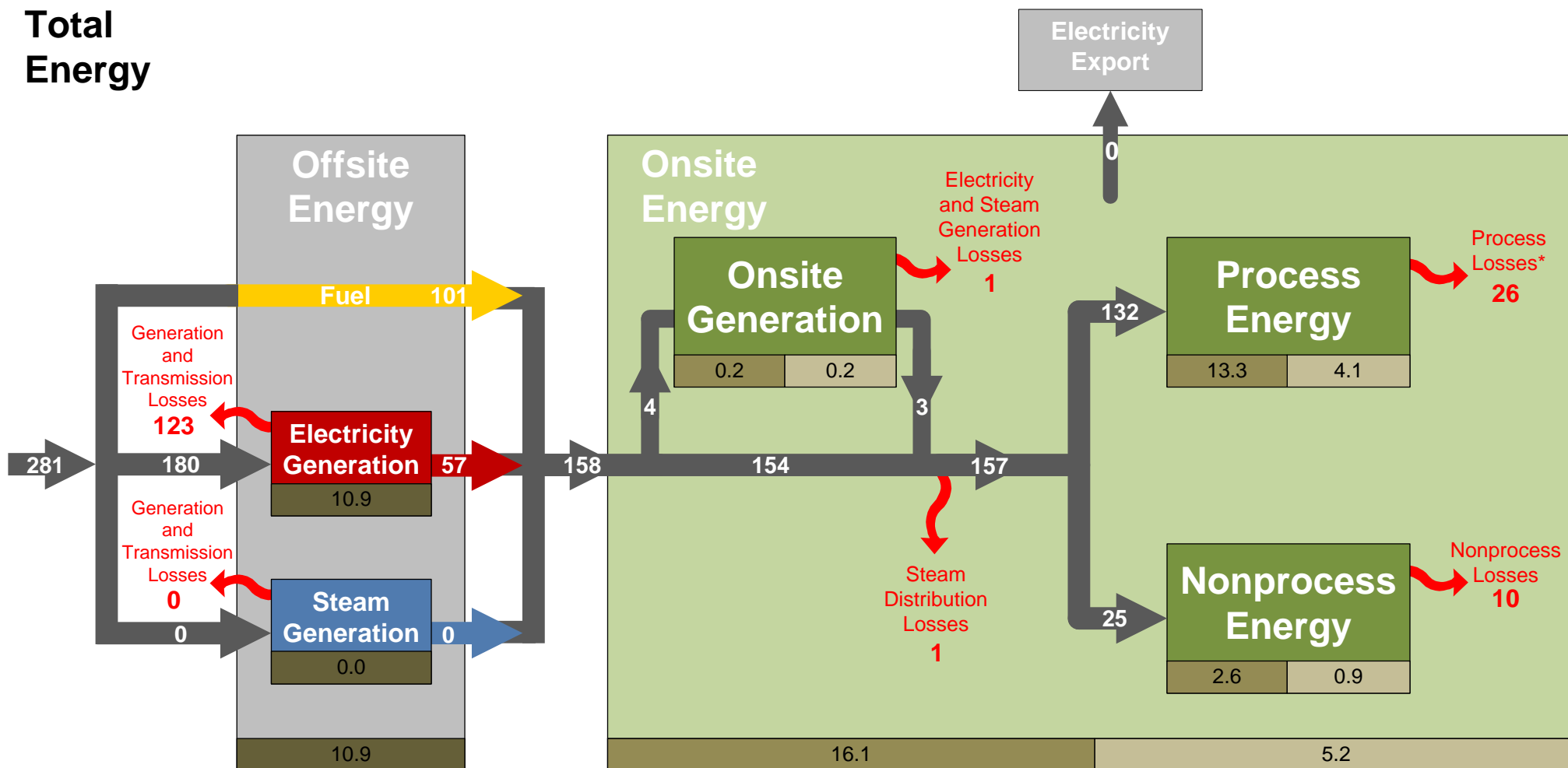


Manufacturing Energy and Carbon Footprint

Sector: Foundries (NAICS 3315)

Total Primary Energy Use: 281 TBtu
Total Combustion Emissions: 16 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: Foundries (NAICS 3315)

Onsite Energy Use: 158 TBtu
Onsite Combustion Emissions: 5 MMT CO₂e

Onsite Energy

Onsite Generation

Conventional Boilers

0.2 0.2

CHP/ Cogeneration

0.0 0.0

Other Electricity Generation**

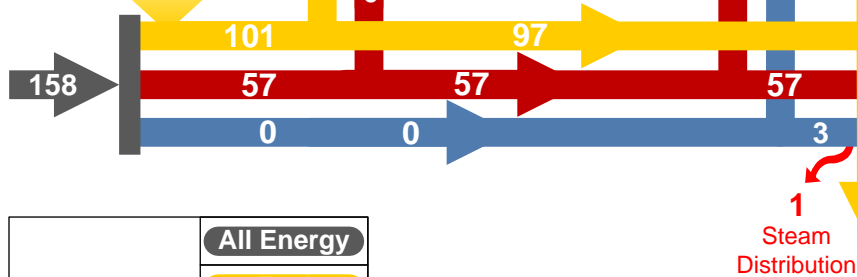
0.0 0.0

0.2 0.2

Steam Generation 1
Electricity Generation 0

Fuel Type	% of Total
Natural Gas	71%
Coke and Breeze	12%
Petroleum Coke (byproduct fuel)	7%
Distillate and Residual Fuel Oils	1%
LPG and NGL	1%
Other Fuels	8%

Fuel Types



Process Energy

Process Heating

9.0 4.0

Process Cooling and Refrigeration

0.2 0.0

Other Process Uses

0.2 0.1

Electro-Chemical

0.4 0.0

Machine Drive

3.5 0.1

Machine-Driven Systems

Pumps	2
Fans	3
Compressed Air	3
Materials Handling	9
Materials Processing	2
Other Systems	0

13.3 4.1

Exhaust Losses*

Nonprocess Energy

Facility HVAC

1.7 0.7

Facility Lighting

0.6 0.0

Other Facility Support

0.2 0.1

Onsite Transportation

0.1 0.1

Other Nonprocess

0.0 0.0

2.6 0.9

7

3

0

1

0

Electricity Export 0

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

Notes:

Feedstock energy not included

Energy values <0.5 TBtu shown as 0

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