

# H-Power Waste to Energy Plant

2022 Facility Performance

## Landfill Diversion

**MSW Processed**  
**690,000** tons

Enough to fill: **83,500** garbage trucks spanning **316** miles



Entire span of the southeastern islands

## Electric Generation

**Net Export**  
**370,000** MWh

Enough electricity to: Power **34 thousand** homes for **1 Year**



Charge **86 thousand** electric vehicles for **1 Year**

## Metal Recovery

**Ferrous**  
**21,000** tons



**18 thousand** cars from recovered steel



Energy savings equivalent to **5.5 million** gallons of gasoline



**135 million** aluminum cans



A paper clip chain that wraps around the Earth **32** times

**Non-Ferrous**  
**2,000** tons

The metal recovered is equivalent to:

## Net GHG Avoidance



**1.0 tons** of net CO<sub>2</sub>e avoided\* for every ton of waste diverted from landfill



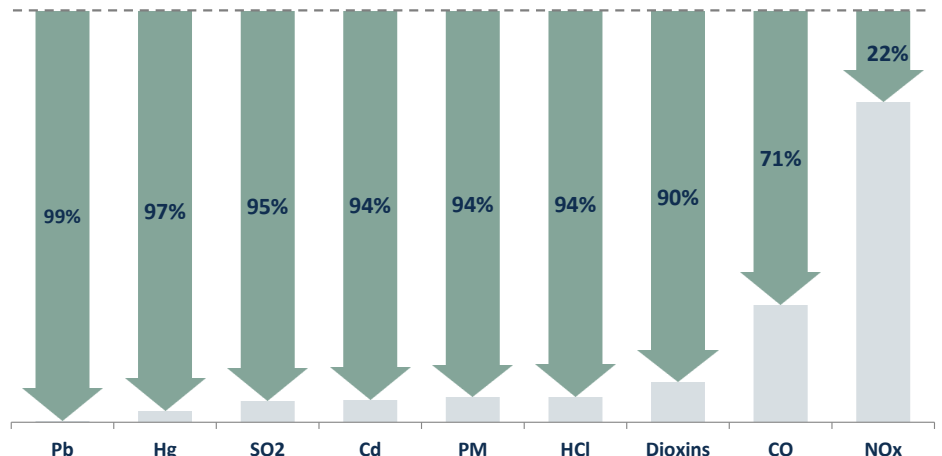
**596,000 metric tons of GHGs** equivalent to:  
Removing **147 thousand** vehicles for 1 year  
Displacing **736 million** pounds of coal

## Environmental Compliance

✓ **Annual Average Emissions**  
Up to **99%** below federal emissions standards\*\*

