

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 renewal energy!

LRI Landfill is teaming with BioFuels Washington to harvest landfill gas for renewal natural gas and electricity. At top capacity, the facility can produce up to 15 megawatts of electricity, enough to power 10,000 homes per year.

Alternately, enough compressed natural gas can be harvested to power more than 1,000 vehicles driving 25,000 miles per year.

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 six-year-old landfill gas-to-energy plant provides a renewable alternative to flaring.

At LRI Landfill, the vast majority of the methane gas is harvested through a perforated piping system of drilled gas extraction wells.

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

