Manufacturing Energy and Carbon Footprint  
Sector: All Manufacturing (NAICS 31-33)

Total Primary Energy, 2010

Total Primary Energy Use: 19,237 TBtu  
Total Combustion Emissions: 1,071 MMT CO₂e

Energy values rounded to nearest whole number  
Feedstock energy not included  
Offsite generation shown on net basis  
(purchases, sales, and transfers accounted for)

Energy use data source: 2010 EIA MECS (with adjustments)  
Last Revised: June 2015  
Notes: Sector-wide aggregate data for year 2010

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

Onsite Generation
- Conventional Boilers: 1,403 TBtu, 79.2% Natural Gas, 74.5% Other Fuels
- CHP/Cogeneration: 3,988 TBtu, 220.5% Other Systems
- Other Electricity Generation: 272 TBtu, 2.4% Other Systems

Process Energy
- Process Heating: 4,589 TBtu, 328.7% Electro-Chemical
- Process Cooling and Refrigeration: 2,290 TBtu, 35.6% Machine Drive
- Other Process Uses: 39 TBtu, 6.0% Facilities Lighting
- Electro-Chemical: 438 TBtu, 33.0% Facility HVAC

Machine Drive
- Pumps: 614 TBtu, 291% Compressed Air
- Fans: 333 TBtu, 175% Materials Handling
- Compressed Air: 1,485 TBtu, 193% Materials Processing
- Materials Handling: 1,485 TBtu, 333% Other Systems

Nonprocess Energy
- Facility HVAC: 333 TBtu, 431% Onsite Transportation
- Facility Lighting: 244 TBtu, 381% Other Nonprocess
- Other Facility Support: 52 TBtu, 42% Onsite Transportation
- Onsite Transportation: 42 TBtu, 52% Other Nonprocess

Energy Use Data Source:
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