

Vietnam Coal Sector Update to the 19th Session of the Global Methane Initiative (GMI) Coal Subcommittee

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Vietnam Coal Sector Update

- Main coal basin: Quang Ninh
- Number of coal mines:
 - ✓ Open pit coal mines: About 10 mines
 - ✓ Underground coal mines: About 30 mines
- Coal production: 40 millions tones (2014)
- Coal rank: Antraxite and semi-Antraxite (90%)
- Mining Method: Longwall (90%)
- Supporting: Single or set of hydraulic prop (mainly)
- Excavating method: Drilling and Blasting
- Gas drainage system: Khe Cham coal mine

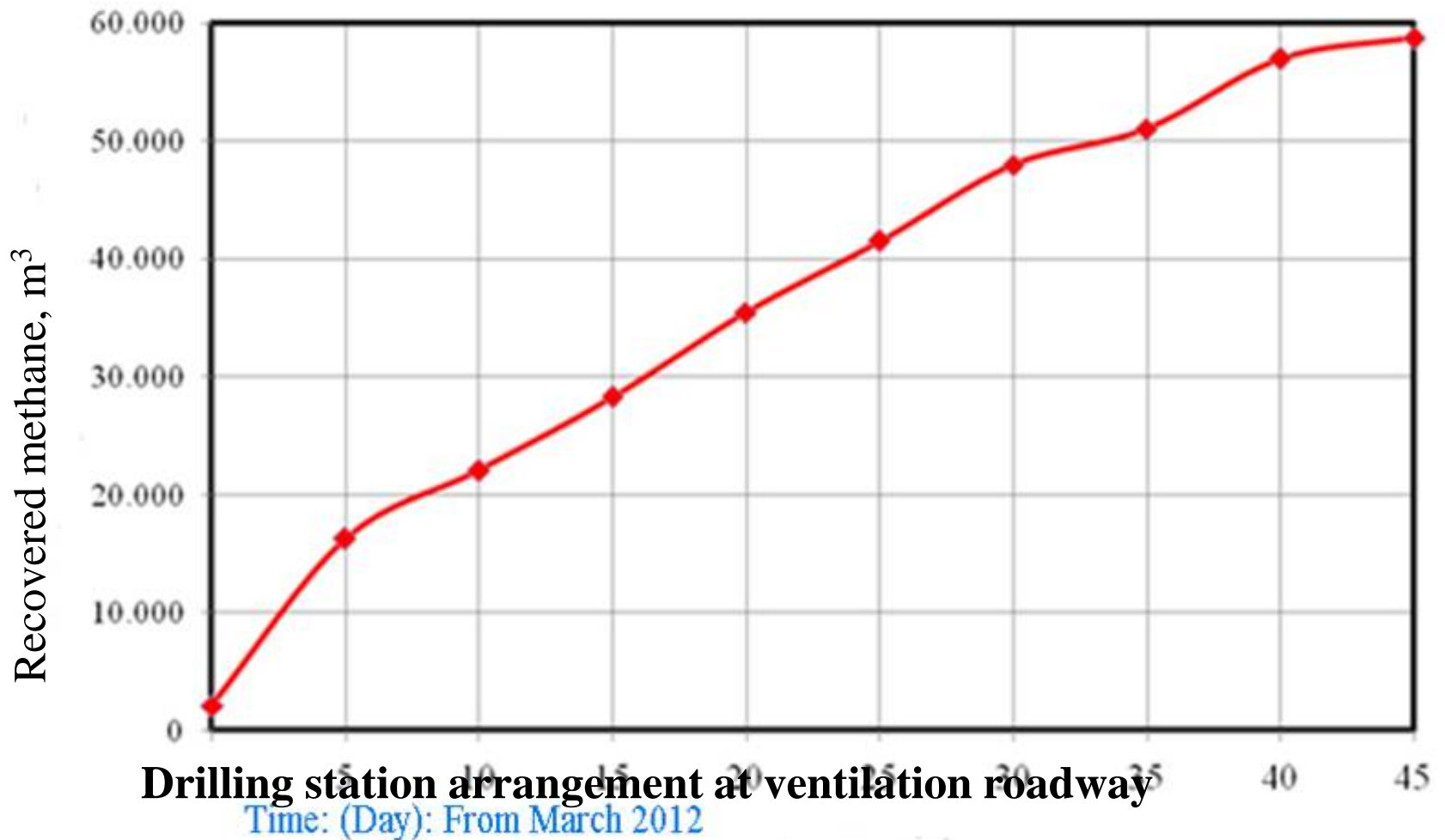


Vietnam Coal Sector Update

- The most gassy mines: Mao Khe, Khe Cham, Quang Hanh, Duong Huy
- In-situ gas content: up to 7.5 m³/T
- Gas emission: up to 15.5 m³/T.daily
- Gas drainage system: 01 system at Khe Cham coal mine
- Gas utilization: Not yet
- Gas dilution in coal mine: Mine ventilation
- Gas control: Centralized Monitoring System (30 systems)
- CMM research agency: Mine Safety Center, Institute of Mining Science and Technology



Methane Drainage System in Khe Cham Coal Mine (1)

