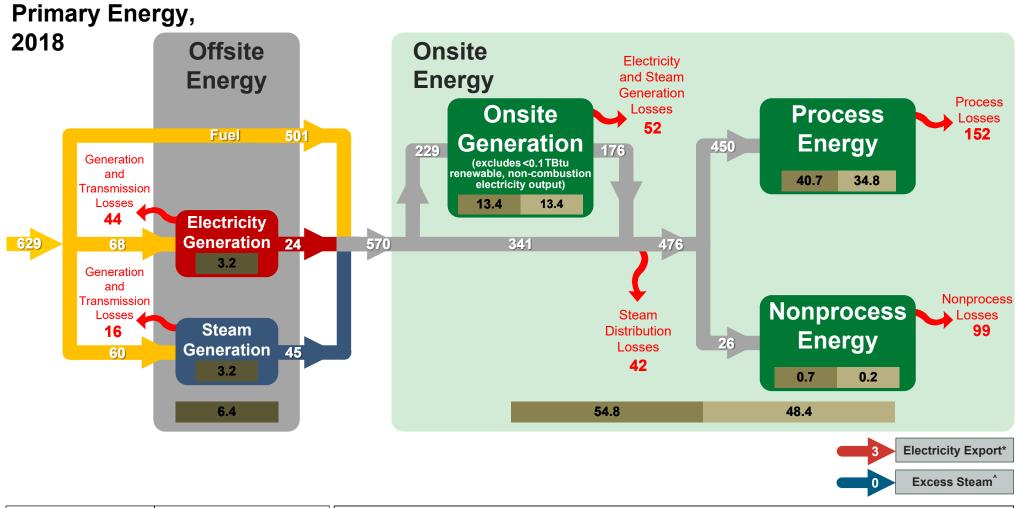
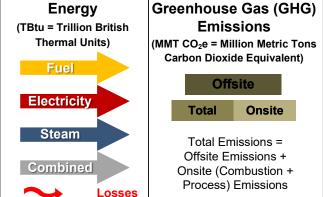
## **Manufacturing Energy and Carbon Footprint** Sector: Petrochemicals (NAICS 325110)

Primary Energy Use: 629 TBtu
Total GHG Emissions: 55 MMT CO<sub>2</sub>e





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

data source: visit this webpage

Last Revised: October 2022

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 1,520 TBtu

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

## **Manufacturing Energy and Carbon Footprint Onsite Energy Use: 570** TBtu **Onsite Emissions:** 48 MMT CO2e **Sector: Petrochemicals (NAICS 325110)** Onsite Energy, **Onsite** Nonprocess **Process** 2018 Generation **Energy** Energy **79 Process Heating Facility HVAC** Conventional **Boilers** <del>78</del> 12.5 0.1 14.8 5.7 **Process Cooling** 66 **Facility Lighting** 35 CHP/ and Refrigeration 0.0 0.0 <u> 14</u> Cogeneration 1.0 0.4 86 **Other Facility** 25 7.7 **Other Process Uses Support** 1.6 Other 0.0 0.0 % of **Fuel Type Electricity Total Electro-Chemical Onsite** 61% Natural Gas Generation **Transportation** 0.0 0.0 Waste Gas (excludes < 0.1 TBtu 31% (byproduct fuel) renewable. 0.0 0.0 Distillate Fuel Oil < 1% non-combustion **Machine Drive** electricity output) HGL (excl. natural 10 < 1% Other gasoline) 18 **Pumps Pulping liquor or Nonprocess** < 1% black liquor Other Fuels 7% 0.2 0.1 12 **Fans Fuel Types** 66 13.4 13.4 0.7 0.2 **Compressed Air Electricity Export\*** 501 2 Materials Handling 24 24 Excess Steam 45 20 Materials Processing Energy use data source: 2018 EIA MECS (with adjustments); See webpage for details **Greenhouse Gas (GHG)** Energy 42 **Other Systems** Last Revised: October 2022 **Emissions** (TBtu = Trillion British Steam Distribution Sector-wide aggregate data for year 2018; Thermal Units) (MMT CO2e = Million Metric Tons 3.6 0.9 energy values and fuel type percentages Losses Carbon Dioxide Equivalent) rounded to nearest whole number Fuel 40.7 34.8 19.4 **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

Combustion Emissions +

Process Emissions

Combined

Losses

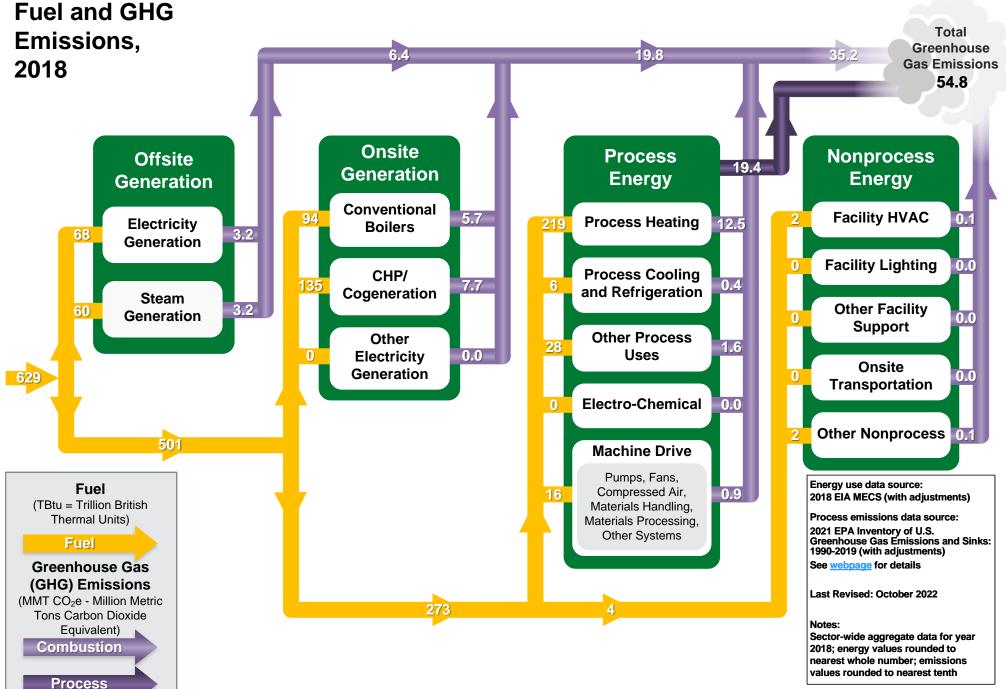
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purging of surplus steam

Feedstock energy excluded

## Manufacturing Carbon Footprint Sector: Petrochemicals (NAICS 325110)

Primary Energy Use: 629 TBtu
Total GHG Emissions: 55 MMT CO<sub>2</sub>e



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