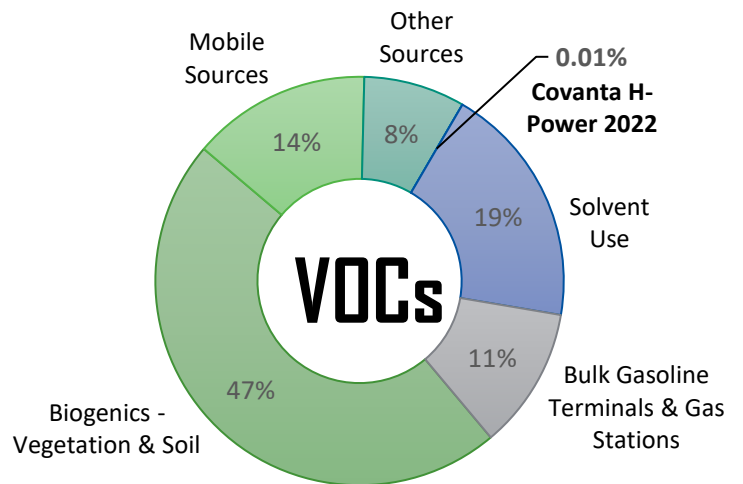
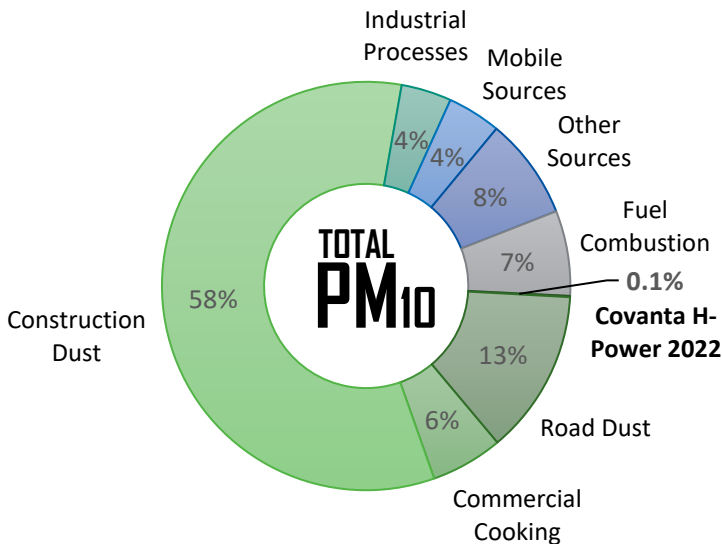
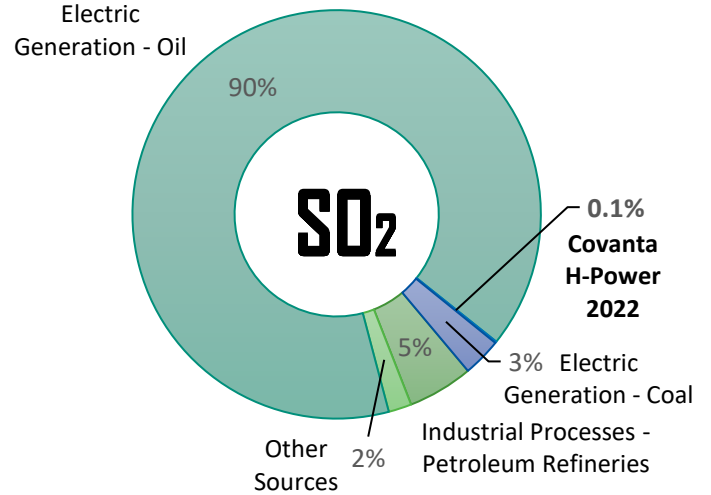
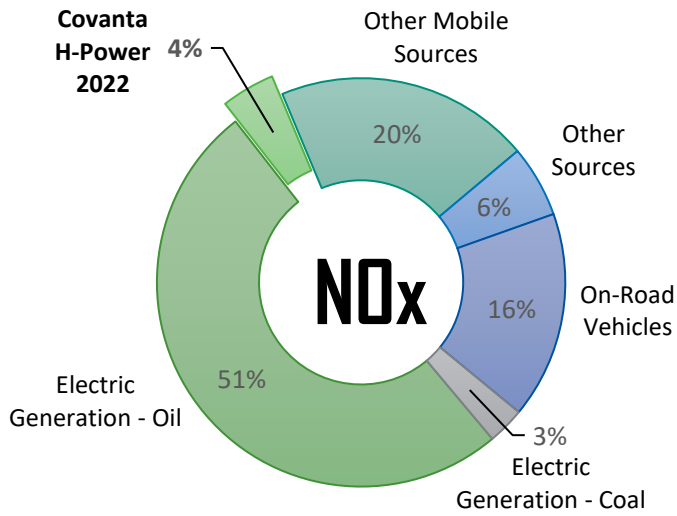
✓ **Continuous Emissions Monitoring**  
**99.996%** compliant with CEMS emissions standards

% BELOW FEDERAL STANDARD



# How Do Facility Emissions Compare to Other Sources in the County?

Local air emissions\*\*\* in Honolulu County, HI



\* GHGs, or greenhouse gases, are represented in CO2 equivalents using global warming potentials (GWPs) to compare the warming power of different gases. This analysis uses the 100-yr GWP for methane of 28 from the IPCC's 5<sup>th</sup> assessment report. 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. More information on the calculation can be found at <https://www.covanta.com/waste-to-energy-vs-landfill>

\*\* 2020-2022 Average Annual 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.

\*\*\* Based on the 2020 US EPA National Emissions Inventory; the most recently released complete inventory. Where available, the facility's 2020 emissions were replaced with the most recently reported 2022 emissions.

