

# United States of America GMI Oil & Gas Update 12 May 2014

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**Scott C. Bartos**  
**US Environmental Protection Agency**  
**GMI O&G Subcommittee Meeting**  
**San Antonio, Texas USA**



# US Partner Achievements

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- Natural Gas STAR and Natural Gas STAR International have nearly 130 partner companies—21 of which are international partners
- U.S. oil and gas partner companies reduced methane emissions by approximately 66 Bcf in 2012
- International partner companies reduced methane emissions by 7.6 Bcf in 2012



# Natural Gas STAR Partnership

- Welcoming New Partners:
  - Odessgaz (Ukraine)
  - Cairn India Ltd.
  - Kuwait Oil Company
  - Surtigas S.A. (Colombia)



# Collaboration Highlights

## ■ Indonesia

- Star Energy joined in 2011
  - Measurement studies conducted at Kakap field offshore platforms (February, 2012) and FSO (September, 2012)
  - Major opportunities include platform flare gas recovery (being actively pursued by Star) and tank gas recovery on the FSO
- VICO Indonesia joined in May 2013
  - Measurement studies conducted at four production facilities at Badak and Nilam assets in September, 2013
  - Major opportunities include flare gas recovery, use of instrument air for pneumatic devices, and reciprocating compressor rod packing replacement



# Collaboration Highlights (2)

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- India
  - ONGC
    - Hosted 1st All India NGSi Workshop – New Delhi 2013
  - GAIL
    - Developing implementation plan with GAIL
    - Supporting pilot study of wet seal compressor gas capture system
- Thailand
  - PTT
    - Completed 1<sup>st</sup> emission measurement study of PTT's onshore production and natural gas vehicle fueling system - September 2013
    - Follow up study / field training planned for 2014



# Collaboration Highlights (3)

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- **Colombia**
  - Ecopetrol
    - Developing directed inspection and maintenance training program
    - Estimating emissions from casinghead gas
    - Supporting the design of a VRU capture system
- **Kuwait**
  - Conducting a desktop study for estimating emissions for Kuwait Oil Company
- **Ukraine**
  - Conducting a desktop study for estimating emissions for Odessagaz





# Outreach and Training

- EPA's NG STAR Program hosted Technology Transfer Workshops
  - Two recent domestic workshops
    - Production Technologies – Colorado and Utah, February 2014
    - Detailed information on the workshops are posted at:  
<http://www.epa.gov/gasstar/workshops/techtransfer/index.html>
  - International
    - GMI Oil and Gas Study Tour in Texas - May 2014
    - Program and Technical Symposium in Saudi Arabia, Kuwait, and Qatar – 2013
    - GMI Outreach Kazakhstan Workshop with Carbon Limits - 2014
    - EPA and LEMIGAS will jointly conduct the 3rd Asia-Pacific GMI Oil & Gas Workshop – September 2014
    - Regional Workshop in the Middle East – September 2014
    - 2<sup>nd</sup> Annual All India Workshop – TBD 2014



# Contact Information

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[www.globalmethane.org](http://www.globalmethane.org)

<http://www.epa.gov/gasstar/international/index.html>

<http://www.epa.gov/gasstar/tools/recommended.html>

