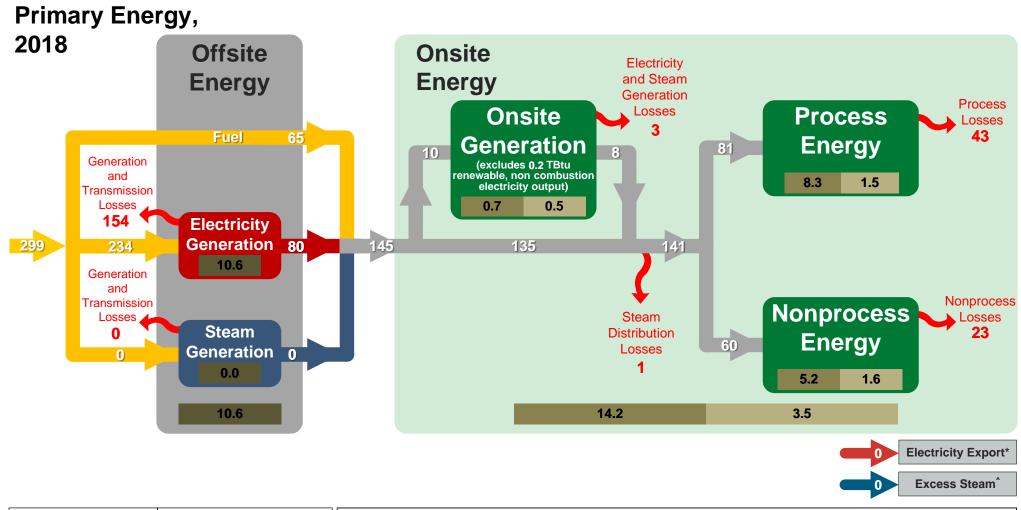
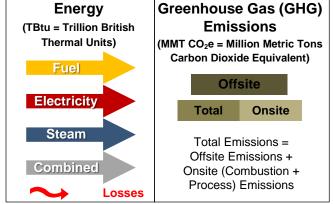
Manufacturing Energy and Carbon Footprint Sector: Machinery (NAICS 333)

Primary Energy Use: 299 TBtu **Total GHG Emissions:** 14 MMT CO₂e





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

visit this webpage

Last Revised: December 2021

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

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 302 TBtu

Includes primary energy plus net energy consumed for nonfuel purposes, including feedstock use

Manufacturing Energy and Carbon Footprint Onsite Energy Use: 145 TBtu Onsite Emissions: 4 MMT CO₂e **Sector: Machinery (NAICS 333) Onsite Energy, Onsite** Nonprocess **Process** 2018 Generation **Energy Energy Process Heating Facility HVAC** Conventional **Boilers** 1.1 1.4 0.2 **Process Cooling Facility Lighting** and Refrigeration CHP/ 1.3 0.0 Cogeneration 0.4 0.0 Other Facility 0.3 0.3 **Other Process Uses Support** 0.3 0.2 Other 0.5 0.0 **Electricity Electro-Chemical Onsite** Generation 0.0 0.0 **Transportation** (excludes 0.2 TBtu % of **Fuel Type** renewable. 0.2 0.1 Total non-combustion **Machine Drive** Natural Gas 91% electricity output) 5 Other HGL (excl. natural 5% 10 **Pumps** gasoline) **Nonprocess** Distillate Fuel Oil 3% 3 Other Fuels 2% 0 0.0 0.0 Fans **Fuel Types** 0.7 0.5 5.2 1.6 **Compressed Air Electricity Export*** 65 5 Materials Handling 80 145 Excess Steam 16 Materials Processing Energy use data source: 2018 EIA MECS (with adjustments); age for details **Greenhouse Gas (GHG)** Energy Other Systems Last Revised: December 2021 **Emissions** (TBtu = Trillion British Steam Distribution Sector-wide aggregate data for year 2018; Thermal Units) (MMT CO₂e = Million Metric Tons 5.9 0.2 energy values and fuel type percentages Losses Carbon Dioxide Equivalent) rounded to nearest whole number Fuel 8.3 1.5 0.0 Total Onsite Process Offsite generation shown on net basis (purchases, sales, and transfers Electricity accounted for) and includes onsite non-Total Emissions = combustion renewable output Offsite Combustion Emissions + Refers to sales and transfers offsite of **Steam** Onsite Combustion Emissions + electricity to utilities and other entities Process Emissions Refers to sales and transfers offsite or Onsite Emissions = Onsite Combined purging of surplus steam

Combustion Emissions +

Process Emissions

Losses

Page 2 of 3

Feedstock energy excluded

Manufacturing Carbon Footprint Sector: Machinery (NAICS 333)

Primary Energy Use: 299 TBtu
Total GHG Emissions: 14 MMT CO₂e