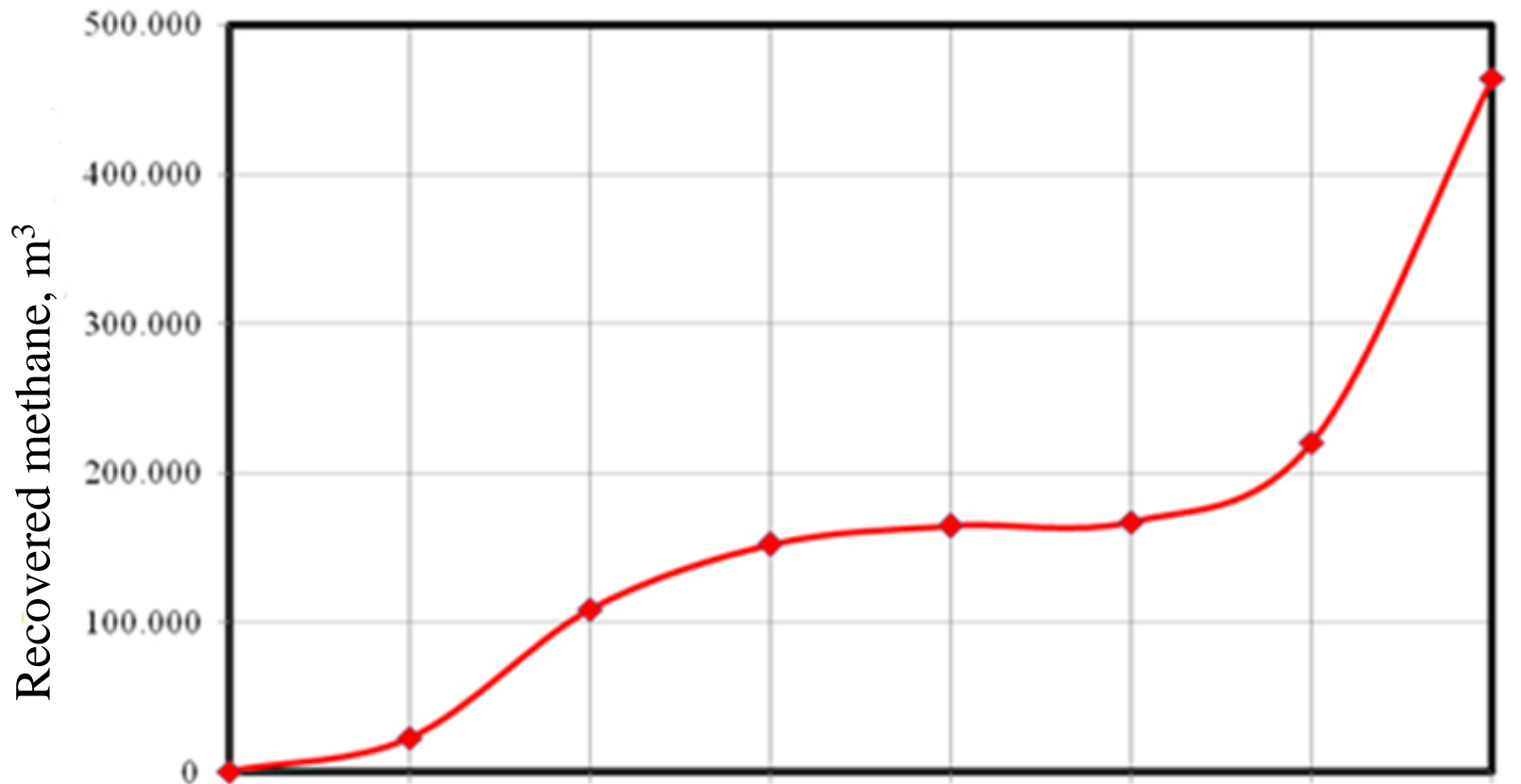


Drainage period: 45 days

Recovered methane: 59,000 m³



Methane Drainage System in Khe Cham Coal Mine (2)



Drilling station arrangement at ventilation roadway

No.13.1-2 and 13.1-3 longwalls Time (Day): From March 2012

Drainage period: 560 days

Recovered methane: 470,000 m³



Other updated information

- * Khe Cham Gas drainage system
 - Average methane flow: 2 - 3 m³/min
 - Average methane concentration: 40 - 50 %
- * Vinacomin is planning to apply the methane drainage at Quang Hanh and Mao Khe Coal mines



CMM Project Outlook

- Challenges to emission reduction projects in Vietnam:
 - Weak coal prices
 - Soft carbon market
 - Restrictive regulatory framework
 - Finance is limited



CMM Project Outlook (2)

- Approaches to overcoming challenges
 - Legislation and regulation
 - Sponsored by an international organization (ODA project) or an international investment to utilize methane
 - Policies and incentives
 - Capacity building
 - Technology transfer
 - Training and workshops



Vietnam Coal Sector Methane Action Plan

- Call for international investment or an ODA project to utilize methane
- Barriers: Low carbon price in the world market, price of equipment is high
- Assistance Needed: budget, technological transfer and training



Contact Information and Announcements

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