LMOP Partner Webinar

Update on LMOP Resources & Introduction to Electronic Reporting

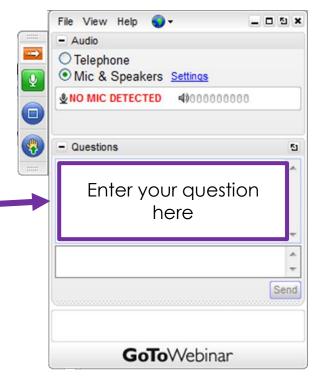




LANDFILL METHANE OUTREACH PROGRAM

Reminders

- All participants (except speakers) are in listen-only mode
- Questions submitted during the webinar will be reviewed at the end of the webinar
 - $_{\rm O}$ Type a question here
- If you are experiencing technical difficulties, please let us know using the Questions pane on the right side or contact Jay Gallo at 203-687-9432





Welcome and Presentation Overview

- Webinar Purpose
- Agenda

LMOP Program update - LMOP Partners and projects
LMOP Program Resources
Electronic reporting of voluntary LMOP data

• Slides will be emailed to all participants



Status of LMOP

More than 1,100 Partners

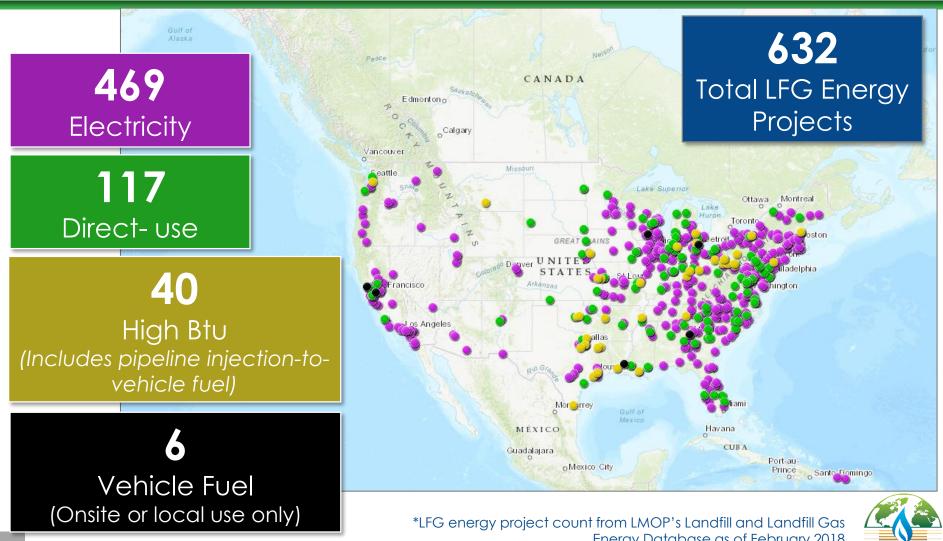
Industry Partners	773
Community Partners	145
Energy Partners	110
Endorsers	39
State Partners	39

U.S. EPA's Landfill Methane Outreach Program (LMOP):

- Established in 1994
- Voluntary program that creates partnerships among landfill owners and operators, states, municipalities, energy users and providers, and the LFG industry and communities

Mission: To work cooperatively with industry and stakeholders to reduce or avoid methane emissions from landfills by encouraging the recovery and beneficial use of biogas generated from organic municipal solid waste.

U.S. LFG Energy Project Types



LMOP Resources and Intro to Electronic Reporting

Energy Database as of February 2018



Update on LMOP Tools and Resources

Benefits Calculator LFG Cost Landfill and LFG Energy Database National Map



Updated Tools and Resources in 2017

Benefits Calculator

 Updates: added capability to estimate avoided emissions for electricity generating projects based on their regional location

• LFGcost-Web

- Evaluate the initial economic feasibility of an LFG energy project
- o 12 LFG energy project options

 $_{\odot}$ Updated to Version 3.2 in 2017



Upper

Midwest (WMW)

Lower

Midwest

(SC)

Texas

(TX)

Great Lakes / M

Southeast (SE)

Atlantic (EMW

Northwest

(NW)

Californ

(CA)

