



Mount Carberry Landfill
Berlin, New Hampshire

LMOP PROJECT EXPO

2009

Mount Carberry Landfill

Overview

Open Year

1989

Estimated Closure Year

2051

Estimated Waste in Place

1,535,200 tons (2008)*

Design Capacity

10,255,000 tons*

Annual Acceptance

202,800 tons (2007)*

Landfill Area

67 acres (design)

Wells in Place

Yes

Flare in Place

Yes (currently flaring 700 scfm)

Methane Content of Gas

Estimated at 45%

*The landfill accepts both MSW and paper mill residues. Putrescible portions are included in the annual waste acceptance rate, estimated waste in place, and design capacity.

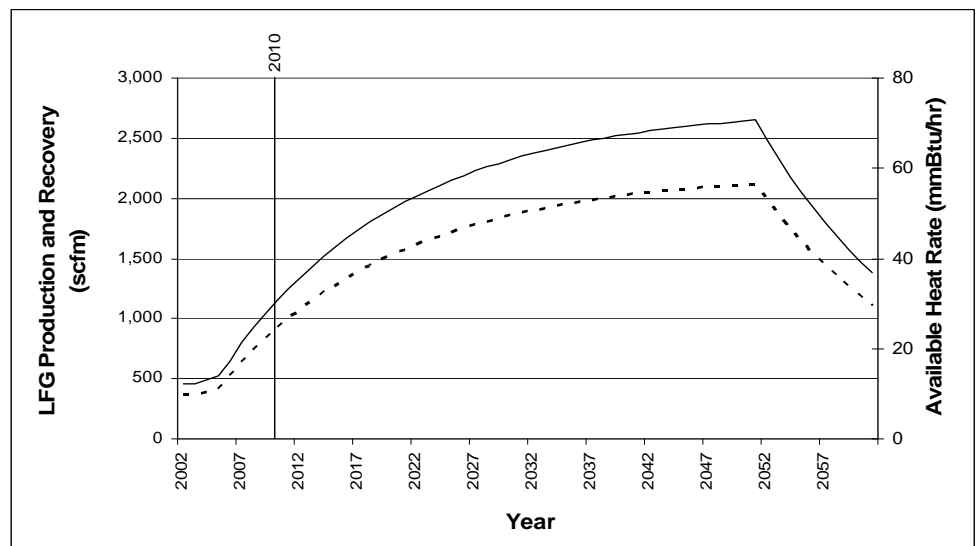
Mount Carberry Landfill reports that it is not currently required to collect and combust landfill gas under the Landfill NSPS/EG.

Collection and utilization of the landfill gas at an estimated extraction rate of 917 scfm in 2010 would result in direct methane reductions and avoided emissions from conventional electricity sources, equivalent to preventing emissions of **102,000 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 **18,700 passenger vehicles**
- ◆ Carbon sequestered annually by **23,200 acres** of pine or fir forests
- ◆ CO₂ emissions from **11,600,000 gallons of gasoline** consumed
- ◆ CO₂ emissions from **238,000 barrels of oil** consumed

Landfill Gas and Energy Potential



— Gas Generation - - - - Gas and Heat Recovery
LandGEM Peak Recovery Estimation: 2,119 scfm (in 2051)

Incentives for LFG Energy

The state of New Hampshire currently offers the following incentives for LFG energy:

- ◆ The Renewable Portfolio Standard (RPS) program mandates that electricity providers acquire renewable energy certificates (RECs) equivalent to 23.8% of retail electricity sold to end-use customers by 2025. Of these RECs, 16.3% must be derived from sources installed after January 1, 2006. More information about New Hampshire's RPS can be found at <http://www.puc.state.nh.us/Regulatory/rules.htm>.
- ◆ New Hampshire participates in the Regional Greenhouse Gas Initiative (RGGI) through two of its state agencies: the Department of Environmental Services and the Public Utilities Commission. Landfill methane capture and destruction projects are eligible for CO₂ offset allowances under New Hampshire's regulations. More information about RGGI offsets can be found at <http://www.rggi.org/offsets>.

Landfill Location and Potential End Users

