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## City of Riverview, Michigan Will Power Vehicles with Renewable Natural Gas

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Scheduled for startup in early May 2013, the City of Riverview, Michigan's Riverview Land Preserve will convert about 100 standard cubic feet per minute of excess landfill gas into about 500 gallons of gasoline equivalent of compressed natural gas (CNG). This new vehicle fueling system is in addition to the existing 6.4 MW landfill-gas-to-energy plant already on site, which produces enough energy to power nearly 4,000 homes (data based on [the EPA's LFG Energy Benefits Calculator](#)).

[BioCNG, LLC](#), is part of a team that is assisting with the development of a BioCNG™ alternative vehicle fuel system for the Riverview site. The City is using the patent pending BioCNG vehicle fuel system to convert a portion of landfill gas into CNG, which will be used to fuel City vehicles. [Cornerstone Environmental Group, LLC](#) was the City's engineer for this work.

According to the U.S. Department of Energy, landfills are the third-largest source of human-related methane emissions in the United States. Landfills often flare off these emissions; but in Riverview's case, the gas will be refined for pipeline distribution, increasing the proportion of methane and decreasing the proportion of carbon dioxide and contaminants through absorption, adsorption, membrane separation, or cryogenic separation. Using [an EPA emissions calculator](#) developed specifically for projects like this one, 100 standard cubic feet per minute will yield a reduction of 1,372 tons of annual CO<sub>2</sub> emissions, the equivalent of 1.3M gallons of gasoline or heating for 340 homes.

The BioCNG system will initially be used to fuel two City pick-up trucks and at least one articulated dump truck, with three or four new dual-fuel pickup trucks to be added next fiscal

year. The City also hopes to convert the majority of its fleet including its police interceptors to CNG vehicles. Eventually, the City will make the fuel available to neighboring communities and the landfill's commercial customers.

Robert Bobeck, director of the Riverview Land Preserve, said, "The City is excited about using our resource to provide the same level of service at lower cost to our citizens, and in a greener fashion."

