

Coal Mine Methane in NDCs and NDC Implementation Plans

8TH FORUM ON ENERGY FOR SUSTAINABLE DEVELOPMENT

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Outline

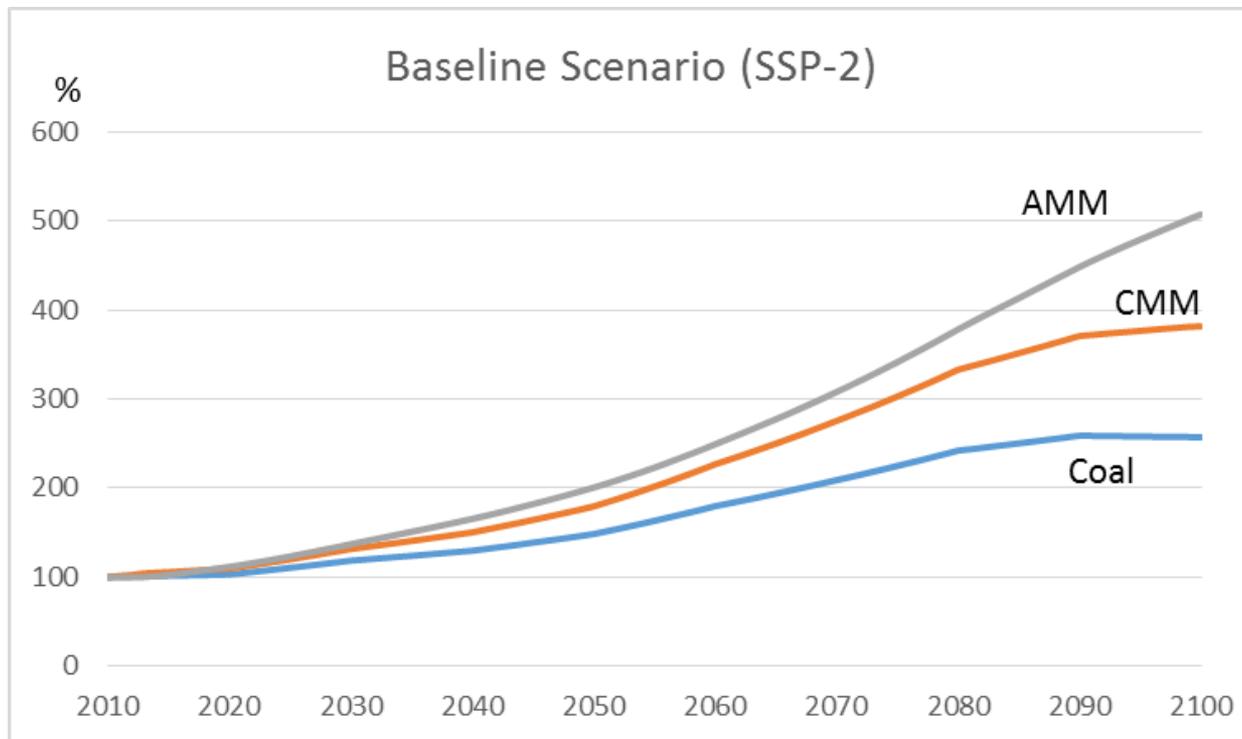
- Importance of CMM for GHG emissions reductions
- Methane in NDC targets and NDC implementation plans
- Guidance on CMM/AMM in NDC implementation plans

Methane in Global Emissions

- Methane accounts for 16% of total anthropogenic GHG emissions and about 30% contribution towards overall global warming
- Coal mining industry accounts for 8% of total methane emissions from human activities
- Reduction of CMM can help achieve NDC goals

How Mitigating CMM can Help Countries Meet Their Future NDCs?

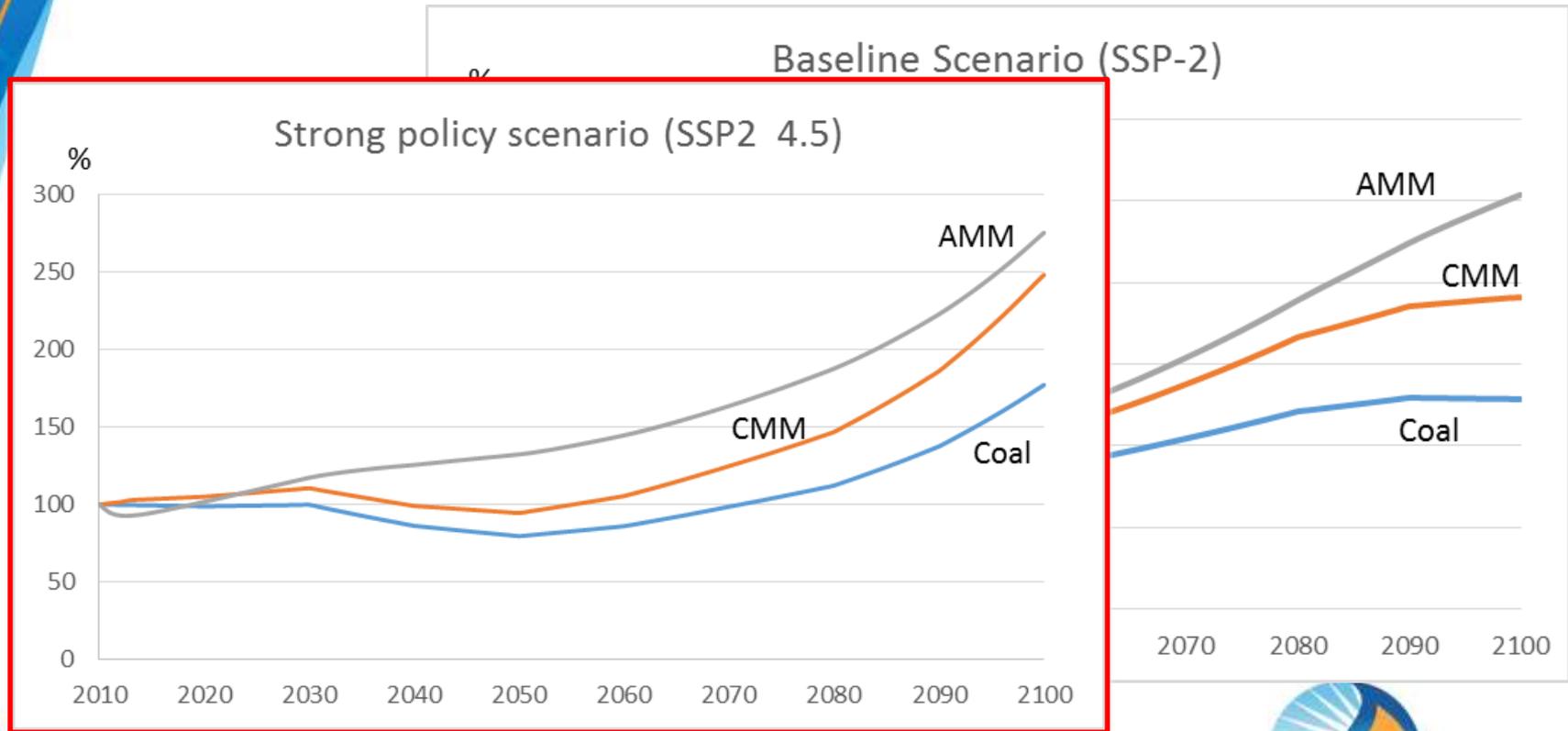
Global CMM and AMM emissions are projected to grow in the **reference scenario**



Sources:
Coal production: Shared Socioeconomic Pathways (IIASA)
CMM and AMM: PNNL estimates

How Mitigating CMM can Help Countries Meet Their Future NDCs?

Global CMM and AMM emissions are projected to grow in the **policy scenario as well**



Sources:
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Methane in NDC targets

- 175 out of 189 countries included methane in the scope of their NDCs submitted to UNFCCC by March 2016
- This constitutes 93% of all countries that submitted their INDCs
- However, only a few countries specifically mentioned CMM
 - ❖ Afghanistan and Bosnia and Herzegovina
- ❖ CMM is not fully linked with NDCs today for any major coal producer

Methane in NDC Implementation Plans

- Coal mine methane in environmental strategies, as stated in Biennial UNFCCC reports:
 - ❖ Kazakhstan plans to produce 10% of power from coalbed methane by 2030
 - ❖ Russia plans to utilize 5-10 bcm of CMM in 2020 and 30-35 bcm in 2030
 - ