Progress and Project Opportunities of the CMM Development and Utilization

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Proposed M2M Projects

10 projects
- 5 projects of CMM power generation
- 3 projects of VAM
- 2 projects of CMM purification and liquefaction
M2M projects proposed

- Hebi CMM Power Generation
- Hongneng Coal Mine CMM Recover and Utilization
- Jixi CMM Power Generation Project
- Longfeng Coal Mine and Honglin Coal Mine Gas Power Generation Project
- Pingdingshan No.4 VAM to Energy Project
- Pingdingshan No.8 CMM Drainage and Utilization Project
- Shigang Coal Mine CMM Purification Project
- Shigang Coal Mine VAM Utilization Project
- Shihao Coal Mine VAM Recovery and Utilization Project
- Songzao CMM Purification and Utilization Project
Challenges to CMM Project Development

- Lack of technology
- Lack of clarity about regulatory issues, especially gas ownership
- Lack of pilot project to demonstrate profitability
- Lack of financing
- Lack of support for private developers
Efforts to remove the barriers for CMM project development

- **Technology**: horizontal long borehole drilling, vertical wells with horizontal branches
- **Gas ownership**: more leading companies authorized to develop CBM projects with foreign partners
- **Profitability**: subsidy for CMM drainage and higher price for power generated by CMM power plants
- **Financing**: profit growing of coal mining companies, more loans from domestic banks, ADB, WB, CDM, and M2M
- **Lack of support for private developers**: problems still remain
- Drainage and Utilization of CMM/CBM in China

- 2005: Drainage Volume: 2.3 Billion m$^3$
  - Utilization Volume: 0.9 Billion m$^3$
  - Utilization Rate: 42.6%

- 2006: Drainage Volume: 3.2 Billion m$^3$
  - Utilization Volume: 11.5 Billion m$^3$
  - Utilization Rate: 35.5%
图 10 Key State Owned coal mining companies with CMM drainage over 100 million m$^3$
**Fig Drainage and utilization volume of 16 coal companies with utilization volume over 10Mm$^3$ in 2006**

- **Mm$^3$**
- **图 2006年利用量超过1000万立方米的十六个煤矿企业抽采量、利用量表**
谢谢！
Thanks!