Rocky

lountains

Map of 10 AVERT Regions



LFGcost-Web V3.2 – Recent Updates

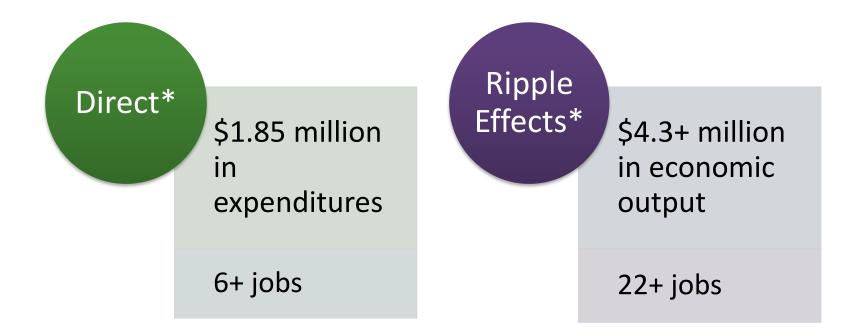
- Estimate job creation and regional economic ripple effects for engine or direct-use projects
- Enter defined project size (LFG flow rate) without entering landfill waste data
- Estimate/lookup electricity revenue and avoided CO₂ emissions based on regional grids





Example LFGcost-Web Analysis

• Example: State-wide Economic Impacts of Constructing a 3-MW Engine Project



*Source: LFGcost-Web, Version 3.2. U.S. EPA LMOP. <u>epa.gov/lmop/lfgcost-web-landfill-gas-energy-cost-model</u>. Analyses performed using LFGcost-Web are considered estimates and should be used for guidance only.

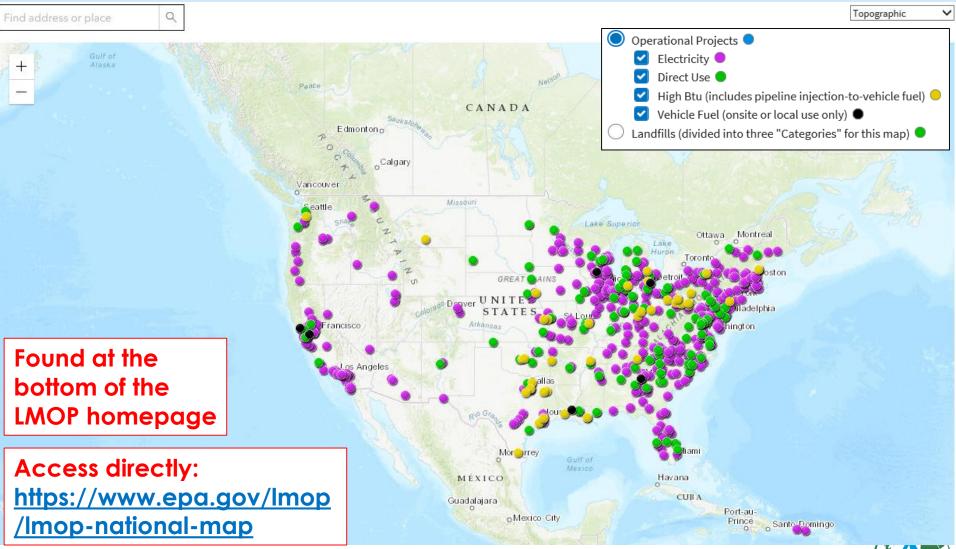


Background: LMOP Database

- LMOP Database is the only one of its kind
 - Information on 2,400+ MSW landfills and 630+ operational LFGE projects
 - $_{\odot}$ Data is a key resource for the U.S. GHG Inventory
- Available to download in Excel files:
 - o State specific files
 - o LFGE project data
 - Landfill data
 - o Candidate landfills
- Updated files published to the website 2-3 times per year



LMOP National Map – New in Dec. 2017





LMOP National Map

Show map in browser



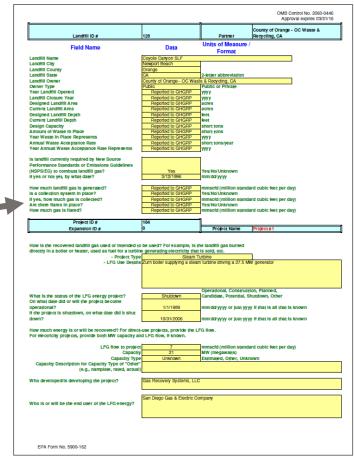
Introduction to Electronic Reporting

Voluntary data collection What data elements we collect What is e-GGRT What happens next



LMOP Partner Reporting

- LMOP updates landfill and LFG energy project data through communication with Partners*
 - Traditionally, LMOP has requested information from Partners via email with <u>Excel spreadsheets</u>
 - Spreadsheets are populated with data from LMOP Database
 - Partners review the data and email back updates
- Data collected is used to update LMOP's Database



