

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.

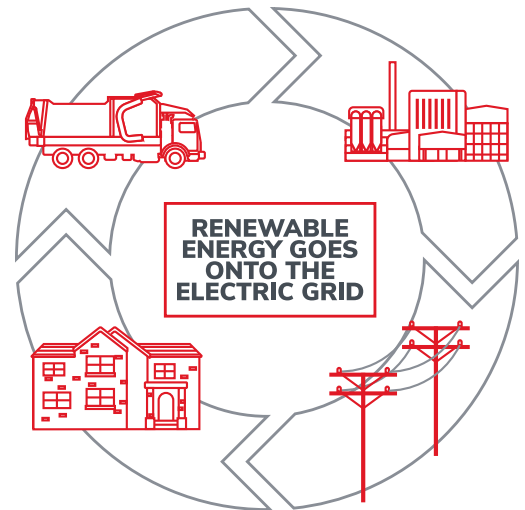
Renewable Portfolio Standard Support: WIN Waste directly advances the Maryland Renewable Energy Portfolio Standard's objectives, which reduce the state's reliance on fossil fuels.

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

Economic Impact: WIN Waste pays its 72 full-time employees living wages—hourly compensation starts at \$18.40/hr. and averages \$34.20/hr.

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.

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 | WIN WASTE IN BALTIMORE | |
|----------|---------|-------|-----------------|------------------------|------------|
| | | | FACILITY LIMITS | CURRENT | 2022-2023 |
| NOx | ppm | 205 | 105 | 145 | 105 |
| SO2 | ppm | 29 | 29 | 29 | 18 |
| Dioxins | ng/dscm | 35 | 30 | 35 | 15 |
| Mercury | ug/dscm | 50 | 50 | 50 | 15 |
| Cadmium | ug/dscm | 35 | 35 | 35 | 25 |
| Lead | ug/dscm | 400 | 400 | 400 | 250 |



PERFORMANCE FOR THE PLANET

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 WASTE
REMOVED



47
HOMES POWERED
FOR A YEAR



966
BARRELS OF OIL
AVOIDED



PERFORMANCE FOR THE PLANET