



2008 LMOP PROJECT EXPO

SARPY COUNTY LANDFILL

SPRINGFIELD, NEBRASKA

LANDFILL OVERVIEW

Open Year: 1990

Closure Year: 2010

Waste in Place: 2.8 million tons

Design Capacity: 4.4 millions tons (7.4 million cubic yards)

Annual Acceptance: 180,000 tons (2006)

Landfill Area: 76 acres

Wells in Place: No

Flare in Place: No

Methane Content of Gas: Estimated 50%

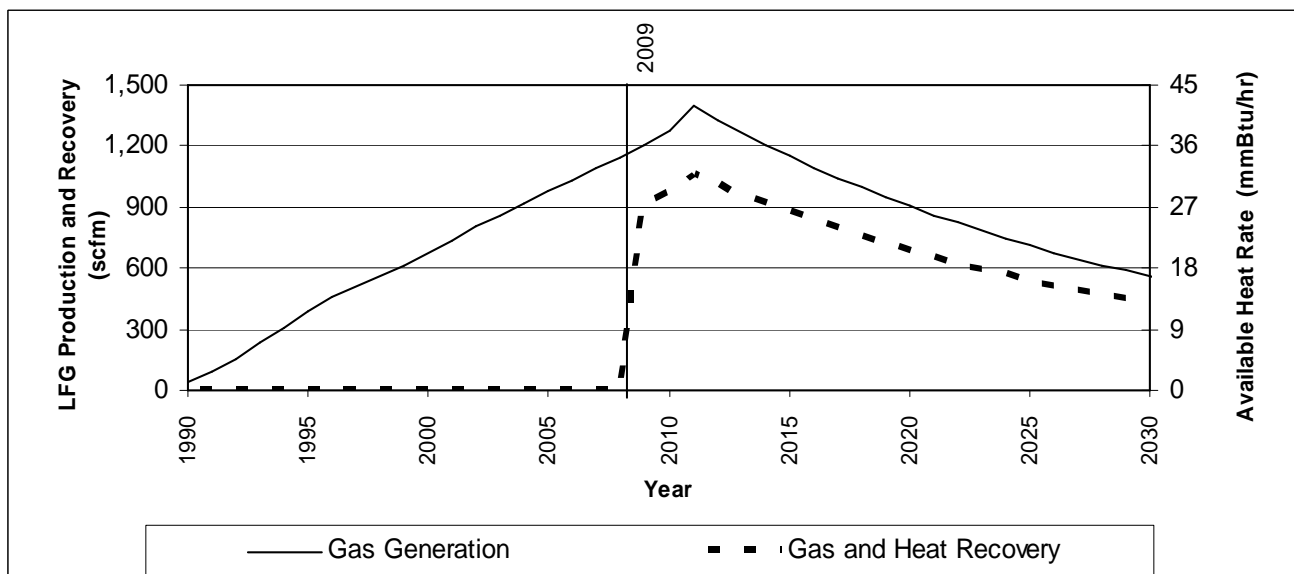
ENVIRONMENTAL BENEFITS

Sarpy County 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 1,208 scfm in 2009 would result in direct methane and avoided emissions from conventional electricity sources, equivalent to preventing emissions of **143,000 metric tons of CO₂e per year**. These emission reductions are equivalent to any one of the following annual environmental benefits for 2009:

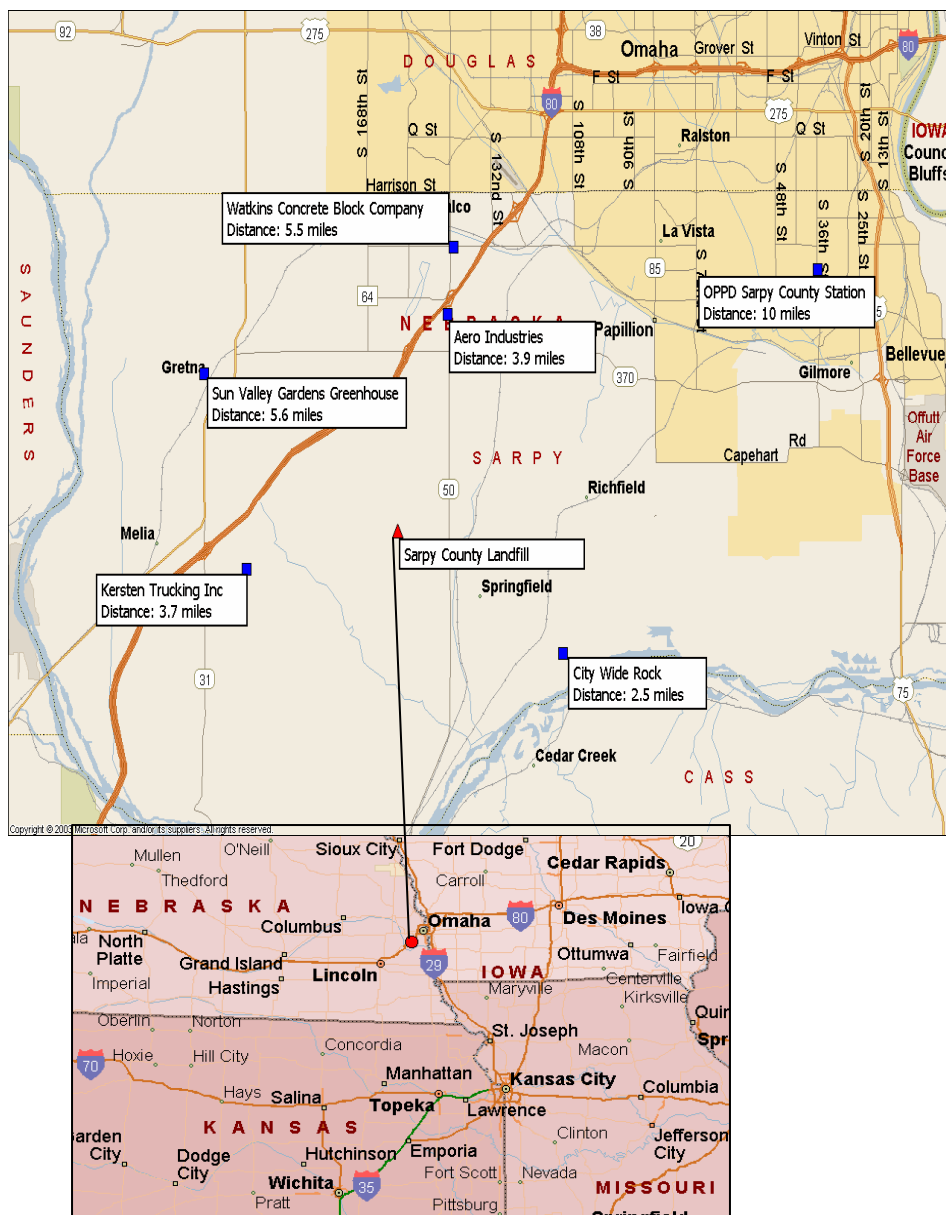
- Annual greenhouse gas emissions from 26,200 passenger vehicles
- Carbon sequestered annually by 32,500 acres of pine or fir forests
- CO₂ emissions from burning 750 railcars' worth of coal
- CO₂ emissions from 333,300 barrels of oil consumed

LANDFILL GAS AND ENERGY POTENTIAL



- LandGEM 2009 LFG Recovery: 1,208 scfm
- LandGEM Peak Recovery Estimation: 1,393 scfm (in 2011)

LANDFILL LOCATION AND POTENTIAL END USERS



ADDITIONAL INFORMATION

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

- Renewable Energy Tax Credit for LFG-fired electrical generating facilities.
- Omaha Public Power District (OPPD) operates a green power program that may provide premium pricing for LFG-fired electrical generation projects.

For more information on project incentives see:

<http://www.epa.gov/lmop/res/guide/index.htm>

FOR MORE INFORMATION

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