct Uses-Total Process | -- | 374 | 0 | * | * | * | 0 | -- |
| Process Heating | -- | 39 | 0 | 0 | * | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 14 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 314 | 0 | 0 | * | 0 | 0 | -- |
| Electro-Chemical Processes | -- | Q | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 395 | 0 | * | * | * | 0 | -- |

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| Facility HVAC (g) | -- | 228 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 134 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 27 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 6 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | 0 | 0 | 0 | 0 | -- |
| End Use Not Reported | * | Q | 0 | 0 | * | * | 0 | * |

316 LEATHER AND ALLIED PRODUCTS

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 3 | 316 | * | * | 1 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 2 | * | * | * | 0 | 0 | -- |
| Conventional Boiler Use | -- | 2 | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 241 | * | * | 1 | * | 0 | -- |
| Process Heating | -- | 25 | 0 | * | 1 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 11 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 202 | 0 | 0 | * | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 2 | * | 0 | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 72 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 31 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 33 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 7 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 1 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | * | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | * | Q | 0 | 0 | * | * | 0 | * |

321 WOOD PRODUCTS

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|----|----|----|-----|
| TOTAL FUEL CONSUMPTION | 384 | 21,308 | * | 2 | 48 | 1 | * | 248 |
| Indirect Uses-Boiler Fuel | -- | 237 | 0 | * | 11 | * | * | -- |
| Conventional Boiler Use | -- | 237 | 0 | * | 3 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 7 | * | * | -- |
| Direct Uses-Total Process | -- | 17,486 | * | * | 31 | * | * | -- |
| Process Heating | -- | 1,227 | * | * | 27 | * | * | -- |
| Process Cooling and Refrigeration | -- | 152 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 15,816 | * | * | 2 | * | 0 | -- |
| Electro-Chemical Processes | -- | 62 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 229 | * | * | 2 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 3,352 | 0 | 1 | 6 | 1 | 0 | -- |
| Facility HVAC (g) | -- | 1,614 | 0 | * | 6 | * | 0 | -- |
| Facility Lighting | -- | 1,279 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 336 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 49 | -- | 1 | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 73 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 250 | 233 | 0 | * | * | * | 0 | 248 |

321113 Sawmills

| | | | | | | | | |
|-------------------------------------|-----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 123 | 5,001 | * | 1 | 6 | * | * | 95 |
| Indirect Uses-Boiler Fuel | -- | -21 | 0 | * | 2 | * | 0 | -- |
| Conventional Boiler Use | -- | -21 | 0 | * | 1 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Process | -- | 4,269 | * | * | 4 | * | * | -- |
| Process Heating | -- | 295 | * | * | 4 | * | * | -- |
| Process Cooling and Refrigeration | -- | 14 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 3,923 | * | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 6 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 31 | 0 | * | 0 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 644 | 0 | 1 | * | * | 0 | -- |
| Facility HVAC (g) | -- | 207 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 345 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 87 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 3 | -- | 1 | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 1 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 96 | 109 | 0 | * | 0 | * | 0 | 95 |

3212 Veneer, Plywood, and Engineered Woods

| | | | | | | | | |
|----------------------------------|-----|-------|---|---|----|---|---|-----|
| TOTAL FUEL CONSUMPTION | 161 | 7,377 | 0 | * | 28 | * | * | 104 |
| Indirect Uses-Boiler Fuel | -- | 149 | 0 | * | 4 | * | * | -- |

| | | | | | | | | |
|-------------------------------------|------------|--------------|----------|----------|-----------|----------|----------|------------|
| Conventional Boiler Use | -- | 149 | 0 | * | 2 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 3 | * | * | -- |
| Direct Uses-Total Process | -- | 6,289 | 0 | * | 22 | * | 0 | -- |
| Process Heating | -- | 538 | 0 | * | 18 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 59 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 5,603 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 40 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 49 | 0 | * | 2 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 887 | 0 | * | 2 | * | 0 | -- |
| Facility HVAC (g) | -- | 337 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 390 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 106 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 7 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 47 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 104 | 51 | 0 | * | * | * | 0 | 104 |

321219 Reconstituted Wood Products

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|-----------|
| TOTAL FUEL CONSUMPTION | 96 | 4,926 | 0 | * | 20 | * | * | 58 |
| Indirect Uses-Boiler Fuel | -- | 107 | 0 | * | 3 | * | * | -- |
| Conventional Boiler Use | -- | 107 | 0 | 0 | 1 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 2 | * | * | -- |
| Direct Uses-Total Process | -- | 4,254 | 0 | * | 17 | * | 0 | -- |
| Process Heating | -- | 396 | 0 | * | 14 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 36 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 3,757 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 39 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 27 | 0 | 0 | 2 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 552 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 226 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 234 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 70 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 6 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 17 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 58 | 13 | 0 | 0 | 0 | 0 | 0 | 58 |

3219 Other Wood Products

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 94 | 8,541 | * | 1 | 12 | 1 | 0 | Q |
| Indirect Uses-Boiler Fuel | -- | 98 | 0 | * | 4 | * | 0 | -- |
| Conventional Boiler Use | -- | 98 | 0 | * | 1 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 3 | * | 0 | -- |
| Direct Uses-Total Process | -- | 6,642 | * | * | 5 | * | 0 | -- |
| Process Heating | -- | 306 | 0 | * | 4 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 59 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 6,119 | * | * | Q | * | 0 | -- |
| Electro-Chemical Processes | -- | Q | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 149 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,746 | 0 | * | 4 | * | 0 | -- |
| Facility HVAC (g) | -- | 1,041 | 0 | * | 4 | * | 0 | -- |
| Facility Lighting | -- | 512 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 133 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 34 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 25 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | Q | 55 | 0 | * | * | * | 0 | Q |

322 PAPER

| | | | | | | | | |
|-------------------------------------|--------------|---------------|----------|----------|------------|----------|----------|--------------|
| TOTAL FUEL CONSUMPTION | 2,090 | 56,017 | 3 | 1 | 424 | 1 | 7 | 1,291 |
| Indirect Uses-Boiler Fuel | -- | 1,506 | 2 | * | 262 | * | 6 | -- |
| Conventional Boiler Use | -- | 1,506 | 1 | * | 40 | 0 | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 1 | * | 222 | * | 6 | -- |
| Direct Uses-Total Process | -- | 48,486 | 1 | * | 139 | * | * | -- |
| Process Heating | -- | 2,256 | 1 | * | 120 | * | * | -- |
| Process Cooling and Refrigeration | -- | 1,126 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 41,510 | * | * | 16 | * | * | -- |
| Electro-Chemical Processes | -- | 458 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 3,136 | 0 | * | 3 | * | * | -- |
| Direct Uses-Total Nonprocess | -- | 5,520 | * | * | 21 | 1 | * | -- |
| Facility HVAC (g) | -- | 2,458 | * | * | 16 | * | * | -- |
| Facility Lighting | -- | 2,262 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 530 | 0 | * | 2 | * | 0 | -- |
| Onsite Transportation | -- | 150 | -- | * | * | 1 | -- | -- |

| | | | | | | | | |
|-------------------------------------|--------------|------------|----------|----------|----------|----------|----------|--------------|
| Conventional Electricity Generation | -- | -- | * | * | 3 | * | * | -- |
| Other Nonprocess Use | -- | Q | * | * | * | * | 0 | -- |
| End Use Not Reported | 1,299 | 505 | * | * | Q | * | * | 1,291 |

322110 Pulp Mills

| | | | | | | | | |
|-------------------------------------|------------|--------------|----------|----------|-----------|----------|----------|------------|
| TOTAL FUEL CONSUMPTION | 255 | 1,345 | * | * | 29 | * | * | 216 |
| Indirect Uses-Boiler Fuel | -- | 27 | * | * | 15 | * | * | -- |
| Conventional Boiler Use | -- | 27 | 0 | * | 0 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 15 | * | * | -- |
| Direct Uses-Total Process | -- | 1,220 | * | * | 14 | * | 0 | -- |
| Process Heating | -- | 11 | * | * | 14 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 13 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 1,196 | 0 | * | 0 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | 0 | 0 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 99 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 53 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 38 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 8 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | * | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | 0 | 0 | 0 | 0 | -- |
| End Use Not Reported | 216 | 0 | 0 | 0 | 0 | * | 0 | 216 |

322121 Paper Mills, except Newsprint

| | | | | | | | | |
|-------------------------------------|------------|---------------|----------|----------|------------|----------|----------|------------|
| TOTAL FUEL CONSUMPTION | 752 | 17,321 | 1 | * | 156 | * | 4 | 427 |
| Indirect Uses-Boiler Fuel | -- | 645 | 1 | * | 87 | * | 4 | -- |
| Conventional Boiler Use | -- | 645 | 1 | * | 14 | 0 | * | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 73 | * | 4 | -- |
| Direct Uses-Total Process | -- | 15,530 | * | * | 63 | * | * | -- |
| Process Heating | -- | 701 | * | * | 47 | * | * | -- |
| Process Cooling and Refrigeration | -- | 275 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 14,428 | * | * | 15 | *8 | * | -- |
| Electro-Chemical Processes | -- | 67 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 59 | 0 | * | 1 | 0 | * | -- |
| Direct Uses-Total Nonprocess | -- | 1,145 | * | * | 6 | * | * | -- |
| Facility HVAC (g) | -- | 360 | * | * | 3 | * | * | -- |
| Facility Lighting | -- | 644 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 105 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 36 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | * | * | 3 | 0 | * | -- |
| Other Nonprocess Use | -- | 0 | * | * | * | * | 0 | -- |
| End Use Not Reported | 431 | 0 | 0 | * | 0 | * | * | 427 |

322122 Newsprint Mills

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|----------|----------|----------|-----------|
| TOTAL FUEL CONSUMPTION | 59 | 8,206 | 0 | * | 8 | * | * | 22 |
| Indirect Uses-Boiler Fuel | -- | 150 | 0 | * | 6 | 0 | * | -- |
| Conventional Boiler Use | -- | 150 | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 6 | 0 | * | -- |
| Direct Uses-Total Process | -- | 7,583 | 0 | * | 2 | * | 0 | -- |
| Process Heating | -- | 100 | 0 | 0 | 2 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 82 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 4,554 | 0 | * | 0 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 329 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 2,519 | 0 | * | * | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 234 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 89 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 112 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 23 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 10 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | 23 | 239 | 0 | 0 | 0 | 0 | 0 | 22 |

322130 Paperboard Mills

| | | | | | | | | |
|----------------------------------|------------|---------------|----------|----------|------------|----------|----------|------------|
| TOTAL FUEL CONSUMPTION | 917 | 16,108 | 1 | * | 183 | * | 2 | 621 |
| Indirect Uses-Boiler Fuel | -- | 388 | 1 | * | 136 | * | 2 | -- |
| Conventional Boiler Use | -- | 388 | * | * | 18 | 0 | * | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 119 | * | 2 | -- |
| Direct Uses-Total Process | -- | 14,241 | * | * | 41 | * | * | -- |
| Process Heating | -- | 281 | * | * | 37 | * | * | -- |

| | | | | | | | | |
|-------------------------------------|------------|--------------|----------|----------|----------|----------|----------|------------|
| Process Cooling and Refrigeration | -- | 243 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 13,376 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 57 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 284 | 0 | * | 2 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,285 | * | * | 6 | * | * | -- |
| Facility HVAC (g) | -- | 478 | * | * | 5 | * | 0 | -- |
| Facility Lighting | -- | 619 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 155 | 0 | 0 | 1 | * | 0 | -- |
| Onsite Transportation | -- | 14 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | * | * | * | 0 | * | -- |
| Other Nonprocess Use | -- | 19 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 622 | 194 | * | * | 0 | * | 0 | 621 |

323 PRINTING AND RELATED SUPPORT

| | | | | | | | | |
|-------------------------------------|-----------|---------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 89 | 14,219 | * | * | 38 | * | 0 | Q |
| Indirect Uses-Boiler Fuel | -- | 118 | * | * | 7 | * | 0 | -- |
| Conventional Boiler Use | -- | 118 | * | * | 4 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 3 | * | 0 | -- |
| Direct Uses-Total Process | -- | 9,518 | 0 | * | 18 | * | 0 | -- |
| Process Heating | -- | 581 | 0 | 0 | 17 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 1,042 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 7,535 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 159 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 200 | 0 | * | Q | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 4,140 | 0 | * | 12 | * | 0 | -- |
| Facility HVAC (g) | -- | 2,372 | 0 | * | 11 | * | 0 | -- |
| Facility Lighting | -- | 1,182 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 392 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 153 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | Q | 0 | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | * | * | 0 | 0 | -- |
| End Use Not Reported | 3 | Q | 0 | 0 | 1 | * | 0 | Q |

324 PETROLEUM AND COAL PRODUCTS

| | | | | | | | | |
|-------------------------------------|--------------|---------------|----------|----------|--------------|-----------|----------|--------------|
| TOTAL FUEL CONSUMPTION | 3,513 | 48,904 | 1 | 2 | 1,041 | 10 | * | 2,216 |
| Indirect Uses-Boiler Fuel | -- | 407 | * | * | 339 | 1 | * | -- |
| Conventional Boiler Use | -- | 407 | * | * | 108 | 1 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 231 | * | * | -- |
| Direct Uses-Total Process | -- | 44,106 | 1 | 1 | 592 | 8 | * | -- |
| Process Heating | -- | -471 | * | * | 550 | 8 | 0 | -- |
| Process Cooling and Refrigeration | -- | 2,105 | * | * | 1 | * | 0 | -- |
| Machine Drive | -- | 42,081 | * | * | 12 | * | 0 | -- |
| Electro-Chemical Processes | -- | -57 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 447 | * | * | 29 | * | * | -- |
| Direct Uses-Total Nonprocess | -- | 3,628 | * | 1 | 8 | * | * | -- |
| Facility HVAC (g) | -- | 1,772 | * | * | 5 | * | 0 | -- |
| Facility Lighting | -- | 1,272 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 507 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 7 | -- | 1 | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 3 | * | 0 | -- |
| Other Nonprocess Use | -- | 69 | 0 | * | * | * | * | -- |
| End Use Not Reported | 2,324 | 763 | * | * | 101 | * | 0 | 2,216 |

324110 Petroleum Refineries

| | | | | | | | | |
|-------------------------------------|--------------|---------------|----------|----------|------------|-----------|----------|--------------|
| TOTAL FUEL CONSUMPTION | 3,372 | 46,871 | * | 1 | 972 | 10 | * | 2,168 |
| Indirect Uses-Boiler Fuel | -- | 325 | * | * | 323 | 1 | * | -- |
| Conventional Boiler Use | -- | 325 | * | * | 102 | 1 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 221 | * | * | -- |
| Direct Uses-Total Process | -- | 42,559 | * | * | 543 | 8 | 0 | -- |
| Process Heating | -- | -803 | * | * | 507 | 8 | 0 | -- |
| Process Cooling and Refrigeration | -- | 1,958 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 41,064 | 0 | * | 9 | * | 0 | -- |
| Electro-Chemical Processes | -- | -70 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 411 | 0 | * | 27 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 3,254 | 0 | 1 | 6 | * | 0 | -- |
| Facility HVAC (g) | -- | 1,620 | 0 | * | 2 | * | 0 | -- |
| Facility Lighting | -- | 1,115 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 458 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 0 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 3 | * | 0 | -- |
| Other Nonprocess Use | -- | 62 | 0 | * | * | 0 | 0 | -- |
| End Use Not Reported | 2,275 | 733 | * | * | 101 | * | 0 | 2,168 |

324121 Asphalt Paving Mixture and Block

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 57 | 933 | * | 1 | 41 | * | 0 | 4 |
| Indirect Uses-Boiler Fuel | -- | 31 | 0 | * | 5 | * | 0 | -- |
| Conventional Boiler Use | -- | 31 | 0 | * | 1 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 5 | * | 0 | -- |
| Direct Uses-Total Process | -- | 749 | * | * | 35 | * | 0 | -- |
| Process Heating | -- | 151 | * | * | 30 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 3 | * | * | * | 0 | 0 | -- |
| Machine Drive | -- | 593 | -- | * | 3 | * | 0 | -- |
| Electro-Chemical Processes | -- | * | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 1 | * | * | 2 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 125 | * | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 53 | * | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 47 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 21 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 1 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 2 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 5 | 29 | 0 | * | * | * | 0 | 4 |

324122 Asphalt Shingle and Coating Materials

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 14 | 730 | * | * | 10 | * | * | * |
| Indirect Uses-Boiler Fuel | -- | 19 | * | * | 3 | * | 0 | -- |
| Conventional Boiler Use | -- | 19 | 0 | * | 1 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 2 | * | 0 | -- |
| Direct Uses-Total Process | -- | 573 | 0 | * | 7 | * | * | -- |
| Process Heating | -- | 56 | 0 | * | 6 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 32 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 467 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 12 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 7 | 0 | * | * | * | * | -- |
| Direct Uses-Total Nonprocess | -- | 138 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 60 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 63 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 13 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 2 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | * | 0 | 0 | * | 0 | * | 0 | * |

324199 Other Petroleum and Coal Products

| | | | | | | | | |
|-------------------------------------|----|------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 58 | -316 | 0 | * | 7 | * | * | 44 |
| Indirect Uses-Boiler Fuel | -- | 8 | 0 | * | 2 | * | 0 | -- |
| Conventional Boiler Use | -- | 8 | 0 | * | 1 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Process | -- | -304 | 0 | * | 5 | * | * | -- |
| Process Heating | -- | 70 | 0 | * | 5 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 28 | 0 | 0 | 0 | * | 0 | -- |
| Machine Drive | -- | -402 | 0 | * | 0 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | * | 0 | * | 0 | * | * | -- |
| Direct Uses-Total Nonprocess | -- | -20 | 0 | * | 1 | * | * | -- |
| Facility HVAC (g) | -- | -19 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | -1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | -1 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | * | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | * | 0 | * | * | 0 | * | -- |
| End Use Not Reported | 44 | 0 | 0 | 0 | 0 | * | 0 | 44 |

325 CHEMICALS

| | | | | | | | | |
|-----------------------------------|-------|---------|----|----|-------|----|----|-----|
| TOTAL FUEL CONSUMPTION | 3,527 | 134,327 | * | 2 | 1,946 | 1 | 11 | 814 |
| Indirect Uses-Boiler Fuel | -- | 2,127 | * | * | 1,023 | * | 7 | -- |
| Conventional Boiler Use | -- | 2,127 | * | * | 324 | * | 1 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 700 | * | 6 | -- |
| Direct Uses-Total Process | -- | 111,418 | * | * | 855 | * | 1 | -- |
| Process Heating | -- | 5,877 | * | * | 688 | * | 1 | -- |
| Process Cooling and Refrigeration | -- | 11,545 | 0 | * | 15 | * | 0 | -- |
| Machine Drive | -- | 74,167 | 0 | * | 88 | * | * | -- |
| Electro-Chemical Processes | -- | 17,106 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 2,722 | 0 | * | 64 | * | 0 | -- |

| | | | | | | | | |
|---|------------|---------------|----------|----------|------------|----------|----------|------------|
| Direct Uses-Total Nonprocess | -- | 18,668 | * | 1 | 56 | * | * | -- |
| Facility HVAC (g) | -- | 9,743 | * | * | 47 | * | * | -- |
| Facility Lighting | -- | 6,260 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1,789 | 0 | * | 6 | * | 0 | -- |
| Onsite Transportation | -- | 427 | -- | 1 | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 448 | 0 | * | 2 | * | 0 | -- |
| End Use Not Reported | 889 | 2,115 | 0 | * | 11 | * | 3 | 814 |
| 325110 Petrochemicals | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 537 | 5,810 | 0 | * | 300 | * | 0 | 207 |
| Indirect Uses-Boiler Fuel | -- | 21 | 0 | * | 85 | * | 0 | -- |
| Conventional Boiler Use | -- | 21 | 0 | * | 18 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 66 | * | 0 | -- |
| Direct Uses-Total Process | -- | 5,472 | 0 | * | 215 | * | 0 | -- |
| Process Heating | -- | 280 | 0 | 0 | C | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 894 | 0 | 0 | 3 | 0 | 0 | -- |
| Machine Drive | -- | 3,460 | 0 | * | W | * | 0 | -- |
| Electro-Chemical Processes | -- | 837 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | * | C | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 317 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 161 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 121 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 34 | 0 | * | * | 0 | 0 | -- |
| Onsite Transportation | -- | 1 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | * | 0 | * | 1 | 0 | 0 | -- |
| End Use Not Reported | 207 | 0 | 0 | * | 0 | * | 0 | 207 |
| 325120 Industrial Gases | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 109 | 19,971 | 0 | * | 37 | * | 0 | 3 |
| Indirect Uses-Boiler Fuel | -- | 26 | 0 | * | 5 | * | 0 | -- |
| Conventional Boiler Use | -- | 26 | 0 | * | 3 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 2 | * | 0 | -- |
| Direct Uses-Total Process | -- | 19,299 | 0 | * | 16 | 0 | 0 | -- |
| Process Heating | -- | 244 | 0 | * | 7 | 0 | 0 | -- |
| Process Cooling and Refrigeration | -- | 432 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 18,617 | 0 | * | 5 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 6 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | 0 | 4 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 642 | 0 | * | 15 | * | 0 | -- |
| Facility HVAC (g) | -- | 426 | 0 | * | 15 | * | 0 | -- |
| Facility Lighting | -- | 144 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 44 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | Q | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | 3 | 4 | 0 | 0 | 0 | * | 0 | 3 |
| 325180 Other Basic Inorganic Chemicals | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 358 | 23,213 | 0 | * | 147 | * | 2 | 74 |
| Indirect Uses-Boiler Fuel | -- | 705 | 0 | * | 50 | * | 2 | -- |
| Conventional Boiler Use | -- | 705 | 0 | * | 15 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 35 | * | 2 | -- |
| Direct Uses-Total Process | -- | 20,491 | 0 | * | 94 | * | * | -- |
| Process Heating | -- | 1,045 | 0 | * | 47 | * | * | -- |
| Process Cooling and Refrigeration | -- | 896 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 5,142 | 0 | * | 45 | * | 0 | -- |
| Electro-Chemical Processes | -- | 11,866 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 1,542 | -- | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,719 | 0 | * | 3 | * | 0 | -- |
| Facility HVAC (g) | -- | 714 | 0 | * | 2 | * | 0 | -- |
| Facility Lighting | -- | 631 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 222 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 31 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 121 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 76 | Q | 0 | 0 | Q | * | 0 | 74 |
| 325193 Ethyl Alcohol | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 491 | 11,306 | 0 | * | 353 | * | 4 | 8 |

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|-----|----|----|----|
| Indirect Uses-Boiler Fuel | -- | 372 | 0 | 0 | 212 | 0 | 2 | -- |
| Conventional Boiler Use | -- | 372 | 0 | 0 | 117 | 0 | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 94 | 0 | 1 | -- |
| Direct Uses-Total Process | -- | 9,751 | 0 | * | 134 | * | * | -- |
| Process Heating | -- | 463 | 0 | 0 | 117 | 0 | * | -- |
| Process Cooling and Refrigeration | -- | 1,261 | 0 | 0 | 1 | 0 | 0 | -- |
| Machine Drive | -- | 7,727 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 138 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 161 | 0 | 0 | 15 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 776 | 0 | * | 4 | * | 0 | -- |
| Facility HVAC (g) | -- | 353 | 0 | 0 | 3 | * | 0 | -- |
| Facility Lighting | -- | 300 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 112 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 11 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | * | * | 0 | 0 | -- |
| End Use Not Reported | 55 | 406 | 0 | * | Q | * | 2 | 8 |

