

COVANTA

Powering Today. Protecting Tomorrow.

Covanta Camden Project Overview

April 26, 2022

Covanta Camden in the Community

Community Beautification Projects

- CFET Earth Day Cleanup (24 hrs)
- Filmore Lot / Garden
- HB Wilson School Garden
- A New View Program
- Camden Strong Neighbor Cleanups (71 hrs)

Community Services

- Fall Sustainability Festival *
- Wholesome Riches food pantries
- Heart of Camden Fundraiser
- Heart of Camden Toy Drive

Community Events

- CCSD Back to School Festival
- Subaru “Back to School” Bash
- Kramer Water Front Park opening
- CCPD Pride March
- CFFS Juneteenth Celebration
- Camden Young Life 5K run
- Seeds of Hopes Ministries 5K run

Donations

- Camden School Foundation
- HOC Turkey Baskets
- Morgan Village Circle Community
- Wholesome Riches
- Cathedral Kitchen

Community Service



415

2021 hours of
community
service

28

Number of
organizations
Covanta Camden
Partnered with in
2021

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Community Outreach & Environmental Justice Policy

We are committed to...

Having open, two-way communication with communities on issues which may be of interest or concern to them...

Having an enhanced public participation strategy with communities on major facility permit actions and engage in substantive conversations with community members during the early stages of the permitting process.

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Community Outreach & Environmental Justice Policy

Covanta is committed to engage with and support the communities in which we have or will have facilities. Covanta believes in the meaningful opportunity for all people, regardless of race, ethnicity, color, income, national origin or education level to be knowledgeable and have the right to participate in public decisions and actions which have an impact on their environment and neighborhoods.

To implement this policy consistent with our sustainability objectives, we commit to:

- Reduce discharges and minimize emissions from our facilities and to reduce other potential impacts of our operations, taking into account cumulative impacts
- Identify and engage with individuals and organizations in the communities in which we operate, or in which we may operate, that are interested in our operations
- Have open, two-way communication with communities on issues which may be of interest or concern to them, including environmental and quality of life issues in the community. Such communication shall include participation in meetings with community members or affected groups
- Have an enhanced public participation strategy with communities on major facility permit actions and engage in substantive conversations with community members during the early stages of the permitting process
- Work diligently to respond to issues identified by communities in which we operate
- Promptly and effectively notify the community in the event of situations that may adversely impact the environment or their health

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EJ for Covanta – not just words BUT ACTION!

- New Baghouses
 - Newark, NJ
 - Huntsville, AL
 - Hillsborough, FL
 - SEMASS, MA
- New NOx Controls
 - Newark, NJ
 - Fairfax, VA (WIP)
 - Huntsville, AL
 - Alexandria, VA (WIP)
 - Stanislaus, CA (in planning)
- In Planning/Permitting
 - Camden, NJ - Baghouse
 - Chester, PA - NOx Reduction



Our 2019 Sustainability Goals include –
“We’ve committed to implement five projects by 2023 to further reduce emissions in EJ communities. We will also set a science-based GHG reduction target by 2022 to drive further reductions.”

World Leader In Waste-to-Energy



41 modern WTE facilities
in North America/ Europe



Annually recycle approximately
600,000 tons of metal
the equivalent amount of steel can
build six Golden Gate Bridges



Annual capacity to process
21 million tons of waste



3,800 professionals
employed in North America



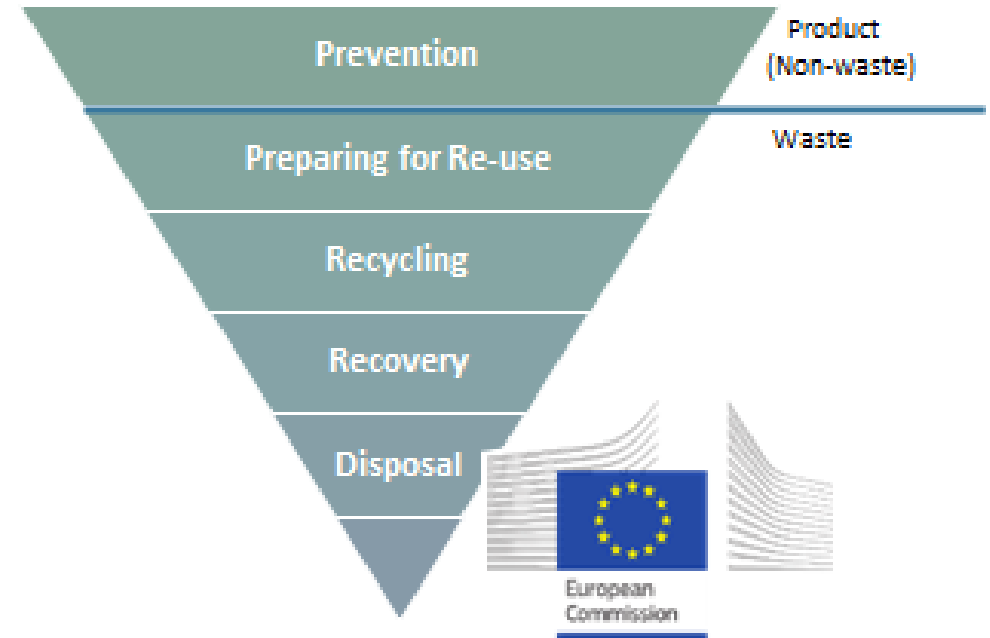
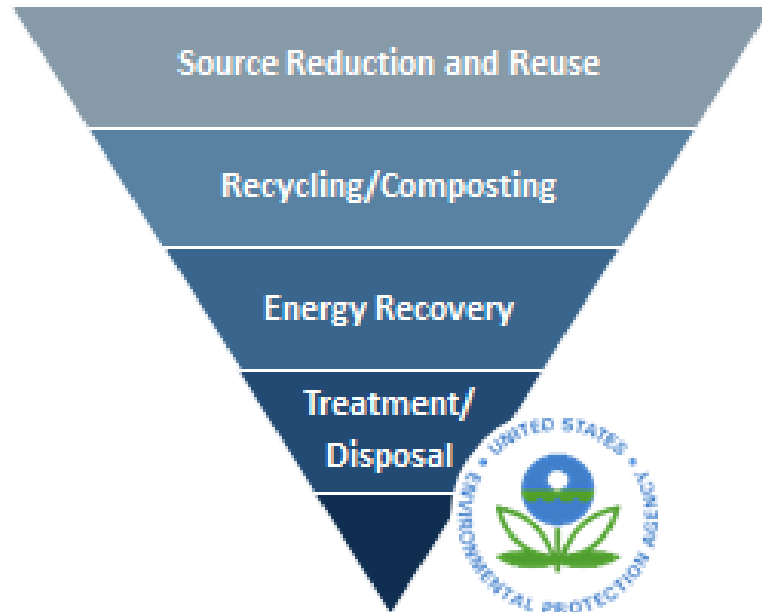
Generate 10 million
megawatt hours—enough
clean energy to power
over 1 million homes



High focus on improving
sustainability and encouraging
a **circular economy**

Waste Management Hierarchy

- The US EPA and the EU have ranked the most environmentally sound strategies for municipal solid waste – disposal in a landfill is considered the worst and final option
- The EU has set a target for all 27 countries to landfill 10% or less of all waste generated by 2035 in its landmark Landfill Directive



Benefits of Waste-to-Energy



Helping to solve some of our biggest challenges

- Environmentally sustainable waste management that complements recycling
 - Best solution after recycling – waste volume reduced by 90%
 - Attractive to businesses and governments seeking zero landfill disposal option
- Generates clean and reliable renewable energy
 - Baseload power 24 / 7; located near demand centers
 - Complements other renewables
- Combats climate change
 - Net reducers of greenhouse gases - 1:1 CO₂ offset for each ton of waste processed
 - Fewer fossil fuels burned: 1 ton of waste \approx ¼ ton of coal
 - Methane from landfills: 80+ times more potent than CO₂ as a greenhouse gas over a 20-year period





Covanta Camden Camden, NJ

- The Covanta Camden Energy Recovery Center is an award-winning Waste-to-Energy Facility that serves the municipalities in Camden County and the surrounding region with reliable and sustainable waste management.



