SEMASS TTF

2023 Facility Performance

Reworld

Landfill Diversion

1.06M
tons of MSW processed

Enough to fill
2
TD Garden Arenas

Or
128,700
garbage trucks, bumper to bumper

Energy Recovery

594,000
MWh net electricity export

Enough to power
55,000
homes for 1 year

Or, charge
137,000
Electric vehicles for 1 year

Metal Recycling

32,000
tons of ferrous metals

5,600
tons of non-ferrous metals

Equivalent to:
27,000
cars recovered from steel

383M
aluminum cans

Paperclip chain wrapped around the earth
49 times

Energy savings from avoided metal mining:
11.3M
gallons of gasoline

From Reworld SEMASS

to Buffalo, NY

Net Greenhouse Gas (GHG) Avoidance

2.3 tons
of net CO_2e avoided* for every ton of waste diverted from landfill

2.2M
metric tons of GHGs avoided

Equivalent to removing/displacing:

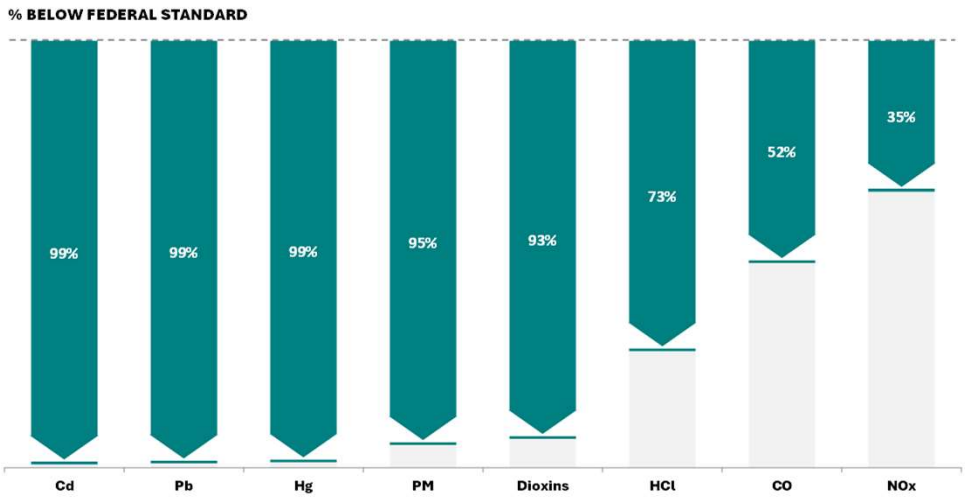
548,000
Vehicles from roads

2.75B
Pounds of coal

Environmental Compliance

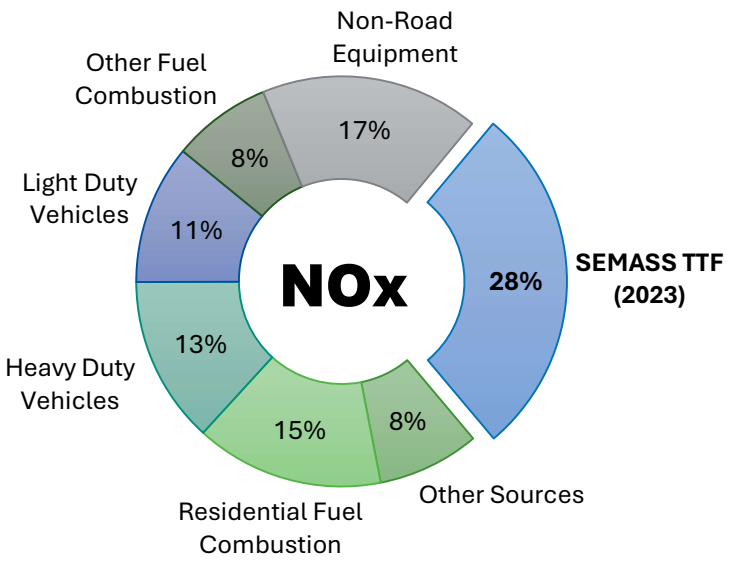
up to
99% below
Federal emissions standards, based on annual averages**

