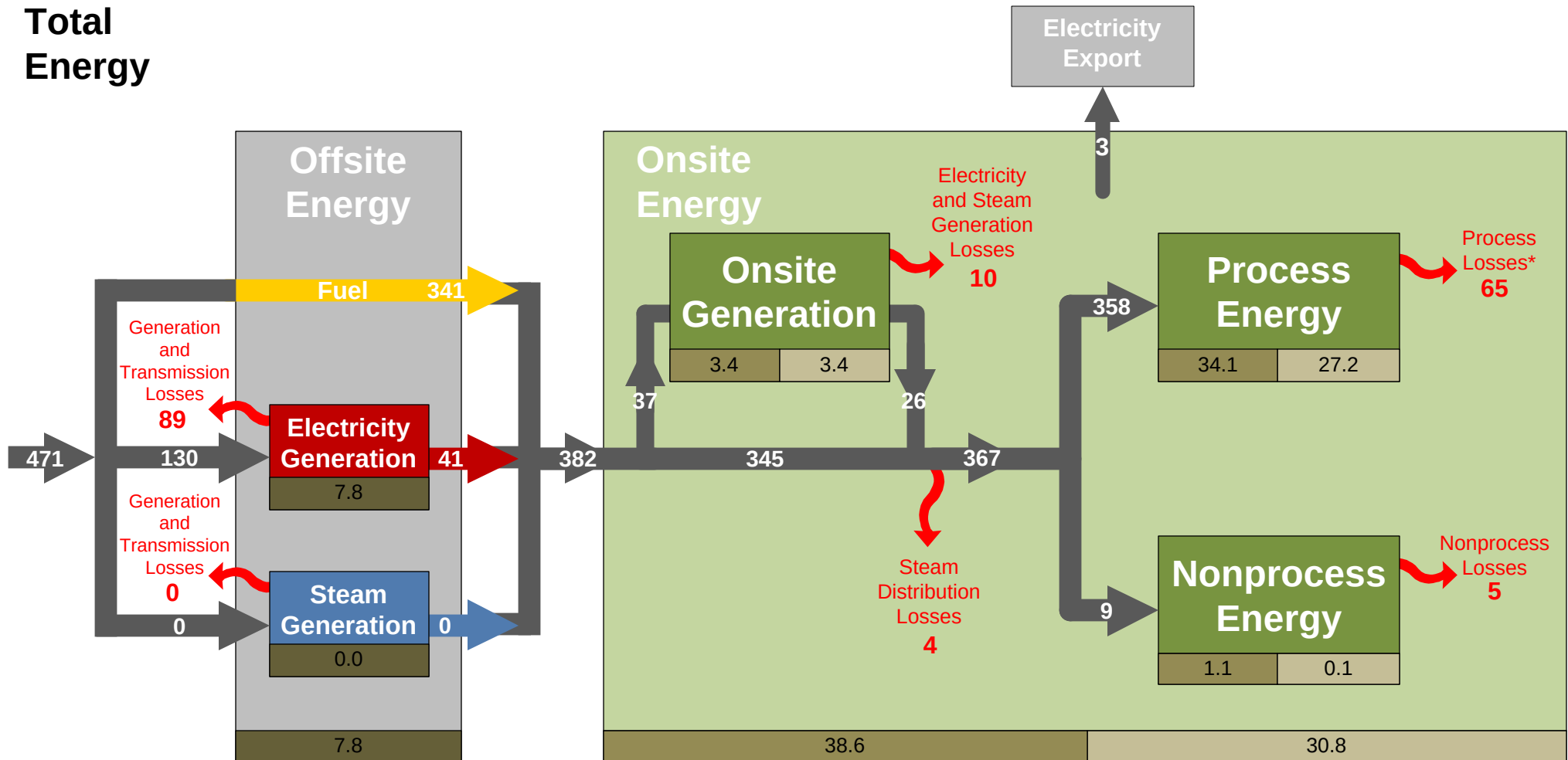


Manufacturing Energy and Carbon Footprint

Sector: Cement (NAICS 327310)

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

Total Energy



Energy Use (TBtu)	All Energy
	Fuel
	Electricity
	Steam
	Losses
Combustion Emissions (MMT CO ₂ e)	Offsite
	Onsite
	Total
Total = Onsite + Offsite	

* 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

Manufacturing Energy and Carbon Footprint

Sector: Cement (NAICS 327310)

Onsite Energy Use: 382 TBtu
Onsite Combustion Emissions: 31 MMT CO₂e

Onsite Energy

Onsite Generation

Conventional Boilers

0.0 0.0

CHP/ Cogeneration

3.4 3.4

Other Electricity Generation**

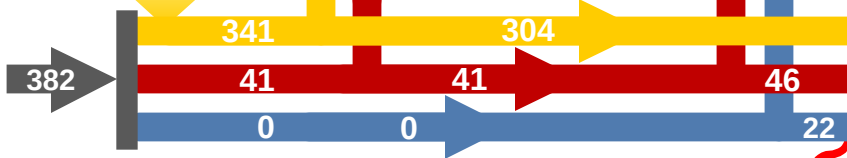
0.0 0.0

3.4 3.4

Steam Generation 9
Electricity Generation 2

Fuel Type	% of Total
Coal	69%
Petroleum Coke (byproduct fuel)	15%
Natural Gas	6%
Waste Oils/Tars and Waste Materials (byproduct fuel)	5%
Distillate and Residual Fuel Oils	1%
Coke and Breeze	1%
LPG and NGL	< 0.5%
Other Fuels	3%

Fuel Types



Process Energy

Process Heating

27.7 27.0

Process Cooling and Refrigeration

0.0 0.0

Other Process Uses

0.2 0.0

Electro-Chemical

0.0 0.0

Machine Drive

6.2 0.2

Machine-Driven Systems

Pumps	3
Fans	6
Compressed Air	6
Materials Handling	19
Materials Processing	5
Other Systems	0
	34.1
	27.2

Exhaust Losses*

Nonprocess Energy

Facility HVAC

0.4 0.0

Facility Lighting

0.4 0.0

Other Facility Support

0.2 0.0

Onsite Transportation

0.1 0.1

Other Nonprocess

0.0 0.0

1.1 0.1

Electricity Export

Energy Use (TBtu)

All Energy
Fuel
Electricity
Steam
Losses

Combustion Emissions (MMT CO₂e)

Offsite
Onsite
Total

Total = Onsite + Offsite

* Exhaust losses from process heating are not estimated

** Onsite, renewable, non-combustion generation contributes 0 TBtu

Data source: 2006 MECS

Published: August 2010, revised December 2010

Units:

TBtu = Trillion British Thermal Units

MMT CO₂e = Million Metric Tons Carbon Dioxide Equivalent

Feedstock energy not included

Energy values <0.5 TBtu shown as 0

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