Less waste in landfills reduce greenhouse gas emissions by **333,450 tons** of CO₂.



We use waste to produce **21 megawatts** of electricity 24/7, powering **14,000 homes** in a year.



We also recover **13,700 tons** of metal for recycling annually - enough to build **11,000 cars**.



Covanta Camden

- The Camden facility is proposing to upgrade our Air Pollution Control (APC) System with a \$49 million dollar investment.
 - Installation of a state-of-the-art fabric filter baghouses
 - Higher efficiency of acid gas removal with a dry recirculating ash system.
 - Enhanced existing SNCR system for NOx control
- A new APC system will significantly reduce most emissions including particulates, lead, mercury, dioxin, and acid gases.
- With these lower emissions Covanta will propose lower emission limits.
- No increase in permitted throughput
- Receive and process liquid wastes
- Develop a Community Benefits Agreement (CBA) with the local community.

Covanta Camden

The facility proposes to process Liquid Wastes.

- No waste permit increases.
- Liquid waste will displace MSW and reduce the amount of MSW processed.
- Liquid waste will not impact emissions.
- Provides funding for APC upgrades for emissions reductions
- Provides resources for a more robust Community Benefits Agreement



Liquid Direct Injection (LDI)

What is LDI?

LDI is an environmentally sound manner to dispose of non-hazardous liquid waste streams.

How does LDI work?

Non-hazardous liquids are directly sprayed into the combustion zone of the boiler.

What kinds of liquids are disposed of?

Non-hazardous liquids are typically at least 95% water and used as process wash waters in the pharmaceutical, food, or other industrial or manufacturing operations.

Liquid Direct Injection (LDI)



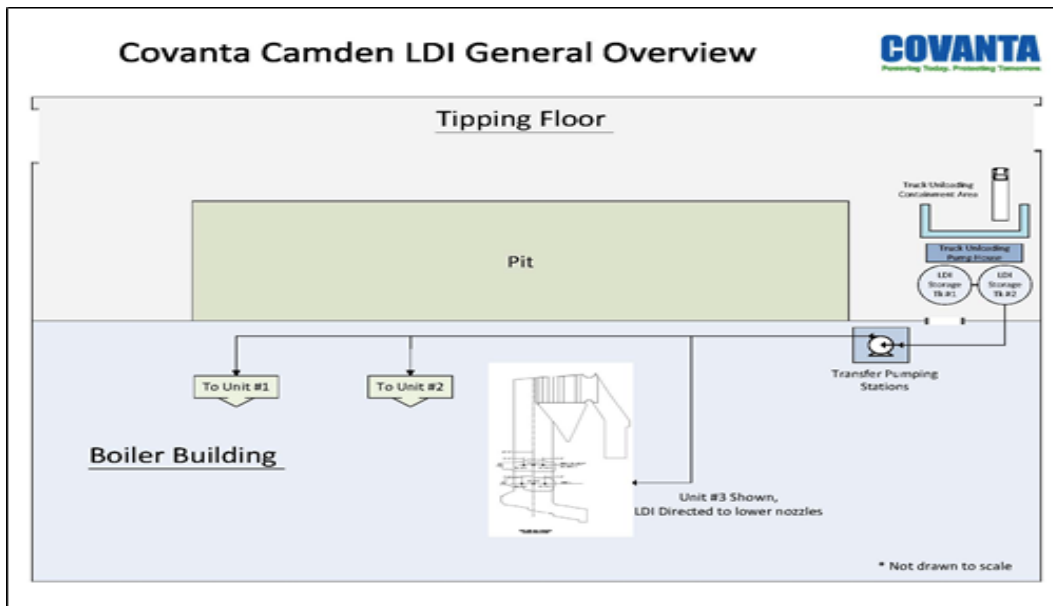
How will you handle the liquids?

Tanker trucks used to transport liquids.

Liquids sampled prior to receipt.

Liquids held in storage tanks prior to combustion in the boiler.

Same process as in our WTE plants located in Niagara Falls, NY, Indianapolis, IN and our former Warren County, NJ plant.



What are the impacts of LDI?

