Primary Energy Use:
526 TBtu
Total Combustion Emissions:
28 MMT CO₂e

Energy for All Purposes estimated at 530 TBtu
Includes primary energy plus net energy consumed for nonfuel purposes, including feedstock use

Notes:
Sector-wide aggregate data for year 2014; 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

Energy use:

Last Revised: September 2018

Prepared for the U.S. Department of Energy, Advanced Manufacturing Office by Energetics
Onsite Energy, 2014

Onsite Energy Use:

- 232 TBtu
- 4 MMT CO₂e

Fuel Types
- % of Total
  - Natural Gas: 95%
  - Distillate and Residual Fuel Oils: 4%
  - HGL (excl. natural gasoline): 1%
  - Other Fuels: 2%

Onsite Generation
- Conventional Boilers: 0.9 TBtu
- CHP/Cogeneration: 0.3 TBtu
- Other Electricity Generation: 1.2 TBtu

Process Energy
- Process Heating: 5.0 TBtu
- Process Cooling and Refrigeration: 2.6 TBtu
- Other Process Uses: 1.7 TBtu
- Electro-Chemical: 1.0 TBtu
- Machine Drive: 3.8 TBtu
- Pumps: 6.0 TBtu
- Fans: 3.6 TBtu
- Compressed Air: 6.0 TBtu
- Materials Handling: 4.8 TBtu
- Materials Processing: 3.5 TBtu
- Other Systems: 0.0 TBtu

Nonprocess Energy
- Facility HVAC: 6.8 TBtu
- Facility Lighting: 2.3 TBtu
- Other Facility Support: 1.2 TBtu
- Onsite Transportation: 0.0 TBtu
- Other Nonprocess: 0.4 TBtu

Total Emissions = Offsite Emissions + Onsite Emissions

Notes:
- Sector-wide aggregate data for year 2014;
- Energy values and fuel type percentages rounded to nearest whole number;
- Offsite generation shown on net basis (purchases, sales, and transfers accounted for) and includes onsite non-combustion renewable output;
- * Refers to sales and transfers offsite of electricity to utilities and other entities;
- Feedstock energy excluded.

Energy use data source:
- 2014 EIA MECS (with adjustments); see page 1 of 2 for reference link.

Last Revised: September 2018

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