

MUNICIPAL SOLID WASTE INITIATIVE

LANDFILL GAS (LFG) PROJECT SCREENING TOOL

Landfills and open dumps are a significant source of methane emissions. Landfill gas energy (LFG) projects that capture and use methane from these sites can generate substantial climate, health, and economic benefits.

The Climate and Clean Air Coalition Municipal Solid Waste Initiative (Waste Initiative) developed the [Landfill Gas \(LFG\) Project Screening Tool](#) to assist stakeholders in assessing the potential feasibility of LFG projects. The tool estimates how much LFG could be collected at a dump site or landfill and provides examples of project types that would be most appropriate for a municipality.

INPUTS AND OUTPUTS

The tool requires only six waste-related data points (e.g., estimated annual waste disposal rate, site open and closing year). Users are also asked to complete a checklist to identify community energy needs and potential LFG end users.

Based on these inputs, the tool provides the following outputs:

- Estimated LFG recovery rate
- The number of years into the future that the LFG recovery will remain above specific gas flow rate thresholds
- Preliminary, qualitative project feasibility assessment
- Recommended project types (e.g., electricity project, direct use project) and size options
- Example applications for each potentially feasible project type (e.g., compressed natural gas vehicle fuel, cook stoves).

ABOUT THE COALITION

The Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants (Coalition) is a voluntary global partnership of governments, intergovernmental organizations, business, scientific institutions and civil society committed to catalysing concrete, substantial action to reduce SLCPs (including methane, black carbon and many hydrofluorocarbons). The Coalition works through collaborative initiatives to raise awareness, mobilise resources, and lead transformative actions in key emitting sectors.

KEY FEATURES

- MS Excel-based
- Free and readily available
- Highly automated to reduce user burden
- Based on best-available methods and data

ACCESSING THE LFG PROJECT SCREENING TOOL

The tool is available to download from the Waste Initiative's Knowledge Platform: <http://www.waste.ccacoalition.org/tool>.

MORE INFORMATION

www.waste.ccacoalition.org
www.waste.ccacoalition.org/tool

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CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS