Covanta Tulsa
2021 Facility Performance

Landfill Diversion

35,600 garbage trucks diverted from landfill

135 miles bumper to bumper

Covanta Tulsa [Round Trip] Stillwater

Electric Generation

Covanta Tulsa

1.3 billion pounds of steam → Steam is used by **Holly Frontier, Inc.** for their refining processes

10 thousand kWh of electricity → Enough to power **1,000** homes for a year

Metal Recovery

Ferrous
7,000 tons

Non-Ferrous
980 tons

The metal recovered is equivalent to:

6 thousand cars from recovered steel

Energy savings equivalent to **2 million** gallons of gasoline

67 million aluminum cans

A paper clip chain that wraps around the Earth **11** times

Net GHG Reduction

1 Ton of waste processed by the facility reduces lifecycle emissions* by **0.9 tons of net CO_2e**** compared to landfilling

In 2021, the facility avoided emissions equivalent to **49 thousand** passenger vehicles driven for **1 Year**, or burning **253 million** pounds of coal

* WTE facilities in the U.S. reduce lifecycle emissions by an average of 1 ton of CO2e 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.
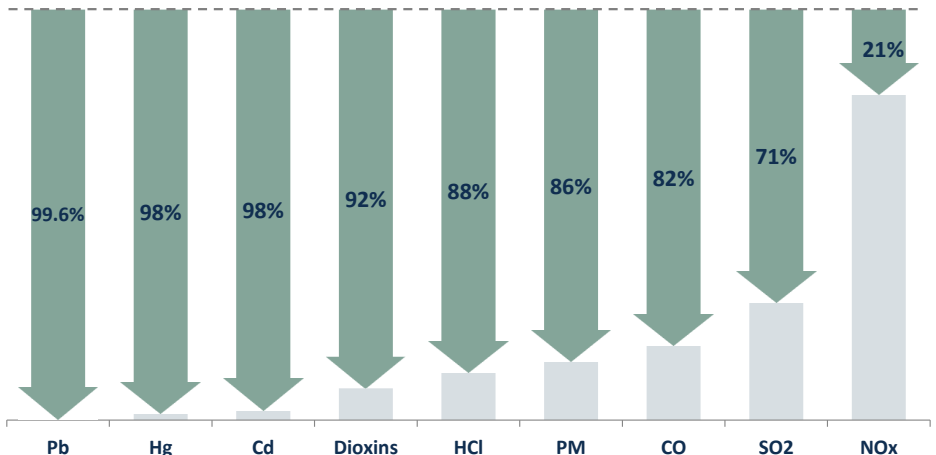
Average Annual Facility Emissions

2019-2021 WTE Emissions Compared to Federal Standards

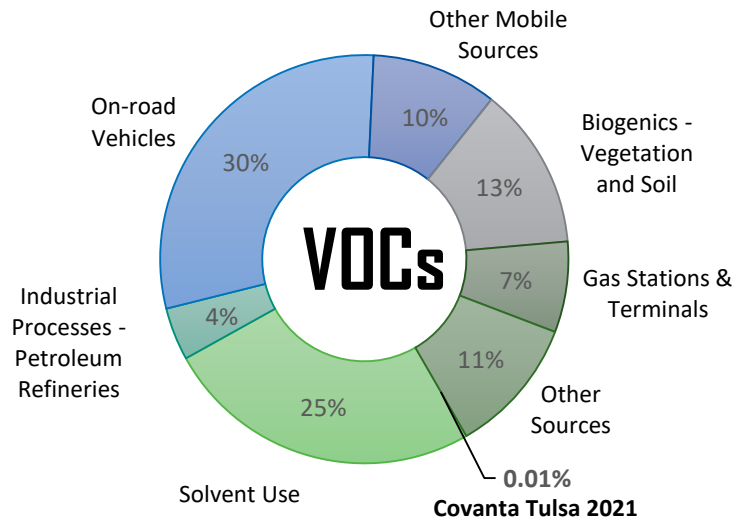The facility operates up to **99.6% below** federal emissions standards

