



Legacy Landfill
Jonesboro, Arkansas

LMOP PROJECT EXPO

2009

Legacy Landfill Overview

Open Year

1991

Waste in Place

1,400,000 tons (2008)

Design Capacity

4,357,400 tons

Annual Acceptance

125,000 tons (2008)

Landfill Area

22 acres

Waste Depth

100 feet

Wells in Place

No

Flare in Place

No

Methane Content of Gas

Estimated at 50%

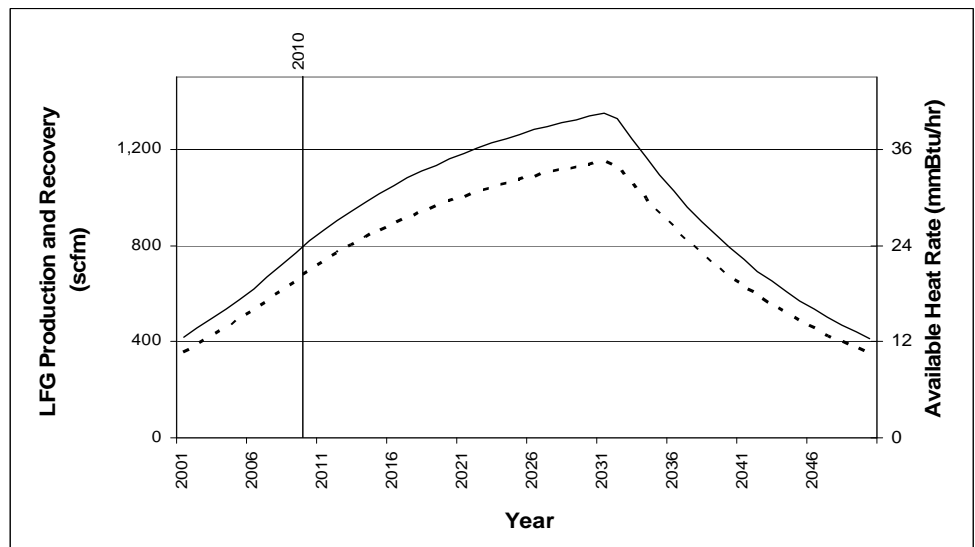
Legacy Landfill reports that it is not currently required to collect and combust landfill gas under the Landfill NSPS/EG.

Collection and utilization of the landfill gas at an estimated extraction rate of 696 scfm in 2010 would result in direct methane reductions and avoided emissions from conventional electricity sources, equivalent to preventing emissions of **80,700 metric tons of CO₂e per year**.

These emission reductions are equivalent to any one of the following annual environmental benefits for 2010:

- ◆ Annual greenhouse gas emissions from **14,700 passenger vehicles**
- ◆ Carbon sequestered annually by **18,300 acres** of pine or fir forests
- ◆ CO₂ emissions from **9,100,000 gallons of gasoline** consumed
- ◆ CO₂ emissions from **187,000 barrels of oil** consumed

Landfill Gas and Energy Potential



— Gas Generation - - - - Gas and Heat Recovery
LandGEM Peak Recovery Estimation: 1,148 scfm (in 2031)

Additional Information

- ◆ In addition to the industrial end users listed below, generating electricity may be another viable option. Renewable energy systems in Arkansas are eligible for net metering. Eligible technologies include solar, wind, hydroelectric, geothermal, and biomass systems, as well as fuel cells and microturbines using renewable fuels. There is no limit on the aggregate capacity of all net-metered systems.
- ◆ A natural gas pipeline runs along the landfill property.



Landfill Location and Potential End Users

