Metal Recovery

The metal recovered in 2018 is equivalent to:

- **5 thousand** cars from recovered steel
- **29 thousand** passenger vehicles driven for 1 Year
- **0.87** Tons of Net CO2e
- **A paper clip chain that wraps around the Earth 8 times**
- **Energy savings equivalent to 850 thousand** gallons of gasoline

Net GHG Reduction

Compared to Landfilling, 1 Ton of MSW processed reduces lifecycle emissions* by 0.87 Tons of Net CO2e.

In 2018, the plant avoided emissions equivalent to:

- **29 thousand** passenger vehicles driven for 1 Year
- **Burning 151 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 MacArthur 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 **5.2 thousand** homes for 1 Year
- OR - Can fully charge a Tesla Model S vehicle **557 thousand** 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 Suffolk County, NY

**EfW Continuous Emission Monitoring Compliance Performance**

- **NOx**
  - Covanta MacArthur 2018: 1%
  - Other Mobile Sources: 28%
  - Residential Fuel Combustion: 7%
  - On-road Diesel Vehicles: 22%
  - Electric Generation: 6%
  - On-road Gasoline Vehicles: 27%

- **SOx**
  - Covanta MacArthur 2018: 0.5%
  - Commercial Fuel Combustion: 16%
  - Industrial Fuel Combustion: 5%
  - Mobile Sources: 8%
  - Other Sources: 9%
  - Electric Generation: 62%

- **PM10**
  - Covanta MacArthur 2014: 0.001%
  - Construction Dust: 24%
  - Other Mobile Sources: 19%
  - Residential Fuel Combustion: 7%
  - On-road Vehicles: 14%
  - Paved & Unpaved Road Dust: 32%

- **VOC**
  - Covanta MacArthur 2014: 0.01%
  - Other Mobile Sources: 17%
  - On-Road Vehicles: 17%
  - Solvent Use: 29%
  - Biogenic Sources: 26%
  - Other Sources: 11%

* 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

**UPDATED: 12/13/19**