

# Riverview Land Preserve

## Location:

Riverview Land Preserve  
City of Riverview, Michigan

## Partners:

BioCNG, LLC  
Cornerstone Environmental  
Group, LLC

## Contact:

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## Feedstock:

Municipal Solid Waste

## Maximum Annual Fuel Production:

182,500 Gasoline Gallon  
Equivalents (GGE)

## Vehicles Fueled:

Riverview Land Preserve is currently fueling two demo vehicles with the R-CNG derived from its landfill. They estimate that by the end of the year at least four vehicles will be powered by R-CNG.

## Pay Back Period:

Estimated 5 to 7 Years

## Plant Cost:

\$1.2 million

## Received Funding:

No.

## Technology Providers:

BioCNG, LLC  
ANGI Energy Systems



**In Michigan, landfill gas is being captured and upgraded into renewable compressed natural gas (R-CNG) to power vehicle fleets in the City of Riverview.**

## Summary:

The Riverview Land Preserve landfill gas-to-CNG project became operational in April 2013. Constructed on a state-licensed landfill, the project's primary goal is to fuel the City of Riverview's fleet of 16 police vehicles and 25 work trucks, among others. Riverview Land Preserve consists of a landfill gas upgrading system provided by BioCNG, LLC and a fueling station built by ANGI Energy Systems. A 6.4 MW landfill gas-to-electricity system has been operating at the landfill, but BioCNG, LLC's upgrading system cost-effectively utilizes excess landfill gas that had been flared. At Riverview Land Preserve, the BioCNG system uses 100 standard cubic feet per minute (scfm) of excess landfill gas to obtain roughly 450-550 diesel gallon equivalents (DGEs) per day, with a methane content of 96%.

Two demo vehicles are currently fueled by R-CNG and the City of Riverview has plans to convert several more municipally-owned cars and trucks to run on R-CNG.

## Financing:

Riverview Land Preserve is currently applying for grants but has not been approved yet. Production incentives include the Renewable Fuel Standard (RFS) Reporting Program in which Riverview Land Preserve reports its Renewable Identification Numbers (RINs). The RFS is a program under the Energy Policy Act of 2005 that authorizes the EPA to set annual quotas for the percentage of biofuel blended into motor vehicle fuels. Furthermore, as the City of Riverview acquires more CNG powered fleet vehicles the financial savings associated with the cost of R-CNG fuel will increase.