Primary Energy, 2018

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>510</td>
<td>668</td>
<td>86</td>
<td>480</td>
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<tr>
<td>Electricity</td>
<td>135</td>
<td>321</td>
<td>19.4</td>
<td>2.0</td>
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<tr>
<td>Steam</td>
<td>100</td>
<td>525</td>
<td>22.0</td>
<td>0.3</td>
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<tr>
<td>Generation Loss</td>
<td>106</td>
<td>347</td>
<td>86</td>
<td>188</td>
</tr>
<tr>
<td>Steam Generation</td>
<td>7.2</td>
<td>262</td>
<td>58</td>
<td>15</td>
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<tr>
<td>Electricity Gen</td>
<td>7.7</td>
<td>44</td>
<td>Nonprocess Losses</td>
<td>15</td>
</tr>
<tr>
<td>Losses</td>
<td>14.9</td>
<td>43.4</td>
<td>Total Losses</td>
<td>15</td>
</tr>
</tbody>
</table>

**Energy use data source:** 2018 EIA MECS (with adjustments). For full information on references, definitions, assumptions, and other sectors, visit this webpage.

**Last Revised:** December 2021

**Notes:**
- Sector-wide aggregate data for year 2018; energy values rounded to nearest whole number.
- Offsite generation shown on net basis (purchases, sales, and transfers accounted for) and includes onsite non-combustion renewable output.
- *Electricity export refers to sales and transfers offsite of electricity to utilities and other entities.
- Feedstock energy excluded from primary, offsite, and onsite energy values and included in Energy for All Purposes.
- ^Excess steam refers to the sales and transfer of surplus steam or purging of surplus steam.

**Energy for All Purposes estimated at 1,816 TBtu**
Includes primary energy plus net energy consumed for nonfuel purposes, including feedstock use.

**Manufacturing Energy and Carbon Footprint**
Sector: Plastics Material and Resins (NAICS 325211)

**Primary Energy Use:** 809 TBtu
**Total GHG Emissions:** 43 MMT CO$_2$e
Manufacturing Carbon Footprint
Sector: Plastics Material and Resins (NAICS 325211)

Primary Energy Use: 809 TBtu
Total GHG Emissions: 43 MMT CO₂e

Fuel and GHG Emissions, 2018

- Offsite Generation
  - Electricity Generation
  - Steam Generation

- Onsite Generation
  - Conventional Boilers
  - CHP/Cogeneration
  - Other Electricity Generation

- Process Energy
  - Process Heating
  - Process Cooling and Refrigeration
  - Other Process Uses
  - Electro-Chemical

- Nonprocess Energy
  - Facility HVAC
  - Facility Lighting
  - Other Facility Support
  - Onsite Transportation
  - Other Nonprocess

Fuel
(TBtu = Trillion British Thermal Units)

Greenhouse Gas (GHG) Emissions
(MMT CO₂e - Million Metric Tons Carbon Dioxide Equivalent)

Combustion
Process

Energy use data source: 2018 EIA MECS (with adjustments)
See webpage for details

Last Revised: December 2021

Notes:
Sector-wide aggregate data for year 2018; energy values rounded to nearest whole number; emissions values rounded to nearest tenth

Prepared for the U.S. Department of Energy, Advanced Manufacturing Office by Energetics