

Joint Global Change Research Institute



Developments in Ukraine and "Best Practices" for Regulatory Policies

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Overview

- Progress in Ukraine and policy update: CMM and Green Tariff Laws, project update
- Drawing from international experience: key issues
- Conclusions



Progress in Ukraine and policy update

- Growing government interest at high level
- Green Tariff Law (adopted April 2009, new revisions for methane soon)
- Law on Coalbed Methane (adopted Spring 2009)
- Inter-agency Working Group on Mine Degasification and CMM Collection and Use (Feb. 2009)





Policy update: Green Tariff Law

- Provides a guaranteed feed-in tariff for renewable energy, including CMM, for 20 years, although need to update due to technical error with Law
- Rate of about 15 eurocents, indexed to Euro (several times more than average wholesale rate)
- The National Electricity Regulatory Commission (NERC) has issued regulations allowing companies to apply for licenses under the Green Tariff Law.
 - Dozens of companies have applied (mostly wind and mini hydro projects)
 - Two developers have applied for projects relevant to methane (Zasyadko Mine and a dairy)







Policy update: Coal Mine Methane Law

- A first step to clarify legally what CMM is and how to promote it
 - Government should issue CMM leases with coal mining leases to mine operator
 - Allows coal mines to sell their rights to the CMM,
 but does not require them to do so
- Requires mines to limit CMM emissions according to norms, fines for noncompliance— very controversial provision







JI projects in Ukraine: overview

- 9 JI projects approved by Ukraine (e.g., Projects at Zasyadko and Komsomolets Donbassa)
- Most would install CHP or new heat boilers
- All submitted for approval in 2006 or later



Some challenges facing CMM in Ukraine

- Rights to the methane not easily transferred and there is ambiguity behind ownership of CMM
- Most coal enterprises not profitable, only a few have seen significant private investment
- Most CMM low-grade, less than 30% methane



Analysis of international best practice

- Assessment of global best practices to promote coal mine methane policy (January 2009)
- There is no univocal answer to what is the "best" policy.
 - The most appropriate policy depends on the socioeconomic, political and other conditions in different countries.
- However, similarities drawn from the successful polices and institutional choices of different countries can be very useful.



Drawing from international experience

- Potential uses of methane are important:
 - Power/heat or feed into natural gas pipeline
- Important to consider legal framework
 - For ownership of the methane
 - For sale of power, heat or gas
 - More supportive the overall legal framework, fewer incentives for coalmine methane needed
- Two general policy areas: information support and incentives





Policy implementation comparison

	Feed-in Tariff	Mandatory Requirements	Tax Incentives	Liberal Energy Markets
Australia		+		+
China			+	
Germany	+			
India			+	+
UK			+	+
USA				+

 Also considered: other economic incentives, education and information dissemination, etc.







Case of Germany: solution to CMM ownership

- Germany takes leading place in the world in utilized CMM as a percent of its total mine-related methane emissions
- Legal framework adopted at the federal level states.
 - Federal Mining Authority responsible for the administration of activity related to CMM exploration, extraction and processing
 - CMM ownership rights transferred to coal mining company for the duration of a coal mining license
 - License can be refused or withdrawn by the Federal Mining Authority





Economic and financial incentives

- Various economic and financial incentives have been developed to foster CMM utilization projects.
 - Feed-in tariffs (France, Germany, Ukraine)
 - Obligations and grants (Australia)
 - Tax incentives (UK)





Education and information dissemination

- CMM clearinghouses, information centers and technology transfer programs:
 - China (China Coalbed Methane Clearinghouse 1994)
 - Russia [Russian International Coal and Methane Research Center (Uglemetan) - 2002]
 - India (India CMM Clearinghouse 2008)
- International cooperation programs:
 - Methane to Markets partnership
 - United Nations (UN) Economic Commission for Europe
 - International Energy Agency
 - Bilateral (eg. U.S. EPA with several countries)



Conclusions

- Ukraine has a huge potential for greater use of CMM and reduced emissions
- Growing number of projects under development, growing interest in government
- New laws and regulations should help, particularly if they are implemented effectively
- Learning from international best practices can help Ukraine address major challenges (clarifying ownership of CMM and finance)

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