Manufacturing Energy and Carbon Footprint  
Sector: Foundries (NAICS 3315)  
Primary Energy Use: 160 TBtu  
Total GHG Emissions: 7 MMT CO₂e

Primary Energy, 2018

**Energy (TBtu = Trillion British Thermal Units)**
- Fuel
- Electricity
- Steam
- Combined

**Greenhouse Gas (GHG) Emissions (MMT CO₂e = Million Metric Tons Carbon Dioxide Equivalent)**
- Offsite
- Total
- Onsite

Total Emissions = Offsite Emissions + Onsite (Combustion + Process) Emissions

**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 offsite or purging of surplus steam

**Energy for All Purposes estimated at 161 TBtu**
Includes primary energy plus net energy consumed for nonfuel purposes, including feedstock use
Primary Energy Use: 160 TBtu
Total GHG Emissions: 7 MMT CO$_2$e

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
- Machine Drive
  - Pumps, Fans, Compressed Air, Materials Handling, Materials Processing, Other Systems

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

Total Greenhouse Gas Emissions: 7.3

Fuel (TBtu = Trillion British Thermal Units)

Greenhouse Gas (GHG) Emissions (MMT CO$_2$e - Million Metric Tons Carbon Dioxide Equivalent)

Combustion

Process

Energy use data source: 2018 EIA MECS (with adjustments)
See webpage for details
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Notes:
Sector-wide aggregate data for year 2018; energy values rounded to nearest whole number; emissions values rounded to nearest tenth

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