Total Primary Energy, 2010

Offsite Energy

- Fuel: 143 TBtu
- Electricity Generation: 23.1 TBtu
  - Generation and Transmission Losses: 266 TBtu
- Steam Generation: 0.0 TBtu
  - Generation and Transmission Losses: 0 TBtu

Onsite Energy

- Generation and Steam Generation Losses: 10 TBtu
- Electricity Generation (includes < 0.1 TBtu renewable, non-combustion electricity output): 2.6 TBtu
  - Process Energy: 16.6 TBtu
    - Process Losses: 68 TBtu
- Steam Distribution Losses: 6 TBtu
- Steam Generation: 2.4 TBtu
- Nonprocess Energy: 11.9 TBtu
  - Nonprocess Losses: 48 TBtu
- Total Emissions = Offsite Emissions + Onsite Emissions = 31.0 MMT CO₂e

Total Primary Energy Use: 541 TBtu
Total Combustion Emissions: 31 MMT CO₂e

Energy use data source: 2010 EIA MECS (with adjustments)
Last Revised: February 2014
Notes:
- Sector-wide aggregate data for year 2010
- Energy values rounded to nearest whole number
- Feedstock energy not included
- Offsite generation shown on net basis (purchases, sales, and transfers accounted for)

Prepared for the U.S. Department of Energy, Advanced Manufacturing Office by Energetics Incorporated
Onsite Energy, 2010

Manufacturing Energy and Carbon Footprint
Sector: Transportation Equipment (NAICS 336)

Onsite Energy Use: 275 TBtu
Onsite Combustion Emissions: 8 MMT CO₂e

Fuel Types

<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>89.0%</td>
</tr>
<tr>
<td>Distillate and Residual Fuel Oils</td>
<td>3.5%</td>
</tr>
<tr>
<td>Coal</td>
<td>2.1%</td>
</tr>
<tr>
<td>LPG and NGL</td>
<td>2.1%</td>
</tr>
<tr>
<td>Waste Gas (byproduct fuel)</td>
<td>1.4%</td>
</tr>
<tr>
<td>Waste Oils/Tars and Waste Materials (byproduct fuel)</td>
<td>0.2%</td>
</tr>
<tr>
<td>Other Fuels</td>
<td>1.7%</td>
</tr>
</tbody>
</table>

Energy Use Data Source: 2010 EIA MECS (with adjustments)
Last Revised: February 2014
Notes:
- Sector-wide aggregate data for year 2010
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