Released: February 2018
Next MECS will be fielded in 2019
Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2014

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Level: National Data
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Count
```

|  |  | Resid | Fuel Oil(b) |  |  |  | Alterna | Energ | Sources(c) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS Code(a) | Subsector and Industry | $\begin{array}{r} \text { Total } \\ \text { Consumed(d) } \end{array}$ | Switchable | Not Switchable | Electricity Receipts(e) | Natural <br> Gas | Distillate Fuel Oil | Coal | HGL (excluding natural gasoline) | Coal Coke and Breeze | Other(f) |


(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).
(b) These counts include only those establishments that reported this activity in 2014. Establishments for which only a portion of the total consumed fuel was reported as switchable contribute to the establishment counts in both the 'Switchable and 'Not Switchable' columns. Therefore the sum of these establishment counts may be greater than the corresporing establishment count of the total number of establishments consuming the fuel
(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for residual fuel oil during 2014. The quantities are expressed in thousands of barrels, and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.
(d) 'Total Consumed' represents those quantities (Total Inputs) of residual fuel oil that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
(e) 'Electricity Receipts' represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. 'Electricity Receipts' has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
(f) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of residual fuel oil
*Estimate less than 0.5.
$\mathrm{W}=$ Withheld to avoid disclosing data for individual establishments.
Q=Withheld because Relative Standard Error is greater than 50 percent
$N A=$ Not available.
Notes: Totals may not equal sum of components because of independent rounding
Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'


Total United States

| 311 | Food | 30.8 | 15.0 | 13.8 | X | 16.3 | 3.9 | X | x | X | 56.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3112 | Grain and Oilseed Milling | 31.6 | 36.5 | 57.5 | X | 36.5 | X | X | x | x | 56.6 |
| 311221 | Wet Corn Milling | X | X | X | X | X | X | X | X | X |  |
| 31131 | Sugar Manufacturing | 0.1 | 0.1 | 0.1 | X | 0.1 | 0.1 | X | x | x | x |
| 3114 | Fruit and Vegetable Preserving and Specialty Food | 14.1 | 9.2 | 18.0 | X | 9.2 | 9.2 | X | x | x | X |
| 3115 | Dairy Product | 23.7 | 29.2 | 7.1 | x | 29.2 | X | X | X | x | x |
| 3116 | Animal Slaughtering and Processing | 18.2 | 7.1 | 23.5 | X | 7.1 | X | X | x | x | X |
| 312 | Beverage and Tobacco Products | 0.1 | 0.1 | 0.1 | X | 0.1 | X | X | x | x | x |
| 3121 | Beverages | X | x | X | X | X | X | X | X | X | X |
| 3122 | Tobacco | 0.1 | 0.1 | 0.1 | X | 0.1 | X | X | X | X | X |
| 313 | Textile Mills | 54.0 | 46.9 | 9.9 | X | 59.9 | 22.5 | X | X | x | 9.9 |
| 314 | Textile Product Mills | 16.9 | X | 16.9 | X | X | X | X | X | X | x |
| 315 | Apparel | X | x | X | x | X | X | x | X | X | X |
| 316 | Leather and Allied Products | 70.4 | X | 79.8 | X | X | X | X | x | x | X |
| 321 | Wood Products | 8.5 | X | 4.8 | X | x | X | X | X | X | x |
| 321113 | Sawmills | 5.5 | x | 5.5 | X | X | X | X | x | X | X |