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 41 | 2,998 | 0 | * | 23 | * | 0 | 7 |
| Indirect Uses-Boiler Fuel | -- | 18 | 0 | * | 14 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 18 | 0 | * | 6 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 9 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 2,438 | 0 | * | 9 | * | 0 | -- |
| Process Heating | -- | 245 | 0 | 0 | 8 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 662 | 0 | * | 0 | 0 | 0 | -- |
| Machine Drive | -- | 1,434 | 0 | * | 0 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 97 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | * | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 538 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 265 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 150 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 121 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 3 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | 0 | * | 0 | 0 | -- |
| End Use Not Reported | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 7 |

325199 Other Basic Organic Chemicals

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|-----|----|----|-----|
| TOTAL FUEL CONSUMPTION | 791 | 16,805 | * | * | 353 | * | 3 | 307 |
| Indirect Uses-Boiler Fuel | -- | 207 | * | * | 223 | * | 2 | -- |
| Conventional Boiler Use | -- | 207 | * | * | 82 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 141 | * | 2 | -- |
| Direct Uses-Total Process | -- | 14,179 | 0 | * | 124 | * | 0 | -- |
| Process Heating | -- | 521 | 0 | * | 85 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 2,156 | 0 | 0 | 4 | * | 0 | -- |
| Machine Drive | -- | 10,489 | 0 | * | 15 | * | 0 | -- |
| Electro-Chemical Processes | -- | 958 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 56 | 0 | * | 20 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,232 | 0 | * | 6 | * | 0 | -- |
| Facility HVAC (g) | -- | 956 | 0 | * | 4 | * | 0 | -- |
| Facility Lighting | -- | 954 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 133 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 91 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 99 | 0 | * | Q | * | 0 | -- |
| End Use Not Reported | 321 | 187 | 0 | * | * | * | 1 | 307 |

325211 Plastics Materials and Resins

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|-----|----|----|-----|
| TOTAL FUEL CONSUMPTION | 552 | 16,934 | * | * | 365 | * | 1 | 103 |
| Indirect Uses-Boiler Fuel | -- | 221 | * | * | 275 | * | * | -- |
| Conventional Boiler Use | -- | 221 | * | * | 25 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 250 | * | 0 | -- |
| Direct Uses-Total Process | -- | 14,659 | * | * | 84 | * | * | -- |
| Process Heating | -- | 859 | * | 0 | 70 | * | * | -- |
| Process Cooling and Refrigeration | -- | 939 | 0 | * | 6 | * | 0 | -- |
| Machine Drive | -- | 10,006 | 0 | * | 4 | * | 0 | -- |
| Electro-Chemical Processes | -- | 2,749 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 106 | 0 | * | 5 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,771 | * | * | 6 | * | * | -- |
| Facility HVAC (g) | -- | 776 | * | * | 4 | * | * | -- |
| Facility Lighting | -- | 723 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 194 | 0 | * | 2 | * | 0 | -- |

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|----------|----------|----------|----------|------------|
| Onsite Transportation | -- | 29 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 50 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 104 | 283 | 0 | 0 | * | * | 0 | 103 |

325212 Synthetic Rubber

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|-----------|
| TOTAL FUEL CONSUMPTION | 33 | 1,127 | 0 | * | 18 | * | * | 10 |
| Indirect Uses-Boiler Fuel | -- | 7 | 0 | * | 17 | * | * | -- |
| Conventional Boiler Use | -- | 7 | 0 | * | 8 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 9 | * | * | -- |
| Direct Uses-Total Process | -- | 991 | 0 | * | 1 | * | 0 | -- |
| Process Heating | -- | 96 | 0 | * | 1 | 0 | 0 | -- |
| Process Cooling and Refrigeration | -- | 241 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 654 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | * | * | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 153 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 90 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 36 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 22 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 2 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 4 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 10 | -24 | 0 | * | 0 | * | 0 | 10 |

325220 Artificial and Synthetic Fibers and Filaments

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 35 | 3,217 | * | * | 13 | * | * | * |
| Indirect Uses-Boiler Fuel | -- | 25 | * | * | 9 | * | * | -- |
| Conventional Boiler Use | -- | 25 | * | * | 4 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 5 | 0 | * | -- |
| Direct Uses-Total Process | -- | 2,651 | * | * | 4 | * | * | -- |
| Process Heating | -- | 388 | * | * | 3 | * | * | -- |
| Process Cooling and Refrigeration | -- | 432 | 0 | 0 | 1 | 0 | 0 | -- |
| Machine Drive | -- | 1,640 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | * | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 189 | 0 | 0 | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 541 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 283 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 189 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 49 | 0 | * | * | 0 | 0 | -- |
| Onsite Transportation | -- | 15 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 4 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | * | 0 | 0 | 0 | * | * | 0 | * |

325311 Nitrogenous Fertilizers

| | | | | | | | | |
|-------------------------------------|------------|--------------|----------|----------|------------|----------|----------|-----------|
| TOTAL FUEL CONSUMPTION | 182 | 3,832 | * | * | 154 | * | 0 | 10 |
| Indirect Uses-Boiler Fuel | -- | 33 | * | 0 | 35 | * | 0 | -- |
| Conventional Boiler Use | -- | 33 | 0 | 0 | 12 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | 0 | 23 | * | 0 | -- |
| Direct Uses-Total Process | -- | 3,001 | 0 | * | 111 | * | 0 | -- |
| Process Heating | -- | 217 | 0 | * | 100 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 200 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 2,469 | 0 | * | 3 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 67 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 48 | 0 | * | 8 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 513 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 219 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 192 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 65 | -- | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 24 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 12 | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | 19 | 286 | 0 | 0 | 7 | * | 0 | 10 |

325312 Phosphatic Fertilizers

| | | | | | | | | |
|----------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 36 | 1,998 | * | * | 24 | * | * | * |
| Indirect Uses-Boiler Fuel | -- | 2 | * | * | 3 | * | * | -- |
| Conventional Boiler Use | -- | 2 | 0 | 0 | 1 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 2 | * | * | -- |
| Direct Uses-Total Process | -- | 1,858 | 0 | * | 21 | * | 0 | -- |

| | | | | | | | | |
|-------------------------------------|---|---------------|----------|----------|-----------|----------|----------|----------|
| Process Heating | -- | 13 | 0 | 0 | 21 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 3 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 1,842 | 0 | * | 0 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 123 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 57 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 58 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 8 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | * | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | * | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | * | 16 | 0 | 0 | * | 0 | 0 | * |
| 3254 | Pharmaceuticals and Medicines | | | | | | | |
| TOTAL FUEL CONSUMPTION | 94 | 10,671 | 0 | * | 49 | * | * | 4 |
| Indirect Uses-Boiler Fuel | -- | 211 | 0 | * | 35 | * | * | -- |
| Conventional Boiler Use | -- | 211 | 0 | * | 17 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 19 | * | * | -- |
| Direct Uses-Total Process | -- | 5,172 | 0 | * | 5 | * | 0 | -- |
| Process Heating | -- | 304 | 0 | * | 4 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 1,744 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 2,881 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 12 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 231 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 5,196 | 0 | * | 8 | * | * | -- |
| Facility HVAC (g) | -- | 3,421 | 0 | * | 7 | * | * | -- |
| Facility Lighting | -- | 1,333 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 358 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 67 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 17 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 4 | 92 | 0 | * | * | 0 | 0 | 4 |
| 325412 | Pharmaceutical Preparation | | | | | | | |
| TOTAL FUEL CONSUMPTION | 47 | 5,617 | 0 | * | 21 | * | * | 3 |
| Indirect Uses-Boiler Fuel | -- | 121 | 0 | * | 13 | * | * | -- |
| Conventional Boiler Use | -- | 121 | 0 | * | 8 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 5 | * | * | -- |
| Direct Uses-Total Process | -- | 2,786 | 0 | * | 3 | * | 0 | -- |
| Process Heating | -- | 212 | 0 | * | 2 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 827 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 1,603 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 6 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 138 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,619 | 0 | * | 4 | * | * | -- |
| Facility HVAC (g) | -- | 1,716 | 0 | * | 4 | * | * | -- |
| Facility Lighting | -- | 623 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 227 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 48 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 5 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 3 | 92 | 0 | 0 | * | 0 | 0 | 3 |
| 325992 | Photographic Film, Paper, Plate, and Chemicals | | | | | | | |
| TOTAL FUEL CONSUMPTION | 9 | 993 | * | * | 4 | * | 0 | 2 |
| Indirect Uses-Boiler Fuel | -- | 16 | * | * | 2 | * | 0 | -- |
| Conventional Boiler Use | -- | 16 | 0 | 0 | 1 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 1 | * | 0 | -- |
| Direct Uses-Total Process | -- | 615 | 0 | * | 1 | * | 0 | -- |
| Process Heating | -- | 48 | 0 | 0 | 1 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 149 | 0 | 0 | 0 | * | 0 | -- |
| Machine Drive | -- | 339 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 45 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 34 | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 361 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 186 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 109 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 40 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 8 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 19 | 0 | * | * | 0 | 0 | -- |
| End Use Not Reported | 2 | 1 | 0 | 0 | * | * | 0 | 2 |

326

PLASTICS AND RUBBER PRODUCTS

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 294 | 55,631 | 0 | Q | 87 | 1 | * | Q |
| Indirect Uses-Boiler Fuel | -- | 261 | 0 | * | 41 | * | * | -- |
| Conventional Boiler Use | -- | 261 | 0 | * | 20 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 21 | * | * | -- |
| Direct Uses-Total Process | -- | 42,463 | 0 | * | 24 | * | 0 | -- |
| Process Heating | -- | 8,538 | 0 | * | 22 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 4,308 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 28,698 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | Q | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | Q | 0 | 0 | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 12,482 | 0 | Q | 21 | 1 | * | -- |
| Facility HVAC (g) | -- | 5,478 | 0 | * | 20 | * | * | -- |
| Facility Lighting | -- | 5,116 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1,232 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 233 | -- | * | * | 1 | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 7 | Q | 0 | * | Q | * | 0 | Q |

327

NONMETALLIC MINERAL PRODUCTS

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|-----|----|----|-----|
| TOTAL FUEL CONSUMPTION | 827 | 37,498 | * | 3 | 324 | 1 | 11 | 109 |
| Indirect Uses-Boiler Fuel | -- | 319 | * | * | 13 | * | * | -- |
| Conventional Boiler Use | -- | 319 | 0 | * | 2 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 11 | * | * | -- |
| Direct Uses-Total Process | -- | 30,633 | * | 1 | 270 | * | 11 | -- |
| Process Heating | -- | 9,049 | * | * | 258 | * | 10 | -- |
| Process Cooling and Refrigeration | -- | 1,394 | 0 | 0 | 2 | * | 0 | -- |
| Machine Drive | -- | 18,779 | 0 | 1 | 7 | * | * | -- |
| Electro-Chemical Processes | -- | 636 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 774 | 0 | * | 3 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 4,814 | * | 2 | 20 | * | * | -- |
| Facility HVAC (g) | -- | 2,313 | * | * | 18 | * | * | -- |
| Facility Lighting | -- | 1,766 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 543 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 135 | -- | 1 | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 57 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 136 | Q | 0 | * | Q | * | * | 109 |

327120

Clay Building Material and Refractories

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 43 | 1,502 | * | * | 34 | * | * | 1 |
| Indirect Uses-Boiler Fuel | -- | 6 | 0 | 0 | 1 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 6 | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 1 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 1,237 | * | * | 31 | * | * | -- |
| Process Heating | -- | 329 | * | * | 31 | * | * | -- |
| Process Cooling and Refrigeration | -- | 25 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 845 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | * | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 37 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 257 | 0 | * | 2 | * | 0 | -- |
| Facility HVAC (g) | -- | 95 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 125 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 32 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 5 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | * | 0 | * | * | 0 | 0 | -- |
| End Use Not Reported | 2 | 3 | 0 | * | 1 | * | * | 1 |

327211

Flat Glass

| | | | | | | | | |
|-----------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 62 | 1,657 | 0 | * | 45 | * | 0 | 9 |
| Indirect Uses-Boiler Fuel | -- | 28 | 0 | 0 | * | 0 | 0 | -- |
| Conventional Boiler Use | -- | 28 | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 1,377 | 0 | * | 42 | * | 0 | -- |
| Process Heating | -- | 662 | 0 | 0 | 38 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 102 | 0 | 0 | 2 | 0 | 0 | -- |
| Machine Drive | -- | 542 | 0 | * | 2 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 12 | -- | -- | -- | -- | -- | -- |

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| Other Process Use | -- | 61 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 189 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 79 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 74 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 21 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 16 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | 12 | 63 | 0 | * | 2 | * | 0 | 9 |

327212 Other Pressed and Blown Glass and Glassware

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 32 | 2,237 | 0 | * | 24 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 101 | 0 | * | 3 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 101 | 0 | * | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 2 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 1,789 | 0 | * | 20 | * | 0 | -- |
| Process Heating | -- | 939 | 0 | * | 18 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 215 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 614 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 2 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 20 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 347 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 180 | 0 | 0 | 1 | * | 0 | -- |
| Facility Lighting | -- | 119 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 35 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 13 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | * | 0 | 0 | 0 | 0 | * | 0 | * |

327213 Glass Containers

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 58 | 3,544 | 0 | * | 45 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 1 | 0 | 0 | * | * | 0 | -- |
| Conventional Boiler Use | -- | 1 | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | * | 0 | -- |
| Direct Uses-Total Process | -- | 3,137 | 0 | * | 42 | * | 0 | -- |
| Process Heating | -- | 1,307 | 0 | * | 41 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 86 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 1,730 | 0 | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 15 | 0 | * | 0 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 406 | 0 | * | 2 | * | 0 | -- |
| Facility HVAC (g) | -- | 186 | 0 | * | 2 | * | 0 | -- |
| Facility Lighting | -- | 171 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 48 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 2 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | * | 0 | 0 | 0 | 0 | * | 0 | * |

327215 Glass Products from Purchased Glass

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 23 | 3,347 | * | * | 11 | * | * | * |
| Indirect Uses-Boiler Fuel | -- | 47 | * | * | 1 | * | 0 | -- |
| Conventional Boiler Use | -- | 47 | 0 | 0 | * | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 1 | * | 0 | -- |
| Direct Uses-Total Process | -- | 2,501 | 0 | * | 8 | * | 0 | -- |
| Process Heating | -- | 1,281 | 0 | 0 | 7 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 145 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 992 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 3 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 80 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 595 | 0 | * | 2 | * | * | -- |
| Facility HVAC (g) | -- | 281 | 0 | 0 | 2 | * | * | -- |
| Facility Lighting | -- | 208 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 81 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 19 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 6 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 1 | 204 | 0 | * | * | * | 0 | * |

327310 Cements

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 297 | 11,008 | * | 1 | 20 | * | 7 | 77 |
| Indirect Uses-Boiler Fuel | -- | 6 | 0 | 0 | * | 0 | * | -- |
| Conventional Boiler Use | -- | 6 | 0 | 0 | 0 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | 0 | * | -- |
| Direct Uses-Total Process | -- | 10,351 | * | * | 20 | * | 7 | -- |
| Process Heating | -- | 1,942 | * | * | 19 | * | 7 | -- |
| Process Cooling and Refrigeration | -- | 525 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 7,701 | 0 | * | * | * | * | -- |
| Electro-Chemical Processes | -- | * | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 184 | 0 | * | 0 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 545 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 278 | 0 | * | * | * | 0 | -- |
| Facility Lighting | -- | 165 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 48 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 25 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 28 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 77 | 105 | 0 | * | * | * | 0 | 77 |

327410 Lime

| | | | | | | | | |
|-------------------------------------|-----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 105 | 1,461 | 0 | * | 6 | * | 3 | 19 |
| Indirect Uses-Boiler Fuel | -- | 6 | 0 | 0 | 0 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 6 | 0 | 0 | 0 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 1,332 | 0 | * | 6 | * | 3 | -- |
| Process Heating | -- | 266 | 0 | * | 6 | * | 3 | -- |
| Process Cooling and Refrigeration | -- | 2 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 1,041 | 0 | * | 0 | * | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 23 | 0 | * | 0 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 122 | 0 | * | * | * | 0 | -- |
| Facility HVAC (g) | -- | 62 | 0 | 0 | * | * | 0 | -- |
| Facility Lighting | -- | 51 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 9 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 1 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | 0 | 0 | 0 | 0 | -- |
| End Use Not Reported | 19 | 1 | 0 | * | 0 | * | 0 | 19 |

327420 Gypsum

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 53 | 1,368 | 0 | * | 46 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 2 | 0 | * | 1 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 2 | 0 | * | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 1,126 | 0 | * | 44 | 0 | 0 | -- |
| Process Heating | -- | 102 | 0 | * | 42 | 0 | 0 | -- |
| Process Cooling and Refrigeration | -- | 24 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 1,000 | 0 | * | 2 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0 | 0 | * | 0 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 239 | 0 | * | 2 | * | 0 | -- |
| Facility HVAC (g) | -- | 76 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 106 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 53 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 4 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 0 | 0 | 0 | 0 | 0 | 0 | -- |
| End Use Not Reported | * | 0 | 0 | 0 | 0 | 0 | 0 | * |

327993 Mineral Wool

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 33 | 3,207 | 0 | * | 20 | * | 0 | 1 |
| Indirect Uses-Boiler Fuel | -- | 54 | 0 | * | * | 0 | 0 | -- |
| Conventional Boiler Use | -- | 54 | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 2,686 | 0 | * | 18 | * | 0 | -- |
| Process Heating | -- | 1,338 | 0 | 0 | 17 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 96 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 1,077 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | * | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 174 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 350 | 0 | * | 2 | * | 0 | -- |
| Facility HVAC (g) | -- | 143 | 0 | * | 2 | * | 0 | -- |
| Facility Lighting | -- | 163 | -- | -- | -- | -- | -- | -- |

| | | | | | | | | |
|-------------------------------------|----------|------------|----------|----------|----------|----------|----------|----------|
| Other Facility Support | -- | 30 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 2 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 12 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 2 | 118 | 0 | 0 | * | * | 0 | 1 |

331 PRIMARY METALS

| | | | | | | | | |
|-------------------------------------|--------------|----------------|----------|----------|------------|----------|----------|------------|
| TOTAL FUEL CONSUMPTION | 1,684 | 127,040 | * | 1 | 625 | 1 | 1 | 580 |
| Indirect Uses-Boiler Fuel | -- | 441 | * | * | 83 | * | 0 | -- |
| Conventional Boiler Use | -- | 441 | * | * | 22 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | * | 61 | * | 0 | -- |
| Direct Uses-Total Process | -- | 113,669 | * | * | 490 | * | 1 | -- |
| Process Heating | -- | 46,860 | * | * | 439 | * | * | -- |
| Process Cooling and Refrigeration | -- | 1,896 | 0 | * | 5 | * | 0 | -- |
| Machine Drive | -- | 33,767 | * | * | 11 | * | 0 | -- |
| Electro-Chemical Processes | -- | 29,145 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 2,001 | 0 | * | 35 | * | * | -- |
| Direct Uses-Total Nonprocess | -- | 10,331 | * | 1 | 46 | * | 0 | -- |
| Facility HVAC (g) | -- | 4,396 | * | * | 38 | * | 0 | -- |
| Facility Lighting | -- | 4,165 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1,239 | 0 | * | 6 | * | 0 | -- |
| Onsite Transportation | -- | 194 | -- | 1 | 1 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 335 | 0 | * | 1 | * | 0 | -- |
| End Use Not Reported | 595 | 2,599 | * | * | 6 | * | 0 | 580 |

331110 Iron and Steel Mills and Ferroalloys

| | | | | | | | | |
|-------------------------------------|--------------|---------------|----------|----------|------------|----------|----------|------------|
| TOTAL FUEL CONSUMPTION | 1,172 | 59,867 | * | 1 | 390 | * | 1 | 544 |
| Indirect Uses-Boiler Fuel | -- | 240 | * | 0 | 44 | * | 0 | -- |
| Conventional Boiler Use | -- | 240 | * | 0 | 14 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | * | 0 | 30 | * | 0 | -- |
| Direct Uses-Total Process | -- | 53,250 | 0 | * | 324 | * | 1 | -- |
| Process Heating | -- | 31,762 | 0 | * | 283 | * | * | -- |
| Process Cooling and Refrigeration | -- | 940 | 0 | 0 | 5 | * | 0 | -- |
| Machine Drive | -- | 18,320 | 0 | * | 3 | * | 0 | -- |
| Electro-Chemical Processes | -- | 1,416 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 812 | 0 | * | 33 | * | * | -- |
| Direct Uses-Total Nonprocess | -- | 4,040 | 0 | 1 | 18 | * | 0 | -- |
| Facility HVAC (g) | -- | 1,342 | 0 | * | 14 | * | 0 | -- |
| Facility Lighting | -- | 1,847 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 642 | 0 | 0 | 4 | * | 0 | -- |
| Onsite Transportation | -- | 117 | -- | 1 | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | * | 0 | -- |
| Other Nonprocess Use | -- | 92 | 0 | * | 1 | * | 0 | -- |
| End Use Not Reported | 556 | 2,337 | * | * | 4 | * | 0 | 544 |

3312 Steel Products from Purchased Steel

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 57 | 6,557 | 0 | * | 26 | * | 0 | 7 |
| Indirect Uses-Boiler Fuel | -- | 19 | 0 | * | 3 | * | 0 | -- |
| Conventional Boiler Use | -- | 19 | 0 | 0 | 2 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Process | -- | 5,639 | 0 | * | 19 | * | 0 | -- |
| Process Heating | -- | 1,664 | 0 | * | 17 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 149 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 3,769 | 0 | * | Q | * | 0 | -- |
| Electro-Chemical Processes | -- | 23 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 33 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 887 | 0 | * | 4 | * | 0 | -- |
| Facility HVAC (g) | -- | 352 | 0 | * | 3 | * | 0 | -- |
| Facility Lighting | -- | 416 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 94 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 16 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | 0 | * | * | 0 | -- |
| End Use Not Reported | 7 | 12 | 0 | * | * | * | 0 | 7 |

3313 Alumina and Aluminum

| | | | | | | | | |
|----------------------------------|------------|---------------|----------|----------|------------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 243 | 34,380 | * | * | 114 | * | 0 | 6 |
| Indirect Uses-Boiler Fuel | -- | 39 | * | 0 | 26 | * | 0 | -- |
| Conventional Boiler Use | -- | 39 | * | 0 | 2 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 24 | * | 0 | -- |

| | | | | | | | | |
|-------------------------------------|----|--------|----|----|----|----|----|----|
| Direct Uses-Total Process | -- | 32,614 | * | * | 78 | * | 0 | -- |
| Process Heating | -- | 1,548 | * | * | 72 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 169 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 4,953 | 0 | * | 5 | * | 0 | -- |
| Electro-Chemical Processes | -- | 25,834 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 110 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,625 | * | * | 9 | * | 0 | -- |
| Facility HVAC (g) | -- | 720 | * | * | 7 | * | 0 | -- |
| Facility Lighting | -- | 658 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 177 | 0 | 0 | 2 | * | 0 | -- |
| Onsite Transportation | -- | 7 | -- | * | 1 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 64 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 8 | 103 | 0 | * | 2 | * | 0 | 6 |

