

# Country Action Plan--- Coal Sector in China

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## Country Actions:

- **Framework of GMI administration and working teams in China**
- **National plan**
- **Policies**
- **Demonstration**
- **Recent development**



# Framework of GMI Administration and working teams in China

MOFA &  
NDRC

Coordination Office for GMI :  
China Coal Information Institute

Agriculture

Oil and  
Natural Gas

**Coal**  
China Coal Information Institute

Landfill Gas

Waste Water



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- Under the leadership of NDRC, CCII organized and coordinated all sectors to actively participate in GMI activities and played important role in coal sector in China



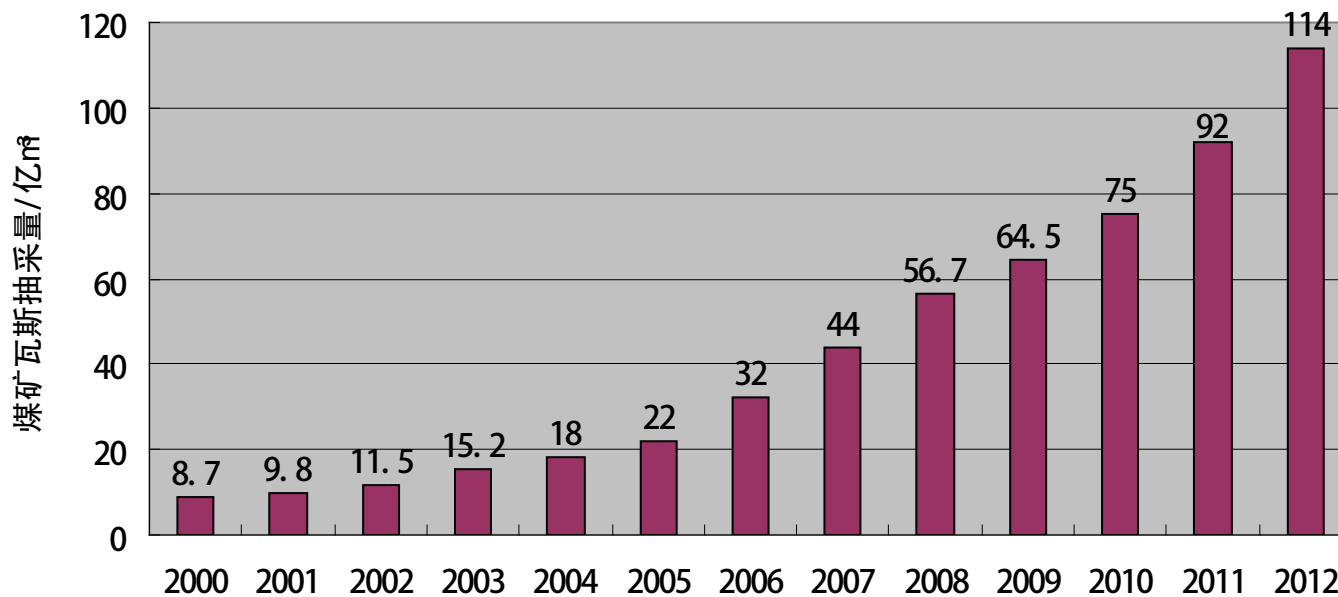
## Recovery and utilization of CBM/CMM

- National plan of CBM/CMM recovery and utilization from 2011-2015 - NDRC
- Governmental Funds – NDRC and Ministry of Finance
- Preferential policies – Ministry of Finance
  - Subsidies
  - Tax reduction
- National R&D programs and demonstration - MOST