| 3212 | Veneer, Plywood, and Engineered Woods | X | X | X | X | X | X | X | X | X | X |
| 321219 | Reconstituted Wood Products | x | X | x | X | X | X | X | x | x | x |
| 3219 | Other Wood Products | 7.6 | x | 7.6 | X | X | x | X | x | x | x |
| 322 | Paper | 0.7 | 0.7 | 0.5 | 0.1 | 0.8 | 0.1 | 0.1 | 0.0 | X | 0.1 |
| 322110 | Pulp Mills | 0.0 | 0.0 | 0.0 | X | 0.0 | 0.0 | X | x | X | X |
| 322121 | Paper Mills, except Newsprint | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | x | X | 0.1 |
| 322122 | Newsprint Mills | X | x | X | X | X | x | X | x | x | x |
| 322130 | Paperboard Mills | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | x | 0.0 |
| 323 | Printing and Related Support | 52.1 | X | 52.1 | X | X | X | X | X | X | X |
| 324 | Petroleum and Coal Products | 13.0 | 15.0 | 21.8 | X | 15.8 | 16.0 | X | 17.1 | x | 36.2 |
| 324110 | Petroleum Refineries | 36.2 | 36.2 | 36.2 | X | 36.2 | 36.2 | X | 36.2 | x | 36.2 |
| 324121 | Asphalt Paving Mixture and Block | 13.9 | 16.3 | 23.6 | X | 17.4 | 16.8 | x | 18.5 | X | x |
| 324122 | Asphalt Shingle and Coating Materials | 4.0 | X | 4.0 | X | X | X | X | X | X | X |
| 324199 | Other Petroleum and Coal Products | x | X | x | X | X | x | x | x | x | x |
| 325 | Chemicals | 42.8 | 5.5 | 46.5 | x | 7.3 | 0.0 | X | X | X | x |
| 325110 | Petrochemicals | x | X | X | X | X | x | x | x | x | x |
| 325120 | Industrial Gases | X | X | x | X | x | X | X | X | X | x |
| 325180 | Other Basic Inorganic Chemicals | X | X | x | X | X | X | X | x | X | X |
| 325193 | Ethyl Alcohol | X | X | x | X | X | X | X | X | X | x |
| 325194 | Cyclic Crudes, Intermediate and Gum and Wood Chemicals | X | X | X | X | X | X | X | X | X | X |
| 325199 | Other Basic Organic Chemicals | 12.4 | X | 12.4 | X | X | x | x | X | X | x |
| 325211 | Plastics Materials and Resins | 59.3 | 8.1 | 75.9 | X | 8.1 | X | X | X | X | X |
| 325212 | Synthetic Rubber | x | x | x | X | x | X | x | x | x | x |
| 325220 | Artificial and Synthetic Fibers and Filaments | 0.0 | 0.0 | 0.0 | X | 0.0 | X | x | x | x | x |
| 325311 | Nitrogenous Fertilizers | 22.9 | X | 22.9 | X | X | X | x | X | X | X |
| 325312 | Phosphatic Fertilizers | 0.0 | 0.0 | 0.0 | X | X | 0.0 | X | x | x | x |
| 3254 | Pharmaceuticals and Medicines | X | X | X | X | X | X | X | X | X | X |
| 325412 | Pharmaceutical Preparation | X | X | X | X | X | X | X | x | x | X |
| 325992 | Photographic Film, Paper, Plate, and Chemicals | 25.5 | 25.5 | X | X | 25.5 | x | x | X | X | x |
| 326 | Plastics and Rubber Products | X | X | x | X | X | X | X | x | x | x |
| 327 | Nonmetallic Mineral Products | 88.4 | 31.9 | 32.7 | X | X | X | 31.9 | X | x | X |
| 327120 | Clay Building Material and Refractories | 42.1 | x | 42.1 | x | X | X | x | x | x | x |
| 327211 | Flat Glass | X | x | x | X | X | x | X | x | X | x |
| 327212 | Other Pressed and Blown Glass and Glassware | X | X | X | X | X | X | X | X | X | X |
| 327213 | Glass Containers | x | x | x | X | X | x | x | X | x | x |
| 327215 | Glass Products from Purchased Glass | 80.6 | x | 80.6 | X | X | x | x | x | x | x |
| 327310 | Cements | 31.9 | 31.9 | 31.9 | X | X | X | 31.9 | X | x | x |
| 327410 | Lime | X | x | x | X | x | x | X | X | X | x |
| 327420 | Gypsum | x | x | x | x | X | X | x | x | x | X |
| 327993 | Mineral Wool | X | X | X | X | X | X | X | X | X | X |
| 331 | Primary Metals | 4.5 | 9.4 | 5.7 | X | 9.4 | 3.3 | x | x | x | X |