331314 Secondary Smelting and Alloying of Aluminum

| | | | | | | | | |
|-------------------------------------|----|-----|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 20 | 847 | 0 | * | 16 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | * | 0 | 0 | * | 0 | 0 | -- |
| Conventional Boiler Use | -- | * | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 678 | 0 | * | 14 | * | 0 | -- |
| Process Heating | -- | 200 | 0 | * | 14 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 31 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 426 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 3 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 18 | 0 | * | 0 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 162 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 59 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 81 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 19 | 0 | 0 | * | 0 | 0 | -- |
| Onsite Transportation | -- | 2 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | * | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 2 | 6 | 0 | 0 | 1 | * | 0 | * |

331315 Aluminum Sheet, Plate and Foils

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 63 | 4,494 | * | * | 44 | * | 0 | 2 |
| Indirect Uses-Boiler Fuel | -- | 1 | 0 | 0 | 2 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 1 | 0 | 0 | 2 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 3,923 | * | * | 37 | * | 0 | -- |
| Process Heating | -- | 767 | * | 0 | 33 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 58 | 0 | * | * | 0 | 0 | -- |
| Machine Drive | -- | 3,072 | 0 | * | 3 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 12 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 13 | 0 | 0 | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 570 | 0 | * | 5 | * | 0 | -- |
| Facility HVAC (g) | -- | 267 | 0 | 0 | 4 | 0 | 0 | -- |
| Facility Lighting | -- | 224 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 70 | 0 | 0 | 1 | * | 0 | -- |
| Onsite Transportation | -- | 2 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 7 | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

331318 Other Aluminum Rolling, Drawing and Extruding

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 19 | 1,741 | * | * | 13 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 24 | 0 | 0 | 1 | * | 0 | -- |
| Conventional Boiler Use | -- | 24 | 0 | 0 | * | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | * | 0 | -- |
| Direct Uses-Total Process | -- | 1,299 | 0 | * | 11 | * | 0 | -- |
| Process Heating | -- | 325 | 0 | 0 | 10 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 65 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 860 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 39 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 9 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 322 | * | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 134 | * | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 154 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 30 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 2 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 2 | 0 | * | 0 | 0 | 0 | -- |

| | | | | | | | | |
|--|-----|--------|----|----|----|----|----|----|
| End Use Not Reported | 1 | 97 | 0 | * | * | * | 0 | * |
| 3314 Nonferrous Metals, except Aluminum | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 96 | 13,017 | 0 | * | 41 | * | * | 7 |
| Indirect Uses-Boiler Fuel | -- | 59 | 0 | * | 8 | * | 0 | -- |
| Conventional Boiler Use | -- | 59 | 0 | * | 4 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 5 | * | 0 | -- |
| Direct Uses-Total Process | -- | 11,638 | 0 | * | 29 | * | * | -- |
| Process Heating | -- | 5,644 | 0 | * | 28 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 400 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 2,950 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 1,814 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 830 | 0 | * | * | * | * | -- |
| Direct Uses-Total Nonprocess | -- | 1,296 | 0 | * | 4 | * | 0 | -- |
| Facility HVAC (g) | -- | 611 | 0 | * | 3 | * | 0 | -- |
| Facility Lighting | -- | 435 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 118 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 10 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 122 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 7 | 24 | 0 | 0 | 0 | * | 0 | 7 |
| 331410 Nonferrous Metal (except Aluminum) Smelting and Refining | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 48 | 7,785 | 0 | * | 16 | * | * | 4 |
| Indirect Uses-Boiler Fuel | -- | 26 | 0 | * | 6 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 26 | 0 | * | 2 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 4 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 7,323 | 0 | * | 9 | * | * | -- |
| Process Heating | -- | 4,064 | 0 | * | 8 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 286 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 569 | 0 | * | * | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 1,679 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 725 | 0 | * | * | * | * | -- |
| Direct Uses-Total Nonprocess | -- | 436 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 164 | 0 | 0 | 1 | * | 0 | -- |
| Facility Lighting | -- | 122 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 37 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 1 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 112 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 4 | * | 0 | 0 | 0 | * | 0 | 4 |
| 3315 Foundries | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 118 | 13,219 | * | * | 54 | * | * | 15 |
| Indirect Uses-Boiler Fuel | -- | 84 | 0 | * | 1 | * | 0 | -- |
| Conventional Boiler Use | -- | 84 | 0 | * | 1 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Process | -- | 10,528 | * | * | 41 | * | * | -- |
| Process Heating | -- | 6,243 | 0 | * | 39 | * | * | -- |
| Process Cooling and Refrigeration | -- | 238 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 3,775 | * | * | 1 | * | 0 | -- |
| Electro-Chemical Processes | -- | 58 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 215 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,482 | * | * | 12 | * | 0 | -- |
| Facility HVAC (g) | -- | 1,372 | * | * | 11 | * | 0 | -- |
| Facility Lighting | -- | 810 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 209 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 44 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 46 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 16 | 124 | 0 | * | * | * | 0 | 15 |
| 331511 Iron Foundries | | | | | | | | |
| TOTAL FUEL CONSUMPTION | 52 | 6,047 | * | * | 15 | * | * | 15 |
| Indirect Uses-Boiler Fuel | -- | 7 | 0 | * | * | * | 0 | -- |
| Conventional Boiler Use | -- | 7 | 0 | 0 | * | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Process | -- | 4,753 | 0 | * | 9 | * | * | -- |
| Process Heating | -- | 2,976 | 0 | * | 8 | * | * | -- |
| Process Cooling and Refrigeration | -- | 47 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 1,596 | 0 | * | * | * | 0 | -- |

| | | | | | | | | |
|-------------------------------------|----|--------------|----------|----------|----------|----------|----------|-----------|
| Electro-Chemical Processes | -- | 11 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 122 | 0 | 0 | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,286 | * | * | 6 | * | 0 | -- |
| Facility HVAC (g) | -- | 782 | * | * | 6 | * | 0 | -- |
| Facility Lighting | -- | 380 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 84 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 16 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | * | 0 | -- |
| Other Nonprocess Use | -- | 24 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 15 | * | 0 | * | * | * | 0 | 15 |

331523 Nonferrous Metal Die-Casting Foundries

| | | | | | | | | |
|-------------------------------------|----|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 24 | 2,105 | 0 | * | 16 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 2 | 0 | 0 | 1 | 0 | 0 | -- |
| Conventional Boiler Use | -- | 2 | 0 | 0 | * | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 1,580 | 0 | * | 13 | * | 0 | -- |
| Process Heating | -- | 571 | 0 | 0 | 13 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 77 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 910 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 4 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 17 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 478 | 0 | * | 3 | * | 0 | -- |
| Facility HVAC (g) | -- | 219 | 0 | * | 2 | * | 0 | -- |
| Facility Lighting | -- | 179 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 56 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 4 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 20 | 0 | * | * | 0 | 0 | -- |
| End Use Not Reported | * | 47 | 0 | 0 | 0 | * | 0 | * |

331524 Aluminum Foundries, except Die-Casting

| | | | | | | | | |
|-------------------------------------|----|------------|----------|----------|----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 11 | 793 | * | * | 8 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 3 | 0 | * | * | * | 0 | -- |
| Conventional Boiler Use | -- | 3 | 0 | * | * | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Process | -- | 598 | * | * | 7 | * | 0 | -- |
| Process Heating | -- | 247 | 0 | * | 7 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 26 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 317 | * | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 4 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 4 | 0 | * | * | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 179 | 0 | * | 1 | * | 0 | -- |
| Facility HVAC (g) | -- | 72 | 0 | * | 1 | * | 0 | -- |
| Facility Lighting | -- | 77 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 25 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 3 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 1 | 0 | 0 | 0 | * | 0 | -- |
| End Use Not Reported | * | 13 | 0 | 0 | * | * | 0 | * |

332 FABRICATED METAL PRODUCTS

| | | | | | | | | |
|-------------------------------------|-----|---------------|----------|----------|------------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 344 | 41,869 | 0 | * | 186 | 2 | 0 | 1 |
| Indirect Uses-Boiler Fuel | -- | Q | 0 | 0 | 19 | * | 0 | -- |
| Conventional Boiler Use | -- | Q | 0 | 0 | Q | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 15 | * | 0 | -- |
| Direct Uses-Total Process | -- | 28,560 | 0 | * | 115 | * | 0 | -- |
| Process Heating | -- | 6,410 | 0 | * | 108 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 1,374 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 17,747 | 0 | * | Q | * | 0 | -- |
| Electro-Chemical Processes | -- | 1,520 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 1,509 | 0 | * | Q | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 11,956 | 0 | * | 46 | 1 | 0 | -- |
| Facility HVAC (g) | -- | 6,305 | 0 | * | 44 | * | 0 | -- |
| Facility Lighting | -- | 3,848 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1,426 | 0 | * | 2 | * | 0 | -- |
| Onsite Transportation | -- | 291 | -- | * | * | 1 | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 86 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 10 | Q | 0 | 0 | Q | * | 0 | 1 |

333 MACHINERY

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 164 | 23,424 | * | 1 | 70 | 1 | * | 2 |
| Indirect Uses-Boiler Fuel | -- | 222 | 0 | * | 14 | * | * | -- |
| Conventional Boiler Use | -- | 222 | 0 | * | 4 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 10 | * | * | -- |
| Direct Uses-Total Process | -- | 13,771 | 0 | 1 | 24 | * | 0 | -- |
| Process Heating | -- | 2,277 | 0 | 0 | 18 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 921 | 0 | * | * | * | 0 | -- |
| Machine Drive | -- | 9,801 | 0 | * | 2 | * | 0 | -- |
| Electro-Chemical Processes | -- | 232 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 539 | 0 | 1 | Q | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 9,077 | * | * | 31 | * | 0 | -- |
| Facility HVAC (g) | -- | 4,699 | * | * | 30 | * | 0 | -- |
| Facility Lighting | -- | 3,185 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 852 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 233 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | Q | * | * | * | * | 0 | -- |
| End Use Not Reported | 4 | Q | 0 | * | Q | * | 0 | 2 |

334 COMPUTER AND ELECTRONIC PRODUCTS

| | | | | | | | | |
|-------------------------------------|-----|--------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 162 | 32,820 | * | * | 45 | * | 0 | Q |
| Indirect Uses-Boiler Fuel | -- | 292 | 0 | * | 15 | * | 0 | -- |
| Conventional Boiler Use | -- | 292 | 0 | * | 11 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 4 | * | 0 | -- |
| Direct Uses-Total Process | -- | 18,416 | 0 | * | 13 | * | 0 | -- |
| Process Heating | -- | 3,900 | 0 | * | 9 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 3,830 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 7,485 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 755 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 2,447 | 0 | * | 4 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 13,389 | * | * | 16 | * | 0 | -- |
| Facility HVAC (g) | -- | 7,995 | * | * | 15 | * | 0 | -- |
| Facility Lighting | -- | 3,041 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1,628 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 86 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 640 | 0 | * | 1 | * | 0 | -- |
| End Use Not Reported | 5 | 722 | 0 | 0 | * | * | 0 | Q |

334413 Semiconductors and Related Devices

| | | | | | | | | |
|-------------------------------------|----|--------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 90 | 19,106 | * | * | 24 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 198 | 0 | * | 9 | * | 0 | -- |
| Conventional Boiler Use | -- | 198 | 0 | * | 7 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 2 | * | 0 | -- |
| Direct Uses-Total Process | -- | 11,743 | 0 | * | 6 | * | 0 | -- |
| Process Heating | -- | 2,284 | 0 | 0 | 3 | 0 | 0 | -- |
| Process Cooling and Refrigeration | -- | 2,630 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 4,507 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 546 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 1,775 | 0 | * | 3 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 6,891 | * | * | 8 | * | 0 | -- |
| Facility HVAC (g) | -- | 4,424 | * | * | 7 | * | 0 | -- |
| Facility Lighting | -- | 1,119 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 791 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 6 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 551 | 0 | * | 1 | * | 0 | -- |
| End Use Not Reported | 2 | 275 | 0 | 0 | * | 0 | 0 | * |

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

| | | | | | | | | |
|-------------------------------------|----|--------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 71 | 11,764 | 0 | * | 26 | * | 0 | 2 |
| Indirect Uses-Boiler Fuel | -- | 55 | 0 | 0 | 3 | * | 0 | -- |
| Conventional Boiler Use | -- | 55 | 0 | 0 | 2 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | Q | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 8,174 | 0 | * | 16 | * | 0 | -- |
| Process Heating | -- | 2,730 | 0 | * | 16 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 761 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 3,328 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 922 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 433 | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 3,517 | 0 | * | 6 | * | 0 | -- |
| Facility HVAC (g) | -- | 1,966 | 0 | * | 6 | * | 0 | -- |

| | | | | | | | | |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Facility Lighting | -- | 1,164 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 269 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 82 | -- | * | 0 | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | * | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 2 | Q | 0 | * | 0 | * | 0 | 2 |

336 TRANSPORTATION EQUIPMENT

| | | | | | | | | |
|-------------------------------------|------------|---------------|----------|----------|------------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 318 | 45,185 | * | 1 | 141 | 1 | * | 9 |
| Indirect Uses-Boiler Fuel | -- | 373 | * | * | 23 | * | * | -- |
| Conventional Boiler Use | -- | 373 | * | * | 17 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 7 | 0 | * | -- |
| Direct Uses-Total Process | -- | 27,102 | 0 | * | 63 | * | 0 | -- |
| Process Heating | -- | 4,938 | 0 | * | 55 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 2,261 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 17,433 | 0 | * | Q | * | 0 | -- |
| Electro-Chemical Processes | -- | 288 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 2,182 | 0 | * | 5 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 17,000 | 0 | * | 53 | 1 | 0 | -- |
| Facility HVAC (g) | -- | 8,431 | 0 | * | 47 | * | 0 | -- |
| Facility Lighting | -- | 5,619 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1,772 | 0 | * | 2 | * | 0 | -- |
| Onsite Transportation | -- | 637 | -- | * | * | 1 | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | Q | * | 0 | -- |
| Other Nonprocess Use | -- | 542 | 0 | * | Q | * | 0 | -- |
| End Use Not Reported | 14 | 710 | 0 | * | 2 | * | 0 | 9 |

336111 Automobiles

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 33 | 3,623 | 0 | * | 18 | * | * | 1 |
| Indirect Uses-Boiler Fuel | -- | 61 | 0 | * | 2 | * | * | -- |
| Conventional Boiler Use | -- | 61 | 0 | 0 | 2 | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 2,261 | 0 | * | 11 | * | 0 | -- |
| Process Heating | -- | 222 | 0 | 0 | 10 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 295 | 0 | 0 | 0 | 0 | 0 | -- |
| Machine Drive | -- | 1,567 | 0 | * | 0 | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 100 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 77 | 0 | * | 1 | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,297 | 0 | * | 5 | * | 0 | -- |
| Facility HVAC (g) | -- | 651 | 0 | * | 4 | * | 0 | -- |
| Facility Lighting | -- | 480 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 124 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 41 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | 1 | 0 | * | 0 | 0 | 0 | -- |
| End Use Not Reported | 1 | 4 | 0 | 0 | * | 0 | 0 | 1 |

336112 Light Trucks and Utility Vehicles

| | | | | | | | | |
|-------------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 39 | 3,574 | 0 | * | 24 | * | * | 2 |
| Indirect Uses-Boiler Fuel | -- | 18 | 0 | 0 | 5 | 0 | * | -- |
| Conventional Boiler Use | -- | 18 | 0 | 0 | 4 | 0 | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | 1 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 2,351 | 0 | * | 14 | * | 0 | -- |
| Process Heating | -- | 67 | 0 | 0 | 13 | 0 | 0 | -- |
| Process Cooling and Refrigeration | -- | 408 | 0 | 0 | * | 0 | 0 | -- |
| Machine Drive | -- | 1,577 | 0 | * | * | 0 | 0 | -- |
| Electro-Chemical Processes | -- | 27 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 273 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 1,204 | 0 | * | 6 | * | 0 | -- |
| Facility HVAC (g) | -- | 642 | 0 | 0 | 5 | * | 0 | -- |
| Facility Lighting | -- | 436 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 91 | 0 | * | * | 0 | 0 | -- |
| Onsite Transportation | -- | 33 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | 0 | 0 | 0 | -- |
| Other Nonprocess Use | -- | 2 | 0 | * | 0 | * | 0 | -- |
| End Use Not Reported | 2 | 0 | 0 | * | 0 | 0 | 0 | 2 |

3364 Aerospace Products

| | | | | | | | | |
|----------------------------------|-----------|--------------|----------|----------|-----------|----------|----------|----------|
| TOTAL FUEL CONSUMPTION | 68 | 9,417 | * | * | 28 | * | 0 | 5 |
| Indirect Uses-Boiler Fuel | -- | 84 | * | * | 11 | * | 0 | -- |
| Conventional Boiler Use | -- | 84 | * | * | 7 | * | 0 | -- |

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| CHP and/or Cogeneration Process | -- | -- | 0 | * | 4 | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 4,374 | 0 | * | 5 | * | 0 | -- |
| Process Heating | -- | 1,306 | 0 | * | 4 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 559 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 2,121 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 43 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 345 | 0 | * | 1 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 4,768 | 0 | * | 12 | * | 0 | -- |
| Facility HVAC (g) | -- | 2,264 | 0 | * | 10 | * | 0 | -- |
| Facility Lighting | -- | 1,796 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 555 | 0 | * | 1 | * | 0 | -- |
| Onsite Transportation | -- | 88 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | Q | * | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 6 | 192 | 0 | * | * | * | 0 | 5 |

336411 Aircraft

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 23 | 3,197 | * | * | 10 | * | 0 | * |
| Indirect Uses-Boiler Fuel | -- | 42 | * | * | 3 | * | 0 | -- |
| Conventional Boiler Use | -- | 42 | * | * | 3 | * | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 1,026 | 0 | * | 1 | * | 0 | -- |
| Process Heating | -- | 175 | 0 | * | 1 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 107 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 618 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 5 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | Q | 0 | 0 | * | 0 | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,003 | 0 | * | 5 | * | 0 | -- |
| Facility HVAC (g) | -- | 857 | 0 | * | 5 | * | 0 | -- |
| Facility Lighting | -- | 778 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 282 | 0 | 0 | * | * | 0 | -- |
| Onsite Transportation | -- | 28 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | 0 | * | 0 | 0 | -- |
| Other Nonprocess Use | -- | Q | 0 | * | * | 0 | 0 | -- |
| End Use Not Reported | 1 | 126 | 0 | 0 | * | * | 0 | * |

337 FURNITURE AND RELATED PRODUCTS

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 37 | 5,072 | 0 | * | 14 | * | * | 4 |
| Indirect Uses-Boiler Fuel | -- | 59 | 0 | * | Q | * | * | -- |
| Conventional Boiler Use | -- | 59 | 0 | 0 | * | * | * | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | Q | * | 0 | -- |
| Direct Uses-Total Process | -- | 2,824 | 0 | * | 6 | * | * | -- |
| Process Heating | -- | 186 | 0 | * | 6 | * | * | -- |
| Process Cooling and Refrigeration | -- | 82 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 2,482 | 0 | 0 | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 18 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 57 | 0 | 0 | 0 | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 2,061 | 0 | * | 7 | * | * | -- |
| Facility HVAC (g) | -- | 1,003 | 0 | * | 7 | * | * | -- |
| Facility Lighting | -- | 828 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 159 | 0 | * | * | * | 0 | -- |
| Onsite Transportation | -- | 49 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | * | * | 0 | -- |
| Other Nonprocess Use | -- | 23 | 0 | * | * | * | 0 | -- |
| End Use Not Reported | 4 | Q | 0 | 0 | * | * | 0 | 4 |

339 MISCELLANEOUS

| | | | | | | | | |
|-------------------------------------|----|-------|----|----|----|----|----|----|
| TOTAL FUEL CONSUMPTION | 57 | 8,466 | * | * | 25 | * | 0 | Q |
| Indirect Uses-Boiler Fuel | -- | 118 | 0 | * | Q | 0 | 0 | -- |
| Conventional Boiler Use | -- | 118 | 0 | * | 1 | 0 | 0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | * | Q | 0 | 0 | -- |
| Direct Uses-Total Process | -- | 4,501 | 0 | * | 5 | * | 0 | -- |
| Process Heating | -- | 1,000 | 0 | * | 4 | * | 0 | -- |
| Process Cooling and Refrigeration | -- | 617 | 0 | 0 | * | * | 0 | -- |
| Machine Drive | -- | 2,661 | 0 | * | * | * | 0 | -- |
| Electro-Chemical Processes | -- | 62 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 160 | 0 | * | Q | * | 0 | -- |
| Direct Uses-Total Nonprocess | -- | 3,770 | * | * | 9 | * | 0 | -- |
| Facility HVAC (g) | -- | 2,085 | * | * | 6 | * | 0 | -- |
| Facility Lighting | -- | 1,194 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 429 | * | 0 | 1 | * | 0 | -- |
| Onsite Transportation | -- | 50 | -- | * | * | * | -- | -- |
| Conventional Electricity Generation | -- | -- | 0 | * | Q | * | 0 | -- |

Other Nonprocess Use

--

12

0

*

*

*

0

--

End Use Not Reported

Q

Q

0

0

*

*

0

Q

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).

(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.

(g) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

* 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.

-- Estimation is not applicable.

S=Negative value.