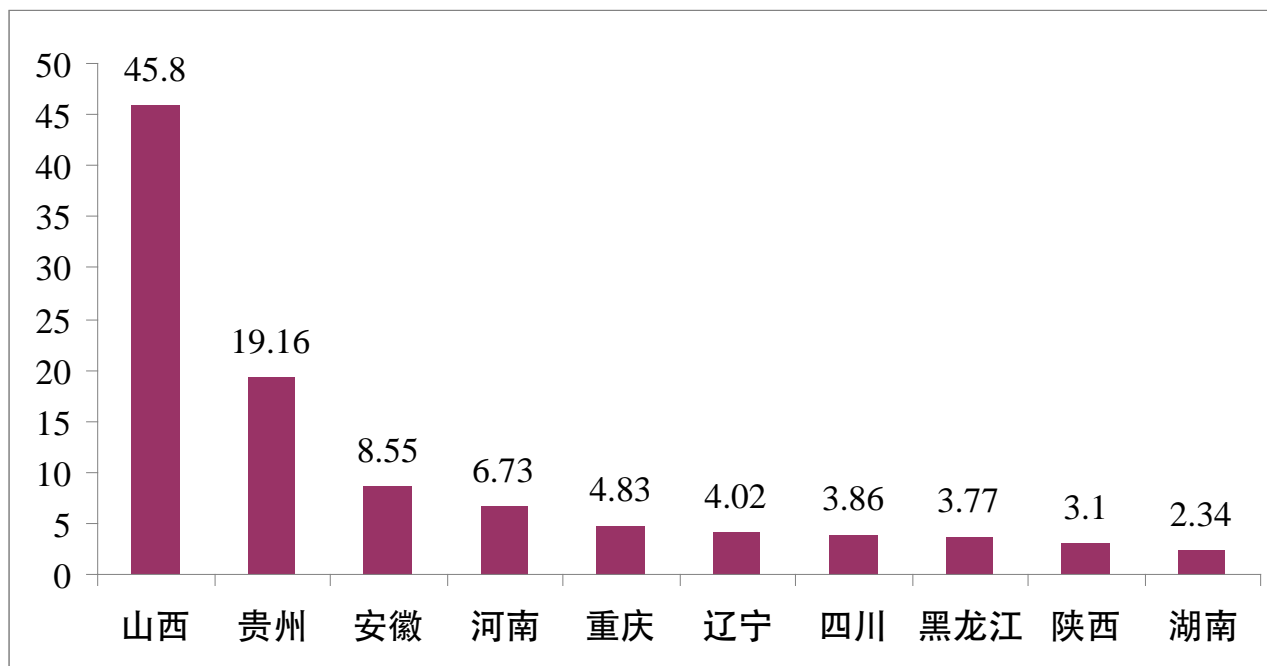


# Recent Development

- CMM recovery reached 11.4 billion m<sup>3</sup> in 2012, increased by 25.3% compared with that in 2011.

