



Overview: Methane to Markets Partnership and Resources for Natural Gas Companies

Seminar with Russian Independent Oil and Gas Producers on Methane Mitigation Technologies and Strategies

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Background: Methane to Markets

The Methane to Markets Partnership (M2M) is an international initiative that advances cost-effective, near-term methane recovery and use as a clean energy source in four sectors:









Oil and Gas Systems

Coal Mines

Landfills

Agricultural Waste

- The goals of the Partnership are to reduce global methane emissions to:
 - Enhance economic growth
 - Improve air quality and industrial safety
 - Reduce emissions of greenhouse gases
 - Strengthen energy security





Methane to Markets Partner Governments

 Currently there are 35 Methane to Markets Partner Governments including the United States and Russia.



 Private companies, multilateral development banks and other relevant organizations participate by joining the *Project Network – over 900* organizations now participating





Why focus on Methane

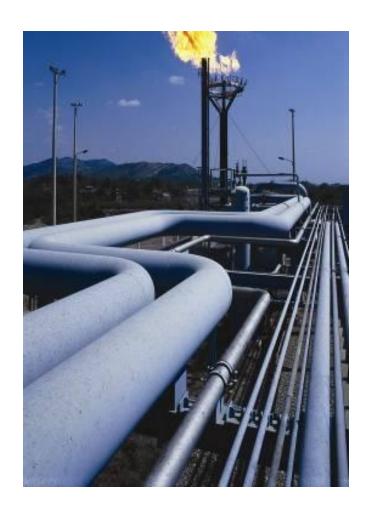
- Methane is the second most important greenhouse gas accounting for ~18% of total radiative (climate) forcing
- A primary component of natural gas and a valuable, clean-burning energy source
- Concentration of methane in the atmosphere has increased by 150% in the last 260 years
- Anthropogenic methane emissions are expected to rise 23% by 2020
- Methane reductions are critical and can be costeffective







- The majority of oil and gas methane emissions come from
 - Natural gas
 - Production
 - Processing
 - Transmission
 - Distribution
 - Oil production
- Methane emissions can be intentional or unintentional
 - Leaks
 - Process venting
 - System malfunctions





Background: Natural Gas STAR Program



- For over 15 years (since 1993), the U.S. EPA has worked with the U.S. oil and gas industry to promote proven, costeffective, methane mitigation technologies and practices.
 - Collaborate with companies that produce, process, transmit and distribute natural gas to learn about innovative ways to reduce methane emissions;
 - Develop detailed technical information (currently on over 80 cost-effective mitigation options);
 - Facilitate the sharing of that information across the industry.





 In 2006, under Methane to Markets, EPA expanded the Program to include international operations



Oil and Gas Resources: Industry Wide



Resources to advance cost-effective oil & gas sector methane emission reductions:

- General technology transfer, training, and capacity building:
 - Technical documents and research outlining over 80 mitigation options, including analyses of economic, environmental and operational benefits, and
 - Workshops, conferences, and study tours
- All recommended technologies and practices are proven based on actual field implementation by partner companies.





Oil and Gas Resources: Company Specific



- Individual technical assistance to help companies identify and assess cost-effective methane emission reduction opportunities
 - Analysis of estimated methane emission sources and corresponding project opportunities
 - Pre-feasibility and feasibility studies
 - Leak detection and measurement studies











Contact Information

- For more information, visit:
 - www.methanetomarkets.org
 - http://www.epa.gov/gasstar
 - http://www.epa.gov/gasstar/tools/recommended.html
- For further assistance, direct questions to:

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