

GMI Activities Update – India

Focus- ONGC



The Global Methane Initiative Oil and Gas Sub-committee Meeting Westin Denver Downtown, Denver, Colorado, USA

**A K Hazarika
Director (Onshore), ONGC
O&G Sub-committee member
GMI Program, India
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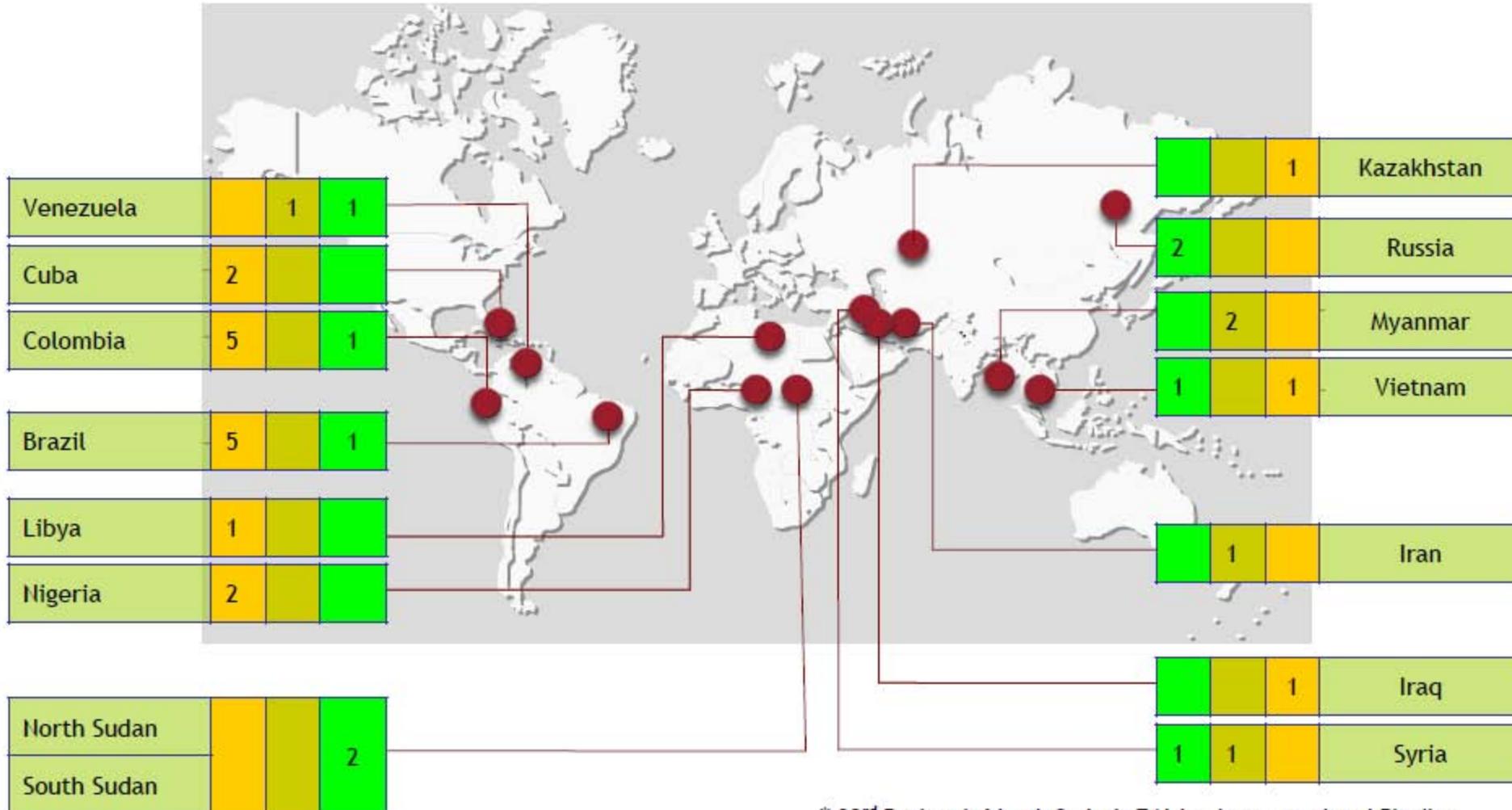
OVL: Global footprint