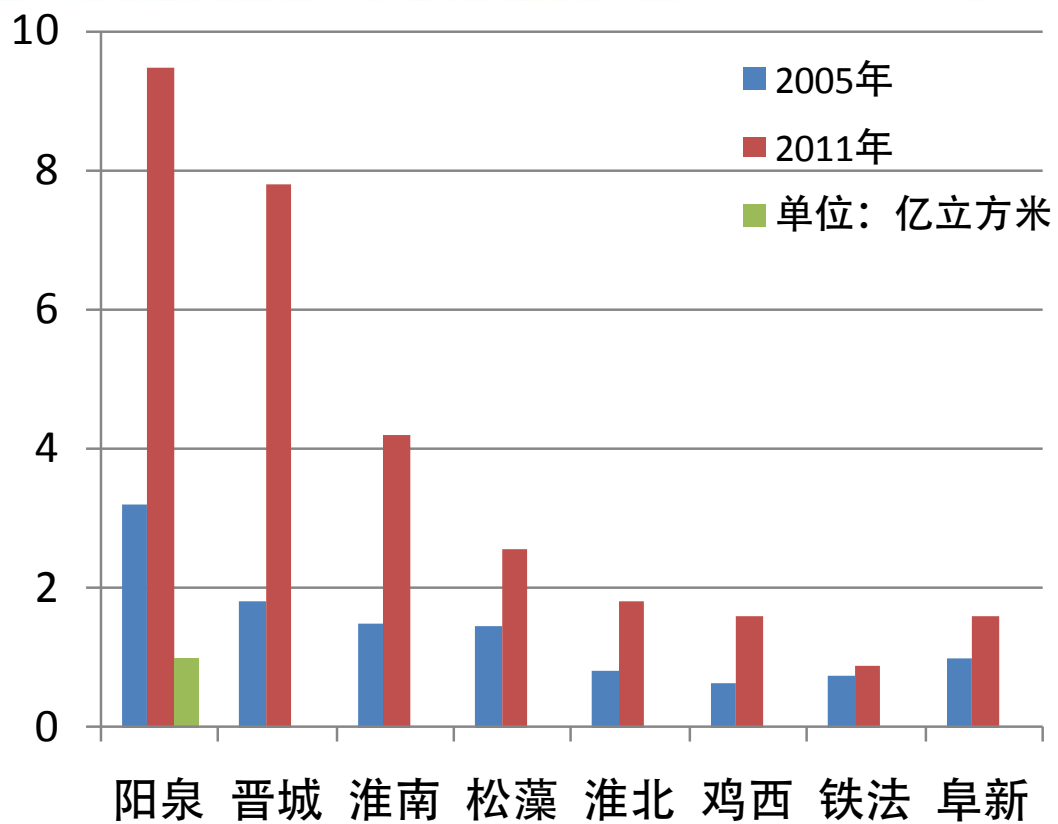


Volume of CMM drained underground from 2000-2012 in China



**Top 10 Provinces with drainage volume of CMM of 2012**



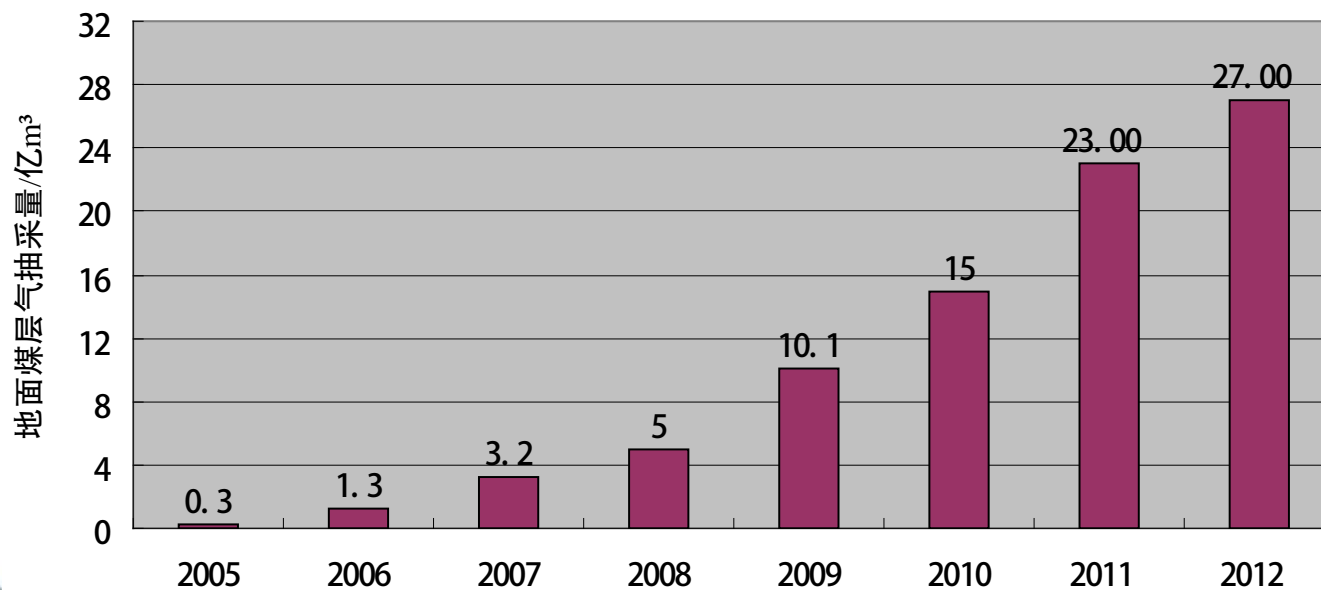


Comparison of CMM Drainage Volume in 2005 and 2011 of 8 Key State Owned Coal Mining Groups





- Produced 2.7 billion m<sup>3</sup> of CBM in 2012.

