Onsite Energy and Carbon Footprint

Sector: Iron and Steel (NAICS 331110, 3312)

Primary Energy Use: 1,524 TBtu
Total Combustion Emissions: 62 MMT CO₂e

Primary Energy, 2014

- Offsite Energy
  - Fuel: 851 TBtu
  - Electricity: 663 TBtu
  - Steam: 11 TBtu

- Onsite Energy
  - Electricity Generation: 35.7 TBtu
  - Steam Generation: 0.6 TBtu
  - Onsite Generation (excludes 0.1 TBtu renewable, non-combustion electricity output):
    - Electricity and Steam Generation Losses: 49 TBtu
    - Steam Distribution Losses: 32 TBtu

- Process Energy
  - Process Losses: 418 TBtu

- Nonprocess Energy
  - Nonprocess Losses: 36 TBtu

- Total Emissions = Offsite Emissions + Onsite Emissions

- Total Combustion Emissions:
  - 1,084 TBtu (Offsite)
  - 869 TBtu (Onsite)

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 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 for All Purposes estimated at 1,599 TBtu
Includes primary energy plus net energy consumed for nonfuel purposes, including feedstock use


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