

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

Geneve, October 22nd, 2014



**Central Mining Institute, Katowice, Poland
Experimental Mine „Barbara”**



Poland Coal Sector Update

Any new trends in the coal sector

	Unit of measures		2011		2012		2013		First half of 2014	
	mln m ³	%								
Total volume of methane emissions	mln m ³	%	803.0	100%	821.9	100%	838.2	100%	429.7	100%
Volume of captured methane (drainage)	mln m ³	%	227.6	28.3%	250.9	30.5%	259.7	31%	146.4	34%
Volume of utilized drainage methane	mln m ³	%	167.1	73.4%	180.9	72.1%	187.9	72,3%	103.8	70,9%

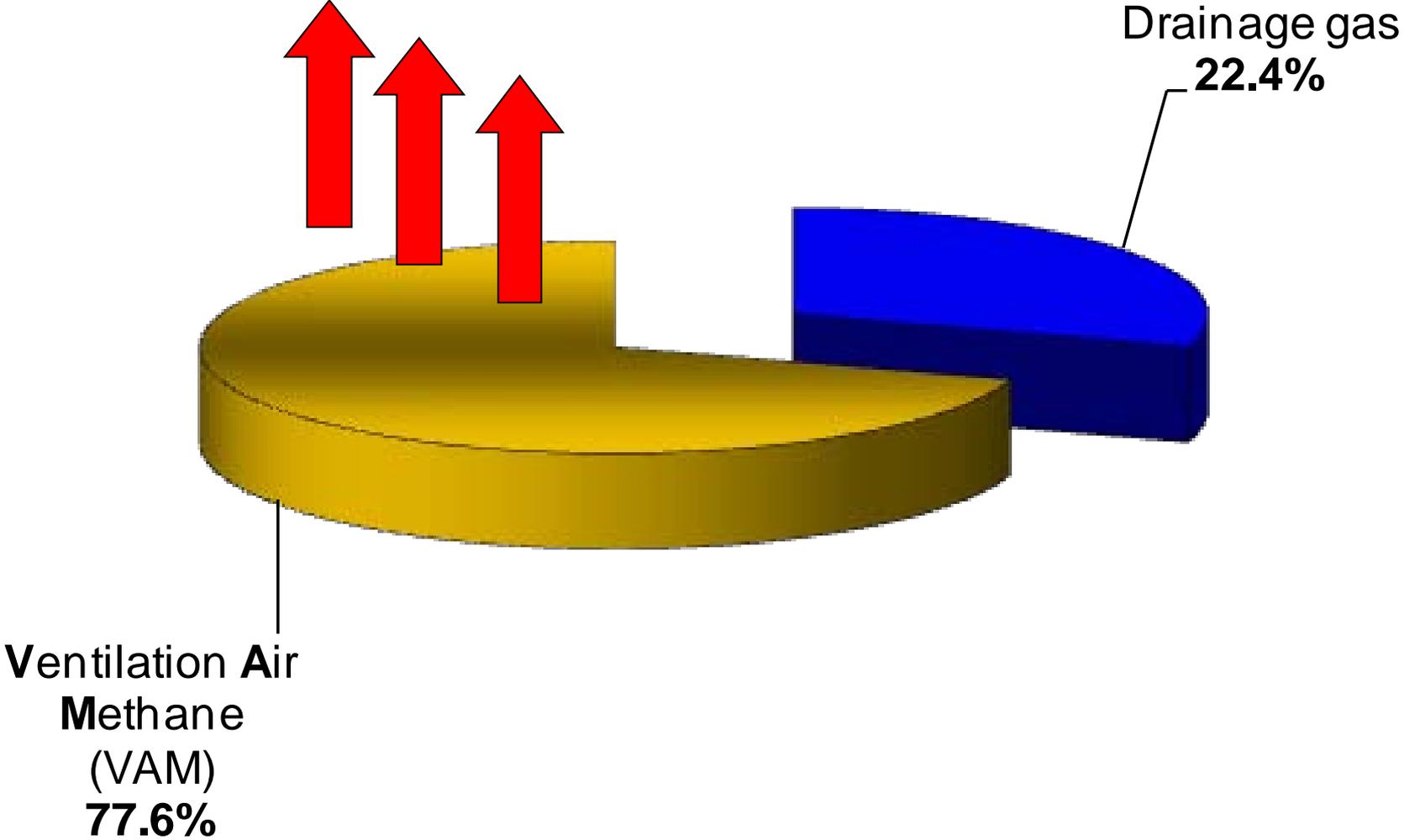


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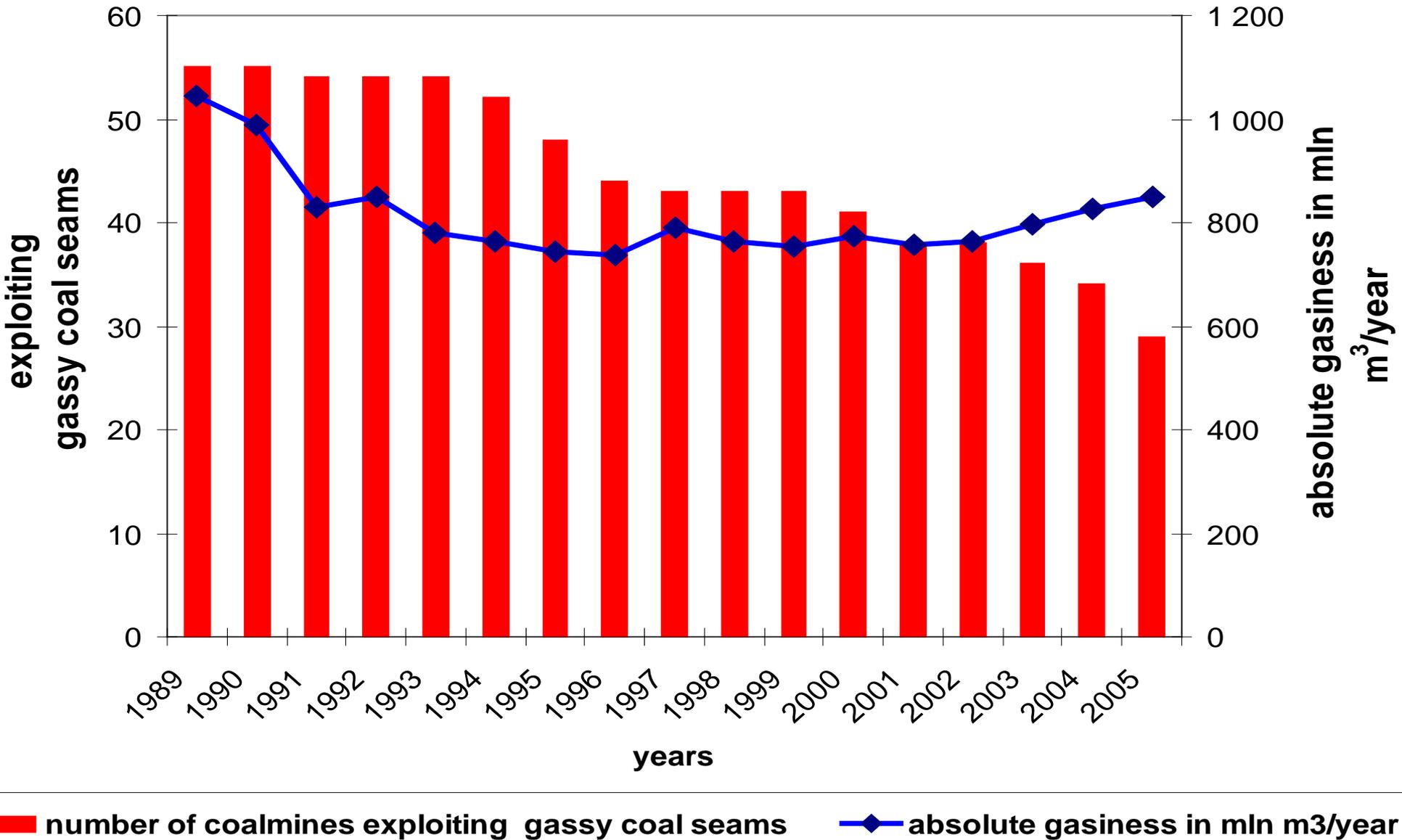


TOTAL GAS RELEASED DURING MINING OPERATIONS

(about **838.2 mln m3**) **821.9 mln m3 in 2013**



Changes of absolute gasiness versus decrease of active gassy coalmines' number



Poland Coal Sector Update

- New trends in the energy sector

Support system for CBM & CMM in Poland

Since March 11th, 2010 there is a support system for electricity produced from **high efficiency cogeneration** (Primary Energy Saving > 10%) from CBM and CMM.

This system is a real financial support for the efficient utilisation of CBM and CMM.

According to the energy law records, this system, will be valid until the year 2018



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CMM Project Outlook

- Challenges to emission reduction projects in Poland
 - Lack of clear incentives for methane capture and utilisation **e.g. production of electricity from VAM, CMM, CBM which could be easily utilised by the coal mines**
 - Concern that it could have impact on renewable energy prices (analysis needed ?)



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CMM Project Outlook (2)

- Approaches to overcoming challenges
 - Legislation and regulation
 - Policies and incentives
 - Energy pricing reform
 - Capacity building
 - Technology transfer (**need for effective surface and underground directional drilling technology**)
 - Training and workshops (**surface and underground directional drilling technology**)
 - **Polish Geological Law (after latest modifications) classifies CBM exploratory works similar like shale gas operations....**
 - Agreements and/or partnerships
 - Polish Mining is open for cooperation and investors**



CMM Project Outlook (3)

- Anticipated or planned projects

Ministry of Environment Project:

methane drainage ahead of mining using surface directional drilling wells – in progress – getting ready for fracturing

Individual talks of Drilling Companies with mining operators ...purchase of new underground drilling equipment (directional)



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Conclusions – potential

- **22.4%** of total methane released during mining is being utilized
- Small increase in drainage methane utilization: **72.3%** from **72.1%** (in 2012)
- Still venting to the atmosphere drainage gas - last year: **71.8 mln m³ – ready resource to utilize !**
- **650.3 mln m³ VAM (including a.m. 71.8mln m³) is ready to manage (subject study ?)**



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Poland Coal Sector Methane Action Plan

- Status of Coal Sector Methane Action Plan development (under construction...)



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