

India Coal Sector Update: 19th Global Methane Initiative Coal Subcommittee

3rd June 2014
Ministry of Coal, Govt of India
CMPDI



India: Coal Sector Update

- New trends in the coal sector
 - India is the 3rd largest producer of coal in world
 - Coal is the main source of energy supply in India
 - Coal meets about 53% of the energy requirement of the country
 - Coal production is going to increase manifold to meet the increasing energy demands to sustain envisaged GDP growth
 - In view of the increase in coal production, the emissions from the coal mining operations is expected to increase.

India: Coal Sector Update

- New trends in the energy sector
 - Development of non-conventional energy resource is under focus both at the Govt and Industry level
 - Coal based non conventional resources like CBM/CMM/VAM etc development is a priority area.
 - Development of Shale gas



India: Coal Sector Update

- Regulatory Update
 - Govt of India has announced CBM Policy in 1997.
 - The policy has several fiscal incentives and liberal terms
 - New and/or changes to existing laws, regulations, or incentives
 - As a result of this the Global Bids announced by the Govt for allotment of CBM blocks attract lot of participants



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India: Coal Sector Update

- Implementation of national plans/directives
 - Consequent to the announcement of the policy so far 33 CBM blocks have been allotted by the Govt for commercial development of CBM.
 - Commercial production in the country has started and likely to pick up soon
 - Pursuing clean coal technology is high on the agenda of Coal Industry.
 - Reduction of methane emission from coal mining operations is priority area.
 - Ministry of coal has identified CMPDI as Nodal Agency for development of CMM.



India: Coal Sector Update

- Specific project updates
 - 5 prospective CMM blocks have been identified within CIL mining lease hold areas
 - CMM assessment carried out in opencast areas
 - Efforts are being made to take up harnessing and commercial utilisation of the captured methane.



Challenges to emission reduction projects in India: CMM Project Outlook

- Technological challenges
 - In Indian condition, the harnessing of CMM is different
 - The target seams lying below the worked out/goaved seams
 - Resource assessment in de-stressed condition is challenging.
 - The drilling and capture technology will have to be carefully designed keeping in view the safety of the mines
- Regulatory Challenges
 - Govt. has approved exploitation/extraction of CMM by CIL in its command area
 - A formal communication in this regard is awaited
 - Commercial extraction of CMM is expected to commence following the govt. guidelines
- Approaches to overcoming challenges
 - Legislation and regulation: In place for CBM/under evolvment for CMM

India: GMI Activities

- India is founder member country of GMI (erstwhile M2M) and has been represented in all major activities of GMI including Steering committee meetings/ Coal subcommittee meetings and EXPOs
- Ministry of Coal (MoC) is represented in both Steering committee and Coal subcommittee of GMI.
- Additional Secretary, MoC and member of the Steering committee has taken a review meeting in May 2013 after the Vancouver Steering committee meeting wherein various aspects of GMI activities were deliberated.
- In the said meeting representatives of other concerned ministries were also present.



India CBM CMM Clearinghouse

- India CMM/CBM Clearinghouse was established in Nov 2008 at CMPDI, Ranchi.
- The Clearinghouse is facilitating commercial development of CMM in India.
- **An International Workshop on “ Development of Coal Based Non Conventional Resources in India” was successfully organized in Nov 2014.**
- The workshop was attended by high level functionaries of Ministry of Coal and Ministry of Petroleum & Natural Gas, GMI officials, captains of the Indian coal industry, representatives of CBM players, national/international research and technical institutions etc.
- Various aspects of CBM/CMM development were deliberated in the workshop.



CMM Project Outlook (3)

Approaches to overcoming challenges...

- Energy pricing reform: The current pricing structure is under review
- Capacity building
 - Technology transfer: Required-Partner GMI countries may contribute towards this
 - Training and workshops: Required
- Agreements and/or partnerships: May be examined
- Anticipated or planned projects: CMM projects have been planned

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