HENNEPIN COUNTY



Hennepin Energy Recovery Center

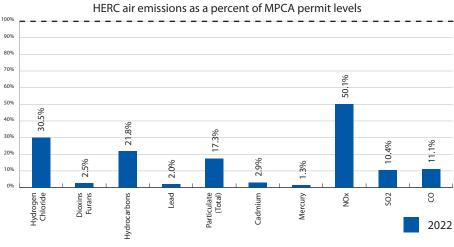
Converting waste to energy

Serving our community by providing the most environmentally friendly option for dealing with trash, while we all work toward reducing the waste we create.



HERC operates safely and minimizes pollution

The county maintains the highest performance standards at HERC, including its state-of-the art pollution control system. Controlled high-temperature combustion prevents some air pollutants from forming. The exhaust system neutralizes others, or scrubs and filters them out. The system continually extracts and tests exhaust samples. Plant operators monitor the results around the clock and make adjustments to control air quality and prevent particulate matter from escaping.

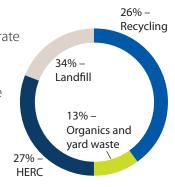


HERC avoids landfilling waste

The combustion process reduces the volume of waste by nearly 90 percent. The material remaining after combustion is non-hazardous ash. The ash is screened to recycle metals and then sent to a landfill. HERC recovers more than 16,000 tons of scrap metal each year, which is more than double the amount of metal collected in curbside recycling programs in the county.

How we manage our waste

Hennepin County residents and businesses generate more than one million tons of waste each year. Add up all this waste and it's enough to fill Target Field more than 11 times. Processing waste to recover energy at HERC is just one part of the county's integrated waste management system that emphasizes waste prevention, reuse, recycling and composting.



HERC is environmentally preferable to landfills

About half of the waste generated in the county is recycled or composted. The remaining trash can either be buried in the ground or burned for energy. HERC is better for the environment than landfills.

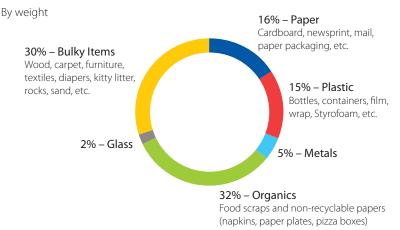


Hennepin County is committed to zero waste

The county is pursuing a pathway to a zero-waste future – defined as preventing 90% or more of all discarded materials from being landfilled or incinerated. Our Zero Waste Plan outlines 58 actions developed with hundreds of residents and industry stakeholders that if successfully resourced and implemented have the potential to more than double the county's current diversion rate. We all have a responsibility to prevent waste and recycle everything we can. We are asking residents and businesses to take the following actions:

- Recommit to looking at the waste produced in your household and take steps to prevent waste before its generated in the first place
- Use new or expanding recycling and waste prevention services
- Talk with your friends, family, neighbors and coworkers about reducing waste and recycling more
- Use your power as a consumer to let companies know that reducing waste and reducing climate impacts is important to you
- Explore volunteer opportunities such as Community Recycling Ambassador or Fix-it Clinics
- Advocate for policy changes at the state, county, and city level
- Support the development of zero waste infrastructure (drop-off sites, recycling facilities, etc.) in your community

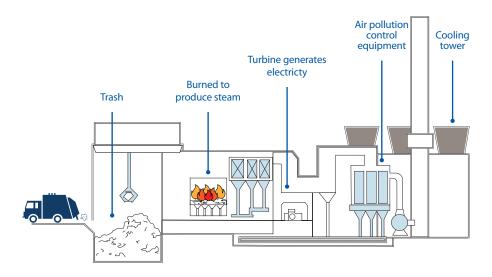
What is in the trash?



How is waste converted to energy at HERC?

Garbage trucks deliver waste from Minneapolis and surrounding communities to HERC. The waste is pushed into the waste pit with a loader. A crane picks the waste up from the pit and feeds it to the boilers. Operators look for and pull out hazardous and problematic wastes, such as appliances, televisions and bulky items, so they can be disposed of properly.

The waste is burned in boilers lined with water-filled tubes. The heat of combustion converts the water to steam that turns a turbine to generate electricity. HERC produces enough electricity to power 25,000 homes. The electricity is sold to Xcel Energy. The steam is then condensed back to water and circulated to the boiler, completing a closed-loop system.



A portion of the steam provides heating and cooling to the downtown Minneapolis district energy system and Target Field. In fact, heat from HERC works to green up the ballpark turf before the Twins home opener in April and melt the snow at Target Field Station plaza all winter long.



Additional resources



Take a virtual tour of HERC by watching a short video on how HERC generates energy from garbage, available online at **hennepin.us/HERC**



Learn about resources to reduce waste and improve recycling at **hennepin.us/recycling**



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