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. Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'

Released: October 2017
 Next MECS will be fielded in 2019

RSE Table 5.1 Relative Standard Errors for Table 5.1;

Unit: Percents.

| NAICS Code(a) | End Use | Net Total Electricity(b) (trillion Btu) million kWh | Residual Fuel Oil (million bbl) | Distillate Fuel Oil and Diesel Fuel(c) (million bbl) | Natural Gas(d) (billion cu ft) | HGL (excluding natural gasoline)(e) (million bbl) | Coal (excluding Coke and Breeze) (million short tons) | Other(f) (trillion Btu) |
|----------------------------|-------------------------------------|--|------------------------------------|---|-----------------------------------|--|--|----------------------------|
| Total United States | | | | | | | | |
| 311 - 339 | ALL MANUFACTURING INDUSTRIES | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 0.6 | 1.2 | 2.2 | 5.4 | 0.8 | 2.8 | 1.1 |
| | Indirect Uses-Boiler Fuel | -- | 4.2 | 2.9 | 7.3 | 1.0 | 3.6 | 1.3 |
| | Conventional Boiler Use | -- | 4.2 | 0.4 | 6.3 | 2.1 | 4.6 | 1.6 |
| | CHP and/or Cogeneration Process | -- | -- | 6.1 | 10.0 | 1.1 | 5.8 | 1.5 |
| | Direct Uses-Total Process | -- | 1.1 | 2.7 | 10.6 | 1.0 | 2.9 | 1.8 |
| | Process Heating | -- | 2.2 | 1.6 | 7.5 | 1.1 | 2.1 | 2.0 |
| | Process Cooling and Refrigeration | -- | 2.0 | 73.1 | 10.3 | 5.7 | 27.2 | X |
| | Machine Drive | -- | 1.5 | 0.1 | 13.7 | 3.8 | 26.1 | 23.0 |
| | Electro-Chemical Processes | -- | 1.4 | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 4.6 | 42.3 | 25.7 | 3.3 | 16.9 | 0.1 |
| | Direct Uses-Total Nonprocess | -- | 2.2 | 2.3 | 6.7 | 2.5 | 6.0 | 12.2 |
| | Facility HVAC (g) | -- | 2.6 | 4.0 | 16.4 | 2.7 | 17.0 | 20.2 |
| | Facility Lighting | -- | 2.5 | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 4.0 | 40.2 | 44.8 | 3.0 | 14.8 | 0.1 |
| | Onsite Transportation | -- | 4.8 | -- | 4.5 | 9.0 | 5.3 | -- |
| | Conventional Electricity Generation | -- | -- | 0.1 | 38.1 | 17.4 | 14.5 | 0.1 |
| | Other Nonprocess Use | -- | 15.3 | 63.0 | 28.4 | 27.9 | 29.9 | 0.1 |
| | End Use Not Reported | 1.1 | 10.8 | 0.1 | 23.2 | 7.3 | 12.6 | 4.2 |
| 311 | FOOD | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 2.5 | 2.5 | 16.2 | 11.0 | 3.1 | 12.2 | 0.1 |
| | Indirect Uses-Boiler Fuel | -- | 9.2 | 17.6 | 16.0 | 2.5 | 14.5 | 0.1 |
| | Conventional Boiler Use | -- | 9.2 | 1.9 | 9.9 | 4.3 | 19.4 | 0.1 |
| | CHP and/or Cogeneration Process | -- | -- | 40.8 | 21.5 | 3.2 | 21.8 | 0.2 |
| | Direct Uses-Total Process | -- | 2.5 | 14.2 | 31.5 | 7.4 | 29.5 | 0.1 |
| | Process Heating | -- | 8.2 | 26.5 | 45.1 | 8.2 | 28.0 | 0.1 |
| | Process Cooling and Refrigeration | -- | 3.6 | 0.1 | 10.7 | 6.5 | 48.8 | X |
| | Machine Drive | -- | 3.0 | 0.1 | 46.9 | 13.9 | 59.6 | X |
| | Electro-Chemical Processes | -- | 14.3 | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 12.9 | X | 73.0 | 7.2 | 8.9 | X |
| | Direct Uses-Total Nonprocess | -- | 3.7 | 13.1 | 10.9 | 4.5 | 16.4 | 0.1 |
| | Facility HVAC (g) | -- | 4.7 | 4.1 | 6.3 | 6.0 | 42.1 | 0.1 |
| | Facility Lighting | -- | 4.2 | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 4.9 | 41.3 | 4.6 | 4.7 | 29.5 | 0.1 |
| | Onsite Transportation | -- | 7.9 | -- | 14.6 | 36.1 | 11.9 | -- |
| | Conventional Electricity Generation | -- | -- | X | 60.7 | 39.9 | 0.1 | X |
| | Other Nonprocess Use | -- | 13.0 | X | 10.5 | 25.2 | 10.4 | X |
| | End Use Not Reported | 4.6 | 21.1 | X | 24.9 | 13.5 | 62.6 | 0.1 |
| 3112 | Grain and Oilseed Milling | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 1.3 | 1.9 | 37.1 | 8.0 | 2.3 | 31.2 | 0.1 |
| | Indirect Uses-Boiler Fuel | -- | 2.8 | 56.6 | 6.0 | 3.2 | 52.7 | 0.2 |
| | Conventional Boiler Use | -- | 2.8 | X | 4.2 | 4.8 | 0.1 | 0.1 |
| | CHP and/or Cogeneration Process | -- | -- | 56.6 | 18.9 | 4.6 | 60.0 | 0.2 |
| | Direct Uses-Total Process | -- | 2.0 | 44.0 | 30.0 | 3.7 | 47.8 | 0.1 |
| | Process Heating | -- | 6.1 | 44.0 | 56.7 | 4.5 | 44.0 | 0.1 |
| | Process Cooling and Refrigeration | -- | 3.4 | X | 80.5 | 9.2 | X | X |
| | Machine Drive | -- | 2.1 | X | 15.5 | 13.3 | 89.3 | X |
| | Electro-Chemical Processes | -- | 5.8 | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 33.1 | X | 4.5 | 3.8 | 3.2 | X |
| | Direct Uses-Total Nonprocess | -- | 3.0 | 44.7 | 5.6 | 4.8 | 15.7 | 0.1 |
| | Facility HVAC (g) | -- | 4.1 | 44.7 | 22.7 | 5.4 | 41.2 | 0.1 |
| | Facility Lighting | -- | 3.0 | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 3.3 | X | 82.3 | 6.3 | 58.5 | 0.1 |
| | Onsite Transportation | -- | 13.7 | -- | 3.6 | 0.1 | 9.8 | -- |
| | Conventional Electricity Generation | -- | -- | X | 9.3 | 0.1 | 0.1 | X |
| | Other Nonprocess Use | -- | 26.0 | X | 0.2 | 0.1 | 0.1 | X |
| | End Use Not Reported | 1.4 | 52.3 | X | 93.7 | 93.7 | 17.3 | 0.1 |
| 311221 | Wet Corn Milling | | | | | | | |

| | | | | | | | | | |
|-------------------------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | 0.0 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.0 | 0.0 | X | 0.0 | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Heating | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | 0.0 | 0.0 | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | X | -- |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | X | 0.0 | 0.0 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | 0.0 | 0.0 | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | 0.0 | 0.0 | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | 0.0 | 0.0 | X | -- |
| Other Nonprocess Use | -- | X | X | 0.0 | X | X | X | X | -- |
| End Use Not Reported | 0.0 | X | X | X | X | X | 0.0 | 0.0 | 0.0 |

31131 Sugar

| | | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | X | 0.1 | -- |
| Conventional Boiler Use | -- | 0.1 | 0.1 | X | 0.1 | 0.1 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | 0.1 | 0.1 | 0.1 | X | 0.1 | -- |
| Direct Uses-Total Process | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | X | 0.1 | -- |
| Process Heating | -- | 0.1 | X | X | 0.1 | 0.1 | X | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | X | X | X | X | -- |
| Machine Drive | -- | 0.1 | 0.1 | 0.1 | X | X | X | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | X | X | X | 0.1 | 0.1 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | X | -- |
| Facility HVAC (g) | -- | 0.1 | X | X | 0.1 | 0.1 | 0.1 | X | -- |
| Facility Lighting | -- | 0.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.1 | X | X | 0.1 | 0.1 | X | X | -- |
| Onsite Transportation | -- | 0.1 | -- | 0.1 | X | X | 0.1 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | X | X | 0.1 | X | -- |
| End Use Not Reported | 0.1 | X | X | X | X | X | 0.1 | X | 0.1 |

3114 Fruit and Vegetable Preserving and Specialty Foods

| | | | | | | | | |
|-------------------------------------|-----|------|------|------|------|------|-----|------|
| TOTAL FUEL CONSUMPTION | 2.1 | 6.0 | 5.5 | 9.0 | 2.0 | 31.3 | 0.1 | 13.1 |
| Indirect Uses-Boiler Fuel | -- | 10.6 | 0.1 | 6.2 | 2.5 | 20.4 | 0.1 | -- |
| Conventional Boiler Use | -- | 10.6 | 0.1 | 3.0 | 3.0 | 3.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | 57.3 | 3.6 | 63.2 | 0.1 | -- |
| Direct Uses-Total Process | -- | 7.0 | 4.2 | 44.1 | 4.5 | 74.1 | X | -- |
| Process Heating | -- | 12.7 | 4.2 | 26.2 | 4.7 | 70.7 | X | -- |
| Process Cooling and Refrigeration | -- | 10.8 | X | 38.2 | 13.6 | X | X | -- |
| Machine Drive | -- | 2.6 | X | 59.1 | 42.3 | 96.1 | X | -- |
| Electro-Chemical Processes | -- | 28.9 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 10.3 | X | 23.5 | 15.7 | 28.6 | X | -- |
| Direct Uses-Total Nonprocess | -- | 4.8 | 30.2 | 13.2 | 4.3 | 21.1 | X | -- |
| Facility HVAC (g) | -- | 4.6 | 11.1 | 42.4 | 3.3 | 57.2 | X | -- |
| Facility Lighting | -- | 5.5 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 8.4 | 47.9 | X | 15.5 | 65.6 | X | -- |
| Onsite Transportation | -- | 17.3 | -- | 14.3 | 54.4 | 9.3 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 10.4 | 45.9 | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 23.0 | X | 0.2 | X | -- |
| End Use Not Reported | 8.1 | 24.7 | X | 15.4 | 9.7 | 16.9 | X | 13.1 |

3115 Dairy Products

| | | | | | | | | |
|-------------------------------------|-----|------|------|------|------|------|-----|------|
| TOTAL FUEL CONSUMPTION | 2.0 | 2.2 | 0.4 | 26.6 | 2.3 | 20.3 | 0.1 | 23.4 |
| Indirect Uses-Boiler Fuel | -- | 8.6 | 0.5 | 22.7 | 2.8 | 32.7 | X | -- |
| Conventional Boiler Use | -- | 8.6 | 0.2 | 0.9 | 3.2 | 88.6 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 57.2 | 38.8 | 4.9 | 34.8 | X | -- |
| Direct Uses-Total Process | -- | 2.6 | 0.1 | 64.6 | 4.5 | 11.3 | 0.1 | -- |
| Process Heating | -- | 7.0 | 0.1 | 93.6 | 4.4 | 17.3 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 4.0 | 0.1 | 33.2 | 11.6 | X | X | -- |
| Machine Drive | -- | 3.0 | 0.1 | 95.7 | 34.3 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 10.7 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 6.6 | X | 55.2 | 23.2 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 3.3 | 0.1 | 21.2 | 6.2 | 17.3 | 0.1 | -- |
| Facility HVAC (g) | -- | 3.7 | 0.1 | 78.5 | 6.8 | 28.3 | 0.1 | -- |

| | | | | | | | | |
|-------------------------------------|-------------|-------------|----------|-------------|-------------|-------------|----------|-------------|
| Facility Lighting | -- | 3.3 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 7.0 | X | X | 9.5 | 95.6 | X | -- |
| Onsite Transportation | -- | 7.8 | -- | 19.7 | 0.1 | 14.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 65.6 | X | X | X | -- |
| Other Nonprocess Use | -- | 19.6 | X | 30.3 | 17.5 | 0.1 | X | -- |
| End Use Not Reported | 10.3 | 12.5 | X | 58.6 | 13.3 | 38.0 | X | 23.4 |

3116 Animal Slaughtering and Processing

| | | | | | | | | |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| TOTAL FUEL CONSUMPTION | 2.1 | 2.3 | 14.9 | 7.3 | 2.8 | 17.7 | 26.8 | 20.8 |
| Indirect Uses-Boiler Fuel | -- | 10.1 | 15.0 | 6.6 | 4.2 | 9.8 | 26.8 | -- |
| Conventional Boiler Use | -- | 10.1 | 15.3 | 25.2 | 7.5 | 2.8 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 19.1 | 6.8 | 5.7 | 36.8 | 26.8 | -- |
| Direct Uses-Total Process | -- | 2.0 | X | 34.5 | 4.3 | 25.4 | X | -- |
| Process Heating | -- | 8.2 | X | 49.1 | 4.7 | 24.4 | X | -- |
| Process Cooling and Refrigeration | -- | 2.8 | X | 1.1 | 15.7 | 54.1 | X | -- |
| Machine Drive | -- | 2.7 | X | 0.1 | 21.6 | 39.9 | X | -- |
| Electro-Chemical Processes | -- | 10.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 10.9 | X | 66.4 | 11.9 | 66.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 2.9 | 19.2 | 8.8 | 3.2 | 54.9 | X | -- |
| Facility HVAC (g) | -- | 3.6 | X | 21.3 | 3.9 | 66.6 | X | -- |
| Facility Lighting | -- | 3.5 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 6.1 | 19.2 | 75.2 | 4.2 | 42.4 | X | -- |
| Onsite Transportation | -- | 8.2 | -- | 20.7 | 8.8 | 7.9 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 39.4 | 76.7 | X | X | -- |
| Other Nonprocess Use | -- | 20.5 | X | 9.0 | 31.1 | 26.5 | X | -- |
| End Use Not Reported | 19.4 | 76.8 | X | 28.1 | 38.2 | 24.3 | X | 20.8 |

312 BEVERAGE AND TOBACCO PRODUCTS

| | | | | | | | | |
|-------------------------------------|------------|------------|------------|-------------|------------|-------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 3.7 | 7.6 | 0.1 | 18.5 | 4.4 | 10.3 | 0.1 | 4.2 |
| Indirect Uses-Boiler Fuel | -- | 4.9 | 0.1 | 33.5 | 3.0 | 36.2 | 0.1 | -- |
| Conventional Boiler Use | -- | 4.9 | 0.1 | 33.6 | 3.1 | 69.1 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 61.3 | 6.4 | 22.9 | 0.1 | -- |
| Direct Uses-Total Process | -- | 5.7 | X | 71.7 | 17.8 | 26.2 | 0.1 | -- |
| Process Heating | -- | 10.1 | X | 60.2 | 19.3 | 19.7 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 10.6 | X | X | 54.3 | X | X | -- |
| Machine Drive | -- | 3.8 | X | 87.6 | 19.1 | 61.1 | X | -- |
| Electro-Chemical Processes | -- | 10.2 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 5.8 | X | 83.9 | 3.7 | 23.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 15.0 | X | 18.4 | 7.5 | 9.0 | 0.1 | -- |
| Facility HVAC (g) | -- | 9.7 | X | 24.4 | 7.6 | 27.6 | 0.1 | -- |
| Facility Lighting | -- | 15.7 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 22.3 | X | 0.1 | 25.4 | 46.1 | X | -- |
| Onsite Transportation | -- | 36.5 | -- | 20.8 | 54.6 | 9.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 77.2 | 0.1 | X | X | -- |
| Other Nonprocess Use | -- | 12.0 | X | 52.8 | 1.8 | 16.9 | X | -- |
| End Use Not Reported | 4.6 | 9.6 | X | 0.1 | 7.6 | 8.4 | X | 4.2 |

3121 Beverages

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|-------------|------------|-------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 4.1 | 8.4 | X | 19.8 | 5.0 | 11.0 | 0.1 | 4.2 |
| Indirect Uses-Boiler Fuel | -- | 5.1 | X | 40.9 | 3.4 | 41.1 | 0.1 | -- |
| Conventional Boiler Use | -- | 5.1 | X | 50.2 | 3.6 | 69.2 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 62.0 | 6.7 | 30.0 | 0.1 | -- |
| Direct Uses-Total Process | -- | 6.2 | X | 74.3 | 20.6 | 29.3 | X | -- |
| Process Heating | -- | 11.2 | X | 75.8 | 22.3 | 19.8 | X | -- |
| Process Cooling and Refrigeration | -- | 10.8 | X | X | 81.0 | X | X | -- |
| Machine Drive | -- | 4.2 | X | 87.7 | 19.8 | 68.5 | X | -- |
| Electro-Chemical Processes | -- | 10.4 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 6.0 | X | 83.9 | 4.2 | 33.2 | X | -- |
| Direct Uses-Total Nonprocess | -- | 17.9 | X | 18.6 | 8.6 | 9.5 | X | -- |
| Facility HVAC (g) | -- | 12.6 | X | 24.5 | 8.2 | 28.5 | X | -- |
| Facility Lighting | -- | 18.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 25.9 | X | X | 26.8 | 46.1 | X | -- |
| Onsite Transportation | -- | 37.7 | -- | 20.9 | 57.8 | 10.1 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 81.6 | 0.1 | X | X | -- |
| Other Nonprocess Use | -- | 12.5 | X | 54.7 | 18.6 | 21.5 | X | -- |
| End Use Not Reported | 4.6 | 9.6 | X | 0.1 | 7.6 | 8.4 | X | 4.2 |

3122 Tobacco

| | | | | | | | | |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Conventional Boiler Use | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 0.1 | 0.1 | 0.1 | -- |

| | | | | | | | | | |
|-------------------------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|
| Direct Uses-Total Process | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Process Heating | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | 0.1 | X | X | X | -- |
| Machine Drive | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | X | 0.1 | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Facility HVAC (g) | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Facility Lighting | -- | 0.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.1 | X | 0.1 | 0.1 | X | X | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.1 | 0.1 | 0.1 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | X | X | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | X | -- |
| End Use Not Reported | 0.1 | X | X | X | X | X | X | X | 0.1 |

313 TEXTILE MILLS

| | | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|------|------|
| TOTAL FUEL CONSUMPTION | 16.2 | 13.7 | 48.0 | 55.7 | 17.1 | 10.9 | 43.2 | 40.1 |
| Indirect Uses-Boiler Fuel | -- | 35.7 | 67.6 | 85.2 | 17.6 | 3.7 | 43.2 | -- |
| Conventional Boiler Use | -- | 35.7 | X | 68.7 | 31.3 | 3.0 | 76.3 | -- |
| CHP and/or Cogeneration Process | -- | -- | 67.6 | 90.9 | 22.1 | 66.0 | 48.0 | -- |
| Direct Uses-Total Process | -- | 16.3 | 0.1 | 91.1 | 27.5 | 15.9 | X | -- |
| Process Heating | -- | 17.5 | 0.1 | 0.1 | 16.3 | 16.4 | X | -- |
| Process Cooling and Refrigeration | -- | 14.8 | X | X | 76.7 | 0.1 | X | -- |
| Machine Drive | -- | 19.5 | X | X | 76.9 | 59.4 | X | -- |
| Electro-Chemical Processes | -- | 48.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 17.3 | X | 96.2 | 30.2 | 28.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 12.1 | 0.5 | 27.9 | 13.4 | 26.7 | X | -- |
| Facility HVAC (g) | -- | 15.0 | 0.5 | 60.6 | 13.0 | 69.7 | X | -- |
| Facility Lighting | -- | 11.6 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 15.5 | X | 0.1 | 60.9 | 0.1 | X | -- |
| Onsite Transportation | -- | 24.4 | -- | 32.3 | X | 22.2 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 17.0 | X | X | X | -- |
| Other Nonprocess Use | -- | 52.7 | X | 60.3 | X | 64.8 | X | -- |
| End Use Not Reported | 37.6 | 61.1 | X | X | 0.3 | 8.1 | X | 40.1 |

314 TEXTILE PRODUCT MILLS

| | | | | | | | | |
|-------------------------------------|------|------|-----|------|------|------|------|------|
| TOTAL FUEL CONSUMPTION | 11.8 | 9.0 | 0.1 | 18.8 | 16.6 | 50.0 | 9.7 | 44.2 |
| Indirect Uses-Boiler Fuel | -- | 28.6 | 0.1 | 18.4 | 21.3 | 17.9 | 9.7 | -- |
| Conventional Boiler Use | -- | 28.6 | X | 28.9 | 31.5 | 42.5 | 31.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | 0.1 | 18.1 | 0.1 | 7.2 | -- |
| Direct Uses-Total Process | -- | 10.3 | X | 37.6 | 14.9 | 40.3 | X | -- |
| Process Heating | -- | 13.0 | X | 0.1 | 15.2 | 46.6 | X | -- |
| Process Cooling and Refrigeration | -- | 18.3 | X | X | X | X | X | -- |
| Machine Drive | -- | 11.4 | X | 79.6 | 81.0 | 99.4 | X | -- |
| Electro-Chemical Processes | -- | 3.6 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 36.0 | X | 0.1 | 40.0 | 62.3 | X | -- |
| Direct Uses-Total Nonprocess | -- | 13.6 | X | 28.6 | 42.7 | 28.8 | X | -- |
| Facility HVAC (g) | -- | 17.1 | X | 0.1 | 43.2 | 71.3 | X | -- |
| Facility Lighting | -- | 13.5 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 27.6 | X | 0.1 | 36.6 | 0.1 | X | -- |
| Onsite Transportation | -- | 15.2 | -- | 38.7 | X | 32.6 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 45.2 | X | X | X | -- |
| Other Nonprocess Use | -- | 82.7 | X | 0.1 | X | 84.7 | X | -- |
| End Use Not Reported | 43.9 | 97.8 | X | 94.3 | 0.1 | 89.9 | X | 44.2 |

315 APPAREL

| | | | | | | | | |
|-------------------------------------|------|------|----|------|------|------|----|-----|
| TOTAL FUEL CONSUMPTION | 9.1 | 9.3 | X | 68.9 | 12.8 | 56.8 | X | 0.2 |
| Indirect Uses-Boiler Fuel | -- | 27.9 | X | 50.6 | 16.6 | 76.0 | X | -- |
| Conventional Boiler Use | -- | 27.9 | X | 50.6 | 14.1 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 29.5 | 76.0 | X | -- |
| Direct Uses-Total Process | -- | 10.8 | X | 67.6 | 18.0 | 60.7 | X | -- |
| Process Heating | -- | 24.2 | X | X | 39.7 | 76.0 | X | -- |
| Process Cooling and Refrigeration | -- | 29.2 | X | X | X | X | X | -- |
| Machine Drive | -- | 11.7 | X | X | 13.9 | X | X | -- |
| Electro-Chemical Processes | -- | 76.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | X | X | 67.6 | 0.1 | 96.8 | X | -- |
| Direct Uses-Total Nonprocess | -- | 11.9 | X | 70.4 | 27.0 | 81.3 | X | -- |
| Facility HVAC (g) | -- | 14.0 | X | 70.9 | 27.0 | 96.5 | X | -- |
| Facility Lighting | -- | 15.1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 11.8 | X | X | 65.3 | X | X | -- |
| Onsite Transportation | -- | 31.0 | -- | 1.4 | X | 78.4 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | X | X | X | X | -- |
| End Use Not Reported | 26.6 | 68.7 | X | X | 13.7 | 0.1 | X | 0.2 |

316

LEATHER AND ALLIED PRODUCTS

| | | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|----|-----|
| TOTAL FUEL CONSUMPTION | 4.7 | 7.4 | 67.2 | 12.4 | 5.4 | 8.8 | X | 4.0 |
| Indirect Uses-Boiler Fuel | -- | 46.8 | 78.4 | 0.1 | 9.9 | X | X | -- |
| Conventional Boiler Use | -- | 46.8 | X | X | 32.3 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 78.4 | 0.1 | 9.8 | X | X | -- |
| Direct Uses-Total Process | -- | 7.9 | 89.5 | 47.8 | 7.4 | 2.1 | X | -- |
| Process Heating | -- | 23.7 | X | 47.8 | 8.1 | 0.1 | X | -- |
| Process Cooling and Refrigeration | -- | 21.4 | X | X | X | X | X | -- |
| Machine Drive | -- | 7.4 | X | X | 12.1 | X | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 42.8 | 89.5 | X | 0.1 | 57.9 | X | -- |
| Direct Uses-Total Nonprocess | -- | 7.3 | X | 15.2 | 12.5 | 15.1 | X | -- |
| Facility HVAC (g) | -- | 9.8 | X | 15.9 | 11.9 | 23.6 | X | -- |
| Facility Lighting | -- | 8.9 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 19.0 | X | X | 47.6 | 0.1 | X | -- |
| Onsite Transportation | -- | 15.4 | -- | 53.6 | X | 8.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | 25.9 | X | 0.1 | X | X | X | -- |
| End Use Not Reported | 11.1 | 51.0 | X | X | 10.8 | 55.2 | X | 4.0 |

