



## 2008 LMOP PROJECT EXPO

# PISGAH LANDFILL

## CHARLES COUNTY, MARYLAND



### LANDFILL OVERVIEW

Open Year: 1980

Closure Year: mid-1994

Waste in Place: 1,082,000 tons

Landfill Area: 87 acres

Waste Depth: 60 feet (maximum)

Number of Wells Installed: 125

Flare in Place: Yes  
(2 candles with blowers)

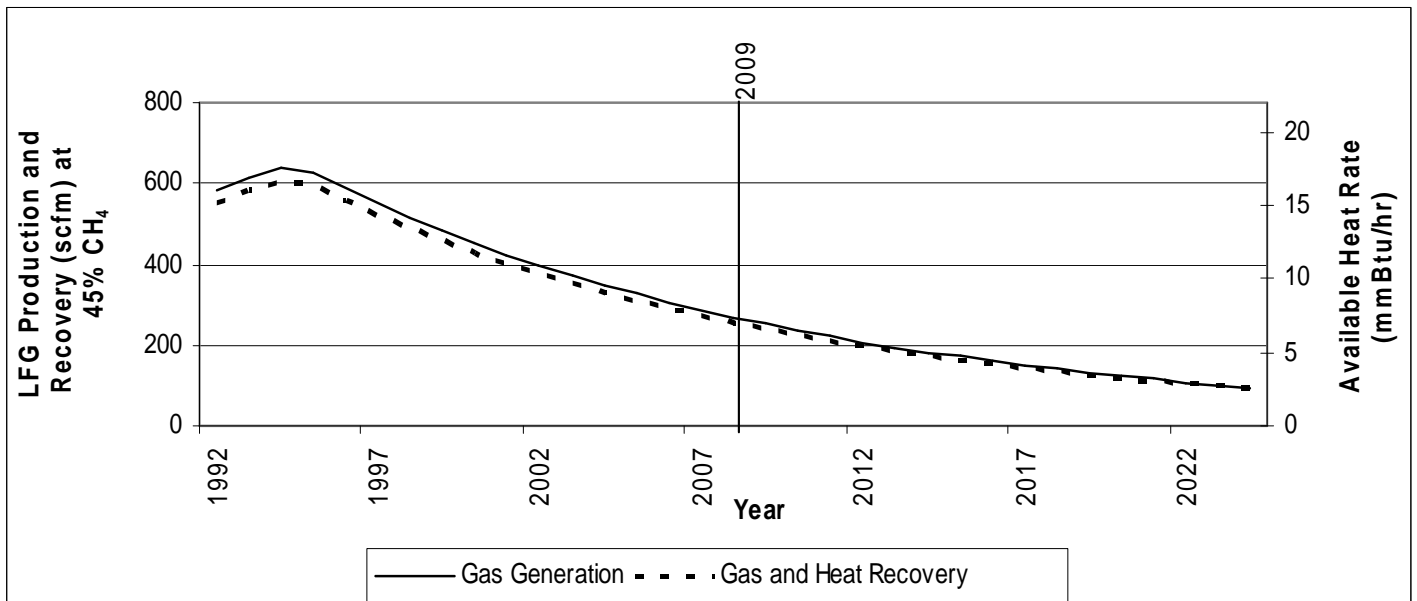
Methane Content of Gas: 45%

### ENVIRONMENTAL BENEFITS

Pisgah Landfill reports that it is not currently required to collect and combust landfill gas under the Landfill NSPS/EG. Collection and control of the landfill gas at its estimated extraction rate of 240 scfm in 2009 would result in direct emission reductions of 24,000 metric tons of CO<sub>2</sub>e and utilizing the gas to generate electricity would result in the avoidance of 4,100 metric tons of CO<sub>2</sub>e emissions due to displaced electricity generation from conventional fossil fuel sources. These emission reductions are equivalent to any one of the following annual environmental benefits for 2009:

- Annual greenhouse gas emissions from 5,000 passenger vehicles
- Carbon sequestered annually by 6,300 acres of pine or fir forests
- CO<sub>2</sub> emissions from burning 140 railcars' worth of coal
- CO<sub>2</sub> emissions from 64,500 barrels of oil consumed

### LANDFILL GAS AND ENERGY POTENTIAL



- Actual 2007 LFG Recovery (average): 559 scfm
- LandGEM Peak Recovery Estimation: 605 scfm (in 1994)

## LANDFILL LOCATION AND POTENTIAL END USERS



### ADDITIONAL INFORMATION

Currently, the state of Maryland offers the following financial incentives for LFG energy:

- Clean Energy Incentive Tax Credit: a 0.85 cents per kWh state income tax credit is available for all projects that come online between January 1, 2006 and January 1, 2011.
- New Metering Program allows for credit on electricity bills for up to 200 kW (500 kW with Public Service Commission approval).
- MD RPS requires 2.5% of its electricity to be generated from renewables. Suppliers receive a 110% credit for methane during a specified timeframe.

Pisgah Landfill has a geomembrane cap and extensive well coverage on the waste footprint.

### FOR MORE INFORMATION

**Pisgah Landfill**  
Charles County Landfill Road  
Pisgah, MD

**Charles County Department of  
Public Facilities (owner)**  
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