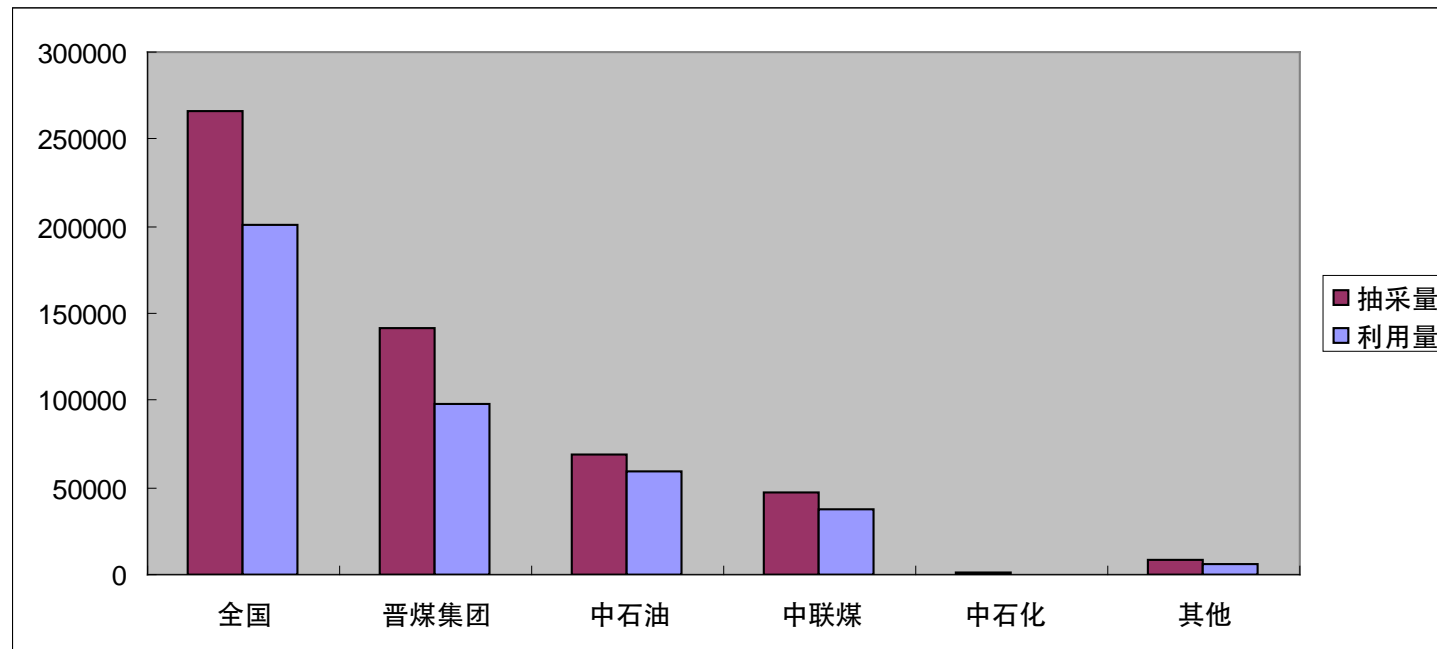


2005-2012年地面井煤层气产量

CBM production from surface wells increased from 2005-2012 in China



## CBM Development Companies with CBM production

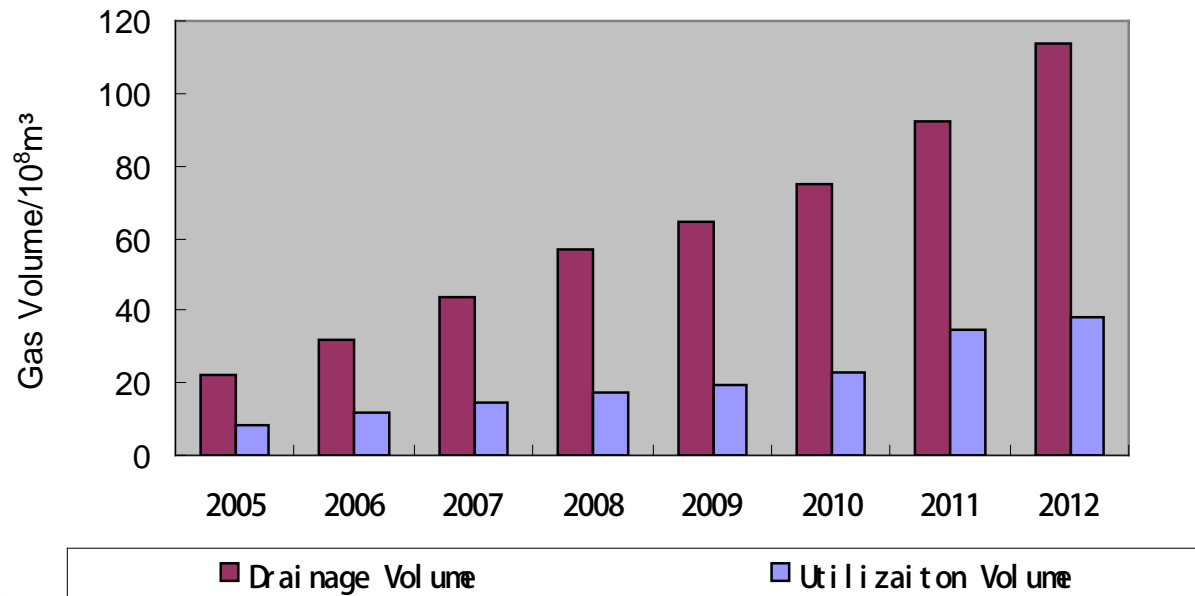


## CBM production and utilization of 2012 in China



# Potential CMM Utilization Projects

- Recovered 11.4 billion m<sup>3</sup> of CMM in 2012
- Used 3.5 billion m<sup>3</sup> of CMM 2012.
- About 7.9 billion m<sup>3</sup> of gas are available for developing more gas utilization projects