321

WOOD PRODUCTS

| | | | | | | | | |
|-------------------------------------|------|------|-----|------|------|------|-----|------|
| TOTAL FUEL CONSUMPTION | 9.5 | 11.9 | 0.1 | 9.7 | 3.9 | 8.9 | 0.1 | 11.0 |
| Indirect Uses-Boiler Fuel | -- | 9.9 | X | 10.6 | 7.7 | 33.6 | 0.1 | -- |
| Conventional Boiler Use | -- | 9.9 | X | 9.2 | 4.8 | 1.1 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 35.7 | 11.1 | 49.7 | 0.1 | -- |
| Direct Uses-Total Process | -- | 11.7 | 0.1 | 30.8 | 4.8 | 14.6 | 0.1 | -- |
| Process Heating | -- | 3.9 | 0.1 | 19.7 | 5.4 | 13.2 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 9.2 | X | 69.0 | 0.1 | X | X | -- |
| Machine Drive | -- | 12.9 | 0.1 | 15.4 | 17.9 | 33.6 | X | -- |
| Electro-Chemical Processes | -- | 13.3 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 16.1 | 0.1 | 71.5 | 0.1 | 45.5 | X | -- |
| Direct Uses-Total Nonprocess | -- | 15.2 | X | 8.0 | 10.3 | 11.5 | X | -- |
| Facility HVAC (g) | -- | 29.6 | X | 17.5 | 10.7 | 37.1 | X | -- |
| Facility Lighting | -- | 4.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 7.9 | X | 15.2 | 19.8 | 68.4 | X | -- |
| Onsite Transportation | -- | 13.3 | -- | 8.3 | 21.9 | 10.2 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 11.5 | 85.5 | 0.2 | X | -- |
| Other Nonprocess Use | -- | 11.7 | X | 38.9 | 0.1 | 36.9 | X | -- |
| End Use Not Reported | 10.9 | 13.2 | X | 63.5 | 59.6 | 35.2 | X | 11.0 |

321113

Sawmills

| | | | | | | | | |
|-------------------------------------|-----|------|-----|------|------|------|-----|-----|
| TOTAL FUEL CONSUMPTION | 1.3 | 3.6 | 0.1 | 12.1 | 3.0 | 11.0 | 0.1 | 1.3 |
| Indirect Uses-Boiler Fuel | -- | 17.3 | X | 1.0 | 6.1 | 21.7 | X | -- |
| Conventional Boiler Use | -- | 17.3 | X | 0.1 | 2.7 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 1.5 | 17.2 | 21.7 | X | -- |
| Direct Uses-Total Process | -- | 3.9 | 0.1 | 8.9 | 3.5 | 20.9 | 0.1 | -- |
| Process Heating | -- | 4.0 | 0.1 | 10.1 | 3.6 | 25.9 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 2.7 | X | X | X | X | X | -- |
| Machine Drive | -- | 4.2 | 0.1 | 11.2 | 8.3 | 17.0 | X | -- |
| Electro-Chemical Processes | -- | 6.2 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 1.5 | X | 31.3 | X | 4.5 | X | -- |
| Direct Uses-Total Nonprocess | -- | 6.2 | X | 5.1 | 4.7 | 3.8 | X | -- |
| Facility HVAC (g) | -- | 6.5 | X | 21.6 | 5.3 | 11.3 | X | -- |
| Facility Lighting | -- | 4.5 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 15.3 | X | 2.4 | 17.2 | 16.4 | X | -- |
| Onsite Transportation | -- | 14.4 | -- | 5.2 | 0.1 | 3.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 13.2 | 86.9 | 0.1 | X | -- |
| Other Nonprocess Use | -- | 1.0 | X | 7.9 | 0.1 | 2.6 | X | -- |
| End Use Not Reported | 1.4 | 13.0 | X | 79.4 | X | 38.2 | X | 1.3 |

3212

Veneer, Plywood, and Engineered Woods

| | | | | | | | | |
|-----------------------------------|-----|-----|----|------|-----|------|-----|-----|
| TOTAL FUEL CONSUMPTION | 2.2 | 4.8 | X | 8.5 | 4.1 | 5.1 | 0.1 | 1.7 |
| Indirect Uses-Boiler Fuel | -- | 0.4 | X | 7.1 | 1.8 | 0.8 | 0.1 | -- |
| Conventional Boiler Use | -- | 0.4 | X | 0.1 | 2.2 | 0.1 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 63.8 | 2.6 | 0.8 | 0.1 | -- |
| Direct Uses-Total Process | -- | 5.1 | X | 6.2 | 5.0 | 15.3 | X | -- |
| Process Heating | -- | 1.1 | X | 22 | 5.8 | 19.4 | X | -- |
| Process Cooling and Refrigeration | -- | 0.6 | X | X | X | X | X | -- |
| Machine Drive | -- | 5.7 | X | 0.1 | 1.2 | 36.4 | X | -- |
| Electro-Chemical Processes | -- | 1.5 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 3.9 | X | 0.1 | 0.1 | 7 | X | -- |

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Conventional Boiler Use | -- | 0.0 | X | 0.0 | X | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Direct Uses-Total Process | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | X | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | X | X | X | X | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | X | X | X | X | -- |
| End Use Not Reported | 0.0 | X | X | X | X | 0.0 | X | 0.0 |

322121 Paper Mills, except Newsprint

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Conventional Boiler Use | -- | 0.1 | 0.1 | 0.1 | 0.1 | X | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Direct Uses-Total Process | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Process Heating | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | 0.1 | X | X | -- |
| Machine Drive | -- | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | 0.1 | X | 0.1 | -- |
| Direct Uses-Total Nonprocess | -- | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | -- |
| Facility HVAC (g) | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Facility Lighting | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Onsite Transportation | -- | 0.1 | -- | 0.1 | 0.1 | 0.1 | -- | -- |
| Conventional Electricity Generation | -- | -- | 0.1 | 0.1 | 0.1 | X | 0.1 | -- |
| Other Nonprocess Use | -- | X | 0.1 | 0.1 | 0.1 | 0.1 | X | -- |
| End Use Not Reported | 0.1 | X | X | 0.1 | X | 0.1 | 0.1 | 0.1 |

322122 Newsprint Mills

| | | | | | | | | |
|-------------------------------------|-----|-----|----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | 0.0 | 0.0 | X | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | X | X | 0.0 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.0 | 0.0 | X | 0.0 | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | X | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Electro-Chemical Processes | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | 0.0 | X | X | X | -- |
| End Use Not Reported | 0.0 | 0.0 | X | X | X | X | X | 0.0 |

322130 Paperboard Mills

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | 0.0 | 0.0 | 0.0 | X | 0.0 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Direct Uses-Total Process | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Heating | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | X | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Electro-Chemical Processes | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Facility HVAC (g) | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | 0.0 | 0.0 | 0.0 | X | 0.0 | -- |

| | | | | | | | | | |
|---------------|---|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|
| | Other Nonprocess Use | -- | 0.0 | X | 0.0 | X | 0.0 | X | -- |
| | End Use Not Reported | 0.0 | 0.0 | 0.0 | 0.0 | X | 0.0 | X | 0.0 |
| 323 | PRINTING AND RELATED SUPPORT | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 18.1 | 17.6 | 51.8 | 25.1 | 20.0 | 33.8 | X | 79.1 |
| | Indirect Uses-Boiler Fuel | -- | 33.9 | 51.8 | 69.0 | 16.4 | 45.3 | X | -- |
| | Conventional Boiler Use | -- | 33.9 | 51.8 | 50.6 | 16.5 | 60.9 | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | X | 72.0 | 32.8 | 65.0 | X | -- |
| | Direct Uses-Total Process | -- | 19.5 | X | 72.2 | 25.4 | 71.3 | X | -- |
| | Process Heating | -- | 15.0 | X | X | 27.2 | 77.9 | X | -- |
| | Process Cooling and Refrigeration | -- | 24.9 | X | X | 98.2 | X | X | -- |
| | Machine Drive | -- | 20.9 | X | 23.2 | 39.9 | 22.8 | X | -- |
| | Electro-Chemical Processes | -- | 46.6 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 26.6 | X | 84.7 | 69.4 | 66.1 | X | -- |
| | Direct Uses-Total Nonprocess | -- | 15.9 | X | 27.9 | 26.5 | 26.9 | X | -- |
| | Facility HVAC (g) | -- | 21.0 | X | 72.0 | 28.3 | 43.5 | X | -- |
| | Facility Lighting | -- | 13.9 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 14.1 | X | 81.4 | 19.8 | 71.3 | X | -- |
| | Onsite Transportation | -- | 25.5 | -- | 7.1 | 67.7 | 29.6 | -- | -- |
| | Conventional Electricity Generation | -- | -- | X | 65.2 | 92.5 | X | X | -- |
| | Other Nonprocess Use | -- | 90.8 | X | 91.3 | 86.6 | X | X | -- |
| | End Use Not Reported | 40.8 | 59.9 | X | X | 49.5 | 77.6 | X | 79.1 |
| 324 | PETROLEUM AND COAL PRODUCTS | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 0.1 | 0.1 | 5.2 | 1.7 | 0.3 | 0.2 | 0.1 | 0.1 |
| | Indirect Uses-Boiler Fuel | -- | 0.3 | 0.1 | 2.0 | 0.1 | 0.6 | 0.1 | -- |
| | Conventional Boiler Use | -- | 0.3 | 0.1 | 4.9 | 0.1 | 0.1 | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | 0.1 | 1.3 | 0.2 | 1.6 | 0.1 | -- |
| | Direct Uses-Total Process | -- | 0.1 | 6.7 | 3.7 | 0.4 | 0.2 | 0.1 | -- |
| | Process Heating | -- | 3.6 | 4.1 | 6.8 | 0.5 | 0.1 | X | -- |
| | Process Cooling and Refrigeration | -- | 0.4 | 79 | 57.8 | 0.1 | 0.1 | X | -- |
| | Machine Drive | -- | 0.1 | 0.1 | 4.4 | 2.7 | 30.2 | X | -- |
| | Electro-Chemical Processes | -- | 0.5 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 4 | 61.5 | 14.6 | 0.3 | 3.7 | 0.1 | -- |
| | Direct Uses-Total Nonprocess | -- | 0.5 | 0.1 | 1.1 | 2 | 6.6 | 0.1 | -- |
| | Facility HVAC (g) | -- | 0.4 | 0.1 | 27.3 | 3.6 | 3 | X | -- |
| | Facility Lighting | -- | 0.6 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 0.6 | X | 2.6 | 4.1 | 0.2 | X | -- |
| | Onsite Transportation | -- | 21.9 | -- | 1.1 | 40.2 | 9.3 | -- | -- |
| | Conventional Electricity Generation | -- | -- | X | 0.5 | 0.1 | 6.7 | X | -- |
| | Other Nonprocess Use | -- | 2.1 | X | 1.1 | 1.8 | 0.1 | 0.1 | -- |
| | End Use Not Reported | 0.1 | 1.4 | 0.1 | 17.6 | 0.2 | 1.1 | X | 0.1 |
| 324110 | Petroleum Refineries | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | Indirect Uses-Boiler Fuel | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| | Conventional Boiler Use | -- | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| | Direct Uses-Total Process | -- | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | X | -- |
| | Process Heating | -- | 1.1 | 0.1 | 0.1 | 0.2 | 0.1 | X | -- |
| | Process Cooling and Refrigeration | -- | 0.4 | X | X | 0.1 | 0.1 | X | -- |
| | Machine Drive | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| | Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| | Direct Uses-Total Nonprocess | -- | 0.2 | X | 0.1 | 1.1 | 0.5 | X | -- |
| | Facility HVAC (g) | -- | 0.1 | X | 0.1 | 2.5 | 0.1 | X | -- |
| | Facility Lighting | -- | 0.2 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 0.3 | X | 0.1 | 6 | 0.1 | X | -- |
| | Onsite Transportation | -- | X | -- | 0.1 | X | 0.1 | -- | -- |
| | Conventional Electricity Generation | -- | -- | X | 0.1 | 0.1 | 6.7 | X | -- |
| | Other Nonprocess Use | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- |
| | End Use Not Reported | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | X | 0.1 |
| 324121 | Asphalt Paving Mixture and Block | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 5.5 | 3.6 | 13.5 | 3.8 | 5.6 | 6 | X | 26 |
| | Indirect Uses-Boiler Fuel | -- | 4 | X | 2.5 | 7.3 | 47.5 | X | -- |
| | Conventional Boiler Use | -- | 4 | X | 0.3 | 12.3 | 21.1 | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | X | 2.9 | 7.8 | 49.4 | X | -- |
| | Direct Uses-Total Process | -- | 3.7 | 13.5 | 5.3 | 6.4 | 4.8 | X | -- |
| | Process Heating | -- | 9.1 | 10.1 | 7.8 | 7.5 | 5.5 | X | -- |
| | Process Cooling and Refrigeration | -- | 6.6 | 79 | 57.8 | 0.1 | X | X | -- |
| | Machine Drive | -- | 3.6 | 0.1 | 8.2 | 9.8 | 11.5 | X | -- |

| | | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|----|----|
| Electro-Chemical Processes | -- | 4.5 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 1 | 61.5 | 14.1 | 5.6 | 13 | X | -- |
| Direct Uses-Total Nonprocess | -- | 5.4 | 0.1 | 3.9 | 8.9 | 26.9 | X | -- |
| Facility HVAC (g) | -- | 6.7 | 0.1 | 11.4 | 9.5 | 32.4 | X | -- |
| Facility Lighting | -- | 6.1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 4.7 | X | 3.9 | 11.9 | 11 | X | -- |
| Onsite Transportation | -- | 19.8 | -- | 4.4 | 59.7 | 49.8 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 1.2 | 0.1 | X | X | -- |
| Other Nonprocess Use | -- | 16.4 | X | 21.5 | 28.5 | 0.1 | X | -- |
| End Use Not Reported | 22.7 | 36.4 | X | 54.8 | 42.2 | 42.4 | X | 26 |

324122 Asphalt Shingle and Coating Materials

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|------|------|------|-----|-----|
| TOTAL FUEL CONSUMPTION | 1.2 | 0.9 | 0.1 | 19.7 | 1.3 | 19.7 | 0.1 | 0.9 |
| Indirect Uses-Boiler Fuel | -- | 1.5 | 0.1 | 0.2 | 3 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 1.5 | X | 6.9 | 2.3 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | 0.1 | 4 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 0.7 | X | 45.9 | 1.1 | 65.5 | 0.1 | -- |
| Process Heating | -- | 7.3 | X | 26.8 | 1.1 | 6.5 | X | -- |
| Process Cooling and Refrigeration | -- | 2.3 | X | X | 0.1 | X | X | -- |
| Machine Drive | -- | 0.5 | X | 68.7 | 0.1 | 79.6 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 53.3 | 1.3 | 54.6 | 0.1 | -- |
| Direct Uses-Total Nonprocess | -- | 2.4 | X | 0.1 | 1.3 | 4 | X | -- |
| Facility HVAC (g) | -- | 0.7 | X | 0.1 | 1.3 | 0.1 | X | -- |
| Facility Lighting | -- | 4.4 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 2.9 | X | 0.1 | 2.3 | 0.1 | X | -- |
| Onsite Transportation | -- | 0.4 | -- | 0.1 | 0.1 | 4.2 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | 0.1 | X | X | -- |
| Other Nonprocess Use | -- | X | X | 5.4 | 76.6 | 0.1 | X | -- |
| End Use Not Reported | 1.3 | X | X | 0.1 | X | 31.1 | X | 0.9 |

324199 Other Petroleum and Coal Products

| | | | | | | | | |
|-------------------------------------|-----|-----|----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Conventional Boiler Use | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.0 | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Heating | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | X | 0.0 | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | X | 0.0 | 0.0 | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Facility HVAC (g) | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | X | X | -- |
| Other Nonprocess Use | -- | 0.0 | X | 0.0 | 0.0 | X | 0.0 | -- |
| End Use Not Reported | 0.0 | X | X | X | X | 0.0 | X | 0.0 |

325 CHEMICALS

| | | | | | | | | |
|-------------------------------------|-----|------|------|------|------|------|------|-----|
| TOTAL FUEL CONSUMPTION | 1.7 | 1.9 | 4.8 | 4.2 | 1 | 6.5 | 3.3 | 6.2 |
| Indirect Uses-Boiler Fuel | -- | 7 | 4.8 | 7.7 | 1.5 | 8.9 | 2.4 | -- |
| Conventional Boiler Use | -- | 7 | 0.2 | 15.3 | 3.9 | 7 | 2.4 | -- |
| CHP and/or Cogeneration Process | -- | -- | 24.4 | 8.8 | 1.5 | 12.7 | 2.8 | -- |
| Direct Uses-Total Process | -- | 1.8 | 24.1 | 4.4 | 1.1 | 9.5 | 30.8 | -- |
| Process Heating | -- | 3.6 | 24.1 | 39.4 | 1.3 | 17 | 30.9 | -- |
| Process Cooling and Refrigeration | -- | 2.9 | X | 30.8 | 9.6 | 67.6 | X | -- |
| Machine Drive | -- | 2.4 | X | 3.6 | 2.1 | 39.9 | 70.3 | -- |
| Electro-Chemical Processes | -- | 1.3 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 7.3 | X | 6.1 | 4.2 | 11.2 | X | -- |
| Direct Uses-Total Nonprocess | -- | 4.4 | 0.1 | 7.3 | 4.0 | 14.3 | 25.8 | -- |
| Facility HVAC (g) | -- | 4.7 | 0.1 | 68.0 | 4.1 | 36.3 | 25.8 | -- |
| Facility Lighting | -- | 5.8 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 4.4 | X | 2.3 | 6.7 | 19.6 | X | -- |
| Onsite Transportation | -- | 11.6 | -- | 4.2 | 36.0 | 15.8 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 19.3 | 36.7 | 17.2 | X | -- |
| Other Nonprocess Use | -- | 17.4 | X | 6.2 | 34.3 | 42.6 | X | -- |
| End Use Not Reported | 5.7 | 18.4 | X | 8.2 | 14.0 | 3.0 | 6.1 | 6.2 |

325110 Petrochemicals

| | | | | | | | | |
|-------------------------------------|-----|-----|----|-----|-----|------|----|-----|
| TOTAL FUEL CONSUMPTION | 0.1 | 0.1 | X | 0.1 | 0.1 | 0.3 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Process Heating | -- | 0.1 | X | X | 0.1 | 0.1 | X | -- |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | 0.1 | X | X | -- |
| Machine Drive | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | X | X | 0.1 | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.2 | X | 0.1 | 0.1 | 76.5 | X | -- |
| Facility HVAC (g) | -- | 0.3 | X | 0.1 | 0.1 | 85.3 | X | -- |
| Facility Lighting | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.2 | X | 0.1 | 0.1 | X | X | -- |
| Onsite Transportation | -- | 0.1 | -- | 0.1 | X | 72.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | X | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- |
| End Use Not Reported | 0.1 | X | X | 0.1 | X | 0.1 | X | 0.1 |

325120 Industrial Gases

| | | | | | | | | |
|-------------------------------------|-----|------|----|------|------|------|----|-----|
| TOTAL FUEL CONSUMPTION | 4.5 | 6.9 | X | 37.8 | 1.4 | 50.2 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.3 | X | 7.2 | 6.8 | 73.7 | X | -- |
| Conventional Boiler Use | -- | 0.3 | X | 0.1 | 0.5 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 30.0 | 15.0 | 73.7 | X | -- |
| Direct Uses-Total Process | -- | 6.8 | X | 5.9 | 1.9 | X | X | -- |
| Process Heating | -- | 13.0 | X | 19.5 | 3.8 | X | X | -- |
| Process Cooling and Refrigeration | -- | 8.6 | X | 57.0 | 19.1 | X | X | -- |
| Machine Drive | -- | 7.1 | X | 0.2 | 0.8 | X | X | -- |
| Electro-Chemical Processes | -- | 24.5 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | X | X | X | 0.8 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 8.9 | X | 55.5 | 0.2 | 56.3 | X | -- |
| Facility HVAC (g) | -- | 2.9 | X | 88.5 | 0.2 | 34.2 | X | -- |
| Facility Lighting | -- | 8.4 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 25.7 | X | 19.1 | 36.3 | 37.3 | X | -- |
| Onsite Transportation | -- | 76.4 | -- | 66.2 | 51.1 | 64.4 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | 85.4 | X | 13.9 | X | X | X | -- |
| End Use Not Reported | 0.1 | 0.1 | X | X | X | 85.9 | X | 0.1 |

325180 Other Basic Inorganic Chemicals

| | | | | | | | | |
|-------------------------------------|-----|------|----|------|------|------|-----|-----|
| TOTAL FUEL CONSUMPTION | 1.6 | 1.9 | X | 3.0 | 3.2 | 14.5 | 0.1 | 0.5 |
| Indirect Uses-Boiler Fuel | -- | 18.4 | X | 13.5 | 3.8 | 21.7 | 0.1 | -- |
| Conventional Boiler Use | -- | 18.4 | X | 17.7 | 5.4 | 83.1 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 20.9 | 5.1 | 22.0 | 0.1 | -- |
| Direct Uses-Total Process | -- | 1.6 | X | 19.2 | 3.9 | 19.3 | 0.1 | -- |
| Process Heating | -- | 7.3 | X | 39.5 | 7.5 | 19.4 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 2.9 | X | 0.1 | 14.5 | X | X | -- |
| Machine Drive | -- | 4.2 | X | 5.1 | 3.2 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 1.4 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 9.5 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 7.4 | X | 2.1 | 11.0 | 15.3 | X | -- |
| Facility HVAC (g) | -- | 9.1 | X | 0.8 | 11.0 | 47.1 | X | -- |
| Facility Lighting | -- | 7.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 6.3 | X | 0.1 | 32.4 | 42.8 | X | -- |
| Onsite Transportation | -- | 32.9 | -- | 2.3 | X | 12.8 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 17.5 | X | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 53.0 | X | 0.1 | X | -- |
| End Use Not Reported | 0.9 | 51.0 | X | X | 52.7 | 35.4 | X | 0.5 |

325193 Ethyl Alcohol

| | | | | | | | | |
|-------------------------------------|-----|------|----|------|------|------|-----|-----|
| TOTAL FUEL CONSUMPTION | 3.0 | 3.6 | X | 25.8 | 3.8 | 8.6 | 2.6 | 6.8 |
| Indirect Uses-Boiler Fuel | -- | 10.5 | X | X | 5.7 | X | 5.9 | -- |
| Conventional Boiler Use | -- | 10.5 | X | X | 10.1 | X | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 5.9 | X | 7.1 | -- |
| Direct Uses-Total Process | -- | 3.7 | X | 43.0 | 2.7 | 0.1 | 9.3 | -- |
| Process Heating | -- | 5.0 | X | X | 3.0 | X | 9.3 | -- |
| Process Cooling and Refrigeration | -- | 6.0 | X | X | 0.1 | X | X | -- |
| Machine Drive | -- | 3.5 | X | 43.0 | 29.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 10.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 32.4 | X | X | 13.7 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 7.9 | X | 24.2 | 5.0 | 9.8 | X | -- |
| Facility HVAC (g) | -- | 12.4 | X | X | 5.9 | 71.6 | X | -- |
| Facility Lighting | -- | 5.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 4.8 | X | 0.1 | 6.8 | 0.1 | X | -- |

| | | | | | | | | |
|-------------------------------------|------------|-------------|----------|------------|-------------|------------|------------|------------|
| Onsite Transportation | -- | 25.0 | -- | 25.7 | 0.1 | 0.4 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 64.6 | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | 6.7 | 0.1 | X | X | -- |
| End Use Not Reported | 3.3 | 36.1 | X | 0.1 | 53.1 | 0.1 | 0.1 | 6.8 |

