Covanta Haverhill
2018 Facility Performance

Metal Recovery

The metal recovered in 2018 is equivalent to:

- **9 thousand** cars from recovered steel
- **193 million** aluminum cans
- Energy savings equivalent to **4.9 million gallons of gasoline**

Net GHG Reduction

Compared to Landfilling, 1 Ton of MSW processed
Reduces lifecycle emissions* by **0.92 Tons of Net CO2e**

In 2018, the plant **avoided emissions** equivalent to:

- **105 thousand** passenger vehicles driven for 1 Year
- Burning **540 million** pounds of coal

* Life Cycle calculations are based on facility operating data, local electrical grid, and U.S. national average landfill practices

Average Annual Facility Emissions

2016-2018 EfW Emissions Compared to Federal Standards

Covanta Haverhill operates up to **99% below** federal emissions standards

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.

Electricity Generation

The electricity produced at the plant:

- Provides electricity for **31 thousand** homes for 1 Year
- Or-
- Can fully charge a Tesla Model S vehicle **3.4 million** times

Learn more through our online sustainability report! [covanta-csr.com]
How Do Our Emissions Compare to Other Sources in the County?
Local air emissions* in Essex County, MA

**Percentage of hours in compliance with CEMS emissions standards**

- NOx
  - On-road Vehicles: 31%
  - Commercial Fuel Combustion: 7%
  - Residential Fuel Combustion: 8%
  - Waste Disposal: 9%
  - Other Sources: 6%
  - Covanta Haverhill 2018: 32%

- SOx
  - Electric Generation: 50%
  - Other Sources: 8%
  - Waste Disposal: 5%
  - Mobile Sources: 29%
  - Residential Fuel Combustion: 29%
  - Other Mobile Sources: 3%
  - Covanta Haverhill 2018: 3%

EfW Continuous Emission Monitoring Compliance Performance**

- 99.90%
- 2018

TOTAL PM10
- Mobile Sources: 28%
- Residential Wood Combustion: 25%
- Other Stationary Combustion: 14%
- Commercial Cooking: 17%
- Residential Wood Combustion: 14%
- Waste Disposal: 14%
- Other Sources: 12%
- Commercial Fuel Combustion: 9%
- On-Road Vehicles: 7%
- Other Mobile Sources: 7%
- Covanta Haverhill 2014: 0.06%

VOC
- Solvent Use: 32%
- Biogenic Sources: 29%
- Other Sources: 8%
- Stationary Combustion: 4%
- Other Mobile Sources: 15%
- Covanta Haverhill 2014: 0.07%

(excluding dust sources, which are 67% of total inventory)

* Based on the 2014 US EPA National Emissions Inventory; the most recently released complete inventory.
Where available, the facility’s 2014 emissions were replaced with the reported 2018 emissions.
** Percentage of hours in compliance with CEMS emissions standards