



United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

Landfill and Project Information
Landfill Methane Outreach Program (LMOP)

Instructions:

-Please update the data in the following worksheet(s), for the purpose of updating LMOP's landfill and landfill gas energy project database.
-Any data already contained in LMOP's database of landfills and landfill gas energy projects have been inserted into the fields.
-Please update or fill in the fields that have yellow background; the fields with blue background do not require edit.
-A project that has more than one end user and/or has changed in size over time has multiple worksheets; and a landfill that has more than one project has multiple worksheets - in both cases, the landfill data are listed only once - in the first worksheet for that landfill (in the other worksheets for that landfill, the rows for the landfill data are hidden).
-If your organization has been involved with additional landfills/projects for which a worksheet is not already included, please make as many copies of an existing worksheet as needed to accommodate your other landfills/projects.
-As you make edits in the worksheet(s), the cells' formatting will change - this quickly shows LMOP what cells have been edited upon the file's re
-If you consider any of the information requested to be confidential, do not provide that information and fill in "confidential" instead.
-Please email questions about this effort to EPA-LMOP@erg.com.
Thank you for your assistance!

Definitions of Fields in Following Worksheet(s):

Landfill Name - Name of landfill

Landfill City - City landfill is located in or near

Landfill County - County landfill is located in

Landfill State - State landfill is located in

Landfill Owner - Organization that owns the landfill

Owner Type - Is landfill owner a public or private organization?

Year Landfill Opened - Year landfill opened or began accepting waste

Landfill Closure Year - Year landfill closed or is expected to close or year landfill stopped accepting waste or is expected to stop accepting waste

Designed Landfill Area - Design waste mass area of landfill

Current Landfill Area - Current waste mass area of landfill

Designed Landfill Depth - Design waste mass depth of landfill (maximum or average)

Current Landfill Depth - Current waste mass depth of landfill (maximum or average)

Design Capacity - Waste design capacity of landfill

Amount of Waste In Place - Current waste-in-place at the landfill

Year Waste In Place Represents - Year corresponding to the waste-in-place at the landfill

Annual Waste Acceptance Rate - Annual acceptance rate of waste at the landfill

Year Annual Waste Acceptance Rate Represents - Year corresponding to the annual waste acceptance rate at the landfill

Is landfill currently required by New Source Performance Standards or Emissions Guidelines (NSPS/EG) to combust landfill gas? - Is the landfill required by NSPS, EG, or other federal regulation to combust LFG?

If yes or not yet, by what date? - If the landfill is required by NSPS, EG, or other federal regulation to combust LFG, by what date?

How much landfill gas is generated? - Estimated amount of landfill gas generated by landfill

Is a collection system in place? - Is there an active landfill gas collection system in place?

If yes, how much gas is collected? - Amount of landfill gas being collected



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Are there flares in place? - Is there one or more flares in place at the landfill?

How much gas is flared? - Amount of landfill gas flared

Project Type - Specific type of LFG energy project (Reciprocating Engine, Direct Thermal, Boiler, Cogeneration, Gas Turbine, High Btu, Leachate Evaporation, Microturbine, Steam Turbine, Combined Cycle, Medium Btu, Greenhouse, Liquefied Natural Gas, Stirling Cycle Engine, Alternative Fuel, Fuel Cell, Organic Rankine Cycle, Methane Synthesis, Condensate Evaporation, Unknown)

LFG Use Details - Details about the specific use of landfill gas (e.g., cement kiln, co-fired with natural gas in boiler, eight 30-kW microturbines)



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What is the status of the LFG energy project? - Current project status (Operational, Construction, Shutdown, Candidate, Potential)

Definitions of "Candidate" and "Potential" designations in LMOP database:

Candidate - A landfill that is accepting waste or has been closed for five years or less, has at least one million tons of waste, and does not have an operational or under construction LFG energy project; or is designated based on actual interest or planning.

Potential - A landfill that does not meet the candidate definition, whether because of complete or incomplete data. However, the landfill could have LFG energy project potential based on site-specific needs or if data were complete.

