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M2M - Mexico Program Overview

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Program Overview

- Overall coordination by SEMARNAT
- USAID/Mexico is providing technical assistance through PA Consulting
- EPA Natural Gas Star, AgSTAR, and Landfills Programs are providing technical overview
- General criteria for project development
 - Weigh the needs to provide support to the Subcommittees
 - Balance support for Subcommittees with project development activities
 - Focus on a few projects that may bring successful and replicable results
 - Private sector options
 - Focus on leveraging additional financing
 - NADBank, PEMEX, Municipalities, FIRCO, SAGARPA and Developers



Program Objectives and Activities

General Program Objectives

- Identify methane recovery and usage opportunities and implement pilot projects
 - Reduce GHG emissions
 - Ensure energy security
 - Promote alternative fuels
 - Bring economic savings
- Conduct capacity building efforts
 - Public sector (federal and local entities)
 - Private sector (small farms, financial institutions)
- Promote Policy Dialogue
 - Analyze institutional barriers
 - Ensure projects development



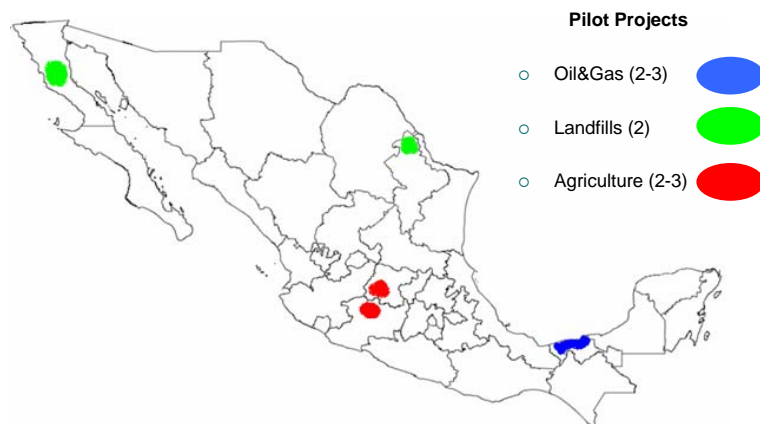
Program Objectives and Activities

General Program Activities

- Oil and Gas Subcommittee
 - 2-3 pilot projects
 - EPA Natural Gas Star methodology
 - Training and workshops
- Landfill Subcommittee
 - Prefeasibility studies
 - Opportunities for electricity generation
 - Project financing guidelines
- Agriculture Subcommittee
 - 2-3 pilot projects – swine farms
 - Opportunities for energy use
 - Technical training and workshops



Pilot Project Development in Mexico



Methane to Markets in Mexico - Partners



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Group



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Support to Oil and Gas Subcommittee

- **Ongoing support to PEMEX**
 - Technical input at subcommittee meetings
 - Participation in training and information dissemination activities
 - Development of country profile, estimates of potential
- **Support for pilot projects**
 - Compressor seal replacement
 - Storage tank vapor recovery
 - Pipeline fugitive emissions
- **Specific pilot project activities**
 - Technical analysis for pilot project preparation
 - Measurements of baseline conditions; projection of potential
 - Monitoring and verification plans
 - Financial analysis



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Planned Activities and Expected Results

○ **Tasks**

- Strengthen Mexican Subcommittees, both structurally and technically
- Characterize sectors of interest (emissions volumes; recovery potential; work to date)
- Develop and support implementation of pilot projects in each of the three areas
- Identify institutional, legal and economic barriers for methane emission reduction and use

○ **Results**

- Ongoing subcommittees operation and leadership
- Training programs designed to broaden participation of Mexican technical and financial cadres in methane projects
- Successful pilot projects to demonstrate attractiveness
- Replication of projects
- Measured emissions reductions both locally and tracked nationwide



Support to Landfill Gas Subcommittee

○ **Ongoing support to SEMARNAT**

- Analysis of lessons learned of project efforts to date in Mexico
- Work with North American Development Bank to fund full feasibility studies and potential implementation on several sites near the US-Mexico border

○ **Coordination with US EPA**

- Agreement on methodology and content of prefeasibility studies
- Support for information dissemination

○ **Pilot project support**

- Prefeasibility study of municipal landfill at Nuevo Laredo



Support to Animal Waste Subcommittee

- **Ongoing support to SEMARNAT and SAGARPA**
 - Development of country profile: data on swine and cattle farms in Mexico
 - Training and capacity building
 - Application of US EPA experience in digester and recovery systems
 - Adaptation of US EPA Farmware software for project analysis
- **Visits to 14 swine farms in Guanajuato and Morelia**
 - Analysis of potential for methane recovery and use
 - Promotion of projects; education
- **Development of 3 pilot projects**
 - Selection of farms of various representative sizes and types
 - Data measurement and analysis for digester design
 - Support for implementation; possible co-funding
 - Monitoring and verification plans



! Thanks !

