

# WIN WASTE INNOVATIONS IN BALTIMORE

## WASTE-TO-ENERGY IS THE EPA-PREFERRED METHOD FOR END DISPOSAL TO REDUCE GREENHOUSE GASES

**Renewable Energy:** WIN Waste converts nearly 700,000 tons of waste into renewable energy each year, enough to power 31,000+ homes, avoiding the equivalent of 648,000 barrels of oil.

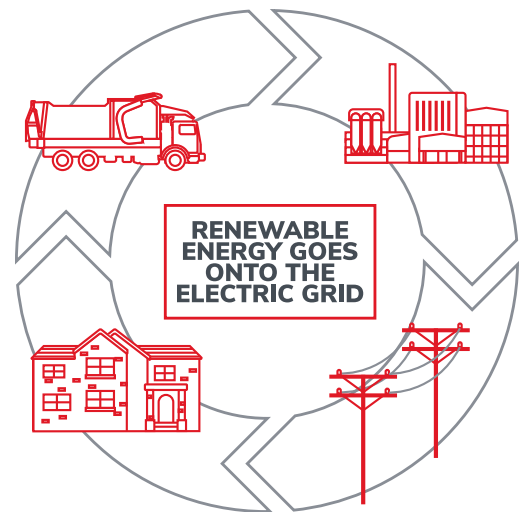
**Recycling:** Each year, WIN Waste recovers and recycles 12,000+ tons of metals from the waste stream that would otherwise be landfilled.

**Sustainable Waste Management:** Waste-to-energy is a net carbon reducer, diverting waste from landfills, offsetting tractor trailer trips to get it there and reducing the need for energy from fossil fuels.

**Economic Impact:** WIN Waste pays its 80 full-time employees living wages—hourly compensation starts at \$22/hr. and averages \$36/hr.

**Renewable Portfolio Standards' Support:** WIN Waste directly advances the Maryland Renewable Energy Portfolio Standards' objectives, which reduce the state's reliance on fossil fuels by increasing "the benefits associated with a diverse collection of renewable energy supplies."

**Cost-effective:** WIN Waste contributes millions to Baltimore City's budget while the alternative disposal method of transfer stations and landfill expansion would cost taxpayers roughly \$100 million.



*Our work supports a more circular economic model, which is urgently needed to preserve natural resources.*

**"Waste-to-energy is the better alternative to landfilling for managing MSW that is not recyclable, a reality explicitly recognized by the waste management hierarchy recommended by both the U.S. [EPA] and the European Union."**

— Marco J. Castaldi, Ph.D.  
The Scientific Truth about Waste-to-Energy  
Chemical Engineering Department,  
The City College of New York City University of New York

## A Commitment to Air Quality

**WIN Waste has invested nearly \$45 million in air-quality controls** that will place its Baltimore facility among the cleanest waste-to-energy facilities in the nation – and the world. The upgrades began in early 2022 and will complete in Spring of 2023.

| EMISSION | UNITS   | USEPA | MONTGOMERY CTY<br>FACILITY LIMITS | WIN WASTE IN BALTIMORE |            |
|----------|---------|-------|-----------------------------------|------------------------|------------|
|          |         |       |                                   | CURRENT                | 2022-2023  |
| NOx      | ppm     | 205   | 105                               | 145                    | <b>105</b> |
| SO2      | ppm     | 29    | 29                                | 29                     | <b>18</b>  |
| Dioxins  | ng/dscm | 35    | 30                                | 35                     | <b>15</b>  |
| Mercury  | ug/dscm | 50    | 50                                | 50                     | <b>15</b>  |
| Cadmium  | ug/dscm | 35    | 35                                | 35                     | <b>25</b>  |
| Lead     | ug/dscm | 400   | 400                               | 400                    | <b>250</b> |



# A Commitment that Together, We Can BMore

**In 2022, WIN Waste distributed more than \$750,000 in an effort to clean, green, train, and support Baltimore.**

We identify opportunities to engage members of the community in our own conservation efforts, and to support, learn from and invest in theirs.

- WIN Waste hires local, Black-owned businesses that employ returning citizens to help clean up litter and keep trash from our streets and waterways
- WIN Waste deploys Green Ambassadors to faith communities every week to address the illegal dumping and littering that devalue our neighborhoods

## **WIN Waste invests in non-profit and community partners:**

- Growing Greenspace, a 16-week initiative to create community gardens, which help capture carbon, mitigate food scarcity and aid in workforce development
- Sponsorship of Baltimore's largest and most ambitious residential composting initiative through 4MyCity
- Expansion of City of Refuge's Victory Garden, where crop surpluses are given to Brooklyn residents
- A \$100,000 donation to aid youth workforce development in sustainable initiatives through the youth in the Urban Oasis, Grow Home, My Father's Plan and Challenge 2 Change programs
- Sponsorship of Friends of Carroll Park cut flower program for youth workforce development
- Sponsorship of Waterfront Partnership's Gwynda Trash Wheel to support conversion of waterway litter to renewable energy



## **Sponsorship, coordination, and staffing of community cleanups**

In the last two years, WIN Waste helped remove 1,040 tons of waste (more than two million pounds) from neighborhoods across the city – powering 47 homes for an entire year and avoiding 966 barrels of oil.



**2M+**  
POUNDS OF LITTER  
REMOVED FROM CITY STREETS

EQUIVALENT TO:



**47**  
HOMES POWERED  
FOR A YEAR



**966**  
BARRELS OF OIL  
AVOIDED



**PERFORMANCE FOR THE PLANET**