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|------------|------------|------------|----------|------------|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | X | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| Conventional Boiler Use | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.0 | X | X | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Electro-Chemical Processes | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | X | 0.0 | X | X | -- |
| End Use Not Reported | 0.0 | 0.0 | X | X | X | X | X | 0.0 |

325199 Other Basic Organic Chemicals

| | | | | | | | | |
|-------------------------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|
| TOTAL FUEL CONSUMPTION | 4.7 | 3.7 | 0.1 | 2.6 | 1.4 | 18.8 | 5.7 | 11.8 |
| Indirect Uses-Boiler Fuel | -- | 10.1 | 0.1 | 13.5 | 1.3 | 0.2 | 0.2 | -- |
| Conventional Boiler Use | -- | 10.1 | 0.1 | 16.8 | 2.5 | 0.1 | 15.3 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 1.7 | 74.2 | 0.1 | -- |
| Direct Uses-Total Process | -- | 2.5 | X | 1.3 | 2.6 | 23.1 | X | -- |
| Process Heating | -- | 11.2 | X | 0.2 | 3.4 | 24.5 | X | -- |
| Process Cooling and Refrigeration | -- | 4.4 | X | X | 34.9 | 74.2 | X | -- |
| Machine Drive | -- | 2.6 | X | 0.1 | 0.2 | 43.2 | X | -- |
| Electro-Chemical Processes | -- | 0.4 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 13.6 | X | 11.1 | 4.0 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 13.0 | X | 7.4 | 11.3 | 26.9 | X | -- |
| Facility HVAC (g) | -- | 9.6 | X | 63.8 | 3.7 | 83.8 | X | -- |
| Facility Lighting | -- | 18.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 5.8 | X | 1.3 | 3.7 | 46.2 | X | -- |
| Onsite Transportation | -- | 32.1 | -- | 14.3 | 44.1 | 22.6 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 9.5 | 15.0 | X | X | -- |
| Other Nonprocess Use | -- | 46.2 | X | 6.1 | 82.0 | 80.9 | X | -- |
| End Use Not Reported | 11.3 | 36.2 | X | 18.6 | 61.5 | 10.0 | 25.7 | 11.8 |

325211 Plastics Materials and Resins

| | | | | | | | | |
|-------------------------------------|------------|------------|-------------|------------|------------|------------|-------------|------------|
| TOTAL FUEL CONSUMPTION | 1.6 | 3.7 | 17.8 | 5.0 | 0.8 | 4.4 | 32.4 | 2.2 |
| Indirect Uses-Boiler Fuel | -- | 6.3 | 13.0 | 1.0 | 0.4 | 4.7 | 0.1 | -- |
| Conventional Boiler Use | -- | 6.3 | 49.0 | 3.0 | 3.4 | 0.1 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | 0.1 | 0.3 | 9.5 | X | -- |
| Direct Uses-Total Process | -- | 3.6 | 50.0 | 1.6 | 2.6 | 1.6 | 58.0 | -- |
| Process Heating | -- | 9.4 | 50.0 | X | 3.1 | 6.4 | 58.0 | -- |
| Process Cooling and Refrigeration | -- | 11.9 | X | 43.6 | 0.1 | 89.5 | X | -- |
| Machine Drive | -- | 4.1 | X | 1.6 | 0.3 | 65.1 | X | -- |
| Electro-Chemical Processes | -- | 5.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 11 | X | 40.1 | 6.9 | 0.4 | X | -- |
| Direct Uses-Total Nonprocess | -- | 6.5 | 0.1 | 9.5 | 5.3 | 25 | 42.3 | -- |
| Facility HVAC (g) | -- | 7.2 | 0.1 | 15.9 | 6.8 | 27.4 | 42.3 | -- |
| Facility Lighting | -- | 7.8 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 8.6 | X | 20.8 | 4.2 | 23.6 | X | -- |
| Onsite Transportation | -- | 23.5 | -- | 9.6 | 82.4 | 31.3 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 15 | 77.1 | X | X | -- |
| Other Nonprocess Use | -- | 2 | X | 14.3 | 72.5 | 1.3 | X | -- |
| End Use Not Reported | 2.2 | 0.6 | X | X | 0.1 | 1.1 | X | 2.2 |

325212 Synthetic Rubber

| | | | | | | | | |
|----------------------------------|------------|------------|----------|------------|------------|------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |

| | | | | | | | | |
|-------------------------------------|-----|-----|----|-----|-----|-----|----|-----|
| Process Cooling and Refrigeration | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | X | X | 0.0 | 0.0 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | X | X | -- |
| Other Nonprocess Use | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| End Use Not Reported | 0.0 | 0.0 | X | 0.0 | X | 0.0 | X | 0.0 |

325220 Artificial and Synthetic Fibers and Filaments

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.0 | 0.0 | X | 0.0 | -- |
| Direct Uses-Total Process | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Heating | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Electro-Chemical Processes | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | 0.0 | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | X | X | -- |
| Other Nonprocess Use | -- | 0.0 | X | 0.0 | X | 0.0 | X | -- |
| End Use Not Reported | 0.0 | X | X | X | 0.0 | 0.0 | X | 0.0 |

325311 Nitrogenous Fertilizers

| | | | | | | | | |
|-------------------------------------|-----|------|-----|-----|------|------|----|-----|
| TOTAL FUEL CONSUMPTION | 3.1 | 4.3 | 0.1 | 4.6 | 3.3 | 0.7 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 1.4 | 0.1 | X | 0.4 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 1.4 | X | X | 0.2 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | X | 0.5 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 5.2 | X | 0.1 | 4.6 | 0.0 | X | -- |
| Process Heating | -- | 0.2 | X | 0.1 | 5.1 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.2 | X | 0.1 | 0.1 | X | X | -- |
| Machine Drive | -- | 6.3 | X | 0.1 | 0.1 | X | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 4.3 | X | 5.9 | 29.5 | 14.2 | X | -- |
| Facility HVAC (g) | -- | 2.3 | X | X | 32.3 | 5.2 | X | -- |
| Facility Lighting | -- | 7.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 4.0 | X | X | 19.5 | X | X | -- |
| Onsite Transportation | -- | 0.1 | -- | 7.7 | X | 14.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | X | X | X | -- |
| Other Nonprocess Use | -- | 43.5 | X | 0.1 | X | X | X | -- |
| End Use Not Reported | 0.1 | 0.0 | X | X | 0.1 | 0.1 | X | 0.1 |

325312 Phosphatic Fertilizers

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | X | X | 0.0 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | X | X | 0.0 | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | 0.0 | X | 0.0 | X | X | X | -- |
| End Use Not Reported | 0.0 | 0.0 | X | X | 0.0 | X | X | 0.0 |

3254 Pharmaceuticals and Medicines

| | | | | | | | | |
|-------------------------------------|-----|------|----|------|------|------|-----|-----|
| TOTAL FUEL CONSUMPTION | 4.7 | 11.3 | X | 31.9 | 2.5 | 23.2 | 0.1 | 0.2 |
| Indirect Uses-Boiler Fuel | -- | 4.4 | X | 0.2 | 2.4 | 16.1 | 0.1 | -- |
| Conventional Boiler Use | -- | 4.4 | X | 0.1 | 4.8 | 0.4 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 1.9 | 1.2 | 20.6 | 0.1 | -- |
| Direct Uses-Total Process | -- | 11.7 | X | 35.4 | 3.3 | 23.1 | X | -- |
| Process Heating | -- | 6.3 | X | 78.1 | 3.7 | 5.3 | X | -- |
| Process Cooling and Refrigeration | -- | 11.2 | X | 0.1 | 56.5 | X | X | -- |
| Machine Drive | -- | 14.3 | X | 0.1 | 47.6 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 2.3 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 4 | X | 38.4 | 4.4 | 55.5 | X | -- |
| Direct Uses-Total Nonprocess | -- | 11.6 | X | 64.3 | 11.1 | 35 | 0.1 | -- |
| Facility HVAC (g) | -- | 10.6 | X | 82.8 | 12.3 | 25.7 | 0.1 | -- |
| Facility Lighting | -- | 18 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 3.1 | X | 19.7 | 3 | 8.8 | X | -- |
| Onsite Transportation | -- | 5 | -- | 8 | 11.2 | 13.9 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 2.9 | 41.3 | 1.3 | X | -- |
| Other Nonprocess Use | -- | 8.3 | X | 9.9 | 8.3 | 66.5 | X | -- |
| End Use Not Reported | 1.5 | 15.7 | X | 22 | 97.5 | X | X | 0.2 |

325412 Pharmaceutical Preparation

| | | | | | | | | |
|-------------------------------------|-----|------|----|------|------|------|-----|-----|
| TOTAL FUEL CONSUMPTION | 1.4 | 1.9 | X | 36.8 | 1.5 | 25.5 | 0.1 | 0.2 |
| Indirect Uses-Boiler Fuel | -- | 7.4 | X | 0.2 | 1.1 | 40.1 | 0.1 | -- |
| Conventional Boiler Use | -- | 7.4 | X | 0.1 | 1.6 | 0.4 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 1.3 | 1.5 | 83.8 | 0.1 | -- |
| Direct Uses-Total Process | -- | 1.7 | X | 37.4 | 4.1 | 26.8 | X | -- |
| Process Heating | -- | 2.5 | X | 78.1 | 4.1 | 5.3 | X | -- |
| Process Cooling and Refrigeration | -- | 2.1 | X | 0.1 | 0.9 | X | X | -- |
| Machine Drive | -- | 2.1 | X | 0.1 | 47.6 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 4.4 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.6 | X | 40.2 | 5.1 | 83.2 | X | -- |
| Direct Uses-Total Nonprocess | -- | 2.2 | X | 69.1 | 5.8 | 19.9 | 0.1 | -- |
| Facility HVAC (g) | -- | 2.3 | X | 82.8 | 6.5 | 28.9 | 0.1 | -- |
| Facility Lighting | -- | 2.4 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 4.3 | X | 23.3 | 2.6 | 11 | X | -- |
| Onsite Transportation | -- | 3.3 | -- | 9.5 | 24.9 | 24.2 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 4.2 | 59.4 | 49.3 | X | -- |
| Other Nonprocess Use | -- | 11.1 | X | 0.2 | 12.1 | 0.1 | X | -- |
| End Use Not Reported | 1.9 | 15.7 | X | X | 97.5 | X | X | 0.2 |

325992 Photographic Film, Paper, Plate, and Chemicals

| | | | | | | | | |
|-------------------------------------|-----|-----|----|-----|------|------|----|-----|
| TOTAL FUEL CONSUMPTION | 1.6 | 0.7 | 0 | 0.1 | 3.2 | 39.7 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.1 | 0 | 0.1 | 0.1 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 0.1 | X | X | 0.1 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0 | 0.1 | 0 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 0.9 | X | 0.1 | 13.7 | 0.1 | X | -- |
| Process Heating | -- | 0.1 | X | X | 14.4 | 0.1 | X | -- |
| Process Cooling and Refrigeration | -- | 0.8 | X | X | X | 0.1 | X | -- |
| Machine Drive | -- | 1.3 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | X | 0.1 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.4 | X | 0.1 | 0.6 | 0.1 | X | -- |
| Facility HVAC (g) | -- | 0.5 | X | 0.1 | 0.6 | 0.1 | X | -- |
| Facility Lighting | -- | 0.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.4 | X | 0.1 | 0.4 | 0.1 | X | -- |
| Onsite Transportation | -- | 1.6 | -- | 0.1 | X | 0.1 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0 | 0.1 | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- |
| End Use Not Reported | 0.3 | 0.1 | X | X | 0.1 | 60.4 | X | 0.1 |

326 PLASTICS AND RUBBER PRODUCTS

| | | | | | | | | |
|-------------------------------------|-----|------|----|------|------|------|------|------|
| TOTAL FUEL CONSUMPTION | 8.4 | 9.9 | X | 70.6 | 12.4 | 16.1 | 62.3 | 58.2 |
| Indirect Uses-Boiler Fuel | -- | 42.1 | X | 67.9 | 18.4 | 46.5 | 64.2 | -- |
| Conventional Boiler Use | -- | 42.1 | X | 67.9 | 27.3 | 46.6 | 97.5 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 25.8 | 0.1 | 66.4 | -- |
| Direct Uses-Total Process | -- | 9.2 | X | 77 | 21.4 | 39.2 | X | -- |
| Process Heating | -- | 16.7 | X | 79.4 | 23.2 | 71.5 | X | -- |
| Process Cooling and Refrigeration | -- | 11.9 | X | X | 60.6 | X | X | -- |
| Machine Drive | -- | 9.9 | X | 41.5 | 48.2 | 67.7 | X | -- |
| Electro-Chemical Processes | -- | 56.2 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 53.6 | X | X | 58.1 | 56.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 16.4 | X | 79.1 | 16.8 | 18.4 | 97.5 | -- |
| Facility HVAC (g) | -- | 16.8 | X | 54.8 | 17.5 | 41.3 | 97.5 | -- |

| | | | | | | | | | |
|-------------------------------------|-------------|-------------|----------|------------|-------------|-------------|----------|-------------|----|
| Facility Lighting | -- | 18.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 27.9 | X | 73.1 | 30.7 | 98.9 | X | -- | -- |
| Onsite Transportation | -- | 23.7 | -- | 37.2 | 73.7 | 14.7 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 50.6 | X | X | X | -- | -- |
| Other Nonprocess Use | -- | 96.7 | X | 97 | 97.2 | 99 | X | -- | -- |
| End Use Not Reported | 38.3 | 67.6 | X | 0.1 | 98.8 | 38.1 | X | 58.2 | |

327 NONMETALLIC MINERAL PRODUCTS

| | | | | | | | | | |
|-------------------------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|------------|-----------|
| TOTAL FUEL CONSUMPTION | 2.2 | 3.6 | 5.6 | 16.9 | 4.1 | 14.9 | 0.9 | 1.1 | |
| Indirect Uses-Boiler Fuel | -- | 9.7 | 79.8 | 78.4 | 20.2 | 48.8 | 0.1 | -- | -- |
| Conventional Boiler Use | -- | 9.7 | X | 85.6 | 17.2 | 66.5 | X | -- | -- |
| CHP and/or Cogeneration Process | -- | -- | 79.8 | 79.2 | 23.7 | 50.9 | 0.1 | -- | -- |
| Direct Uses-Total Process | -- | 1.9 | 1.5 | 28.3 | 2.4 | 28.8 | 0.9 | -- | -- |
| Process Heating | -- | 1.9 | 1.5 | 4.3 | 2.4 | 36.7 | 0.9 | -- | -- |
| Process Cooling and Refrigeration | -- | 4.3 | X | X | 4.1 | 0.1 | X | -- | -- |
| Machine Drive | -- | 2.4 | X | 34.9 | 14.2 | 47.8 | 30.3 | -- | -- |
| Electro-Chemical Processes | -- | 32.2 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 12.7 | X | 71.4 | 3.2 | 82.9 | X | -- | -- |
| Direct Uses-Total Nonprocess | -- | 6.1 | 99 | 16.3 | 9.1 | 10.7 | 61.7 | -- | -- |
| Facility HVAC (g) | -- | 8 | 99 | 26.5 | 9.7 | 27.6 | 61.7 | -- | -- |
| Facility Lighting | -- | 5.4 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 7.6 | X | 13.9 | 13.1 | 69 | X | -- | -- |
| Onsite Transportation | -- | 10.7 | -- | 15.6 | 3.6 | 10.5 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 18.1 | 0.2 | 0.1 | X | -- | -- |
| Other Nonprocess Use | -- | 14.8 | X | 48.6 | 0.1 | 65.4 | X | -- | -- |
| End Use Not Reported | 11.2 | 65.5 | X | 27.3 | 55.4 | 45 | 0.1 | 1.1 | |

327120 Clay Building Material and Refractories

| | | | | | | | | | |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|------------|------------|-----------|
| TOTAL FUEL CONSUMPTION | 2.9 | 1.8 | 59.3 | 8 | 3.3 | 4.7 | 3.2 | 1 | |
| Indirect Uses-Boiler Fuel | -- | 22.1 | X | X | 4.1 | X | X | -- | -- |
| Conventional Boiler Use | -- | 22.1 | X | X | 2.1 | X | X | -- | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 4.7 | X | X | -- | -- |
| Direct Uses-Total Process | -- | 1.8 | 59.3 | 3.4 | 3.6 | 0.7 | 3.5 | -- | -- |
| Process Heating | -- | 3.6 | 59.3 | 34.4 | 3.6 | 1.5 | 3.5 | -- | -- |
| Process Cooling and Refrigeration | -- | 13.4 | X | X | X | X | X | -- | -- |
| Machine Drive | -- | 1.9 | X | 7.9 | 0.1 | 2.2 | X | -- | -- |
| Electro-Chemical Processes | -- | 34.7 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.3 | X | 0.5 | 0.9 | 0.1 | X | -- | -- |
| Direct Uses-Total Nonprocess | -- | 5.4 | X | 9.7 | 3.3 | 4.2 | X | -- | -- |
| Facility HVAC (g) | -- | 8.6 | X | 22.1 | 3.9 | 9.5 | X | -- | -- |
| Facility Lighting | -- | 4.9 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 2.4 | X | X | 8.3 | 43.5 | X | -- | -- |
| Onsite Transportation | -- | 3.2 | -- | 5 | 11.6 | 4.4 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 51.3 | 0.1 | 0.1 | X | -- | -- |
| Other Nonprocess Use | -- | 86 | X | 40.8 | 0.1 | X | X | -- | -- |
| End Use Not Reported | 0.4 | 0.1 | X | 0.1 | 0.1 | 33.0 | 0.1 | 1.0 | |

327211 Flat Glass

| | | | | | | | | | |
|-------------------------------------|------------|------------|----------|------------|------------|------------|----------|------------|-----------|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | X | 0.0 | |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | X | 0.0 | X | X | -- | -- |
| Conventional Boiler Use | -- | 0.0 | X | X | 0.0 | X | X | -- | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | X | X | X | -- | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- | -- |
| Process Heating | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | 0.0 | X | X | -- | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- | -- |
| Electro-Chemical Processes | -- | 0.0 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- | -- |
| Facility HVAC (g) | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | X | X | -- | -- |
| Other Nonprocess Use | -- | X | X | 0.0 | X | X | X | -- | -- |
| End Use Not Reported | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | X | 0.0 | |

327212 Other Pressed and Blown Glass and Glassware

| | | | | | | | | | |
|----------------------------------|------------|------------|----------|------------|------------|------------|----------|------------|----|
| TOTAL FUEL CONSUMPTION | 0.8 | 1.0 | X | 0.1 | 0.9 | 0.5 | X | 8.7 | |
| Indirect Uses-Boiler Fuel | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- | -- |
| Conventional Boiler Use | -- | 0.1 | X | 0.1 | 0.5 | X | X | -- | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 0.1 | X | X | -- | -- |

| | | | | | | | | |
|-------------------------------------|------------|-----|----|-----|-----|-------------|----|------------|
| Direct Uses-Total Process | -- | 0.6 | X | 0.1 | 1.0 | 0.3 | X | -- |
| Process Heating | -- | 0.6 | X | 0.0 | 1.0 | 0.3 | X | -- |
| Process Cooling and Refrigeration | -- | 0.3 | X | X | 0.1 | X | X | -- |
| Machine Drive | -- | 1.4 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 4.2 | X | 0.2 | 4.1 | 0.5 | X | -- |
| Facility HVAC (g) | -- | 4.9 | X | X | 4.3 | 0.1 | X | -- |
| Facility Lighting | -- | 4.5 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 3.9 | X | X | 0.9 | X | X | -- |
| Onsite Transportation | -- | 0.3 | -- | 0.3 | 0.1 | 0.6 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | 0.1 | X | 0.1 | X | -- |
| End Use Not Reported | 8.4 | X | X | X | X | 18.4 | X | 8.7 |

327213 Glass Containers

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|------------|------------|------------|----------|------------|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | X | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Conventional Boiler Use | -- | 0.0 | X | X | 0.0 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | 0.0 | X | X | X | -- |
| End Use Not Reported | 0.0 | X | X | X | X | 0.0 | X | 0.0 |

327215 Glass Products from Purchased Glass

| | | | | | | | | |
|-------------------------------------|------------|------------|-------------|------------|-------------|-------------|-------------|------------|
| TOTAL FUEL CONSUMPTION | 6.7 | 1.8 | 79.8 | 3.2 | 13.7 | 11.6 | 81.2 | 1.3 |
| Indirect Uses-Boiler Fuel | -- | 1.1 | 79.8 | 2.1 | 4.6 | 60.1 | X | -- |
| Conventional Boiler Use | -- | 1.1 | X | X | 13.7 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 79.8 | 2.1 | 2.0 | 68.5 | X | -- |
| Direct Uses-Total Process | -- | 2.0 | X | 32.7 | 9.5 | 1.3 | X | -- |
| Process Heating | -- | 3.4 | X | X | 10.0 | 1.3 | X | -- |
| Process Cooling and Refrigeration | -- | 1.4 | X | X | 56.8 | X | X | -- |
| Machine Drive | -- | 1.5 | X | 33.6 | 2.2 | 4.9 | X | -- |
| Electro-Chemical Processes | -- | 7.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 8.2 | X | 0.1 | 0.1 | 17.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 2.2 | X | 1.4 | 39.5 | 16.7 | 81.2 | -- |
| Facility HVAC (g) | -- | 2.4 | X | X | 38.2 | 29.9 | 81.2 | -- |
| Facility Lighting | -- | 2.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 4.2 | X | X | 66.7 | 45.7 | X | -- |
| Onsite Transportation | -- | 1.5 | -- | 2.6 | 0.1 | 9.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 3.9 | 7.9 | 0.1 | X | -- |
| Other Nonprocess Use | -- | 11.7 | X | 0.1 | 0.1 | 0.1 | X | -- |
| End Use Not Reported | 0.6 | 0.3 | X | 1.3 | 1.5 | 2.9 | X | 1.3 |

