

# The Global Methane Initiative

## United States of America Country Strategy & Update

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Coal Subcommittee Webinar  
June 20, 2011



# Outline

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- US Domestic Strategy
- US Plan to Support International Activities through the Global Methane Initiative
  - Overarching activities
  - Country-specific activities:
    - China
    - India
    - Mexico
    - Mongolia
    - Poland
    - Russia
    - Ukraine
    - Turkey, Kazakhstan, Vietnam, Colombia
- US Plans to support 2011 Meeting in Poland



# ***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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- Very successful 2010 US CMM Conference (Birmingham, AL)
- Reporting of greenhouse gas emissions from U.S. underground coal mines:
  - Data collection by mines in 2011
  - Mines begin reporting to USEPA in 2012

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

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- Recent GMI activities:
  - Developed GMI Flaring paper
  - Updating the CMM Technology Database
  - Updated, revised “Country Profiles” with summaries of the coal sector and CMM in 37 countries
- Support for CMM project development through USEPA GMI grant solicitation
  - Awarded grants in 2009 and 2010 (China, India, Mongolia, Poland)
  - Awarding grants in 2011 (to be announced soon)
- Participated in Asia Pacific Partnership on Clean Development & Climate – Coal Mining Task Force.  
*APP ended Spring 2011.*

# ***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

## ➤ **Pre-feasibility studies and project site identification**

- Huainan VAM pre-feasibility study
- 20 projects identified for Expos

## ➤ **Technology demonstrations**

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

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

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## **Data collection and analyses**

- Abandoned mines in Shanxi and additional provinces
  - Grant to University of Colorado
- Development of database on degasification in Shanxi Province
  - Grant to Virginia Polytechnic Institute and State University
- 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 Jackson Hole Center for Global Affairs
  - Grant to China University of Petroleum, Beijing
- Guizhou Province
  - Grant to Guizhou International Center for Environmental Protect

# *US Strategy and Activities in India*

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## ➤ **Goals / objectives**

- Provide assistance for:
  - CMM policy, legal and regulatory development
  - India Coal Mine/Coalbed (CMM/CBM) Methane Clearinghouse start-up
  - VAM and CMM resource assessment
  - Capacity building and technology transfer

## ➤ **Recent activities**

- CMM/CBM Clearinghouse established at Central Mine Planning and Design Institute (CMPDI)
- US EPA awarded grants



# *US Strategy and Activities in Mexico*

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- **Goals / objectives**
  - Assess CMM resources
  - Facilitate legal and regulatory development
- **Recent activities**
  - EPA funding a CMM to LNG project in the Sabinas coal basin

## *US Strategy and Activities in Mongolia*

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Under a GMI grant, the Mongolia Nature and Environment Consortium completed a pre-feasibility study at the closed underground Nailakh mine.

- Based on the study findings, Korean-Mongolian governments are sponsoring core drilling, gas resource assessment underway to evaluate potential CBM or CMM project.
- Sponsored technical workshop on CMM in Mongolia (August 2010) in Ulaanbaatar for Mongolian government and coal industry officials.

## ***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 (close to completion).
  - Feasibility study at the abandoned Zory mine, to convert CMM to LNG (by IETU, work complete).
- U.S. EPA awarded one grant to CMI for a study with Composite Energy (2009)

# *US Strategy and Activities in Russia*

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- **Goals / objectives**
  - Focus on addressing legislative and regulatory barriers to project development in Russia
- **Recent activities:**
  - International Energy Agency (IEA) working on CMM regulatory analysis and outreach in Russia (launched in 2008, funded by US EPA)
  - CMM Best Practices Workshop in Kemerovo with UNECE (June 2011)

## *US Strategy and Activities in Ukraine*

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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 Investment Promotion Forum: May 2010, Donetsk
- CMM Seminar and Best Practices Workshop with UNECE (September 2011)

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

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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 2011.
- **Turkey:** USEPA presenting at the World Mining Congress in Istanbul September 2011
- **Vietnam:** USEPA presented at the Advanced Mining Congress in HaLong Bay September 2010. Possible scoping mission in 2011.



## *US EPA Coalbed Methane Outreach Program*

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

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- India / Poland / Turkey/ Vietnam / Africa  
*Jayne Somers*  
[Somers.jayne@epa.gov](mailto:Somers.jayne@epa.gov)  
+1 202 343 9896
- Mexico / Ukraine / Russia / China / Colombia  
*Felicia Ruiz*  
[Ruiz.felicia@epa.gov](mailto:Ruiz.felicia@epa.gov)  
+1 202 343 9129
- GMI Partnership / China / Mongolia  
*Pamela Franklin*  
[Franklin.pamela@epa.gov](mailto:Franklin.pamela@epa.gov)  
+1 202 343 9476