On what date did or will the project become operational? - Date project became/is expected to become operational

If the project is shutdown, on what date did it shut down? - Date project shut down

LFG flow to project - Amount of landfill gas flowing to LFG energy project or that will flow to the project when it becomes operational

Capacity - Capacity for electricity-generating LFG energy projects

Capacity Type - MW capacity type - Estimated, Other, or Unknown

Capacity Description for Capacity Type of "Other" - Further description of the MW Capacity type if type is 'Other'

Who developed/is developing the project? - Name of project developer organization

Who is or will be the end user of the LFG energy? - Organization name of potential or actual end user of the landfill gas, electricity, or waste heat recovered

List any other parties involved in this project - Organizations other than the landfill owner, landfill operator, project developer, and end user that are involved in the project

What federal, state, or local funding resource(s) was or will be used to fund this project? - Names of funding resources used or planned to be used to help fund the LFG energy project

The public reporting and recordkeeping burden for this collection of information is estimated to average 5.7 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

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Landfill ID #	Partner	
Field Name	Data	Units of Measure / Format
Landfill Name		
Landfill City		
Landfill County		
Landfill State		2-letter abbreviation
Landfill Owner		
Owner Type		Public or Private
Year Landfill Opened	yyyy	LANDF
Landfill Closure Year	yyyy	LANDF
Designed Landfill Area	acres	DESIGNI
Current Landfill Area	acres	CURREI
Designed Landfill Depth	feet	DESIGNEI
Current Landfill Depth	feet	CURREN
Design Capacity	short tons	
Amount of Waste In Place	short tons	AMOUNT_OF
Year Waste In Place Represents	yyyy	YEAR_WASTE_IN_PL
Annual Waste Acceptance Rate	short tons/year	ANNUAL_WASTE_/
Year Annual Waste Acceptance Rate Represents	yyyy	YEAR_ANNUAL_WASTE_ACCEPTANCE_F
Is landfill currently required by New Source Performance Standards or Emissions Guidelines (NSPS/EG) to combust landfill gas?	Yes/No/Unknown	IS_LANDFILL_REQUIRED_BY_NSPTS_EG_
If yes or not yet, by what date?	mm/dd/yyyy	IF_YE
How much landfill gas is generated?	mmscfd (million standard cubic feet per day)	LFG_GE
Is a collection system in place?	Yes/No/Unknown	IS_LFG_COLLECTION_
If yes, how much gas is collected?	mmscfd (million standard cubic feet per day)	LFG_CC
Are there flares in place?	Yes/No/Unknown	ARE_
How much gas is flared?	mmscfd (million standard cubic feet per day)	LFG

Project ID #	Project Name	
Expansion ID #		

How is the recovered landfill gas used or intended to be used? For example, is the landfill gas burned directly in a boiler or heater, used as fuel for a turbine generating electricity that is sold, etc.

- Project Type	
- LFG Use Details	

What is the status of the LFG energy project?	Operational, Construction, Candidate, Potential, Shutdown	CURRENT
On what date did or will the project become operational?	mm/dd/yyyy or just yyyy if that is all that is known	PR
If the project is shutdown, on what date did it shut down?	mm/dd/yyyy or just yyyy if that is all that is known	PI

How much energy is or will be recovered? For direct-use projects, provide the LFG flow.
For electricity projects, provide both MW capacity and LFG flow, if known.

LFG flow to project	mmscfd (million standard cubic feet per day)	LFG_F
Capacity	MW (megawatts)	
Capacity Type	Estimated, Other, Unknown	
Capacity Description for Capacity Type of "Other" (e.g., nameplate, rated, actual)		
Who developed/is developing the project?		
Who is or will be the end user of the LFG energy?		

List any other parties involved in this project

What federal, state, or local funding resource(s) was or will be used to fund this project? [Please provide just the name(s) of the resource(s).] Some examples* are: Renewable Electricity Production Credit, Clean Renewable Energy Bonds, Energy Efficiency and Conservation Block Grant Program, PA Energy Harvest Grant.

*More funding resources are listed in LMOP's online funding guide at <http://www.epa.gov/lmop/publications-tools/funding-guide/index.html>.