



# Union County Landfill El Dorado, Arkansas

## LMOP PROJECT EXPO

# 2014

### Union County Landfill Overview

#### Open Year

1988

#### Closure Year

Estimated 2028

#### Waste in Place

2.4 million tons

#### Design Capacity

4.67 million tons (permitted)

#### Annual Acceptance

131,700 tons (2013)

#### Landfill Area

48 acres

#### LFG Collection System

GCCS installed in 1996.  
Current LFG flow is  
approximately 550 scfm.

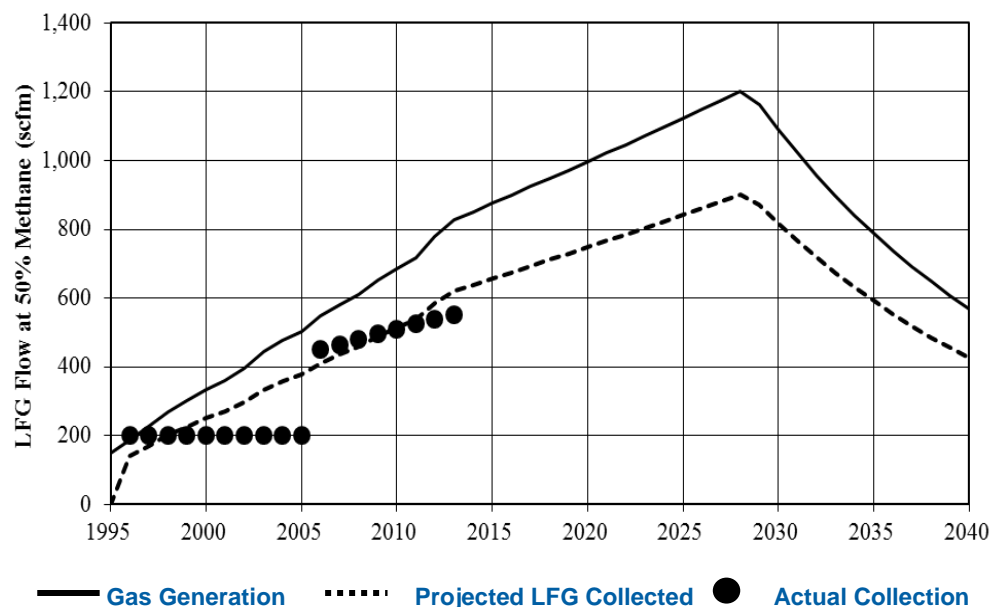
The Union County Landfill is a privately owned and operated landfill located ~7 miles north of El Dorado in south-central Arkansas. The gas control and collection system (GCCS) was installed in 1996 and its last expansion was completed in June 2012. Currently, the landfill owner reports a collection rate of about 550 scfm (50% methane) of landfill gas (LFG). Utilization of this LFG would result in avoided emissions from conventional electricity sources in 2015, equivalent to preventing emissions of nearly **8,500 metric tons of CO<sub>2</sub>e per year**.

These emission reductions are equivalent to any one of the following annual environmental benefits for 2015:

- ◆ Carbon sequestered annually by nearly **7,000 acres of U.S. forests**
- ◆ CO<sub>2</sub> emissions from more than **950,000 gallons of gasoline** consumed
- ◆ CO<sub>2</sub> emissions from more than **19,000 barrels of oil** consumed

The Union County Landfill reports that it is currently required to collect and combust LFG under the Landfill NSPS/EG. Electricity is provided to the landfill by Entergy.

### Landfill Gas Generation and Collection Rates



# Incentives for LFG Energy

The state of Arkansas currently offers some incentives for renewable energy produced from LFG. Resources available that summarize existing incentives include:

- ◆ The Database of State Incentives for Renewables and Efficiency outlines incentive programs and funding options for renewable energy projects in Arkansas – [www.dsireusa.org](http://www.dsireusa.org);
- ◆ U.S. EPA LMOP offers a summary of available federal and state incentives for LFG energy projects as part of its Funding Guide – [www.epa.gov/lmop/publications-tools/funding-guide/index.html](http://www.epa.gov/lmop/publications-tools/funding-guide/index.html).

## Landfill Contact Information

### Union County Landfill

3083 Smackover Highway  
El Dorado, AR 71730

### WCA Waste Corporation (Landfill Owner)

Derrick Standley  
713.292.2412  
[dstandley@wcamerica.com](mailto:dstandley@wcamerica.com)

## Landfill Location and Potential End User Information

- ◆ The Union County Landfill is located near El Dorado, Arkansas, which is about 120 miles south of Little Rock in far southern Arkansas;
- ◆ El Dorado has a population of around 18,000 people and is the county seat for Union County;
- ◆ The landfill is located approximately 7 miles north of the City of El Dorado;
- ◆ The LMOP Locator tool indicates there are about 65 potential LFG end-users located within five miles of the Union County Landfill.