15th Annual LMOP
Conference & Project Expo

Your LMOP... Tom Frankiewicz,
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U.S. Environmental Protection Agency
Landfill Methane Outreach Program (LMOP)
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

Missouri
- Eagle Ridge Landfill

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

Minnesota
- Rice County Landfill

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
  – CO$_2$ emissions from more than 233,000,000 barrels of oil consumed, or
  – Annual greenhouse gas emissions from nearly 19,200,000 passenger vehicles, or
  – CO$_2$ 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 Site
‘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

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'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

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‘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

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**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**
This tool uses select data from:

- EPA's National Emissions Inventory (NEI 2005 version 2 - 2009)
- EPA's Boiler/Process Heater NESHAP 2008 Survey database (2011 file)
- EPA's Renewable Fuel Standards (RFS) List of Registered Fuel Providers (2008 data)
- US DATA Corporation (2011 data)

to list potential end users of landfill gas.

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

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

Communication Tools

| Invitations for Ribbon-cutting or Ground-breaking Event | Black/White (PDF) (2 pp, 55K) | Black/White MS Word (2 pp, 1 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) | |
| Press Releases | Hi Res PDF (1 pg, 1.9MB) | |
| Media Releases | | |
| Newsletter Article | MS Word (1 pg, 21K) | |
| Interview Tips | MS Word (1 pg, 21K) | |

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)
  For a list of items and materials available from the NSCEP/NEPIS website, access item number 430F10009. Then add the item to your shopping cart, select the checkbox next to the item, and order the publication.

Resources for Partners and Endorsers
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)