Total Energy

Offsite Energy

Fuel 2,398

Electricity Generation 338

Steam Generation 63

Generation and Transmission Losses 731

Generation and Transmission Losses 23

70.0

Onsite Energy

Electricity and Steam Generation Losses 508

Steam Distribution Losses 300

Onsite Generation 2,099

700

1,593

1,991

Electricity Export 20

Nonprocess Energy

Process Energy

Process Losses* 493

Nonprocess Losses 73

1,829

162

10.6

3.1

68.4

Total Energy Use: 3,553 TBtu
Total Combustion Emissions: 138 MMT CO₂e

* Exhaust losses from process heating are not estimated

Data source: 2006 MECS
Published: August 2010, revised December 2010
Units: TBtu = Trillion British Thermal Units
MMT CO₂e = Million Metric Tons Carbon Dioxide Equivalent
Notes: Feedstock energy not included
Energy values <0.5 TBtu shown as 0

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### Onsite Energy

#### Onsite Generation
- **Conventional Boilers**: 13.0 TBtu
- **CHP/Cogeneration**: 39.0 TBtu
- **Other Electricity Generation**: 0.2 TBtu

#### Process Energy
- **Process Heating**: 21.3 TBtu
- **Process Cooling and Refrigeration**: 1.1 TBtu
- **Other Process Uses**: 1.0 TBtu
- **Electro-Chemical**: 0.6 TBtu
- **Machine Drive**: 51.7 TBtu

#### Nonprocess Energy
- **Facility HVAC**: 4.7 TBtu
- **Facility Lighting**: 3.3 TBtu
- **Other Facility Support**: 0.9 TBtu
- **Onsite Transportation**: 1.8 TBtu
- **Other Nonprocess**: 0.1 TBtu

#### Fuel Types (% of Total)
- Pulping Liquor or Black Liquor (byproduct fuel): 35%
- Biomass: 24%
- Natural Gas: 23%
- Coal: 12%
- Distillate and Residual Fuel Oils: 5%
- Waste Oils/Tars and Waste Materials (byproduct fuel): 1%
- Petroleum Coke (byproduct fuel): 1%
- LPG and NGL: <0.5%
- Other Fuels: <0.5%

#### Energy Use (TBtu)
- **All Energy**: 2,799 TBtu
- **Fuel**: 2,398 TBtu
- **Electricity**: 63 TBtu
- **Steam**: 311 TBtu
- **Steam Distribution**: 484 TBtu

#### Combustion Emissions (MMT CO₂e)
- **Total**: 68 MMT CO₂e
  - Onsite: 63 MMT CO₂e
  - Offsite: 5 MMT CO₂e

#### Data Source
- 2006 MECS

#### Notes
- Feedstock energy not included
- Energy values <0.5 TBtu shown as 0

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*Exhaust losses from process heating are not estimated
**Onsite, renewable, non-combustion generation contributes 3 TBtu

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