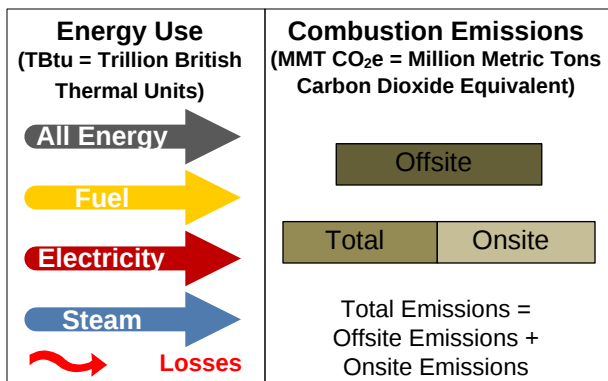
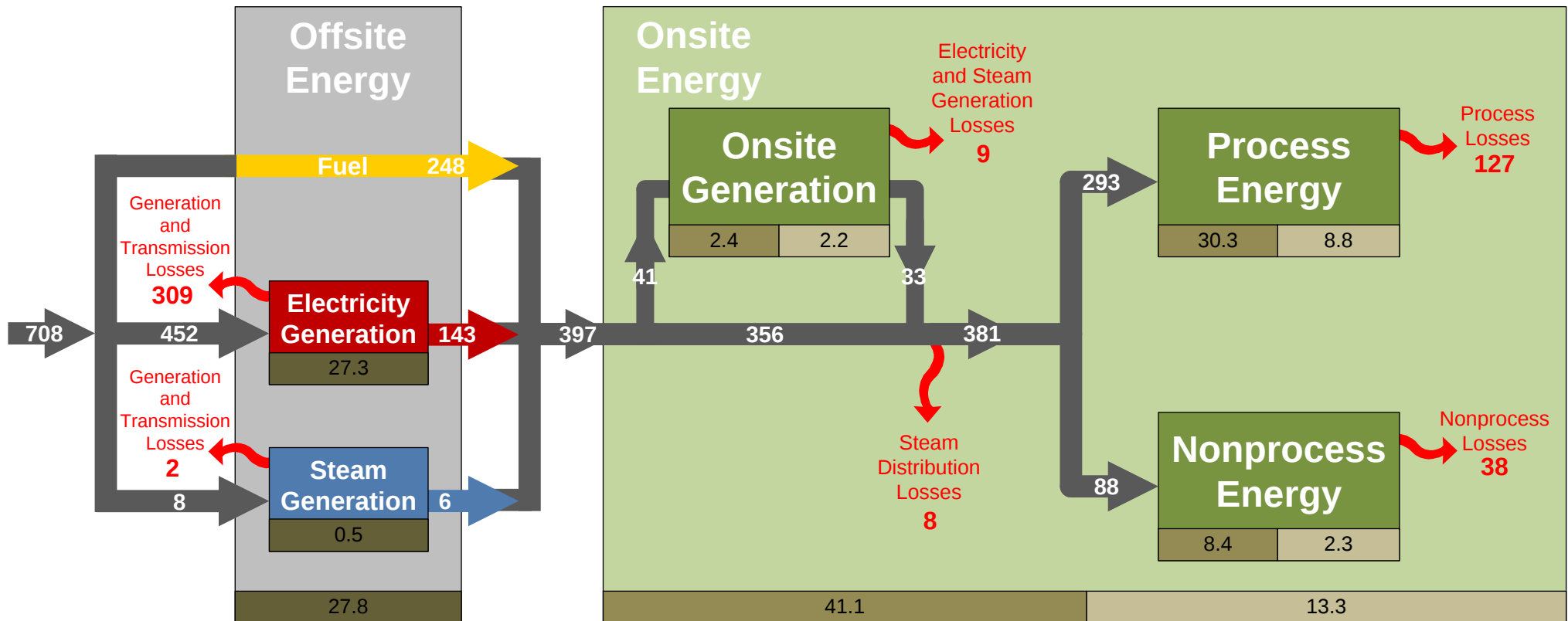


Manufacturing Energy and Carbon Footprint

Sector: Fabricated Metals (NAICS 332)

Total Primary Energy Use: 708 TBtu
Total Combustion Emissions: 41 MMT CO₂e

Total Energy



0 Electricity Export

Energy use data source: 2006 MECS (with adjustments)
Last Revised: October 2012
Notes: Feedstock energy not included
Energy values <0.5 TBtu shown as 0
Values represent aggregate data
Offsite generation shown on net basis

Manufacturing Energy and Carbon Footprint

Sector: Fabricated Metals (NAICS 332)

Onsite Energy Use: 397 TBtu
Onsite Combustion Emissions: 13 MMT CO₂e

Onsite Energy

Onsite Generation

Conventional Boilers

2.1	1.9
-----	-----

CHP/ Cogeneration

0.2	0.2
-----	-----

Other Electricity Generation*

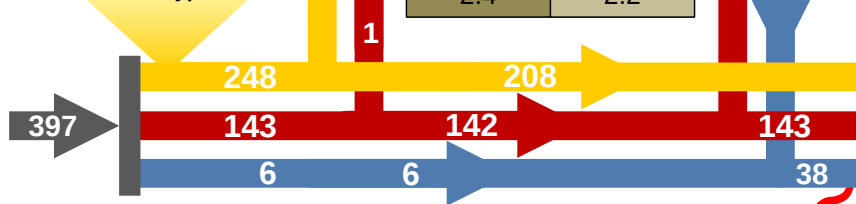
0.0	0.0
-----	-----

2.4	2.2
-----	-----

Steam Generation Losses 8
Electricity Generation Losses 0

Fuel Type	% of Total
Natural Gas	97%
LPG and NGL	2%
Distillate and Residual Fuel Oils	1%
Waste Gas (byproduct fuel)	1%
Other Fuels	< 0.5%

Fuel Types



Process Energy

Process Heating

14.2	8.6
------	-----

Process Cooling and Refrigeration

1.0	0.1
-----	-----

Other Process Uses

0.9	0.1
-----	-----

Electro-Chemical

0.6	0.0
-----	-----

Machine Drive

13.6	0.1
------	-----

Machine-Driven Systems

Pumps	15
Fans	11
Compressed Air	12
Materials Handling	8
Materials Processing	24
Other Systems	3

30.3	8.8
------	-----

Nonprocess Energy

Facility HVAC

4.9	2.0
-----	-----

Facility Lighting

2.6	0.0
-----	-----

Other Facility Support

0.7	0.1
-----	-----

Onsite Transportation

0.2	0.2
-----	-----

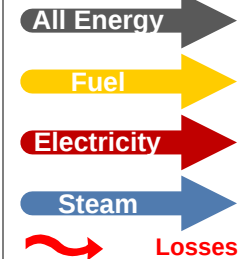
Other Nonprocess

0.0	0.0
-----	-----

8.4	2.3
-----	-----

Electricity Export 0

Energy Use (TBtu = Trillion British Thermal Units)



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

Total	Onsite
-------	--------

Total Emissions = Offsite Emissions + Onsite Emissions

Energy use data source: 2006 MECS (with adjustments)

Last Revised: October 2012

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

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