

Landfill Gas-to-Green Energy

Did you know that landfills with gas collection systems can recycle nearly 25% of the material deposited in the landfill?

That makes landfills some of the largest recycling operations in the U.S. Here is the best part: The gas created and captured is re-used for renewable energy.

Seabreeze Landfill is teaming with DTE Biomass, which harvests the landfill gas for compressed natural gas that fuels public transit fleets.

Landfill gas is the natural byproduct of decaying organic material in municipal solid waste landfills. As organic waste breaks down, methane gas is created. Landfill methane is normally consumed (incinerated) in a flare rather than being discharged to the atmosphere. The landfill gas-to-energy initiative provides a renewable alternative to flaring.

At Seabreeze Landfill's gas collection plant, operated by DTE, a vast majority of the methane gas is harvested through a perforated piping system connected to gas extraction wells. The captured landfill gas is purified on site into renewable natural gas, which offsets the use of fossil fuels and can significantly reduce greenhouse gas emissions.

The landfill gas is a constant source of power that is running all the time, making Waste Connections' Seabreeze Landfill a good neighbor and good environmental steward in the community.