The CMM recovery and utilization from 2005 to 2012 (10<sup>8</sup> m<sup>3</sup>)



- Households use
- Power Generation
- Compressed CBM
- Liquefied CBM
- Ventilation Air Methane
- Low concentration CMM
- CMM fueled Vehicles



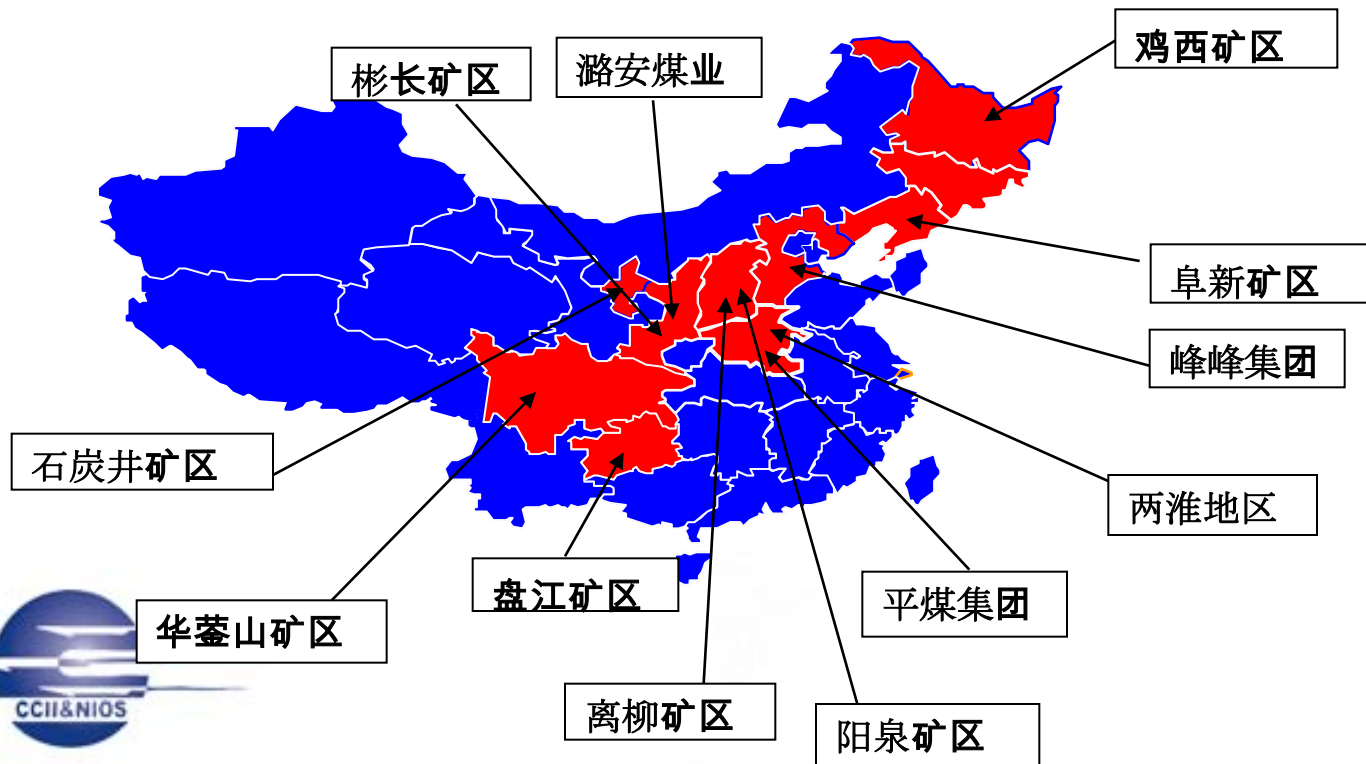
## ■ Power generation

- A number of new CMM power plants were built with total installed capacity of 1500 MW in China by the end of 2011.



- Power plants fueled with low concentration CMM

Domestic gas engines burning low concentration CMM become popular in China.  
Investment was estimated at 8000-9500 RMB per 1KW.



# 2013 13<sup>th</sup> International Symposium on CBM/CMM in China

October 24-2, 2013, Beijing, China

Hosted by

US EPA and

China State Administration of Coal Safety Inspection

Organized by

China Coal Information Institute



2012 CBM/CMM Symposium  
Beijing, 15-16 Nov.2012

# Thank You

