

Covanta Burnaby

2020 Facility Performance

Landfill Diversion

32,678 garbage trucks diverted from landfill

199 kilometers bumper to bumper

Covanta Burnaby



Olympia, Washington

Electric Generation

The electricity produced at the plant can:

Power **17 thousand** homes for **1 Year**



Charge **35 thousand** electric vehicles for **1 Year**

Metal Recovery

Ferrous
5,900 tonnes

Non-Ferrous
300 tonnes

The metal recovered is equivalent to:



5 thousand cars from recovered steel



Energy savings equivalent to **5.1 million** liters of gasoline



19 million aluminum cans



A paper clip chain that wraps around the Earth **10 times**

Net GHG Reduction



1 Tonne of waste processed by the facility reduces lifecycle emissions* by **0.7 tonnes of net CO₂e**** compared to landfilling



In 2020, the facility avoided emissions equivalent to **35 thousand** passenger vehicles driven for **1 Year**, or burning **82 million** kgs of coal

* Life Cycle calculations are based on specific facility operating data, natural gas combined cycle CO₂e intensity, and U.S. national average landfill practices

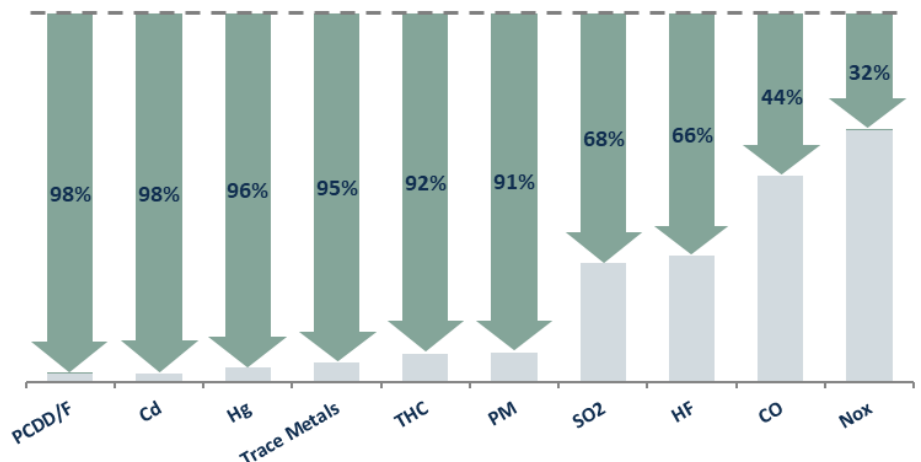
Average Annual Facility Emissions

2018-2020 WTE Emissions Compared to Operational Certificate Limits

The facility operates up to **98% below** Operational Certificate Limits

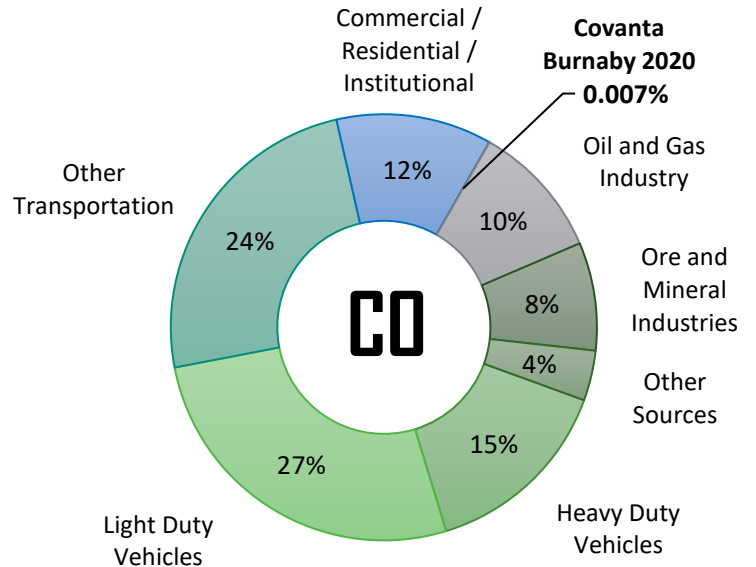
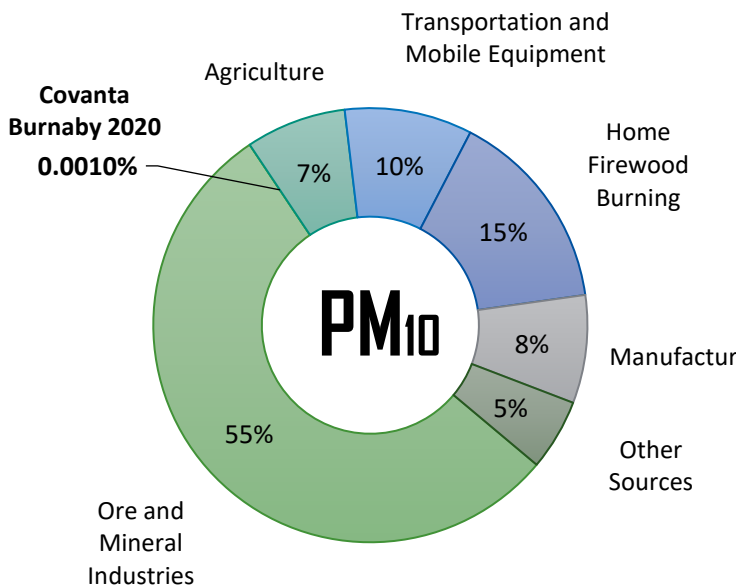
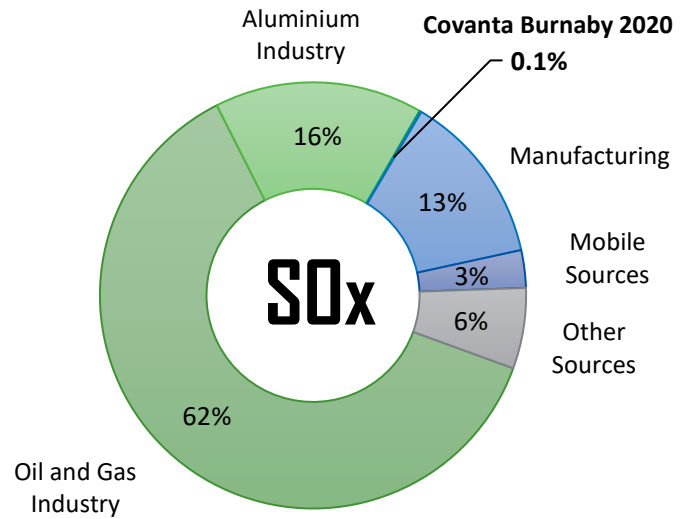
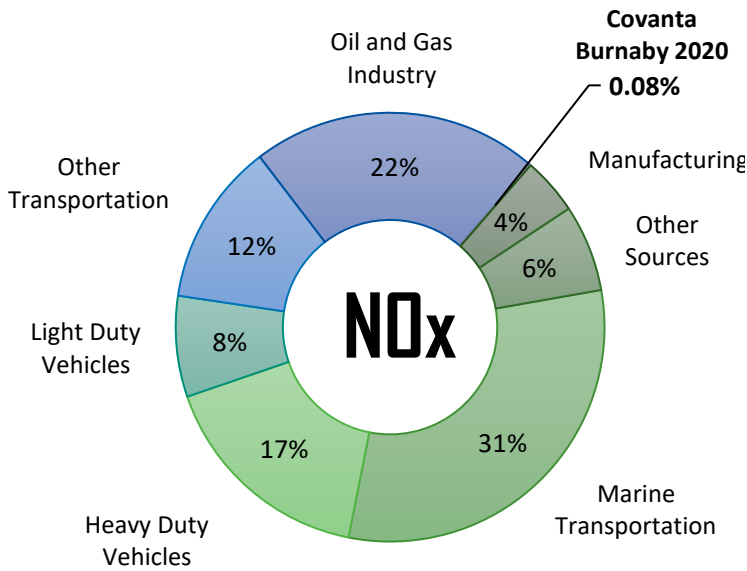
Emissions compared to current emission limits as defined by the Operational Certificate (OC) issued by BC Ministry of Environment & Climate Change Strategy

% BELOW OPERATIONAL CERTIFICATE LIMITS



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

Local air emissions*** in British Columbia, Canada



Excluding Dust Sources, which make up 77% of the total inventory.

Continuous Emission Monitoring Compliance



In 2020, the facility was **100.00%** 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 <http://covanta-csr.com/wte-vs-landfill/>

*** Based on Burnaby's reported 2020 mass emissions and Canada's 2018 Air Pollutants Emissions Inventory (APEI).