Manufacturing Energy and Carbon Footprint
Sector: Cement (NAICS 327310)

Total Primary Energy Use: 471 TBtu
Total Combustion Emissions: 39 MMT CO₂e

Total Energy

Onsite Energy

- Onsite Generation: 367 TBtu
  - Electricity: 345 TBtu
  - Steam: 26 TBtu

- Offsite Energy
  - Electricity Generation: 341 TBtu
    - Generation and Transmission Losses: 89 TBtu
  - Steam Generation: 0 TBtu

Process Energy

- Process Energy: 353 TBtu
  - Process Losses: 154 TBtu

Nonprocess Energy

- Nonprocess Energy: 14 TBtu
  - Nonprocess Losses: 5 TBtu

Losses

- Total Losses: 41 TBtu
  - Offsite: 41 TBtu
  - Onsite: 0 TBtu

Combustion Emissions

- Total Emissions: 38.6 TBtu
  - Offsite Emissions: 30.8 TBtu

Energy Use (TBtu = Trillion British Thermal Units)

- Fuel
- Electricity
- Steam
- Total

Combustion Emissions (MMT CO₂e = Million Metric Tons Carbon Dioxide Equivalent)

- Offsite
- Total
- Onsite

Total Emissions = Offsite Emissions + Onsite Emissions

Electricity Export

Notes:
- Feedstock energy not included
- Energy values <0.5 TBtu shown as 0
- Values represent aggregate data
- Offsite generation shown on net basis

Energy data source: 2006 MECS (with adjustments)
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Prepared for the Advanced Manufacturing Office (AMO) by Energetics Incorporated