

15th Annual LMOP Conference & Project Expo



***Your LMOP... Tom Frankiewicz,
Swarupa Ganguli, Chris Godlove, and
Victoria Ludwig***

***U.S. Environmental Protection Agency
Landfill Methane Outreach Program (LMOP)***



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LMOP Events



LMOP Capitol Club



LMOP Platinum



LMOP Gold



LMOP Friend

AXDSIC

AXD-Leader in Blower Gas Skids



Exhibits and Expo

Be sure and visit the 82 Exhibits and 7 Project Expo Landfills!!!





Project Expo Landfills

Arizona

- *Cinder Lake Landfill (RFP)*
- *Rio Rico MSW Landfill*

California

- *Tehama County/Red Bluff Landfill*

Minnesota

- *Rice County Landfill*

Missouri

- *Eagle Ridge Landfill*

New Jersey

- *NJMC 1-E, Kingsland & Erie landfills (RFP)*

Washington

- *Port Angeles Landfill (RFP)*



Project Snapshot

(December 2011)

- **576 operational projects currently**
 - 14.3 billion kWh of electricity produced and 102 billion cubic feet of gas delivered in '11
- **At least 40 projects under construction for '12 & more in the advanced planning stages**
- **At least 510 candidate landfills with 1,155 MW of potential capacity *or* 215 billion cubic feet/yr of LFG for direct use – either way, ~13 MMTCE in potential emission reductions!**



Estimated 2011 Environmental and Energy Benefits

- **Environmental:**

- Carbon sequestered annually by nearly **21,400,000 acres of pine or fir forests**, or
- CO₂ emissions from more than **233,000,000 barrels of oil consumed**, or
- Annual greenhouse gas emissions from nearly **19,200,000 passenger vehicles**, or
- CO₂ emissions from burning **524,000 railcars' worth of coal**

- **Energy:**

- Powering nearly **1,041,000 homes** and heating **734,000 homes**



'11 New LFG Energy Projects and Expansions On Line

- *Morgan County Regional LF, AL
- *Naples SLF Collier County, FL
- *Orange County SLF, FL
- *Zemel Road LF, FL
- *Dougherty County Fleming/Gaissert Road LF, GA
- *Fort Benning LF, GA
- *SR247 MSW LF, GA
- *Rochelle Municipal #2, IL
- *Jefferson Parish LF, LA
- *Woolworth Road LF, LA
- *Southbridge LF, MA
- City of Midland SLF, MI
- *Eagle Valley LF, MI
- *Smiths Creek LF, MI
- Burnsville SLF, MN
- *City of Columbia SLF, MO
- *Golden Triangle Regional LF, MS
- *Flathead County SWD Central LF, MT
- *Piedmont SLF, NC
- *Sampson County LF #2, NC
- *Turnkey Recycling & EE, NH
- *WMI Suburban R&D LF, OH
- *Sooner LF, OK
- *Chrin Brothers LF, PA
- *Seneca LF, PA
- *Berkeley County LFs, SC
- *Richland County LF, SC

* = LMOP-Assisted

Green = Project Expansion

Red = Past Project Expo Site⁷



'11 New LFG Energy Projects and Expansions On Line (cont.)

- *Wellford LF, SC (2 projects)
- *Alcoa/Maryville/Blount County LF, TN
- ***Bi-County LF, TN**
- ***Chestnut Ridge LF, TN**
- *Meadow Branch LF, TN
- *Camelot LF, TX
- *McKinney LF, TX
- ***I-66 LF, VA**
- Independent Hill LF, VA
- ***King George LF, VA**
- *Old Dominion LF, VA
- *Dane County LF – Rodefeld, WI
- *Veolia ES Hickory Meadows LF, WI
- *City of Charleston LF, WV



'12 Under Construction Projects & Expansions

- *Black Warrior SWF, AL
- *Coffee County SLF, AL
- *Magnolia Subtitle D MSW LF, AL
- Scottsboro LF, AL
- Tangerine Road MSW LF
- *BENA SLF, CA
- *Neal Road LF, CA
- *Olinda Alpha SLF, CA
- *Ostrom Road LF, CA
- Redwood SLF, CA
- *South Dade SWDF, FL
- Seminole Road MSW LF, GA
- *Veolia ES Taylor County LF, GA
- Wolf Creek LF, GA
- Des Moines County SLF, IA
- *Iowa City LF, IA
- *Prairie View RDF, IL
- *Rochelle Municipal #2, IL
- Munster LF, IN
- *Taunton LF, MA
- Pine Tree Acres LF, MI
- *East Central SLF, MN
- *Fulton SLF, MO
- *IESI LF, MO
- Woodland Meadows LF, MI
- *St. Joseph City SLF, MO
- *Three Rivers Regional LF, MS



'12 Under Construction Projects & Expansions (cont.)

