Plenary Session: Highlighting Gas Star Partners & Endorsers

The 2005 Natural Gas Star Annual Implementation Workshop

Krish “Ravi” Ravishankar
Worldwide Environmental Manager
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Methane to Markets Partnership

Background

- Started as White House Initiative
- Initial terms include:
  - Five year plan
  - U$ 53 million U.S. Government committed funds
  - U.S. EPA lead with DOE and U.S. AID participation
  - Additional funding from other developed countries
- Ministerial Meeting November 15 -17, 2004 to finalize terms
## Methane to Market

### Member Countries

**Founding Partner Countries**

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<tr>
<th>Australia</th>
<th>Japan</th>
<th>United States</th>
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<td>Brazil</td>
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Oxy’s Methane to Markets Initiative

- Oxy de Colombia and OOGC Management Support
- Colombian Ministries Endorsement and desire to conduct Training/Workshop
- Technical Advisory Committee Involvement:
  - Ministry of Mines & Energy
  - Ministry of Environment, Housing, and Territorial Development
  - ECOPETROL
  - U.S. EPA
  - Colombian Natural Gas Association
  - U.S. Embassy
  - Oxy de Colombia and OOGC
Impetus to Methane to Markets Partnership

• The 1st international workshop for oil & gas sector
• Very successful workshop:
  - 150 Participants
  - 16 countries represented
  - Participation and support of industry/ ministries/ regulatory agencies/
    vendors/ consultants/ international agencies /associations
• The workshop exemplified successful partnership of government agencies and industry
Impetus to Methane to Markets Initiative

- Ministries Commitment to the M2M Program:
  - Drafting guidelines for the industry participation.
  - Establishing a Steering and Advisory Committee of stakeholders—industry groups, associations, government ministries, NGOs will be formed to recommend the implementation approach and strategies.
  - Providing economic and fiscal incentives to industry for participation and demonstration of effective methane emission reductions.
  - Establishing a strong link between the M2M initiative and the Climate Change Convention ratified by Law 164 of 1994.
  - Establishing the connection to the Kyoto Protocol, which was accepted by Colombia by Law 629 of December 2001.
  - Developing guidelines that will fit into the overall scheme of Greenhouse programs.
Oxy’s Next Step: Methane to Markets Initiative

- Oxy de Colombia’s commitment to M2M program:
  - Conduct a comprehensive survey and inventory of methane emitting sources
  - Conduct a detailed emission estimation for methane from our operations using standardized tools and methodologies
  - Evaluate methane reduction opportunities and projects
  - Perform a detailed cost effective analysis of the opportunities and projects
  - Implement strategies for methane reduction. Strategies would include a combination of administrative and technical solutions.
  - As part of the technical solutions, Oxy will evaluate technologies and engineering methods
  - As part of the administrative solution, Oxy will implement programs consisting of employee incentives for project ideas and suggestions, formulation of teams integrated with HES functions of the organization
  - At our asset we will look at proven, new, innovative, cost-effective approaches.
Oxy’s Next Steps: Methane to Markets Initiative

- Work in partnership with U.S. EPA and Colombian Ministries:
  - Identify projects
  - Conduct Technical feasibility studies
  - Conduct Training programs
  - Explore options on funds for demonstration projects

- Oxy Colombia is committed to sharing the knowledge, expertise, and experience with the industry group and government agencies

- Explore options and feasibility to expand the M2M program to other regions/assets