

# The Global Methane Initiative

## United States of America Country Strategy & Update

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Coal Subcommittee Meeting  
October 13, 2011



# Outline

- US Domestic Strategy
- US Plan to Support International Activities through GMI
  - Overarching activities
  - Country-specific activities:
    - China
    - India
    - Mongolia
    - Poland
    - Russia
    - Ukraine
    - Turkey, Kazakhstan, Vietnam, Colombia, Mexico
- US Plans to support next GMI Expo

# ***US Domestic Strategy for CMM***

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## ➤ Focus:

- Overcoming regulatory & institutional barriers to project development through technical exchange

## ➤ Key agencies:

- US EPA Coalbed Methane Outreach Program  
(nodal agency)
- US Trade & Development Agency
  - CMM/CBM Definitional Missions to Colombia, Mexico, Vietnam, Turkey
- US Agency for International Development
- US Department of Energy

# ***US Domestic Strategy: Recent activities***

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- 2011 US CMM Conference October 18-20 in Park City, UT
- Reporting of greenhouse gas emissions from U.S. underground coal mines:
  - Data collection by mines in 2011
  - Mines begin reporting to USEPA in September 2012

# ***US International Strategy: Support for GMI Partnership***

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- Recent GMI activities:
  - Developed Draft GMI Flaring paper
  - Updated CMM Technology Database
- Support for CMM project development through USEPA GMI grant solicitation
  - Awarded grants in 2011 (China, Mongolia, Russia, Turkey)

# ***China: US Strategy and Activities***

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## ➤ **Comprehensive feasibility studies**

- Songzao Coal Mines, Chongqing
  - Based on results of this study – CQEIG is moving forward with joint venture for CMM to LNG plant
- Liuzhuang Mine, Huainan, Anhui Province
- Hebi mines, Henan Province
- Linhua Mine, Guiyang, Guizhou Province
- Tai Xi Mines, Alashan, Inner Mongolia

## ➤ **Technology demonstration**

- CSIRO mitigating and utilizing dilute methane with a monolithic catalytic combustor at Tiefu

# ***China: US Strategy and Activities***

- **Data collection and analyses**
  - Abandoned mines in Shanxi and additional provinces
    - Grant to University of Colorado
  - Coal Mine Gas Recovery and Utilization throughout China
    - Grant to China Coal Information Institute
- **Capacity building: national and regional efforts**
  - China Coal Information Institute (CCII)
    - Supports training, study tours, workshops, data collection, identification of opportunities, pre-feasibility studies
  - Shanxi Province
    - Grant to China University of Petroleum, Beijing
  - Guizhou Province

# *India: US Strategy and Activities*

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## ➤ **Goals / objectives**

- Provide assistance for:
  - CMM policy, legal and regulatory development
  - VAM and CMM resource assessment
  - Capacity building and technology transfer

## ➤ **Recent activities**

- India Coal Mine/Coalbed (CMM/CBM) Methane Clearinghouse established at Central Mine Planning and Design Institute (CMPDI)
- US EPA grants: data collection from active and abandoned mines (SIU and CIMFR)





# ***Mongolia and Turkey: US Strategy and Activities***

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- **Mongolia:** Awarded GMI grant to the Mongolia Nature and Environment Consortium (MNEC) for “CMM Resource Assessment and Emissions Inventory Development”
- **Turkey:** Awarded grant to Virginia PolyTechnic University for “Optimizing Degasification Systems to Reduce Methane Emissions from Turkish Coal Mines”. USEPA presented at the World Mining Congress September 2011 in Istanbul .

# ***Poland: US Strategy and Activities***

- U.S. EPA awarded two grants (2008).
  - Assessment of VAM resources at 10 gassy mines, with the Central Mining Institute (CMI) in Katowice.
  - Feasibility study abandoned Zory mine, (IETU/LNG Silesia): CHP 2 MW plant in operation since 2010
- U.S. EPA awarded one grant (2009) to CMI for a study with Dart Energy (on-going)

# ***Russia: US Strategy and Activities***

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- **Goals / objectives**
  - Focus on addressing legislative and regulatory barriers to project development in Russia
- **Recent activities:**
  - CMM Best Practices Workshop in Kemerovo with UNECE (June 2011)
  - Grant awarded to study VAM at Russian coal mines.

# ***Ukraine: US Strategy and Activities***

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- ARENA-ECO collaborating with policymakers to encourage and facilitate CMM project development
- Work coordinated by Battelle PNNL (sponsored by U.S. EPA)
- CMM Seminar and Best Practices Workshop with UNECE (September 2011)

# *Vietnam, Kazakhstan, Colombia, Mexico: US Strategy and Activities*

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- **Kazakhstan:** USEPA supported the UNECE Best Practices Workshop in May 2011.
- **Colombia:** USEPA presented at CMM Workshop in Bogota February 2011. Possible scoping mission in 2012.
- **Vietnam:** Scoping mission planned for October 2011.
- **Mexico:** EPA funded a CMM to LNG project in the Sabinas coal basin

# US EPA Coalbed Methane Outreach Program

[www.epa.gov/cmop](http://www.epa.gov/cmop)

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