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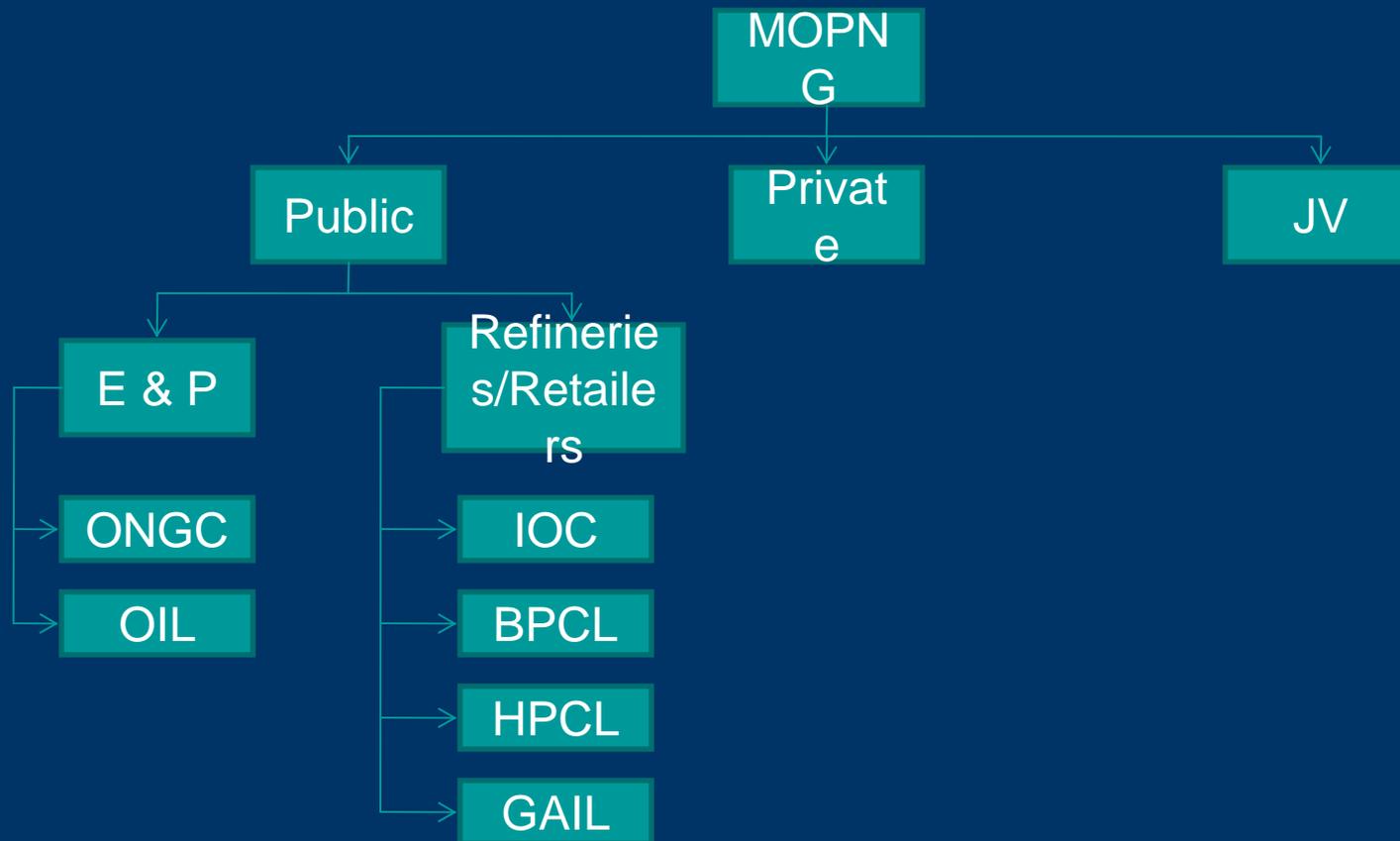
# Oil and Gas Subcommittee Delegate Update-- India

Indian Subcommittee Team  
M2M Oil and Gas Subcommittee meeting  
Monterrey  
January 29,2009



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# O & G Sector Organogram





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# O&G methane reduction activity– A brief



- Gas Flare reduction projects in upstream sector
- Carbon management in ONGC
- M2M programme in ONGC



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# O&G methane reduction contd.. – Action plan



- Implementing M2M program in ONGC
  - Short term - December 2009
    - Implementation of the pilot study (US EPA selected 4 facilities & measurement completed in May 2008 )
      - Facility wise feasibility study planned for the Installation of VRUs and VRTs at oil tanks where feasible
      - Replacing wet seals by dry seals where feasible
      - Implementation of regular DI&M practices
    - Expected period of implementation by end 2010
    - Develop suitable CDM Project
    - Formation of M2M team
  - Long term - October 2011
    - In house capacity building -December 2010
    - Development of measurement team – Oct 2009
    - Procurement of measuring equipments- Sept 2009
    - Training of the measurement team members– Sept 2009
    - Fugitive emission mapping of other facilities- April 2011
    - Creating ONGC fugitive emission inventory– Oct 2011



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# Short term action plan



## ■ Heera Platform

### ■ Reduction target

- 4.06 MSCM/year

### ■ Reduction points:

- Platform vents( 2.54 MSCM/year)
- Centrifugal compressor seals( 1.27MSCM/Year)
- Fugitive emission( 0.25 MSCM/year)

### ■ Technology selection

- Oil field screw compressors to capture the vent gas
- DI&M practices



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# Short term action plan contd..



## ■ Uran Plant

- Reduction target
  - 3.2 MSCM/Year
- Reduction points:
  - Tank vents
  - Centrifugal compressor seals( degassing 1.27MSCM/Year)
  - Fugitive emission
- Technology selection
  - Installation of VRU/VRT
  - Replacement of wet seals by dry seals
  - DI&M practices



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# Short term action plan contd..



- Ahmedabad Asset ( Kalol complex)
  - Reduction target
    - 0.36MSCM/year
  - Reduction points:
    - Tank vents( 0.18 MSCM/year)
    - Well venting( approx .066 MSCM/year ,to be revalidated)
    - Vent stack (0.13 MSCM/year, to be revalidated)
    - Fugitive emission
  - Technology selection
    - Installation of VRU/VRT
    - Installation of beam gas compressor
    - DI&M



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# Short term action plan contd..



- Assam Asset ( Geleki complex)
  - Reduction target
    - 3.2 MSCM/year
  - Reduction points:
    - Tank vents( 0.23 MSCM/year)
    - Reciprocating compressor rod packing( 2.92MSCM/year)
    - Fugitive( 0.13MSCM/year)
  - Technology selection
    - Installation of VRU/VRT
    - Replacement of wet seal/ change over to rotary compressor
    - DI&M practices



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# Show case projects at 2010 Partnership Expo



- Heera offshore Platform
  - Recover platform vent gas and centrifugal compressor degassing vents
- Uran Plant
  - Arrest tank venting by VRU/VRT

***Thank you***