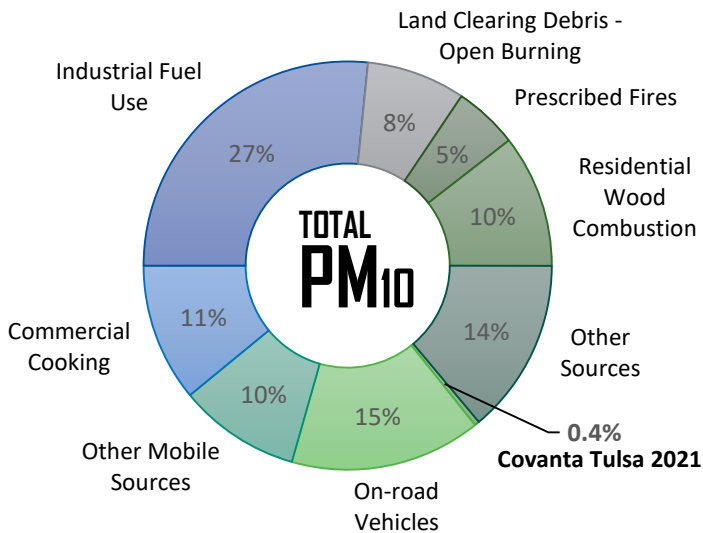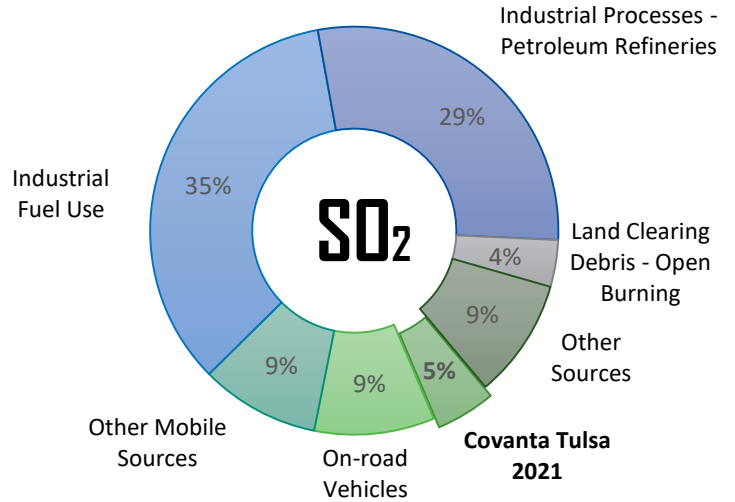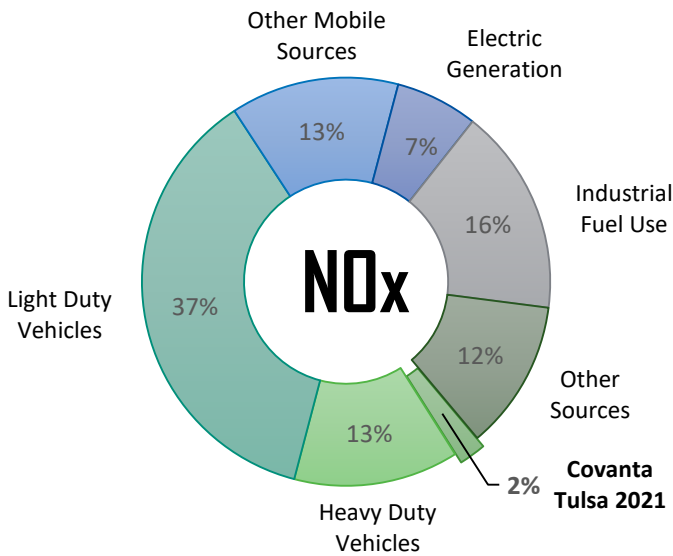Emissions compared to federal guidelines for existing facilities (40 CFR 60 Subpart Cb).

Facility may be subject to more stringent requirements by permit or in accordance with other federal guidelines.

% BELOW FEDERAL STANDARD

Pb	Hg	Cd	Dioxins	HCl	PM	CO	SO2	NOx
99.6%	98%	98%	92%	88%	86%	82%	71%	21%

How Do Our Emissions Compare to Other Sources in the County?
Local air emissions*** in Tulsa County, OK

NOx

- Other Mobile Sources 13%
- Electric Generation 7%
- Industrial Fuel Use 16%
- Other Sources 12%
- **Covanta Tulsa 2021** 2%
- Heavy Duty Vehicles 13%
- Light Duty Vehicles 37%

SO₂

- Industrial Processes - Petroleum Refineries 29%
- Industrial Fuel Use 35%
- Land Clearing Debris - Open Burning 4%
- Other Sources 9%
- **Covanta Tulsa 2021** 5%
- On-road Vehicles 9%
- Other Mobile Sources 9%

TOTAL PM₁₀

- Industrial Fuel Use 27%
- Land Clearing Debris - Open Burning 8%
- Prescribed Fires 5%
- Residential Wood Combustion 10%
- Other Sources 14%
- **Covanta Tulsa 2021** 0.4%
- On-road Vehicles 15%
- Other Mobile Sources 10%
- Commercial Cooking 11%

Excluding Dust Sources, which make up 83% of the total inventory.

VOCs

- Other Mobile Sources 10%
- Biogenics - Vegetation and Soil 13%
- Gas Stations & Terminals 7%
- Other Sources 11%
- **Covanta Tulsa 2021** 0.01%
- Solvent Use 25%
- Industrial Processes - Petroleum Refineries 4%
- On-road Vehicles 30%

Continuous Emission Monitoring Compliance

✓ In 2021, the facility was **99.98%** compliant with CEMS emissions standards

** To allow for a comparison of different greenhouse gases, emissions are converted into CO2 equivalents, or CO2e, using global warming potentials (GWPs). This analysis uses the 100-yr GWP for methane of 28 from the IPCC's 5th assessment report. More information on the calculation can be found at https://www.covanta.com/waste-to-energy-vs-landfill

*** Based on the 2017 US EPA National Emissions Inventory; the most recently released complete inventory. Where available, the facility's 2017 emissions were replaced with the most recently reported emissions.

UPDATED: 6/1/2022

COVANTA
Powering Today. Protecting Tomorrow.