*Authorized by ICR No. 1849.07, OMB Control No. 2060-0446



Data Collection Improvements

- In 2018, LMOP will transition to electronic reporting of voluntary data using e-GGRT
 - e-GGRT is a web-based system for annual reporting to the Greenhouse Gas Reporting Program (GHGRP; 40 CFR Part 98)
 - MSW landfills that meet reporting threshold report to **Subpart HH**
 - LMOP will add a voluntary module to e-GGRT for the purpose of entering data about LFG recovery and beneficial use projects
- Electronic reporting will streamline and improve the efficiency of reporting voluntary LMOP data





Voluntary Reporting through e-GGRT: Basics

- LMOP will invite Partner POCs to access the LMOP module in e-GGRT
- If you already have an e-GGRT account, you <u>do not</u> need to register again to utilize the system
- Users will review and update data for projects
- LMOP will populate data in the forms using the current LMOP Database so that information will not need to be re-entered
- Each year, LMOP Partners will review their project(s) data and make updates as necessary



Options for LMOP Data Reporting via e-GGRT

A. LMOP Partner reviews & reports data

- The e-GGRT user will be the LMOP Partner organization's main POC
- Good for Partner organizations with a few projects

B. LMOP Partner delegates additional person(s) to review/report data on a project by project basis

- This occurs on a project level basis, and can be delegated to unlimited other users (they will each need to have an e-GGRT account)
- Good for Partner organizations with many projects



Primary Partners for Data Reporting

- Many LMOP Partners can be involved in one LFGE project
 - o Landfill owner, project developer, end user, etc.
 - Note: LMOP will only request data from LMOP Partners
- To streamline electronic reporting, LMOP is introducing the concept of a <u>Primary Partner</u> to report on each project
 - To be used in cases where there is more than one partner involved in the project
- You will be notified via email within the next month if you have been designated as a Primary Partner



"Primary Partner" - An Overview

• The "Primary Partner" will be responsible for updating LMOP on the project

o Primary Partner will log into e-GGRT and review the project details

- Not involved in the project any more?
 Let us know! We will reassign this role to another LMOP Partner
- Don't know all of the landfill or project details? Are you assigned to too many projects?

You can delegate others to review and report data for projects



But I'm already reporting Data to Subpart HH...

- There is no duplication in data collection between
 LMOP voluntary request and Subpart HH
- Where the data is collected by GHGRP, LMOP <u>will not</u> request the same data (e.g., landfill open/closure years, landfill design capacity, amount of LFG collected)
 - LMOP will update the LMOP Database with the latest GHGRP data as it is published annually
 - LMOP and Subpart HH are separate modules in e-GGRT

LMOP will be mindful of GHGRP reporting deadlines and will minimize conflicts in data requests



LMOP Voluntary Data vs. Subpart HH Data

LMOP Voluntary Data	Subpart HH (Municipal Solid Waste Landfills) of the GHGRP
 Data is focused on LFG energy project information 	 Data is focused on GHG emissions, information about the landfill (landfill operations status, waste disposal quantity, waste disposition)
 Annual reporting Traditionally data requested via Excel; transitioning to a separate voluntary module in e-GGRT 	 Annual reporting through e-GGRT
 Participation in LMOP is voluntary Request for data from Partners is authorized through an approved ICR 	Required by 40 CFR Part 98



This Sounds Complicated!

- We will help you every step of the way

 Webinars when reporting begins
 Email or phone assistance
- There is only one webpage of data to review per project
- The data will be pre-populated with information that already exists in the LMOP Database
 - If all is correct, you only have to click once to mark the data as reviewed



Why?

- Streamlines data collection
- Provides more accurate information on LFG energy projects to share the important achievements of LMOP Partners
- Providing project updates is a requirement of being an LMOP Partner
- LMOP's Database is widely used only one of its kind!





Questions

Q&A

Next steps Contact information



Next Steps

- We will reach out to all LMOP POCs to ensure we have the right POC at your organization
 - Contact us if there is a better POC for the LMOP module in e-GGRT
 - Perhaps a more technical person (if you are administrative)
 - Someone who is already an e-GGRT user
- Look out for emails from us about timeline, next steps, Primary Partner assignments, e-GGRT invitation instructions



Wrap Up

- Slides from today's presentation will be emailed to all participants.
- To learn more about EPA's LMOP program, visit LMOP's website at www.epa.gov/LMOP
- Please fill out the webinar evaluation form.
 - Your feedback is much appreciated









- Project Development Handbook LFGcost-Web
- LFG Energy Benefits Calculator
- Resources for Funding

National Map of LFG Energy Projects





Please reach out with any questions or comments

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