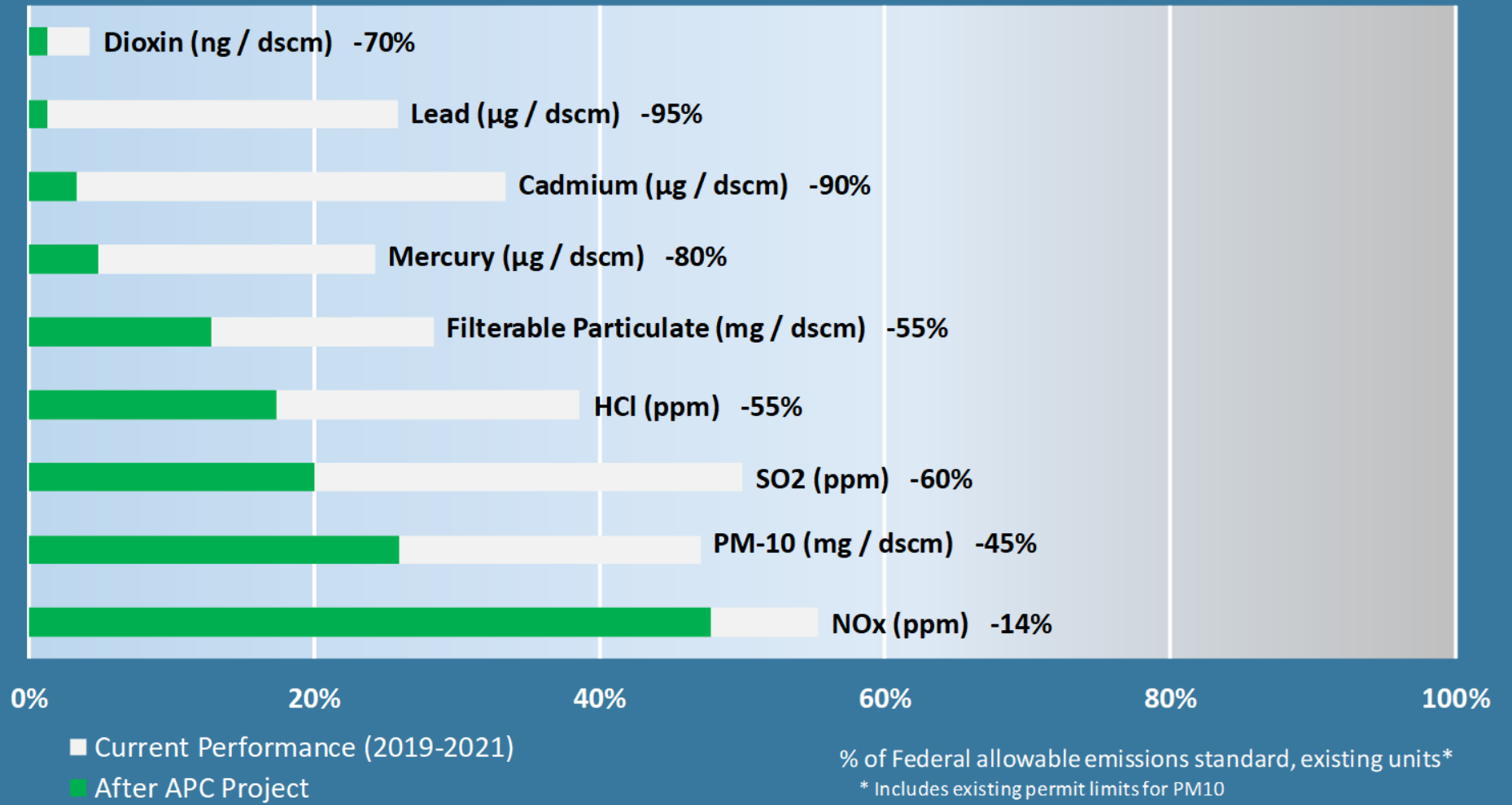
No impact on emissions.

No increase in truck traffic.

No impact on odors.

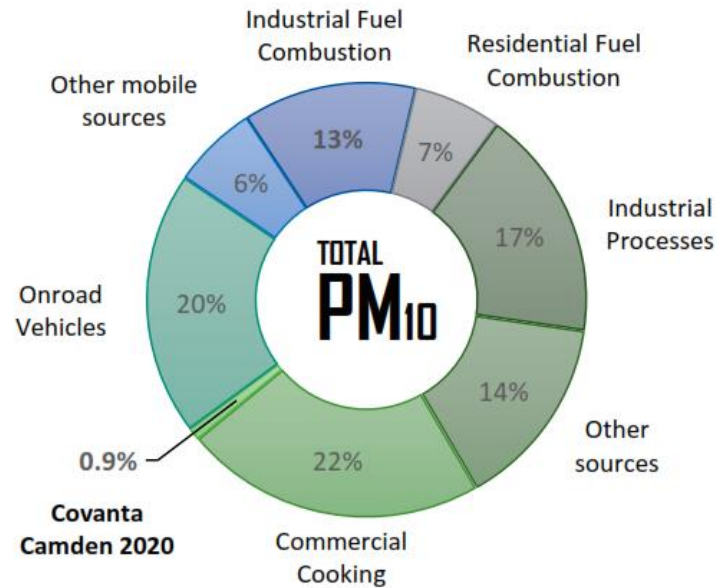
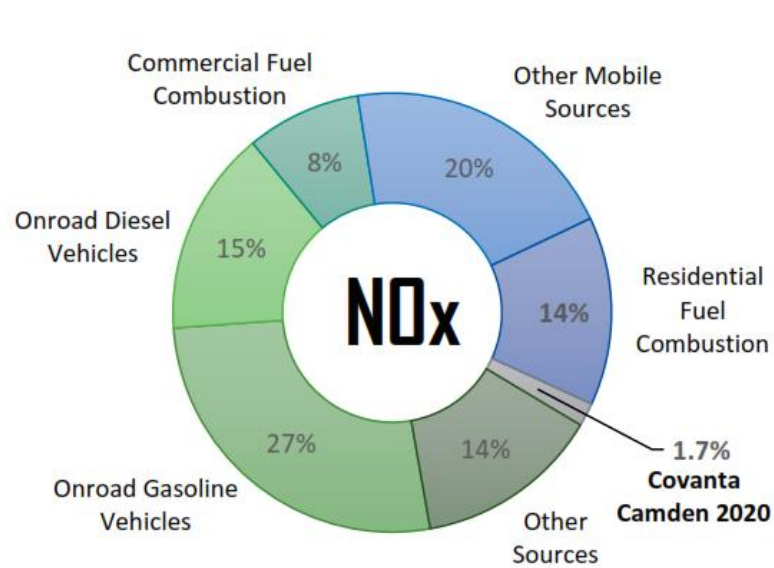
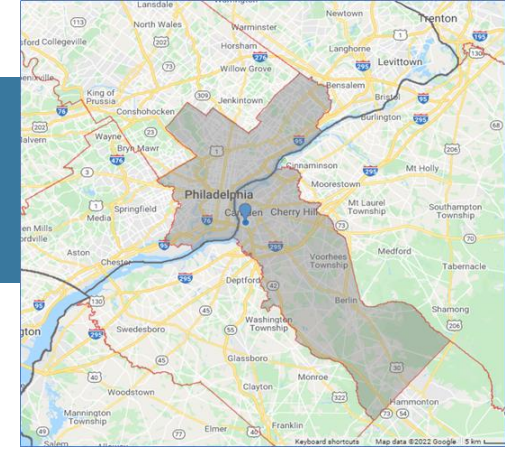
Reduced use of reagents during the combustion process.