- ***Buncombe County LF (New), NC**
- ***Charlotte Motor Speedway LF, NC**
- *Columbus County, ARS, NC
- ***Gaston County LF, NC**
- *Orange Regional LF, NC
- *Watauga County LF, NC
- *Sussex County LF 1-E, NJ
- *Apex Regional LF, NV
- Lockwood Regional LF, NV
- **Al Turi LF, NY**
- **DANC/SWMF (Rodman), NY**
- **Seneca Meadows LF, NY**
- *Hancock County SLF, OH
- ***Roseburg LF, OR**
- *Mostoller LF, PA
- Carolina LF, PR
- ***Newport News SWDF No. 2, VA**
- Clint LF, TX
- *Martinsville City LF, VA
- *SPSA Regional LF, VA
- Bovoni LF, VI
- **Chittenden County LF, VT**
- ***La Crosse County LF, WI**
- Veolia ES Emerald Park LF, WI



LMOP Partner and Endorser Update

- **Currently 1,016 Partners and Endorsers**
 - 707 Industry Partners
 - 113 Energy Partners
 - 39 State Partners
 - 122 Community Partners
 - 35 Endorsers
- **67 new Partners joined in 2011**
 - 54 Industry Partners
 - 5 Energy Partners
 - 0 State Partners
 - 3 Community Partners
 - 5 Endorsers



LMOP 2011 Accomplishments

- **Website additions/improvements:**
 - Made search tool “LMOP Locator” publicly available
 - Updated Marketing & Communications Toolkit
 - Added example RFPs
 - Revamped Industry Partner expertise categories
- **Added boiler retrofit cost analysis to *LFGcost***
- **Supported 7 LFG energy project ribbon-cutting events**
- **Sent 50+ listservs about RFPs/RFQs, funding announcements, etc.**
- **Began development of International Best Practices Guide**



LMOP Locator Main Search Screen

This tool uses select data from:

-EPA's National Emissions Inventory
(NEI 2005 version 2 - 2009)

Single

Single Search for Potential End Users or Landfills

-EPA's Boiler/Process Heater NESHAP
2008 Survey database (2011 file)

Batch

Batch Search for Potential End Users or Landfills

-EPA's Renewable Fuel Standards
(RFS) List of Registered Fuel
Providers (2008 data)



View Previous Matches for Potential End Users or Landfills

-US DATA Corporation (2011 data)

to list potential end users of
landfill gas.



Exit Access

The tool also allows users to
search for landfills near an end
user, using data from:

-LMOP Landfill/LFG Energy Project
Database (updated monthly)

You are here: [EPA Home](#) » [Landfill Methane Outreach Program](#) » [Partners](#) » [Marketing & Communications Toolkit](#) » [Sample Outreach Tools](#)

- LMOP Home
- Basic Information
- Energy Projects and Candidate Landfills
- Partners
 - Industry Partners
 - Energy Partners
 - State Partners
 - Community Partners
 - Endorsers
- Join the Program
- Publications / Tools
- Newsroom
- Workshops / Conferences
- International Activities
- Frequent Questions

Sample Outreach Tools

Many of the communication tools presented here are samples for you to use or adapt for your organization, or they can serve as a springboard for your own outreach ideas. Marketing efforts often include: "external promotions" for the community and general public, and "internal promotions" for your organization's employees (including management), customers, energy users, and shareholders. Regarding external promotion, providing accurate and succinct information to media contacts improves your chances of securing media interest in your event or project.

Marketing & Communications Toolkit

- [Marketing & Communications Toolkit Home](#)
- [Communicating the Benefits of Landfill Gas Energy Projects](#)
- [Sample Outreach Tools](#)
- [Feedback Form](#)

Communication Tools

Invitations for Ribbon-cutting or Ground-breaking Event	Black/White (PDF) (2 pp, 55K) Color (PDF) (2 pp, 186K)	Black/White MS Word (2 pp, 1 MB) Color MS Word (2 pp, 1.3 MB)
Talking Points for Presentations, Speeches, and Briefings	PDF (1 pg, 21K)	MS Word (1 pg, 32K)
Checklists for Groundbreakings, Ribbon Cuttings, and Site Tours	PDF (3 pp, 20K)	MS Word (3 pp, 40K)
The Path from Trash to Energy Illustration	Lo Res PDF (1 pg, 121K) Hi Res PDF (1 pg, 1.9MB)	
Press Releases		MS Word (1) (1 pg, 22K) MS Word (2) (1 pg, 21K)
Media Releases		MS Word (1 pg, 21K)
Newsletter Article		MS Word (1 pg, 21K)
Interview Tips		

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Technical and Informational Tools

General Information

- [LMOP and Landfill Gas Energy: The Power of Partnership \(PDF\)](#) (4 pp, 401K)
 To order this document from the NSCEP/NEPIS website, access it at [item number 430F10012](#). Then add the item to your shopping cart, select the checkbox next to the item, and order the publication.
- [Landfill Gas: Creating Green Energy in Your Community \(PDF\)](#) (2 pp, 310K)

Resources for Partners and Endorsers [EXIT Disclaimer](#)

(You will need a password to access these tools.)