327310 Cements

| | | | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 0.7 | 0.9 | 0.1 | 6.4 | 2.1 | 1.2 | 0.5 | 1.1 |
| Indirect Uses-Boiler Fuel | -- | 18.6 | X | X | 0.1 | X | 0.1 | -- |
| Conventional Boiler Use | -- | 18.6 | X | X | X | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.1 | X | 0.1 | -- |
| Direct Uses-Total Process | -- | 0.9 | 0.1 | 14.5 | 2.1 | 0.1 | 0.5 | -- |
| Process Heating | -- | 1.8 | 0.1 | 3.2 | 2.1 | 0.1 | 0.5 | -- |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | 0.1 | 0.1 | X | -- |
| Machine Drive | -- | 1.1 | X | 32.3 | 16.7 | 0.1 | 30.3 | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | X | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 1.2 | X | 0.8 | 2.2 | 1.7 | X | -- |
| Facility HVAC (g) | -- | 0.6 | X | 0.1 | 2.5 | 0.1 | X | -- |
| Facility Lighting | -- | 2.9 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1.3 | X | X | 0.1 | 0.1 | X | -- |
| Onsite Transportation | -- | 1.7 | -- | 0.8 | X | 4.4 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | X | X | X | -- |
| Other Nonprocess Use | -- | 0.5 | X | 0.1 | X | 0.1 | X | -- |
| End Use Not Reported | 1.1 | 0.1 | X | 0.1 | 0.1 | 0.1 | X | 1.1 |

| 327410 | Lime | | | | | | | | |
|-------------------------------------|------|-----|----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | X | X | X | X | X | -- |
| Conventional Boiler Use | -- | 0.0 | X | X | X | X | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | X | X | X | X | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Heating | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | X | X | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | X | 0.0 | 0.0 | X | -- |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | X | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | X | 0.0 | X | X | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | X | 0.0 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | X | X | X | X | X | X | X | -- |
| End Use Not Reported | 0.0 | 0.0 | X | 0.0 | X | 0.0 | X | X | 0.0 |

| 327420 | Gypsum | | | | | | | | |
|-------------------------------------|--------|-----|----|-----|-----|-----|----|-----|--|
| TOTAL FUEL CONSUMPTION | 0.2 | 1.9 | X | 0.1 | 0.1 | 1.4 | X | 0.1 | |
| Indirect Uses-Boiler Fuel | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- | |
| Conventional Boiler Use | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- | |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.1 | X | X | -- | |
| Direct Uses-Total Process | -- | 2.1 | X | 0.1 | 0.1 | X | X | -- | |
| Process Heating | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- | |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | X | X | X | -- | |
| Machine Drive | -- | 2.4 | X | 0.1 | 0.1 | X | X | -- | |
| Electro-Chemical Processes | -- | X | -- | -- | -- | -- | -- | -- | |
| Other Process Use | -- | X | X | 0.1 | X | X | X | -- | |
| Direct Uses-Total Nonprocess | -- | 1.1 | X | 0.1 | 0.1 | 1.4 | X | -- | |
| Facility HVAC (g) | -- | 1.5 | X | 0.1 | 0.1 | 0.1 | X | -- | |
| Facility Lighting | -- | 1.5 | -- | -- | -- | -- | -- | -- | |
| Other Facility Support | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- | |
| Onsite Transportation | -- | 0.1 | -- | 0.1 | X | 1.4 | -- | -- | |
| Conventional Electricity Generation | -- | -- | X | X | 0.1 | X | X | -- | |
| Other Nonprocess Use | -- | X | X | X | X | X | X | -- | |
| End Use Not Reported | 0.1 | X | X | X | X | X | X | 0.1 | |

| 327993 | Mineral Wool | | | | | | | | |
|-------------------------------------|--------------|-----|----|------|-----|------|----|------|--|
| TOTAL FUEL CONSUMPTION | 1.1 | 0.6 | X | 8 | 0.8 | 3.8 | X | 19.5 | |
| Indirect Uses-Boiler Fuel | -- | 0.9 | X | 0.1 | 0 | X | X | -- | |
| Conventional Boiler Use | -- | 0.9 | X | X | 0.1 | X | X | -- | |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 0.1 | X | X | -- | |
| Direct Uses-Total Process | -- | 0.6 | X | 0.1 | 0.6 | 0 | X | -- | |
| Process Heating | -- | 0.1 | X | X | 0.6 | 0.1 | X | -- | |
| Process Cooling and Refrigeration | -- | 1.1 | X | X | 0.1 | 0.1 | X | -- | |
| Machine Drive | -- | 1.3 | X | 0 | 4.2 | 0.1 | X | -- | |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- | |
| Other Process Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- | |
| Direct Uses-Total Nonprocess | -- | 2.1 | X | 8.4 | 4.3 | 5.1 | X | -- | |
| Facility HVAC (g) | -- | 3.4 | X | 0.1 | 4.5 | 0.1 | X | -- | |
| Facility Lighting | -- | 1.3 | -- | -- | -- | -- | -- | -- | |
| Other Facility Support | -- | 1.8 | X | 0.1 | 2.9 | 0.1 | X | -- | |
| Onsite Transportation | -- | 0.1 | -- | 22.1 | 0.1 | 5.2 | -- | -- | |
| Conventional Electricity Generation | -- | -- | X | 0.1 | X | X | X | -- | |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | 0.1 | 57.4 | X | -- | |
| End Use Not Reported | 13.8 | 0.1 | X | X | 0.1 | 0.1 | X | 19.5 | |

| 331 | PRIMARY METALS | | | | | | | | |
|-----------------------------------|----------------|-----|-----|------|------|------|-----|-----|--|
| TOTAL FUEL CONSUMPTION | 0.5 | 1.2 | 0.1 | 0.8 | 0.6 | 2.5 | 0.1 | 0.2 | |
| Indirect Uses-Boiler Fuel | -- | 3.2 | 0.1 | 0.1 | 0.8 | 12.6 | X | -- | |
| Conventional Boiler Use | -- | 3.2 | 0.1 | 0.1 | 2.7 | 0.1 | X | -- | |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | 0.1 | 0.2 | 14.5 | X | -- | |
| Direct Uses-Total Process | -- | 1.2 | 0.1 | 0.4 | 0.7 | 2.9 | 0.1 | -- | |
| Process Heating | -- | 1.6 | 0.1 | 0.7 | 0.7 | 3.4 | 0.1 | -- | |
| Process Cooling and Refrigeration | -- | 0.9 | X | 13.5 | 0.5 | 0.1 | X | -- | |
| Machine Drive | -- | 3.4 | 0.1 | 0.4 | 12.5 | 2.6 | X | -- | |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- | |
| Other Process Use | -- | 1.2 | X | 1.9 | 0.1 | 8.1 | 0.1 | -- | |

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|------|------|------|----|-----|
| Direct Uses-Total Nonprocess | -- | 1.8 | 0.1 | 1 | 0.9 | 3.9 | X | -- |
| Facility HVAC (g) | -- | 1.9 | 0.1 | 10.6 | 1 | 12.4 | X | -- |
| Facility Lighting | -- | 2.1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 2.4 | X | 11.2 | 0.6 | 2.9 | X | -- |
| Onsite Transportation | -- | 1.1 | -- | 1 | 0.3 | 4.2 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 1.3 | 53.6 | 13.8 | X | -- |
| Other Nonprocess Use | -- | 2.6 | X | 0.1 | 0.2 | 8.2 | X | -- |
| End Use Not Reported | 0.2 | 0.4 | 0.1 | 0.1 | 0.5 | 11.6 | X | 0.2 |

331110 Iron and Steel Mills and Ferroalloys

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| TOTAL FUEL CONSUMPTION | 0.2 | 0.2 | 0.1 | 0.1 | 0.3 | 0.3 | 0.1 | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 1.8 | 0.1 | X | 1.2 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 1.8 | 0.1 | X | 3.7 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | 0.1 | X | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 0.2 | X | 0.1 | 0.2 | 0.1 | 0.1 | -- |
| Process Heating | -- | 0.1 | X | 0.1 | 0.3 | 0.1 | 0.1 | -- |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | 0.1 | 0.1 | X | -- |
| Machine Drive | -- | 0.4 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | 0.1 | -- |
| Direct Uses-Total Nonprocess | -- | 1.4 | X | 0.1 | 0.3 | 0.5 | X | -- |
| Facility HVAC (g) | -- | 0.9 | X | 0.1 | 0.4 | 0.1 | X | -- |
| Facility Lighting | -- | 2.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.5 | X | X | 0.1 | 0.1 | X | -- |
| Onsite Transportation | -- | 0.1 | -- | 0.1 | 0.1 | 0.5 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | X | 0.1 | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| End Use Not Reported | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | X | 0.1 |

3312 Steel Products from Purchased Steel

| | | | | | | | | |
|-------------------------------------|------|------|----|------|------|------|----|------|
| TOTAL FUEL CONSUMPTION | 10.1 | 18.7 | X | 6.2 | 5.8 | 13.8 | X | 14.4 |
| Indirect Uses-Boiler Fuel | -- | 3.5 | X | 0.1 | 5.2 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 3.5 | X | X | 7.5 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 7.5 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 19.5 | X | 1 | 7.7 | 4.9 | X | -- |
| Process Heating | -- | 1.5 | X | 0.1 | 2 | 3 | X | -- |
| Process Cooling and Refrigeration | -- | 2.2 | X | 97.5 | 31.6 | X | X | -- |
| Machine Drive | -- | 29.3 | X | 0.1 | 85.8 | 10.3 | X | -- |
| Electro-Chemical Processes | -- | 36.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 8.4 | X | 19.3 | 1.2 | 2.6 | X | -- |
| Direct Uses-Total Nonprocess | -- | 13.9 | X | 6.8 | 8.2 | 9.9 | X | -- |
| Facility HVAC (g) | -- | 11.1 | X | 46.9 | 8.6 | 68 | X | -- |
| Facility Lighting | -- | 14.8 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 26.3 | X | X | 6.4 | 3 | X | -- |
| Onsite Transportation | -- | 9.5 | -- | 6.6 | 0.1 | 8.7 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 66.3 | 0.1 | 97.5 | X | -- |
| Other Nonprocess Use | -- | 73.6 | X | X | 0.1 | 0.5 | X | -- |
| End Use Not Reported | 13.3 | 0.1 | X | 0.1 | 0.1 | 65.4 | X | 14.4 |

3313 Alumina and Aluminum

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|------|------|----|-----|
| TOTAL FUEL CONSUMPTION | 0.3 | 0.1 | 0.1 | 0.1 | 0.4 | 1.2 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 1.1 | 0.1 | X | 1.2 | 2.8 | X | -- |
| Conventional Boiler Use | -- | 1.1 | 0.1 | X | 12.4 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.1 | 33.9 | X | -- |
| Direct Uses-Total Process | -- | 0.1 | 0.1 | 0.1 | 0.2 | 0.9 | X | -- |
| Process Heating | -- | 0.4 | 0.1 | 0.1 | 0.2 | 1.4 | X | -- |
| Process Cooling and Refrigeration | -- | 4.3 | X | 0.1 | 16 | X | X | -- |
| Machine Drive | -- | 0.3 | X | 0.1 | 0.4 | 1.5 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 1.4 | 0.1 | 0.1 | 1.2 | 2.6 | X | -- |
| Facility HVAC (g) | -- | 1.4 | 0.1 | 0.1 | 0.4 | 5.1 | X | -- |
| Facility Lighting | -- | 1.5 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 1.7 | X | X | 0.2 | 13.6 | X | -- |
| Onsite Transportation | -- | 7.3 | -- | 0.1 | 0.2 | 2.7 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | 83.1 | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | X | 0.1 | X | -- |
| End Use Not Reported | 0.2 | 4.6 | X | 0.1 | 0.1 | 1.1 | X | 0.1 |

331314 Secondary Smelting and Alloying of Aluminum

| | | | | | | | | |
|----------------------------------|-----|-----|---|-----|-----|-----|---|-----|
| TOTAL FUEL CONSUMPTION | 0.1 | 0.1 | X | 0.1 | 0.1 | 0.1 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.1 | X | X | 0.1 | X | X | -- |

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|------------|------------|------------|----------|------------|
| Conventional Boiler Use | -- | 0.1 | X | X | 0.1 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.1 | X | X | -- |
| Direct Uses-Total Process | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Process Heating | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Process Cooling and Refrigeration | -- | 0.1 | X | X | X | X | X | -- |
| Machine Drive | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | X | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Facility HVAC (g) | -- | 0.1 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Facility Lighting | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.1 | X | X | 0.1 | X | X | -- |
| Onsite Transportation | -- | 0.1 | -- | 0.1 | X | 0.1 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | 0.1 | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | X | 0.1 | X | -- |
| End Use Not Reported | 0.1 | 0.1 | X | X | 0.1 | 0.1 | X | 0.1 |

331315 Aluminum Sheet, Plate and Foils

| | | | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|------------|----------|------------|
| TOTAL FUEL CONSUMPTION | 1.0 | 1.1 | 0.1 | 0.1 | 1 | 5.4 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.1 | X | X | 14.5 | X | X | -- |
| Conventional Boiler Use | -- | 0.1 | X | X | 14.8 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.1 | X | X | -- |
| Direct Uses-Total Process | -- | 0.7 | 0.1 | 0.1 | 0.4 | 0.1 | X | -- |
| Process Heating | -- | 0.5 | 0.1 | X | 0.4 | 0.1 | X | -- |
| Process Cooling and Refrigeration | -- | 12.5 | X | 0.1 | 0.1 | X | X | -- |
| Machine Drive | -- | 0.5 | X | 0.1 | 0.1 | X | X | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | X | 0.1 | 0.1 | X | -- |
| Direct Uses-Total Nonprocess | -- | 4 | X | 0.1 | 0.1 | 6.2 | X | -- |
| Facility HVAC (g) | -- | 3.6 | X | X | 0.1 | X | X | -- |
| Facility Lighting | -- | 4.3 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 4.1 | X | X | 0.1 | 0.1 | X | -- |
| Onsite Transportation | -- | 22.5 | -- | 0.1 | 0.1 | 6.2 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | X | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | X | X | X | -- |
| End Use Not Reported | 0.1 | X | X | X | X | X | X | 0.1 |

331318 Other Aluminum Rolling, Drawing and Extruding

| | | | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|-------------|----------|------------|
| TOTAL FUEL CONSUMPTION | 0.9 | 0.8 | 0.1 | 0.3 | 1.2 | 2.5 | X | 5.1 |
| Indirect Uses-Boiler Fuel | -- | 1.8 | X | X | 6.3 | 2.8 | X | -- |
| Conventional Boiler Use | -- | 1.8 | X | X | 10.6 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 8 | 33.9 | X | -- |
| Direct Uses-Total Process | -- | 0.9 | X | 0.1 | 0.8 | 1.2 | X | -- |
| Process Heating | -- | 1.2 | X | X | 0.7 | 2.6 | X | -- |
| Process Cooling and Refrigeration | -- | 1.5 | X | X | 16.9 | X | X | -- |
| Machine Drive | -- | 1.1 | X | 0.1 | 6.3 | 1.6 | X | -- |
| Electro-Chemical Processes | -- | 1.9 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | 0 | 0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.9 | 0.1 | 0.3 | 7.5 | 3.7 | X | -- |
| Facility HVAC (g) | -- | 0.8 | 0.1 | 0.1 | 2.1 | 8 | X | -- |
| Facility Lighting | -- | 1.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 2.2 | X | X | 5.7 | 33.9 | X | -- |
| Onsite Transportation | -- | 3.7 | -- | 0.4 | 0.9 | 3.8 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | 83.4 | X | X | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | X | X | X | -- |
| End Use Not Reported | 2.7 | 4.8 | X | 0.1 | 0.1 | 23.6 | X | 5.1 |

3314 Nonferrous Metals, except Aluminum

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|------------|------------|-------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 2.2 | 2.3 | X | 3.2 | 3.8 | 4.1 | 0.1 | 4.8 |
| Indirect Uses-Boiler Fuel | -- | 1.6 | X | 0.1 | 0.7 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 1.6 | X | 0.1 | 1.2 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 0.8 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 2.3 | X | 1.9 | 5.3 | 0.3 | 0.1 | -- |
| Process Heating | -- | 1.9 | X | 0.1 | 5.4 | 0.2 | X | -- |
| Process Cooling and Refrigeration | -- | 2.4 | X | X | X | X | X | -- |
| Machine Drive | -- | 7.7 | X | 1.2 | 2.4 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 0.4 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 2.4 | X | 60.0 | 9.5 | 30 | 0.1 | -- |
| Direct Uses-Total Nonprocess | -- | 2.9 | X | 5.1 | 3.8 | 14.2 | X | -- |
| Facility HVAC (g) | -- | 2.3 | X | 13.2 | 4.1 | 23.9 | X | -- |
| Facility Lighting | -- | 4.2 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 9.1 | X | 7.5 | 5.3 | 89 | X | -- |
| Onsite Transportation | -- | 12.7 | -- | 6.3 | 0.1 | 16 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.4 | 1.7 | X | X | -- |

| | | | | | | | | | |
|---------------|---|-----|------|-----|------|------|------|-----|------|
| | Other Nonprocess Use | -- | 3.1 | X | 0.1 | 5.7 | 24.8 | X | -- |
| | End Use Not Reported | 4.7 | 0.1 | X | X | X | 20.5 | X | 4.8 |
| 331410 | Nonferrous Metal (except Aluminum) Smelting and Refining | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 0.7 | 0.7 | X | 0.1 | 0.9 | 4.1 | 0 | 0.1 |
| | Indirect Uses-Boiler Fuel | -- | 0 | X | 0 | 0.1 | X | X | -- |
| | Conventional Boiler Use | -- | 0 | X | 0.1 | 0.1 | X | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | X | 0 | 0 | X | X | -- |
| | Direct Uses-Total Process | -- | 0.7 | X | 0.1 | 0.8 | 11.7 | 0 | -- |
| | Process Heating | -- | 0.5 | X | 0 | 0.5 | 0 | X | -- |
| | Process Cooling and Refrigeration | -- | 0.8 | X | X | X | X | X | -- |
| | Machine Drive | -- | 0.8 | X | 0 | 0 | X | X | -- |
| | Electro-Chemical Processes | -- | 0.2 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 2.7 | X | 0 | 11.9 | 50.8 | 0 | -- |
| | Direct Uses-Total Nonprocess | -- | 1.5 | X | 0 | 8 | 0.1 | X | -- |
| | Facility HVAC (g) | -- | 2.7 | X | X | 9.6 | 0 | X | -- |
| | Facility Lighting | -- | 1.3 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 1.5 | X | X | 0.1 | 0 | X | -- |
| | Onsite Transportation | -- | 0 | -- | 0 | 0 | 0 | -- | -- |
| | Conventional Electricity Generation | -- | -- | X | 0 | 0.1 | X | X | -- |
| | Other Nonprocess Use | -- | 0 | X | 0 | X | 0.1 | X | -- |
| | End Use Not Reported | 0 | 0.1 | X | X | X | 0.1 | X | 0.1 |
| 3315 | Foundries | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 3.7 | 6.8 | 0.1 | 4.9 | 4.4 | 4.9 | 0.1 | 5.7 |
| | Indirect Uses-Boiler Fuel | -- | 15.8 | X | 0.1 | 7.3 | 13.7 | X | -- |
| | Conventional Boiler Use | -- | 15.8 | X | 0.1 | 3.2 | 0.1 | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 15.2 | 15.1 | X | -- |
| | Direct Uses-Total Process | -- | 7.7 | 0.1 | 6.6 | 5.8 | 9.3 | 0.1 | -- |
| | Process Heating | -- | 12 | X | 13.3 | 6.1 | 12.5 | 0.1 | -- |
| | Process Cooling and Refrigeration | -- | 5.1 | X | X | 43.8 | 0.1 | X | -- |
| | Machine Drive | -- | 4 | 0.1 | 6.5 | 8.9 | 4.2 | X | -- |
| | Electro-Chemical Processes | -- | 5.4 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 5.4 | X | 2.5 | 4.1 | 13.7 | X | -- |
| | Direct Uses-Total Nonprocess | -- | 4.6 | 0.1 | 5.4 | 1.6 | 2.8 | X | -- |
| | Facility HVAC (g) | -- | 5.2 | 0.1 | 17.6 | 1.7 | 2.7 | X | -- |
| | Facility Lighting | -- | 5 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 6.1 | X | 36.5 | 5.5 | 3.9 | X | -- |
| | Onsite Transportation | -- | 0.9 | -- | 5.7 | 6 | 3.5 | -- | -- |
| | Conventional Electricity Generation | -- | -- | X | 18.3 | 40.8 | 0.1 | X | -- |
| | Other Nonprocess Use | -- | 4.3 | X | 0.9 | 1 | 14 | X | -- |
| | End Use Not Reported | 5.5 | 8.2 | X | 79.6 | 19.7 | 14.7 | X | 5.7 |
| 331511 | Iron Foundries | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 2.1 | 2.5 | 0 | 1.9 | 1.4 | 3.6 | 0.1 | 5.8 |
| | Indirect Uses-Boiler Fuel | -- | 9.1 | X | 0.1 | 11.2 | 82.1 | X | -- |
| | Conventional Boiler Use | -- | 9.1 | X | X | 3.7 | 0.1 | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 12.7 | 89 | X | -- |
| | Direct Uses-Total Process | -- | 1.9 | X | 7.1 | 1.5 | 3.3 | 0.1 | -- |
| | Process Heating | -- | 1.8 | X | 5.4 | 1.6 | 7.7 | 0.1 | -- |
| | Process Cooling and Refrigeration | -- | 7 | X | X | X | X | X | -- |
| | Machine Drive | -- | 2.8 | X | 13.1 | 0.1 | 3.6 | X | -- |
| | Electro-Chemical Processes | -- | 22.7 | -- | -- | -- | -- | -- | -- |
| | Other Process Use | -- | 7.7 | X | X | 5.2 | 0.1 | X | -- |
| | Direct Uses-Total Nonprocess | -- | 5.6 | 0 | 1.8 | 1.9 | 3.9 | X | -- |
| | Facility HVAC (g) | -- | 4.6 | 0.0 | 18.5 | 2.1 | 3.1 | X | -- |
| | Facility Lighting | -- | 9.4 | -- | -- | -- | -- | -- | -- |
| | Other Facility Support | -- | 2.0 | X | 50.7 | 2.7 | 10.9 | X | -- |
| | Onsite Transportation | -- | 1.7 | -- | 1.8 | X | 5.9 | -- | -- |
| | Conventional Electricity Generation | -- | -- | X | 0.1 | X | 0.1 | X | -- |
| | Other Nonprocess Use | -- | 8.3 | X | 5.0 | 0.1 | 0.1 | X | -- |
| | End Use Not Reported | 5.7 | 0.1 | X | 79.6 | 79.4 | 52.2 | X | 5.8 |
| 331523 | Nonferrous Metal Die-Casting Foundries | | | | | | | | |
| | TOTAL FUEL CONSUMPTION | 1.2 | 1.2 | X | 3.6 | 1.4 | 9.5 | X | 12.5 |
| | Indirect Uses-Boiler Fuel | -- | 21.0 | X | X | 13.6 | X | X | -- |
| | Conventional Boiler Use | -- | 21.0 | X | X | 0.1 | X | X | -- |
| | CHP and/or Cogeneration Process | -- | -- | X | X | 56.6 | X | X | -- |
| | Direct Uses-Total Process | -- | 1.1 | X | 3.3 | 1.4 | 15.5 | X | -- |
| | Process Heating | -- | 2.0 | X | X | 1.4 | 18.5 | X | -- |
| | Process Cooling and Refrigeration | -- | 1.2 | X | X | 92.1 | X | X | -- |
| | Machine Drive | -- | 1.2 | X | 3.5 | 62.8 | 1.6 | X | -- |

| | | | | | | | | | |
|-------------------------------------|-----|------|----|-----|------|------|----|------|----|
| Electro-Chemical Processes | -- | 23.2 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.4 | X | 0.1 | 3.2 | 0.2 | X | -- | -- |
| Direct Uses-Total Nonprocess | -- | 3.7 | X | 3.9 | 3.9 | 4.7 | X | -- | -- |
| Facility HVAC (g) | -- | 2.5 | X | 0.1 | 3.3 | 14.4 | X | -- | -- |
| Facility Lighting | -- | 2.5 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 15.7 | X | 0.1 | 13.6 | 34.2 | X | -- | -- |
| Onsite Transportation | -- | 2.4 | -- | 6.7 | 32.2 | 4.8 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 2.7 | X | X | X | -- | -- |
| Other Nonprocess Use | -- | 0.1 | X | 0.1 | 0.1 | X | X | -- | -- |
| End Use Not Reported | 1.8 | 1.8 | X | X | X | 1.3 | X | 12.5 | -- |