| 331110 | Iron and Steel Mills and Ferroalloys | 3.3 | 3.3 | 3.3 | X | 3.3 | 3.3 | X | x | x | x |
| 3312 | Steel Products from Purchased Steel | X | X | X | X | X | X | X | X | X | X |
| 3313 | Alumina and Aluminum | 7.8 | 21.4 | 0.0 | X | 21.4 | X | X | x | x | X |
| 331314 | Secondary Smelting and Alloying of Aluminum | X | x | x | x | X | X | x | X | X | x |
| 331315 | Aluminum Sheet, Plate and Foils | 21.4 | 21.4 | X | X | 21.4 | x | x | x | x | x |
| 331318 | Other Aluminum Rolling, Drawing and Extruding | 10.0 | x | x | X | X | X | X | X | X | x |
| 3314 | Nonferrous Metals, except Aluminum | x | x | x | X | X | X | x | x | x | X |
| 331410 | Nonferrous Metal (except Aluminum) Smelting and Refining | x | X | X | X | x | X | X | x | x |  |
| 3315 | Foundries | 9.4 | x | 9.4 | X | X | X | X | X | X |  |
| 331511 | Iron Foundries | 18.5 | X | 18.5 | X | X | X | X | x | x | X |
| 331523 | Nonferrous Metal Die-Casting Foundaries | X | X | X | X | X | X | x | x | X | X |
| 331524 | Aluminum Foundries, except Die-Casting | 7.9 | x | 7.9 | X | X | x | x | x | x | x |
| 332 | Fabricated Metal Products | X | X | x | x | x | X | X | X | X | x |
| 333 | Machinery | 99.1 | x | 99.1 | X | X | X | x | X | X | X |
| 334 | Computer and Electronic Products | 11.6 | X | 11.6 | x | x | X | X | X | x | X |
| 334413 | Semiconductors and Related Devices | 20.1 | x | 20.1 | X | x | X | x | x | x |  |
| 335 | Electrical Equip., Appliances, and Components | x | x | X | X | X | X | X | x | x | X |
| 336 | Transportation Equipment | 8.2 | x | 8.2 | X | X | X | X | X | X |  |
| 336111 | Automobiles | X | X | x | X | X | X | X | x | x | X |
| 336112 | Light Trucks and Utility Vehicles | X | x | X | X | X | X | X | X | X |  |
| 3364 | Aerospace Product and Parts | 11.4 | x | 11.4 | x | x | x | X | x | x | x |
| 336411 | Aircraft | 25.8 | X | 25.8 | X | X | X | X | X | X | X |
| 337 | Furniture and Related Products | X | x | X | x | x | X | x | X | X | X |
| 339 | Miscellaneous | 6.0 | x | 6.0 | x | x | X | x | x | x | X |
|  | Total | 22.1 | 6.9 | 27.0 | 0.1 | 6.7 | 12.3 | 8.6 | 16.0 | X | 15.2 |

(b) These counts include only those establishments that reported this activity in 2014. Establishments for which only a portion of the total consumed fuel was reported as switchable contribute to the establishment counts in both the 'Switchable' and 'Not Switchable' columns. Therefore, the sum of these establishment counts may be greater than the corresponding establishment count of the total number of establishments consuming the fuel.
(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for residual fuel oil during 2014. The quantities are expressed in thousands of barrels, and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.
(d) 'Total Consumed' represents those quantities (Total Inputs) of residual fuel oil that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
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(f) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of residual fuel oil

* Estimate less than 0.5
$\mathrm{W}=$ Withheld to avoid disclosing data for individual establishments.
$\mathrm{Q}=$ Withheld because Relative Standard Error is greater than 50 percent.
$\mathrm{NA}=\mathrm{Not}$ available.
X=Not defined because RSE corresponds to a value of zero.
- Estimation is not applicable.

Notes: Totals may not equal sum of components because of independent rounding
Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'