Expected APC Project Emissions Reductions

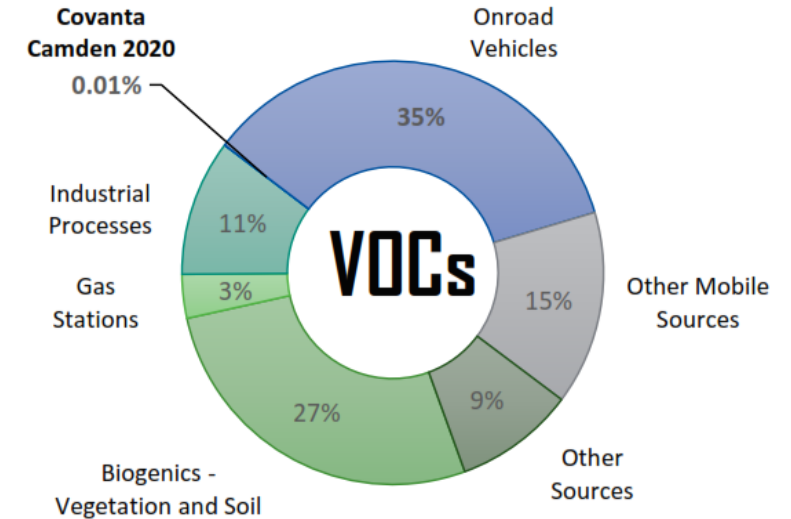


How Do Our Emissions Compare to Other Sources in the Air Shed?

Local air emissions* in Camden County, NJ & Philadelphia County, PA



Excluding Dust Sources, which make up 45% of the total inventory.



Excluding Solvent Use, which makes up 46% of the total inventory.

* 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 reported 2020 emissions.

Continuous Emissions Monitoring (CEMS) Data for CVA Camden can be found at:
<https://www.covanta.com/where-we-are/our-facilities/camden>

Covanta Camden Community Benefits Agreement

Covanta Camden Community Benefits Agreement (CCCBA)

- Long-term commitment with organized groups representing the people of in our neighborhoods of Waterfront South and Morgan Village
- Providing meaningful involvement and financial resources to our community
- A committee our local representatives will decide what local projects receive funds
- Projects must benefit Waterfront South and Morgan Village.

Covanta has recently conducted meetings concerning the Project with the following:

- City of Camden Councilwoman Boucher
- Heart of Camden Executive Director
- City of Camden Mayor Carstarphen and staff
- Morgan Village Circle Community Development Corporation
- Camden County Solid Waste Recycling Coordinator
- Camden City School District Board of Education
- Camden Collaborative Initiative (CCI)

Covanta Camden Community Benefits Agreement

On-Going Community Benefits

Since purchasing the Covanta Camden facility, Covanta has heavily invested in the community. Last year, we invested \$50,000 to support programs in the community. We are committed to continuing those efforts.

Continued Engagement with the Community

Partner with local organizations to assist in various community engagements activities, fund raising events, plant tours or other items. Covanta expects to assist in at least twelve such activities per year.

Covanta will provide each employee with up to 16 hours per year to volunteer with full compensation.

Covanta Camden employees and family members will volunteer for at least 250 hours per year.

Additional Environmental Initiatives

Support Electric Vehicle Charging stations in the community

Support anti-Illegal dumping initiatives

Covanta will dispose of up to 50 tons of MSW, at no cost, generated by non-profits during clean-up events.

Promote recycling and E-waste/mercury collection

Employment, Education and Training

Covanta will adopt a "hire local" initiative whereby local workers are sought out and trained by Covanta.

Covanta will establish a Camden college summer internship program for local youth. Covanta will provide funding needed to train Fire Department personnel including at least an annual drill.

Covanta will sponsor an annual \$2,500 scholarship through the Camden School Foundation.

Covanta Camden Community Benefits Agreement

Covanta Camden Community Benefits Agreement Committee

1. Community Representative from Waterfront South—Appointed by Ward 1 Council Member
2. Community Representative from Morgan Village—Appointed by Ward 1 Council Member
3. Grassroots Organization—appointed by the Community Representative from Waterfront South
4. Grassroots Organization—appointed by the Community Representative from Morgan Village
5. Contractor Representative—Covanta

Non-Voting Members

- Elected Representative—Ward 1 Council Member
- Ex-officio from Mayor's Office

Additional Funding Opportunities

Covanta would be willing to work with the community to identify additional types of revenue enhancements that could benefit both the facility and the community.

Next Steps

- Continuing Community Engagement
 - Community organizations / residents
 - Elected officials
 - Camden County
 - NJDEP
- Finalize Community Benefits Agreement
- APC System / LDI Application – Camden County & NJDEP