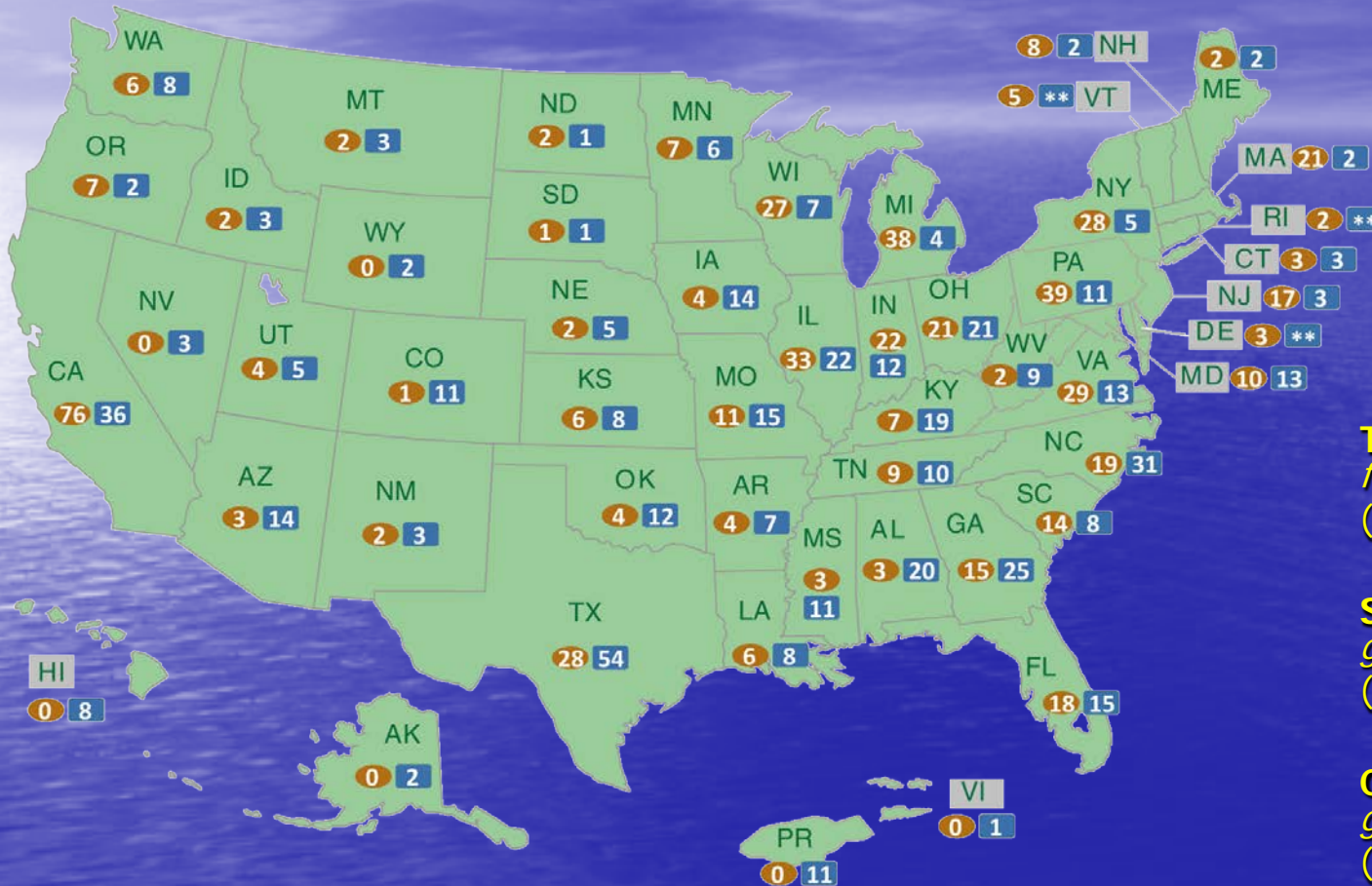
- [Posters and Flyers](#)
- [PowerPoint Files](#)
- [LMOP Logo](#)



Global Methane Initiative '11 Landfill Accomplishments

- **New projects on line in Mexico and Brazil; project expansions in China**
- **Prepared 16 landfill reports (assessment studies, pre-feasibility studies, and desk top evaluations); 2 study tours**
- **Scoping missions in Turkey and Indonesia**
- **19 workshops – training 800+ people**
- **Kicked off 14 new grant awards**
- **Developed white paper on project finance**
- **MOU with International Solid Waste Association (ISWA)**

Your LMOP...



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These data are from LMOP's database as of January 4, 2012.

- OPERATIONAL PROJECTS
- CANDIDATE LANDFILLS*

www.epa.gov/lmop