**Metal Recovery**

The metal recovered in 2018 is equivalent to:
- **10 thousand** cars from recovered steel
- Energy savings equivalent to **1.9 million** gallons of gasoline
- **1 Ton of MSW processed** reduces lifecycle emissions* by **0.88 Tons of Net CO2e**
- A paper clip chain that wraps around the Earth **18 times**

**Net GHG Reduction**

Compared to Landfilling, 1 Ton of MSW processed reduces lifecycle emissions* by 0.88 Tons of Net CO2e

In 2018, the plant avoided emissions equivalent to:
- **59 thousand** passenger vehicles driven for 1 Year
- **305 million** pounds of coal
- **10 thousand** cars from recovered steel

* 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 Alexandria 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 **16 thousand** homes for 1 Year
- Can fully charge a Tesla Model S vehicle **1.7 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 Alexandria City, VA

- **NOx**
  - Stationary Combustion: 25%
  - Other Mobile Sources: 11%
  - Other Sources: 1%
  - Covanta Alexandria 2018: 21%
  - On-Road Diesel Vehicles: 27%
  - On-Road Gasoline Vehicles: 21%

- **SOx**
  - Commercial & Industrial Combustion: 31%
  - Other Mobile Sources: 6%
  - Other Sources: 10%
  - Covanta Alexandria 2018: 41%
  - Residential Fuel Combustion: 41%

**EfW Continuous Emission Monitoring Compliance Performance**

2018

- **PM10**
  - Commercial Cooking: 14%
  - Commercial & Industrial Combustion: 16%
  - Other Mobile Sources: 6%
  - Other Sources: 7%
  - Paved Road Dust: 28%
  - On-Road Vehicles: 28%

- **VOC**
  - Biogenic Sources (vegetation & soil): 36%
  - Solvent Use: 32%
  - Gas Stations: 3%
  - On-road Vehicles: 17%
  - Other Mobile Sources: 8%
  - Other Sources: 4%

*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**