

**Global Methane Initiative  
Oil & Gas Subcommittee  
14 and 15 October 2011  
Krakow, Poland**

**FINAL MINUTES**

**Summary of Key Discussions**

Approximately twenty five participants from ten countries— Canada, Germany, India, Indonesia, Italy, Norway, Poland, Sweden, the United Kingdom and the United States—attended the recent Global Methane Initiative (GMI) Oil & Gas Subcommittee Meeting in Krakow, Poland.

The meeting included a site tour and technical breakout sessions. The site tour was hosted by Gaz Systems at their compressor station and laboratory in Pogórska Wola. The tour included discussions about gas quality, noise and vibration measurements; a demonstration of FLIR and OPGAL infrared cameras; and presentations on the results of Gaz-System's methane emission measurement study.

The technical breakout sessions addressed a variety of topics including:

- Gaz-System's experience in testing methane identification and measurement equipment;
- Oil and Natural Gas Corporation's experience implementing vapour recovery units on crude oil tanks;
- Service provider and corporate experiences with methane leak detection and measurement studies;
- British Petroleum's (BP) use of reduced emission completions to minimize methane emissions from hydraulically fractured gas wells;
- Opengrid Europe's experience using pipeline pumpdown to minimize methane emissions during transmission pipeline repair; and
- BP's experience routing centrifugal compressor seal oil de-gassing emissions to fuel gas as an alternative to installing dry seals.
- PEMEX's experience undertaking measurement studies.

The breakout session also included a policy presentation on Indonesian climate policy and the importance of methane reductions in the oil and gas sector. The presenter introduced attendees to Indonesia's roadmap for developing a nationally appropriate mitigation action (NAMA). This plan is intended to advance efforts to reduce emissions and facilitate new emission reduction investment projects.

In all of these sessions, the presenters and participants discussed the importance of emission detection and measurement, which have broad benefits extending beyond conserving natural gas resources. These additional benefits include improving employee and public safety, increasing operating efficiencies and integrity, enhancing corporate image, and making positive contributions to the global environment.

The meeting agenda and list of participants are included as Annex I and II respectively. The complete Partnership-Wide meeting, technical and policy sessions, and Subcommittee meeting proceedings are available on the [Global Methane Initiative](#) website.

## **Annex I**

**13 October 2011**

- 11:30–11:45      **Introduction and Welcome to the Oil & Gas Technical and Policy Sessions**  
*Carey Bylin, U.S. EPA*
- 11:45–12:00      **Global Methane Initiative**  
*Carey Bylin, U.S. EPA*
- 12:00–12:30      **GAZ-SYSTEM — Natural Gas Emission Reduction from Transmission System and Goals of GAZ-SYSTEM Activities**  
*Eliza Dyakowska, Gaz-System*
- 12:30–13:00      **ONGC Experience Implementing Vapour Recovery Units on Crude Oil Storage Tanks**  
*A.B. Chakraborty, Oil and Natural Gas Corporation Limited (ONGC)*
- 13:00–13:30      **Indonesian Climate Policy and the Importance of Methane Reductions in the Oil & Gas Sector**  
*Syamsidar Thamrin, Indonesian State Ministry of National Development Planning (BAPPENAS)*
- 13:30–14:30      **Lunch**
- 14:30–16:00      **Panel Session on Companies' Experiences with Methane Leak Detection and Measurement Studies**  
*Johan Tegstam, FLIR Systems AB; Milton Heath, Heath Consultants; A.B. Chakraborty, Oil and Natural Gas Corporation Limited (ONGC); Reid Smith, BP and Dr. Axel Scherello, Open Grid Europe GmbH*
- Panelists will give a brief presentation on their experiences followed by a question and answer session.
- 16:00–16:15      **Break**
- 16:15–17:45      **Using Reduced Emission Completions (RECs) to Minimize Methane Emissions from Hydraulically Fractured Gas Wells**  
*Reid Smith, BP*
- 17:45–18:00      **Wrap up and Adjourn**  
*Carey Bylin, U.S. EPA*

**14 October 2011**

- 09:00–09:05      **Opening Remarks**  
*Carey Bylin, U.S. EPA*
- 09:05–10:00      **Routing Centrifugal Compressor Seal Oil De-gassing Emissions to Fuel Gas as an Alternative to Installing Dry Seals**  
*Don Robinson, ICF International*  
*Reid Smith, BP*
- 10:00–10:30      **Using Pipeline Pumpdown to Minimize Methane Emissions During Transmission Pipeline Repair**  
*Dr. Axel Scherello, Open Grid Europe GmbH*
- 10:30–10:50      **Experience with Methane Emission Reductions**  
*Cesar Rafael Chavez Ortiz, Ministry of the Environment and Natural*
- 10:50–11:00      **Wrap up and Adjourn**  
*Carey Bylin, U.S. EPA*

## Annex II

### Participants

W. Bruce Chisholm	Preemptive Pollution Initiatives, Inc./ swiuk@aol.com
Audrey Mascarenhas	Questor Technology, Inc./ amascarenhas@questortech.com
Axel Scherello	Open Grid Europe/ axel.scherello@open-grid-europe.com
Ashok Baran Chakraborty	Oil & Natural Gas Corporation/ chakraborty_ab@ongc.co.in
Supriya Guha	Oil & Natural Gas Corporation/ Guha_supriya@ongc.co.in
Gitafajar Saptjani	LEMIGAS/gitafajar@gmail.com
Yanni Kussuryani	LEMIGAS/yannik@lemigas.esdm.go.id
Syamsidar Thamrin	BAPPENAS/ sthamrin@bappenas.go.id
Marta Morichini	Eni/ marta.morichini@eni.com
Oddvar Levang	Statoil/ olev@statoil.com
Eliza Dyakowska	GAZ-SYSTEM S.A./eliza.dyakowska@gaz-system.pl
Emily Hicks	U.S. Embassy Warsaw/hicksej@state.gov
Mariusz Koc	GAZ-SYSTEM S.A./Mariusz.kos@gaz-system.pl
Grzegorz Kolodziejak	GAZ-SYSTEM S.A./kolodziejak@inig.pl
Magdalena Pêgielska	GAZ-SYSTEM S.A./magdalena.pegelska@gaz-system.pl
Johan Tegstam	FLIR Systems AB/johan.tegstam@flir.se
Liz Hoskin	Shell International Petroleum Company/ liz.hoskin@shell.com
Scott Bartos	U.S. EPA/bartos.scott@epa.gov
Allison Berkowitz	ERG/ allison.berkowitz@erg.com
Carey Bylin	U.S. EPA/ bylin.carey@epa.gov
Milton Heath III	Heath Consultants Inc./milt.heath3@heathus.com
Gordon Smith	BP/ gordon-reid.smith@bp.com
Larry Richards	Hy-Bon/lrichards@hy-bon.com,
Donald Robinson	ICF International/drobinson@icfi.com

Please see the Global Methane Initiative Web site for full contact information