

## Landfill Gas-To-Energy Facilities -- No. 500809

Category	Solid Waste-Sanitation	Date Last Modified	June 03, 2008
Subcategory	Solid Waste Management	Required Adequate Public Facility	No
Administering Agency	Environmental Protection	Relocation Impact	None.
Planning Area	Countywide	Status	Under Construction

### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY07	Est. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	0	0	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Other	7,500	0	5,250	2,250	2,250	0	0	0	0	0	0
<b>Total</b>	<b>7,500</b>	<b>0</b>	<b>5,250</b>	<b>2,250</b>	<b>2,250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### FUNDING SCHEDULE (\$000)

Solid Waste Disposal Fund	7,500	0	5,250	2,250	2,250	0	0	0	0	0	0
<b>Total</b>	<b>7,500</b>	<b>0</b>	<b>5,250</b>	<b>2,250</b>	<b>2,250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### OPERATING BUDGET IMPACT (\$000)

Program-Other				-385	-35	-70	-70	-70	-70	-70
Offset Revenue				-3,178	-350	-651	-605	-563	-523	-486
<b>Net Impact</b>				<b>-3,563</b>	<b>-385</b>	<b>-721</b>	<b>-675</b>	<b>-633</b>	<b>-593</b>	<b>-556</b>

#### DESCRIPTION

The project provides for the development of landfill gas-to-energy beneficial use facilities at each of the County's two closed landfills to: manage the gas at each facility; generate revenue for the County; and achieve substantial environmental benefits through substitution of clean, green energy for fossil fuel energy. The closed Oaks Landfill near Laytonsville and the closed Gude Landfill near Rockville both generate large volumes of landfill gas as the trash in the landfills biodegrades. Currently, the gas is flared at both facilities. Flaring mitigates hazards, but does not take advantage of the energy and revenue potential from the gas.

#### COST CHANGE

Not applicable.

#### JUSTIFICATION

The County is required by environmental, health and safety regulations to manage the landfill gas at the closed Oaks and Gude Landfills. Currently, the County pays contractors and uses in-house staff for the operation and maintenance of the gas flaring facilities and gas collection systems at a cost of approximately \$100,000 per year for the two sites. The Northeast Maryland Waste Disposal Authority (NMWDA), on behalf of the Division of Solid Waste Services, issued a Request for Proposals and received several viable proposals, indicating that not only is there a strong potential to develop landfill gas-to-energy facilities at each of these landfills, but even conservatively projected electricity revenues will offset the project costs. Another benefit will be 24-hour per day, seven day per week monitoring of the landfill gas management systems.

#### OTHER

The project will be implemented by the Northeast Maryland Waste Disposal Authority (NMWDA) on behalf of the County.

#### APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY07	(\$000)
First Cost Estimate		
Current Scope	FY08	7,500
Last FY's Cost Estimate		7,500
Appropriation Request	FY09	0
Appropriation Request Est.	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		7,500
Expenditures / Encumbrances		0
Unencumbered Balance		7,500
Partial Closeout Thru	FY06	0
New Partial Closeout	FY07	0
Total Partial Closeout		0

#### COORDINATION

Northeast Maryland Waste Disposal Authority  
 Maryland National Capital Park & Planning Commission  
 Maryland Department of the Environment  
 Department of Permitting Services  
 Department of Environmental Protection  
 Utilities

#### MAP

