



2008 LMOP PROJECT EXPO

CITY OF REDDING/BENTON LANDFILL

REDDING, CALIFORNIA



LANDFILL OVERVIEW

Open Year: Early 1930's

Closure Year: 1990

Waste in Place: 982,000 tons

Design Capacity: 1 million tons

Landfill Area: 35 acres

Waste Depth: 33 feet

Wells in Place: Yes, perimeter collection

Flare in Place: Yes, flaring approximately 84 scfm

Methane Content of Gas: Estimated 60%

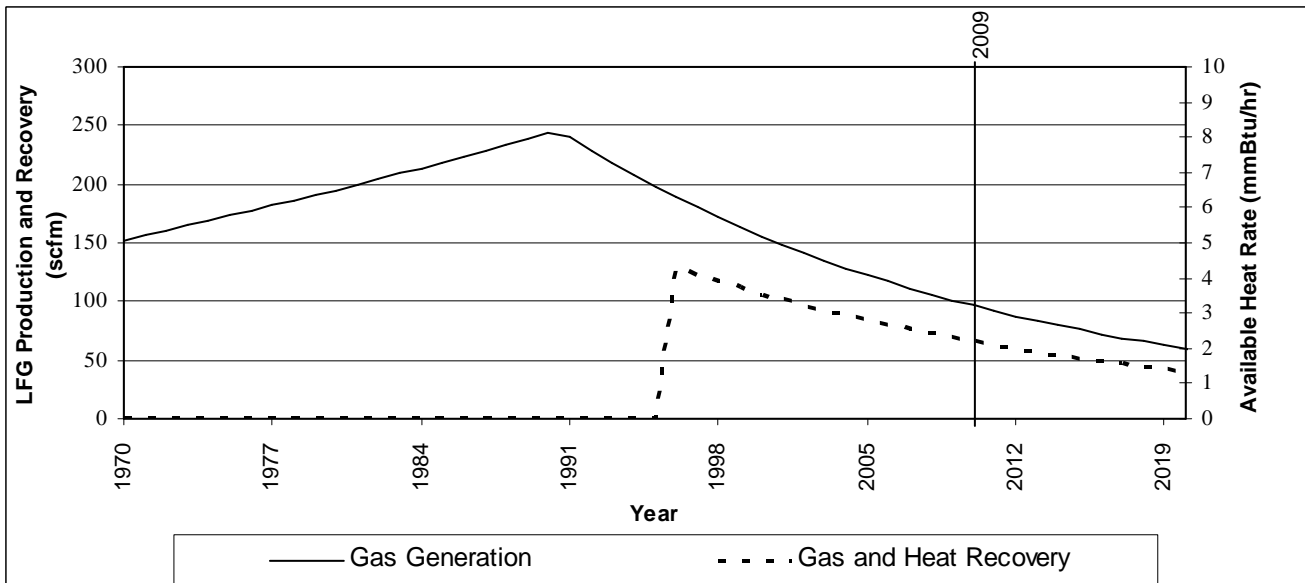
ENVIRONMENTAL BENEFITS

City of Redding/Benton reports it is not currently required to collect and combust landfill gas under the Landfill NSPS/EG. However, LFG is collected to control off site migration of the LFG through a perimeter collection system.

Collection and utilization of the landfill gas at an estimated extraction rate of 76 scfm in 2009 would result in direct methane and avoided emissions from conventional electricity sources, equivalent to preventing emissions of **8,300 metric tons of CO₂e per year**. These emission reductions are equivalent to any one of the following annual environmental benefits for 2009:

