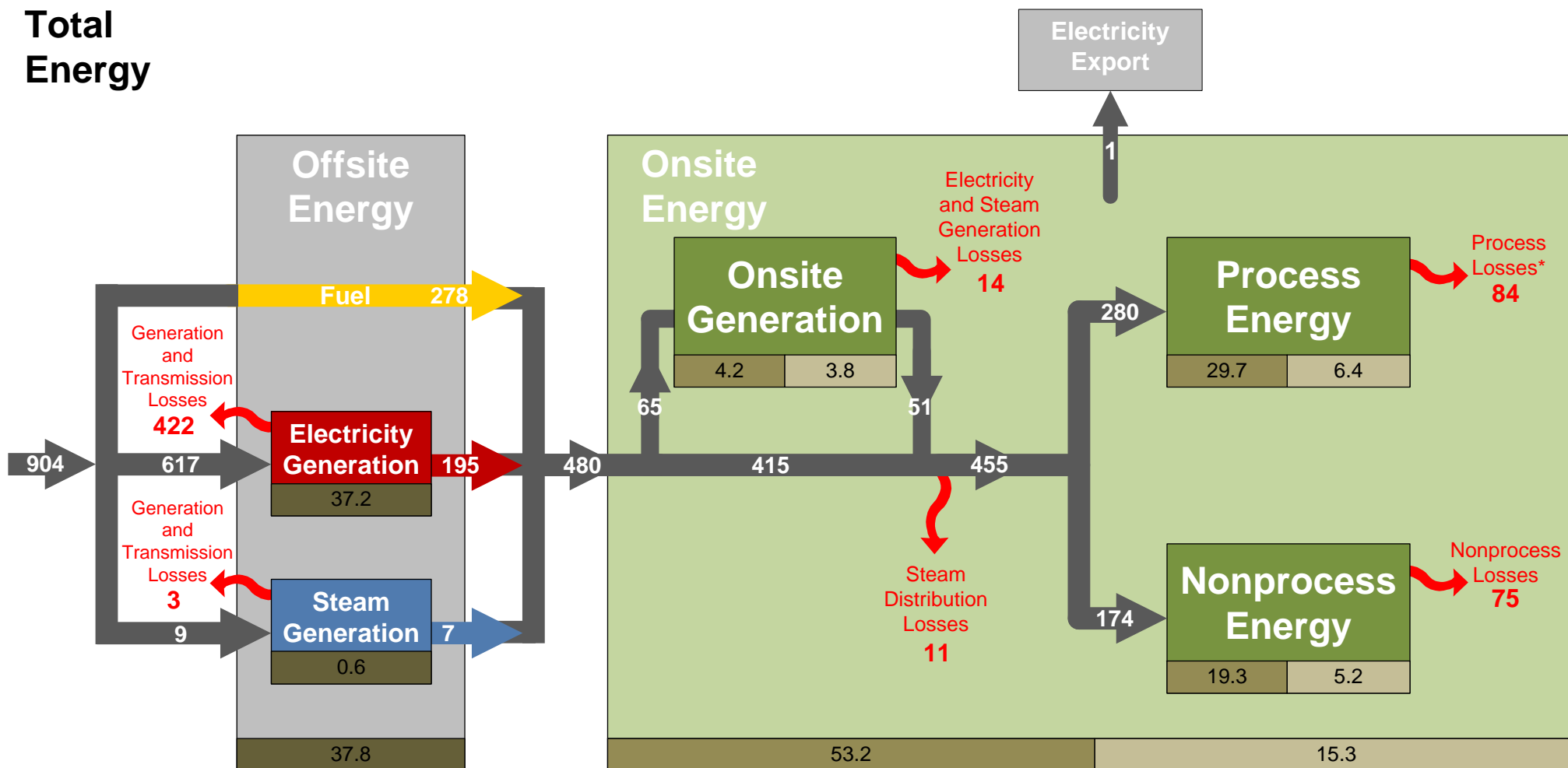


# Manufacturing Energy and Carbon Footprint

## Sector: Transportation Equipment (NAICS 336)

Total Primary Energy Use: 904 TBtu  
Total Combustion Emissions: 53 MMT CO<sub>2</sub>e

### Total Energy



Energy Use (TBtu)	All Energy
	Fuel
	Electricity
	Steam
	Losses
Combustion Emissions (MMT CO <sub>2</sub> 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 CO<sub>2</sub>e = 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: Transportation Equipment (NAICS 336)

Onsite Energy Use: 480 TBtu  
Onsite Combustion Emissions: 15 MMT CO<sub>2</sub>e

### Onsite Energy

### Onsite Generation

#### Conventional Boilers

3.2 2.8

#### CHP/ Cogeneration

1.0 1.0

#### Other Electricity Generation\*\*

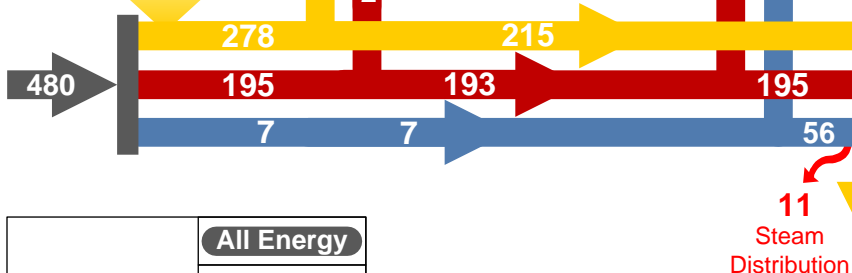
0.0 0.0

4.2 3.8

Steam Generation 14  
Electricity Generation 1

Fuel Type	% of Total
Natural Gas	90%
Distillate and Residual Fuel Oils	4%
Coal	2%
Waste Gas (byproduct fuel)	2%
Waste Oils/Tars and Waste Materials (byproduct fuel)	1%
LPG and NGL	1%
Other Fuels	< 0.5%

#### Fuel Types



### Process Energy

#### Process Heating

9.6 4.2

#### Process Cooling and Refrigeration

2.4 0.1

#### Other Process Uses

2.8 1.8

#### Electro-Chemical

0.4 0.0

#### Machine Drive

14.5 0.3

#### Machine-Driven Systems

Pumps	17
Fans	12
Compressed Air	13
Materials Handling	9
Materials Processing	28
Other Systems	4
	29.7
	6.4

Exhaust Losses\*

### Nonprocess Energy

#### Facility HVAC

11.8 4.7

#### Facility Lighting

5.4 0.0

#### Other Facility Support

1.6 0.2

#### Onsite Transportation

0.5 0.3

#### Other Nonprocess

0.2 0.0

19.3 5.2

Electricity Export 1

Energy Use (TBtu)	All Energy
	Fuel
	Electricity
	Steam
Combustion Emissions (MMT CO <sub>2</sub> e)	Losses
	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 CO<sub>2</sub>e = Million Metric Tons Carbon Dioxide Equivalent

Notes:

Feedstock energy not included

Energy values <0.5 TBtu shown as 0