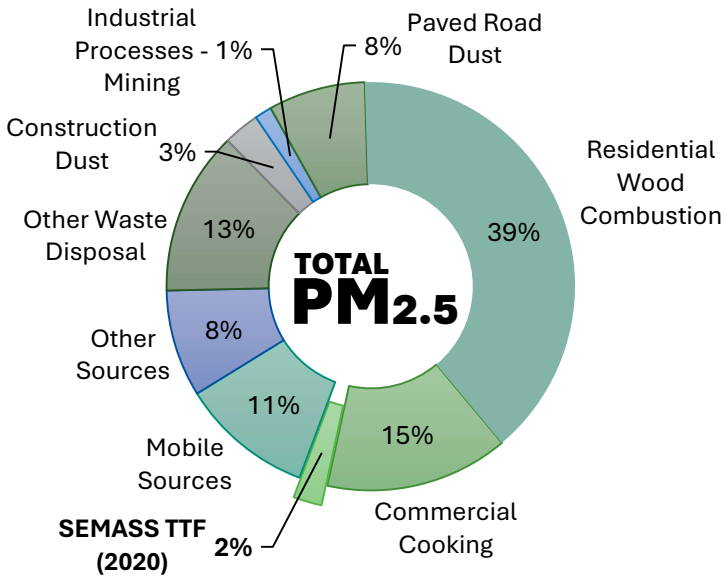
100% compliant
with Continuous Emissions Monitoring (CEMS) standards

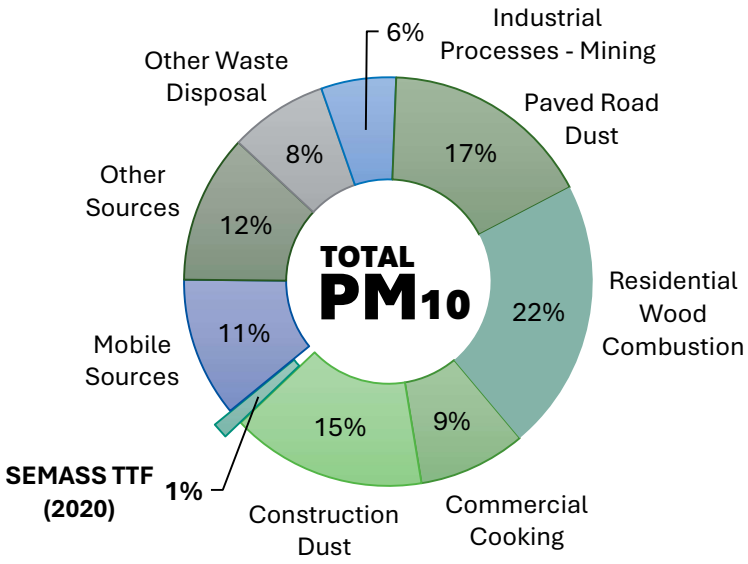


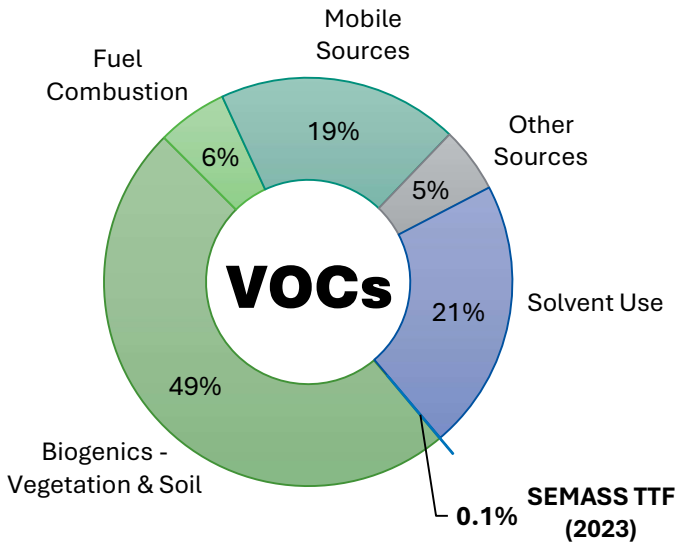
How Do Our Emissions Compare to Other Sources in the County?

Local air emissions*** in Plymouth County, MA









* GHGs are represented in CO_2 equivalents (CO_2e) using global warming potentials (GWPs) to compare the warming power of different gases. This analysis uses the 20-yr GWP for methane of 81 from the IPCC's 6th assessment report. TTFs in the U.S. reduce lifecycle emissions by an average of 2.4 tons of CO_2e per ton of MSW diverted from landfills. The data presented here reflects facility-specific operating data and the local electrical grid, which can differ from the national average.

** 2021-2023 Average Annual Emissions compared to federal guidelines for existing facilities (40 CFR 60 Subpart Cb). Facility may be subject to more stringent requirements by permit or in accordance with other federal guidelines. 2023 SO_2 compliance at SEMASS TTF was met on a percent removal basis.

*** Based on the 2020 US EPA National Emissions Inventory; the most recently released complete inventory. Where available, the facility's 2020 emissions were replaced with the most recently reported 2023 emissions.