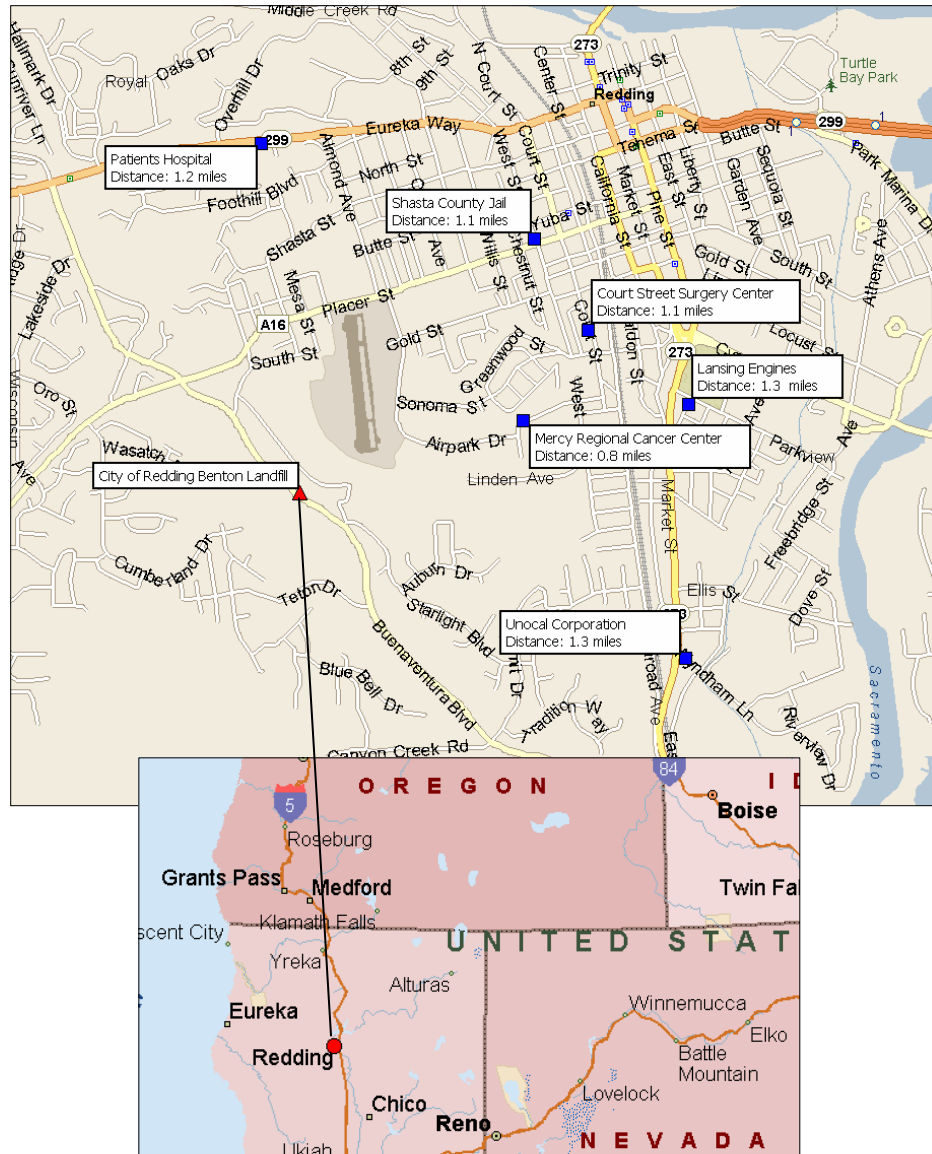
- Annual greenhouse gas emissions from 1,500 passenger vehicles
- Carbon sequestered annually by 1,900 acres of pine or fir forests
- CO₂ emissions from burning 40 railcars' worth of coal
- CO₂ emissions from 19,300 barrels of oil consumed

LANDFILL GAS AND ENERGY POTENTIAL



- LandGEM Peak Recovery Estimation: 142 scfm (in 1996)

LANDFILL LOCATION AND POTENTIAL END USERS



ADDITIONAL INFORMATION

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

- California's Renewable Portfolio Standard (RPS) program requires retail sellers of electricity to increase their sales of eligible renewable-energy resources by at least 1 percent of retail sales per year, so that 20% of their retail sales are served with eligible renewable energy resources by 2010, with a longer-term state goal of 33% by 2020.
- Production-based incentives, referred to as supplemental energy payments (SEPs), are available to eligible renewable generators for the above-market costs of eligible procurement by California's retail sellers to fulfill their Renewable Portfolio Standards (RPS) obligations. As of August 2007, total funding available is approximately \$734 million. More information can be found at <http://www.energy.ca.gov/renewables>.

FOR MORE INFORMATION

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