331524 Aluminum Foundries, except Die-Casting

| | | | | | | | | | |
|-------------------------------------|-----|------|-----|------|------|------|----|-----|----|
| TOTAL FUEL CONSUMPTION | 9.8 | 3.9 | 0.1 | 54.9 | 11.7 | 4.4 | X | 4.3 | -- |
| Indirect Uses-Boiler Fuel | -- | 5.2 | X | 0.1 | 6.5 | 0.1 | X | -- | -- |
| Conventional Boiler Use | -- | 5.2 | X | 0.1 | 3.9 | 0.1 | X | -- | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 18.3 | 0.1 | X | -- | -- |
| Direct Uses-Total Process | -- | 4.7 | 0.1 | 12.5 | 13.4 | 1.9 | X | -- | -- |
| Process Heating | -- | 2.0 | X | 13.0 | 13.8 | 1.4 | X | -- | -- |
| Process Cooling and Refrigeration | -- | 0.6 | X | X | 8.5 | X | X | -- | -- |
| Machine Drive | -- | 8.8 | 0.1 | 63.9 | 2.2 | 5.0 | X | -- | -- |
| Electro-Chemical Processes | -- | 0.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.1 | X | 0.1 | 1.3 | 28.1 | X | -- | -- |
| Direct Uses-Total Nonprocess | -- | 1.8 | X | 75.5 | 1.4 | 10.8 | X | -- | -- |
| Facility HVAC (g) | -- | 1.4 | X | 0.1 | 1.5 | 1.9 | X | -- | -- |
| Facility Lighting | -- | 2.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 3.5 | X | X | 2.0 | 0.1 | X | -- | -- |
| Onsite Transportation | -- | 5.0 | -- | 75.9 | 18.8 | 15.6 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | 0.1 | X | X | -- | -- |
| Other Nonprocess Use | -- | 40.9 | X | X | X | 1.2 | X | -- | -- |
| End Use Not Reported | 1.6 | 4.8 | X | X | 0.1 | 6.4 | X | 4.3 | -- |

332 FABRICATED METAL PRODUCTS

| | | | | | | | | | |
|-------------------------------------|------|------|----|------|------|------|----|------|----|
| TOTAL FUEL CONSUMPTION | 9.0 | 8.1 | X | 29.7 | 12.0 | 19.6 | X | 33.0 | -- |
| Indirect Uses-Boiler Fuel | -- | 54.8 | X | X | 34.4 | 72.4 | X | -- | -- |
| Conventional Boiler Use | -- | 54.8 | X | X | 53.4 | 78.0 | X | -- | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 41.3 | 99.5 | X | -- | -- |
| Direct Uses-Total Process | -- | 8.6 | X | 64.9 | 14.9 | 38.6 | X | -- | -- |
| Process Heating | -- | 15.8 | X | 99.5 | 15.6 | 52.9 | X | -- | -- |
| Process Cooling and Refrigeration | -- | 20.4 | X | X | 88.2 | X | X | -- | -- |
| Machine Drive | -- | 10.1 | X | 54.4 | 51.6 | 48.1 | X | -- | -- |
| Electro-Chemical Processes | -- | 37.7 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 36.0 | X | 74.3 | 61.5 | 73.4 | X | -- | -- |
| Direct Uses-Total Nonprocess | -- | 10.6 | X | 30.4 | 11.5 | 22.1 | X | -- | -- |
| Facility HVAC (g) | -- | 13.1 | X | 57.7 | 11.8 | 53.3 | X | -- | -- |
| Facility Lighting | -- | 10.6 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 28.0 | X | 97.6 | 31.6 | 97.7 | X | -- | -- |
| Onsite Transportation | -- | 26.4 | -- | 35.1 | 67.4 | 20.2 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 64.0 | 92.1 | X | X | -- | -- |
| Other Nonprocess Use | -- | 44.0 | X | 67.7 | 87.9 | 96.6 | X | -- | -- |
| End Use Not Reported | 48.8 | 71.1 | X | X | 54.1 | 64.6 | X | 33.0 | -- |

333 MACHINERY

| | | | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|------|------|----|
| TOTAL FUEL CONSUMPTION | 9.2 | 8.7 | 99.0 | 33.6 | 12.3 | 29.8 | 87.6 | 44.1 | -- |
| Indirect Uses-Boiler Fuel | -- | 24.0 | X | 0.1 | 28.3 | 98.7 | 87.6 | -- | -- |
| Conventional Boiler Use | -- | 24.0 | X | 0.1 | 25.6 | X | X | -- | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 38.4 | 98.7 | 87.6 | -- | -- |
| Direct Uses-Total Process | -- | 9.5 | X | 39.8 | 21.7 | 39.5 | X | -- | -- |
| Process Heating | -- | 19.6 | X | X | 23.5 | 77.5 | X | -- | -- |
| Process Cooling and Refrigeration | -- | 20.9 | X | 99.0 | 61.3 | 99.0 | X | -- | -- |
| Machine Drive | -- | 10.1 | X | 64.7 | 42.3 | 54.4 | X | -- | -- |
| Electro-Chemical Processes | -- | 42.6 | -- | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 27.3 | X | 40.1 | 65.6 | 52.6 | X | -- | -- |
| Direct Uses-Total Nonprocess | -- | 10.3 | 99.0 | 62.7 | 11.7 | 31.0 | X | -- | -- |
| Facility HVAC (g) | -- | 12.8 | 99.0 | 56.1 | 11.9 | 62.2 | X | -- | -- |
| Facility Lighting | -- | 10.1 | -- | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 14.1 | X | 99.0 | 29.0 | 52.1 | X | -- | -- |
| Onsite Transportation | -- | 21.4 | -- | 37.9 | 73.5 | 18.0 | -- | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 16.4 | 98.8 | 99.0 | X | -- | -- |
| Other Nonprocess Use | -- | 56.4 | 99.0 | 75.7 | 67.3 | 26.5 | X | -- | -- |
| End Use Not Reported | 41.7 | 69.9 | X | 99.0 | 73.8 | 49.9 | X | 44.1 | -- |

334 COMPUTER AND ELECTRONIC PRODUCTS

| | | | | | | | | |
|-------------------------------------|------|------|-----|------|------|------|----|------|
| TOTAL FUEL CONSUMPTION | 6.1 | 4.2 | 0.1 | 45.2 | 12.5 | 29.3 | X | 71.1 |
| Indirect Uses-Boiler Fuel | -- | 9.6 | X | 12.0 | 7.7 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 9.6 | X | 12.0 | 9.0 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 15.0 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 5.1 | X | 64.4 | 38.5 | 37.6 | X | -- |
| Process Heating | -- | 14.1 | X | 90.4 | 49.9 | 92.8 | X | -- |
| Process Cooling and Refrigeration | -- | 5.3 | X | X | 30.2 | X | X | -- |
| Machine Drive | -- | 6.0 | X | 30.5 | 58.3 | 43.8 | X | -- |
| Electro-Chemical Processes | -- | 10.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 6.2 | X | 38.8 | 13.1 | 92.6 | X | -- |
| Direct Uses-Total Nonprocess | -- | 4.6 | 0.1 | 50.4 | 7.9 | 31.7 | X | -- |
| Facility HVAC (g) | -- | 4.4 | 0.1 | 57.5 | 8.4 | 45.8 | X | -- |
| Facility Lighting | -- | 6.6 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 7.8 | X | 84.9 | 12.4 | 23.0 | X | -- |
| Onsite Transportation | -- | 30.5 | -- | 44.7 | 89.3 | 44.4 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 71.6 | 54.6 | X | X | -- |
| Other Nonprocess Use | -- | 6.1 | X | 9.2 | 13.8 | 0.1 | X | -- |
| End Use Not Reported | 32.9 | 25.2 | X | X | 32.2 | 81.3 | X | 71.1 |

334413 Semiconductors and Related Devices

| | | | | | | | | |
|-------------------------------------|------|------|-----|-----|------|------|----|-----|
| TOTAL FUEL CONSUMPTION | 1.3 | 1.3 | 0.1 | 0.9 | 1.5 | 4.8 | X | 0.1 |
| Indirect Uses-Boiler Fuel | -- | 0.5 | X | 0.1 | 0.1 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 0.5 | X | 0.1 | 0.1 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.2 | 0.1 | X | -- |
| Direct Uses-Total Process | -- | 1.6 | X | 2.2 | 1.6 | 0.1 | X | -- |
| Process Heating | -- | 1.8 | X | X | 0.1 | X | X | -- |
| Process Cooling and Refrigeration | -- | 0.7 | X | X | 0.1 | X | X | -- |
| Machine Drive | -- | 3.7 | X | 0.1 | 71.7 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 1.2 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 1.9 | X | 2.4 | 2.0 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 1.6 | 0.1 | 1.1 | 3.4 | 5.8 | X | -- |
| Facility HVAC (g) | -- | 1.5 | 0.1 | 0.1 | 3.8 | 12.8 | X | -- |
| Facility Lighting | -- | 2.8 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.6 | X | 0.1 | 0.5 | 0.1 | X | -- |
| Onsite Transportation | -- | 0.1 | -- | 0.1 | X | 1.1 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 6.9 | 1.9 | X | X | -- |
| Other Nonprocess Use | -- | 2.0 | X | 0.1 | 3.7 | 0.1 | X | -- |
| End Use Not Reported | 14.3 | 13.9 | X | X | 32.2 | X | X | 0.1 |

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

| | | | | | | | | |
|-------------------------------------|------|------|----|------|------|------|----|------|
| TOTAL FUEL CONSUMPTION | 7.3 | 8.5 | X | 33.6 | 9.7 | 50.0 | X | 29.5 |
| Indirect Uses-Boiler Fuel | -- | 44.2 | X | X | 28.2 | 89.5 | X | -- |
| Conventional Boiler Use | -- | 44.2 | X | X | 31.2 | 89.5 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 50.9 | X | X | -- |
| Direct Uses-Total Process | -- | 9.1 | X | 94.7 | 11.7 | 88.9 | X | -- |
| Process Heating | -- | 12.5 | X | 82.7 | 12.1 | 60.1 | X | -- |
| Process Cooling and Refrigeration | -- | 21.0 | X | X | 36.8 | X | X | -- |
| Machine Drive | -- | 11.4 | X | 95.7 | 81.0 | 91.4 | X | -- |
| Electro-Chemical Processes | -- | 21.5 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 36.9 | X | X | 46.0 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 10.9 | X | 13.9 | 12.7 | 27.8 | X | -- |
| Facility HVAC (g) | -- | 12.6 | X | 81.4 | 12.4 | 77.5 | X | -- |
| Facility Lighting | -- | 12.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 14.6 | X | 73.7 | 24.1 | 76.3 | X | -- |
| Onsite Transportation | -- | 26.4 | -- | 1.8 | X | 27.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 26.3 | X | 98.9 | X | -- |
| Other Nonprocess Use | -- | 83.1 | X | 39.7 | 91.4 | 91.9 | X | -- |
| End Use Not Reported | 28.6 | 98.9 | X | 45.9 | X | 72.9 | X | 29.5 |

336 TRANSPORTATION EQUIPMENT

| | | | | | | | | |
|-------------------------------------|-----|------|-----|------|------|------|-----|------|
| TOTAL FUEL CONSUMPTION | 4.7 | 5.1 | 0.1 | 34.0 | 5.5 | 16.3 | 0.1 | 12.2 |
| Indirect Uses-Boiler Fuel | -- | 19.9 | 0.1 | 8.9 | 7.0 | 68.3 | 0.1 | -- |
| Conventional Boiler Use | -- | 19.9 | 0.1 | 9.0 | 7.2 | 68.3 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 16.7 | X | 0.1 | -- |
| Direct Uses-Total Process | -- | 5.8 | X | 58.4 | 7.4 | 29.4 | X | -- |
| Process Heating | -- | 12.6 | X | 18.2 | 7.8 | 30.1 | X | -- |
| Process Cooling and Refrigeration | -- | 7.1 | X | X | 7.7 | 45.2 | X | -- |
| Machine Drive | -- | 7.1 | X | 59.5 | 66.2 | 43.4 | X | -- |
| Electro-Chemical Processes | -- | 30.1 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 19.3 | X | 0.7 | 22.4 | 62.9 | X | -- |
| Direct Uses-Total Nonprocess | -- | 6.0 | X | 39.8 | 8.7 | 18.1 | X | -- |
| Facility HVAC (g) | -- | 6.8 | X | 54.2 | 8.4 | 22.7 | X | -- |
| Facility Lighting | -- | 5.7 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 10.5 | X | 58.5 | 13.6 | 35.1 | X | -- |

| | | | | | | | | |
|-------------------------------------|-------------|-------------|----------|-------------|-------------|-------------|----------|-------------|
| Onsite Transportation | -- | 12.9 | -- | 43.5 | 11.6 | 20.7 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 52.0 | 55.7 | 0.1 | X | -- |
| Other Nonprocess Use | -- | 42.0 | X | 75.8 | 88.6 | 25.0 | X | -- |
| End Use Not Reported | 15.3 | 43.2 | X | 86.4 | 44.8 | 64.0 | X | 12.2 |

336111 Automobiles

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|------------|------------|------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | X | X | 0.0 | 0.0 | 0.0 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.0 | 0.0 | X | X | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | X | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | X | X | X | -- |
| Electro-Chemical Processes | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | 0.0 | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | 0.0 | X | X | -- |
| Other Nonprocess Use | -- | 0.0 | X | 0.0 | X | X | X | -- |
| End Use Not Reported | 0.0 | 0.0 | X | X | 0.0 | X | X | 0.0 |

336112 Light Trucks and Utility Vehicles

| | | | | | | | | |
|-------------------------------------|------------|------------|----------|------------|------------|------------|------------|------------|
| TOTAL FUEL CONSUMPTION | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indirect Uses-Boiler Fuel | -- | 0.0 | X | X | 0.0 | X | 0.0 | -- |
| Conventional Boiler Use | -- | 0.0 | X | X | 0.0 | X | 0.0 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.0 | X | X | -- |
| Direct Uses-Total Process | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Process Heating | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Process Cooling and Refrigeration | -- | 0.0 | X | X | 0.0 | X | X | -- |
| Machine Drive | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| Electro-Chemical Processes | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 0.0 | X | 0.0 | 0.0 | 0.0 | X | -- |
| Facility HVAC (g) | -- | 0.0 | X | X | 0.0 | 0.0 | X | -- |
| Facility Lighting | -- | 0.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 0.0 | X | 0.0 | 0.0 | X | X | -- |
| Onsite Transportation | -- | 0.0 | -- | 0.0 | 0.0 | 0.0 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.0 | X | X | X | -- |
| Other Nonprocess Use | -- | 0.0 | X | 0.0 | X | 0.0 | X | -- |
| End Use Not Reported | 0.0 | X | X | 0.0 | X | X | X | 0.0 |

3364 Aerospace Products

| | | | | | | | | |
|-------------------------------------|-------------|-------------|------------|-------------|-------------|-------------|----------|-------------|
| TOTAL FUEL CONSUMPTION | 7.3 | 6.8 | 0.1 | 68.1 | 6.4 | 14.2 | X | 19.5 |
| Indirect Uses-Boiler Fuel | -- | 14.9 | 0.1 | 0.1 | 6.8 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 14.9 | 0.1 | 0.1 | 1.6 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 0.1 | 20.8 | X | X | -- |
| Direct Uses-Total Process | -- | 6.1 | X | 92.8 | 6.3 | 27.1 | X | -- |
| Process Heating | -- | 6.6 | X | 0.1 | 7.6 | 29 | X | -- |
| Process Cooling and Refrigeration | -- | 4 | X | X | 9.9 | 45.2 | X | -- |
| Machine Drive | -- | 6.1 | X | 93.3 | 9.4 | 67.9 | X | -- |
| Electro-Chemical Processes | -- | 24.3 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 31.5 | X | 4.6 | 0.8 | 3.3 | X | -- |
| Direct Uses-Total Nonprocess | -- | 8.0 | X | 77.2 | 12.8 | 15.7 | X | -- |
| Facility HVAC (g) | -- | 7.2 | X | 6.2 | 13.7 | 34.6 | X | -- |
| Facility Lighting | -- | 10.1 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 8.7 | X | 66.2 | 10.3 | 1.6 | X | -- |
| Onsite Transportation | -- | 7.7 | -- | 86.4 | 8.7 | 6.8 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 49.0 | 65.0 | 0.1 | X | -- |
| Other Nonprocess Use | -- | 57.4 | X | 2.9 | 78.9 | 0.1 | X | -- |
| End Use Not Reported | 16.0 | 0.1 | X | 0.1 | 0.1 | 5.8 | X | 19.5 |

336411 Aircraft

| | | | | | | | | |
|----------------------------------|-------------|-------------|------------|-------------|-------------|------------|----------|-------------|
| TOTAL FUEL CONSUMPTION | 19.7 | 19.0 | 0.1 | 84.4 | 14.0 | 3.2 | X | 40.7 |
| Indirect Uses-Boiler Fuel | -- | 28.6 | 0.1 | 0.1 | 0.2 | 0.1 | X | -- |
| Conventional Boiler Use | -- | 28.6 | 0.1 | 0.1 | 0.2 | 0.1 | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | X | 0.1 | X | X | -- |
| Direct Uses-Total Process | -- | 22.4 | X | 94.7 | 1.6 | 5.0 | X | -- |
| Process Heating | -- | 13.5 | X | 0.1 | 1.9 | 0.1 | X | -- |

| | | | | | | | | |
|-------------------------------------|------------|-------------|----------|-------------|-------------|------------|----------|-------------|
| Process Cooling and Refrigeration | -- | 9.3 | X | X | 0.1 | 45.2 | X | -- |
| Machine Drive | -- | 16.8 | X | 94.8 | 1.1 | 0.1 | X | -- |
| Electro-Chemical Processes | -- | 2.8 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 88.9 | X | X | 25.5 | X | X | -- |
| Direct Uses-Total Nonprocess | -- | 18.3 | X | 89.9 | 26.6 | 4.4 | X | -- |
| Facility HVAC (g) | -- | 17.6 | X | 0.1 | 28.3 | 18.4 | X | -- |
| Facility Lighting | -- | 23.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 16.4 | X | X | 16.9 | 0.1 | X | -- |
| Onsite Transportation | -- | 21.4 | -- | 90.5 | 12.1 | 2.9 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | X | 0.1 | X | X | -- |
| Other Nonprocess Use | -- | 63.8 | X | 35.7 | 87.3 | X | X | -- |
| End Use Not Reported | 7.0 | 0.1 | X | X | 0.1 | 0.1 | X | 40.7 |

337 FURNITURE AND RELATED PRODUCTS

| | | | | | | | | |
|-------------------------------------|-------------|-------------|----------|-------------|-------------|-------------|------------|-------------|
| TOTAL FUEL CONSUMPTION | 9.1 | 8.3 | X | 54.6 | 13.2 | 27.2 | 4.4 | 40.2 |
| Indirect Uses-Boiler Fuel | -- | 30.7 | X | 99.0 | 50.1 | 96.4 | 0.1 | -- |
| Conventional Boiler Use | -- | 30.7 | X | X | 46.4 | 96.4 | 0.1 | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 99.0 | 58.1 | 96.4 | X | -- |
| Direct Uses-Total Process | -- | 9.5 | X | 95.7 | 18.4 | 68.6 | 77.3 | -- |
| Process Heating | -- | 16.3 | X | 95.7 | 18.5 | 95.3 | 77.3 | -- |
| Process Cooling and Refrigeration | -- | 22.4 | X | X | 70.7 | 96.4 | X | -- |
| Machine Drive | -- | 10.1 | X | X | 96.4 | 53.0 | X | -- |
| Electro-Chemical Processes | -- | 37.3 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 46.6 | X | X | X | 65.5 | X | -- |
| Direct Uses-Total Nonprocess | -- | 10.7 | X | 48.0 | 13.1 | 24.3 | 4.4 | -- |
| Facility HVAC (g) | -- | 14.5 | X | 95.3 | 13.3 | 51.4 | 4.4 | -- |
| Facility Lighting | -- | 11.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 13.6 | X | 0.1 | 23.0 | 87.6 | X | -- |
| Onsite Transportation | -- | 24.4 | -- | 5.4 | 21.5 | 19.7 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 0.1 | 96.4 | 96.4 | X | -- |
| Other Nonprocess Use | -- | 43.0 | X | 43.1 | 96.4 | 69.2 | X | -- |
| End Use Not Reported | 35.6 | 51.2 | X | X | 83.7 | 65.7 | X | 40.2 |

339 MISCELLANEOUS

| | | | | | | | | |
|-------------------------------------|-------------|-------------|------------|-------------|-------------|-------------|----------|-------------|
| TOTAL FUEL CONSUMPTION | 16.0 | 9.3 | 0.1 | 67.5 | 27.2 | 49.3 | X | 79.7 |
| Indirect Uses-Boiler Fuel | -- | 31.4 | X | 72.5 | 55.7 | X | X | -- |
| Conventional Boiler Use | -- | 31.4 | X | 78.0 | 45.8 | X | X | -- |
| CHP and/or Cogeneration Process | -- | -- | X | 74.2 | 61.3 | X | X | -- |
| Direct Uses-Total Process | -- | 11.0 | X | 94.6 | 30.9 | 57.6 | X | -- |
| Process Heating | -- | 21.4 | X | 99.0 | 36.6 | 87.2 | X | -- |
| Process Cooling and Refrigeration | -- | 19.9 | X | X | 70.6 | 99.0 | X | -- |
| Machine Drive | -- | 11.9 | X | 99.0 | 99.0 | 74.5 | X | -- |
| Electro-Chemical Processes | -- | 30.7 | -- | -- | -- | -- | -- | -- |
| Other Process Use | -- | 46.3 | X | 0.1 | 75.1 | 99.0 | X | -- |
| Direct Uses-Total Nonprocess | -- | 9.4 | 0.1 | 57.5 | 21.2 | 58.8 | X | -- |
| Facility HVAC (g) | -- | 9.9 | 0.1 | 99.0 | 14.6 | 83.6 | X | -- |
| Facility Lighting | -- | 11.0 | -- | -- | -- | -- | -- | -- |
| Other Facility Support | -- | 13.5 | 0.1 | X | 13.5 | 99.0 | X | -- |
| Onsite Transportation | -- | 22.5 | -- | 55.1 | 78.0 | 48.7 | -- | -- |
| Conventional Electricity Generation | -- | -- | X | 33.0 | 87.4 | 91.1 | X | -- |
| Other Nonprocess Use | -- | 1.7 | X | 6.9 | 66.5 | 0.1 | X | -- |
| End Use Not Reported | 53.6 | 53.6 | X | X | 53.3 | 66.8 | X | 79.7 |

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).

(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.

(g) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

* 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.

S=Negative value.

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. Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'

