



## Renewable Fuels Facility Overview

<b>Date opened:</b>	April 2012
<b>Facility cost:</b>	\$10 million
<b>Feedstock:</b>	Municipal solid waste
<b>Location:</b>	Seminole Road Landfill, 4203 CleveMont Road, Ellenwood, GA 30294
<b>Partners:</b>	DeKalb County Sanitation Division; Energy Systems Group; Clean Cities Atlanta Petroleum Reduction Program
<b>Potential savings:</b>	Approximately \$3 million in fuel costs annually to the Sanitation Division
<b>Annual fuel production:</b>	1.7 to 2.1 million gasoline gallon equivalents
<b>Vehicles fueled:</b>	Sanitation Division vehicles (with the goal to adapt entire 300-vehicle fleet to run on CNG by (insert date); public CNG vehicles; off-site through the Atlanta Gas Light pipeline

### Facts:

- First facility in the nation to generate electricity, renewable natural gas (RNG) and renewable compressed natural gas (R-CNG) from landfill gas (LFG), and have a fueling station at one location.
- With the 75-year remaining life span of the Seminole Road Landfill (as of 2019), the facility was constructed with the possibility of future expansion to produce twice the current 1,300 standard cubic feet per minute.
- Fuel dispensers at the fueling stations can be increased from two to four double-sided dispensers.
- CNG fuel cost is \$2.10 per gallon, which is lower than regular gasoline.
- The Sanitation Division's fleet currently has one third of its fleet running on CNG.
- The Sanitation Division hopes to convert all vehicles within its fleet to CNG within the next decade.

### Production process:

- Landfill gas is collected from the decomposition of approximately 2,000 tons of waste transported to the Seminole Road Landfill daily.
- Waste is turned into renewable natural gas by removing all compounds, except methane.
- RNG is then partially compressed on-site to produce R-CNG.
- R-CNG is used to fuel the Sanitation Division's CNG fleet and the general public CNG vehicles.
- Excess R-CNG is used for the Atlanta Gas Light natural pipeline to other fueling stations.