33* Projects in 15 Countries

18
Exploration

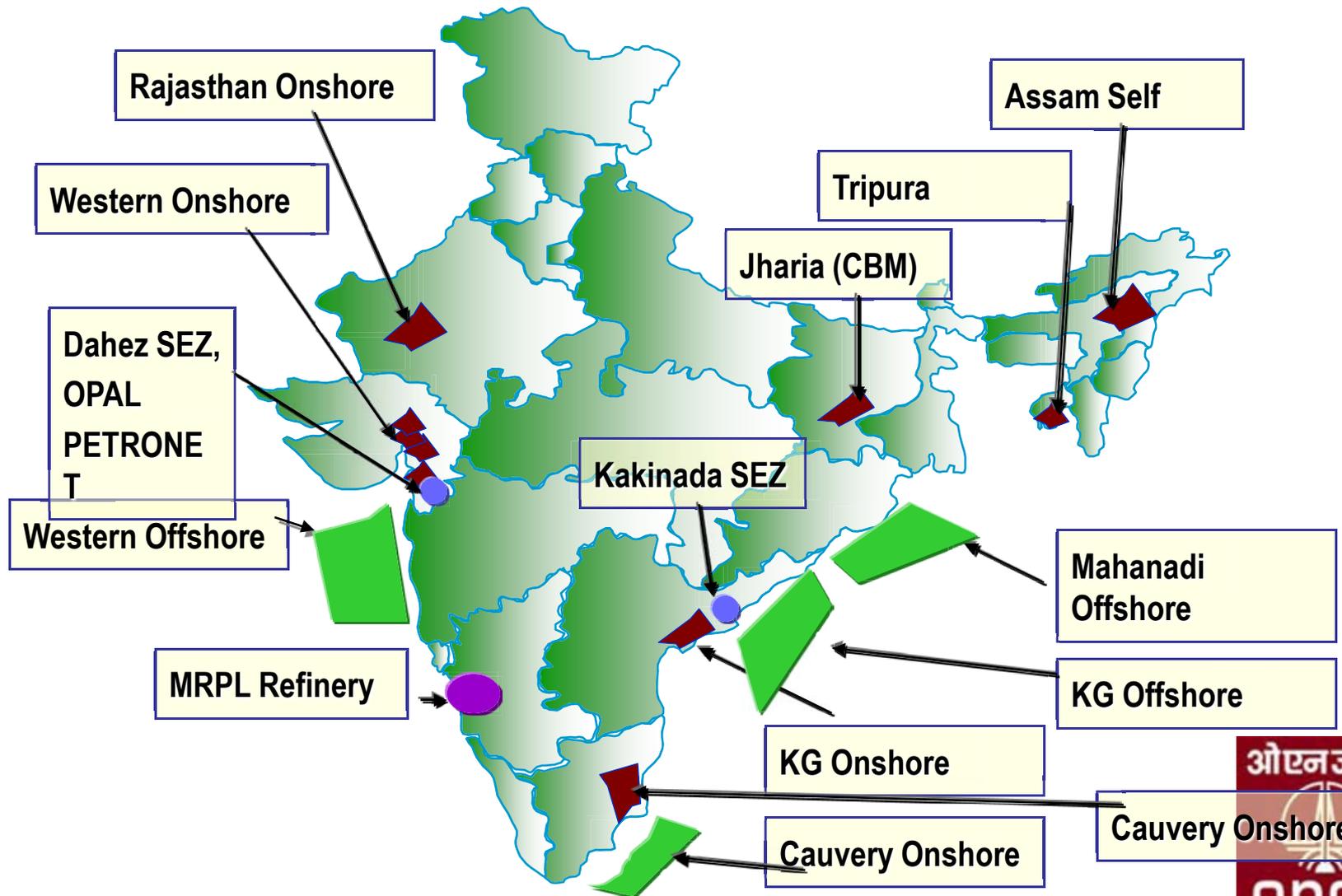
5
Discovered

9
Producing



* 33rd Project is North Sudan's 741 km long completed Pipeline

ONGC: Domestic Operations



Value-multiplier projects



ONGC Petro-additions Ltd.

