

Waste Management of Mississippi, Inc. Pecan Grove Landfill and Recycling Center Landfill Gas to Energy Project

Waste Management's Pecan Grove Landfill gas to energy project was Mississippi's first operational project to come on line under the State's Landfill Methane Outreach Program (LMOP) in 2005. In this project, gas from the Pecan Grove Municipal Solid Waste Landfill, located at 9685 Firetower Road in Harrison County near Pass Christian, is captured and treated at the landfill property. This treated gas is then piped to the E.I. Du Pont de Nemours and Company facility (DuPont) located near DeLisle, MS. The DuPont/Delisle plant produces Titanium Dioxide (TiO₂), a whitening agent used mainly in the paper, plastics, and coatings industries.



The Dallas based company Toro Energy, Inc. developed this project in partnerships with DuPont, CPL-LEI Systems, Inc., the U.S. Environmental Protection Agency (EPA), the Mississippi Department of Environmental Quality (MDEQ), the Mississippi Public Utilities Staff (MPUS), the Mississippi Department of Transportation (MDOT), and the owner and operator of Pecan Grove Landfill Waste Management of Mississippi, Inc.

The project involved the laying of over 5.0 miles of pipeline and was designed to process 3,200 scfm of landfill gas (LFG). DuPont currently uses 2,700 scfm of treated LFG to fire boilers at its DeLisle plant. Seamless switching of natural gas and LFG are paramount to the control of plant operations. A direct benefit from this project is the removal of a significant amount of methane, a greenhouse gas (GHG), from the environment. The reduction of GHG from this project would be equivalent to:

- Removing emissions from 6,500 cars on the road for a year or
- Reducing oil consumption by 79,000 barrels per year or
- Heating 20,000 homes per year or
- Reducing coal consumption by 160 rails per year or
- Planting 10,000 acres of forest per year.



In addition to the environmental benefits, DuPont will save more than a million dollars annually in energy costs.

As mentioned above the Pecan Grove Landfill is owned and operated by Waste Management of Mississippi, Inc. WM Renewable Energy, a wholly owned subsidiary of Waste Management national was recognized as a 2011 LMOP Industry Partner of Year. WM Renewable Energy was recognized for 6 new LFG energy projects and the expansion of 2 existing projects in 2011. The company has 7 additional facilities under construction and provides LFG to 132 projects in 29 states and 2 Canadian provinces. In Mississippi, the company, in addition to the project at Pecan Grove Landfill, has plans for future landfill gas to energy projects at other Waste Management landfills in the State.



For more information on the Pecan Grove Landfill Gas to Energy Project, contact:

Mark Noel
Gas Operations Manager
Waste Management of Mississippi, Gulf Coast Area
Ph# 225-667-6137
E-mail mnoel@wm.com