



Methane to Markets

Update to Landfill Subcommittee USG Activities

Landfill Subcommittee Meeting
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Cologne, Germany

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Methane to Markets – USG Accomplishments to Date

- Russia: Sponsored Landfill Methane Training Workshop
 - Moscow, Russia, May 31-June 1, 2005
 - Faculty from Ukraine and United States
 - US/Russia M2M collaboration
- Cosponsored Latin American LFG Project Expo 2005
 - 150 attendees, representing over 20 countries (4 M2M Latin American countries participated)
 - Presented pre-feasibility study results for 10 landfills, including five with pump tests, undertaken by the World Bank with a goal of encouraging private sector investment opportunities.

Methane to Markets – USG Accomplishments to Date

- Mexico: EPA and USAID are working with SEMARNAT, SEDESOL, NADB, and BECC to undertake landfill gas energy projects.
 - Performing LFG pre-feasibility studies at the Ensenada and another landfill site (TBD).
- Brazil: US AID-supported project for the implementation of a LFG power plant in Fortaleza
 - Project includes technical support, feasibility study, and social inclusion activity
- India: 2 workshops in March 2006
 - Partnered with USAID, FICCI, and NEERI
- IUEP funded 3 LFG project evaluations (2005) in Brazil (2) and Peru (1)



Action Plan: Lesson Learned and International Database

- Lessons Learned White Paper
 - 1st Draft - Pump Test
 - Draft distributed for review/comment
- Global Landfill Database
 - See accompanying presentation

Plans for 2006

- EPA is partnering with World Bank (ESMAP) to conduct pre-feasibility studies in Latin America
- Argentina
 - EPA is working with Argentina to conduct landfill gas pre-feasibility studies (and pump tests) in two cities
- Ecuador
 - EPA is beginning discussions with M2M delegates to explore activities and other technical assistance
- India
 - Gorai Landfill (Mumbai) interested in pursuing a project - preliminary analysis performed on this site.
 - Site in Pune interested in a project.
 - USAID has set aside \$400,000 in grant money for M2M projects in India
 - Possible M2M cross-sector conference in India - November 2006
 - EPA is looking to adapt LandGEM to Indian waste stream and climate

Plans for 2006

■ Ukraine

- EPA presence at *Second International Conference on JI Projects in Ukraine: Climate Change and Business*, 23-25 October, 2006, Kiev
- EPA planning LFG Energy Workshop in cooperation with *Third International Conference on Biomass for Energy*, 18-20 September, 2006, Kiev
- EPA will identify potential energy end users at top landfills in Ukraine. Perform pre-feasibility studies and pump test at top candidate landfill site.

■ Russia

- EPA plans to collect baseline data and identify contacts at top landfills. Conduct pre-feasibility studies at identified landfills.

China Update

- EPA meetings with the Ministry of Construction (subcommittee representatives) and SEPA in April 2006
- About 50% of waste in China is treated in some way - 90% of which is landfilled. Ownership and operation is at the local not central level
- There are 4 operational LFGE projects (funded by the GEF)
- All LFG projects in China for CDM have to be energy projects, not just a flare and all new landfills are required to have collection and control systems
- MOC is doing a survey of the 444 landfills in China (larger cities)- expects data by end of 2006
 - Estimate between 30-60 sites could support projects
- SEPA's CDM office is working with the Italian government and NDRC and MOST to identify projects. They held a workshop and evaluated and tiered 30 sites
 - The top 5-6 sites have either contracts or letters of intent
- SEPA is interested in guidance on sites in cold areas, and how to develop smaller sites.