- ◆ To produce: HDPE/LLDPE, Poly Propylene, Benzene
- ◆ Scheduled completion Q3, FY'13



ONGC Mangalore Petrochemicals Ltd.

- ◆ To produce Paraxylene/ Benzene
- ◆ Scheduled completion Q4, FY'12



ONGC Tripura Power Company Ltd.

- ◆ 726.6 MW Gas based power plant
- ◆ Scheduled completion Q4; FY'12

Agenda- Focus ONGC



- Leak Survey & measurements
- Opportunities
- Capacity Building
- Action Plan

Leak Survey & measurements



- ❖ By ONGC-USEPA collaborative team -7 installations (In 2008-09)
- ❖ By in-house CM&SG team- 50 installations (In 2011-12)



Leak Survey & Measurement study- Details



- By in-house CM&SG team
- Locations covered- 50 (from April 2011- March 2012)

Ahmedabad Asset: 6 Installations

Mumbai Offshore:

- ❖ BHS Complex
- ❖ Neelam Complex

- *Uran Plant*
- *Assam Asset: 13 Installations*
- *Tripura Asset: 4 Installations*
- *Cauvery Asset: 6 Installations*
- *Mehsana Asset: 6 Installations*
- *Ankleshwar Asset: 12 Installations*
- *Hazira Gas Processing Plant- (detail survey)*

Result achieved

Identification, Quantification, Reduction-(IQR path)

- **I**dentified more than 425 leaking points from 57 (7+50) Installations
 - **Q**uantified over 50 million m³ /Yr of Fugitive Hydrocarbon- (Approx 28 million m³ of methane)
 - **R**eduction of methane emission
 - 2008-09 3.2 MMSCM
 - 2009-10 4.72 MMSCM
 - 2010-11 0.625 MMSCM
 - **2011 -12 1.24 MMSCM (till November 11)**
- ❖ **Environmental benefit- reduction of 139,000 tCO₂e**

Opportunity- Emission Recovery Potential



- Approx 30% of the identified leak has been reduced
- ONGC has good potential to improve its reduction
 - By DI&M practices
 - By appropriate feasible technological interventions
 - *VRU (Vapour recovery unit)*
 - *Pneumatic system against servo gas*
 - *Ejector*

Capacity Building



- More equipments are being purchased by ONGC
- CM&SG ONGC would be further strengthened by additional manpower
- Training

Capacity Building- Contd..



- US-EPA sponsored 8 ONGC officers to a study tour in 2011-12 at facilities in USA.
- Study tour has paid dividend to ONGC and GMI program at large
- US-EPA has sponsored 2 of ONGC officers this year also

Support required from US-EPA

- *The same needs to be continued in future to create a critical mass in ONGC*
- *Sponsorship for Subcommittee Member & Project Implementation Manager required*

Action Plan



- To map all the production installations across ONGC for methane emissions and form a comprehensive fugitive emission inventory of ONGC.
 - **Approx 80% has been mapped**
 - **20 % would be covered in 2012**
- Infrastructure and capacity building of the GMI team in 2012-13
- To incorporate appropriate technical interventions to reduce these emissions.
- Yearly monitoring.
- A system of yearly reporting of methane reductions



NAMA

- Govt. of India is still considering the overall issue
- We need to wait – involves policy level decision at Govt level

Expo- 2013

- Preparatory actions need to be taken now



Thank you

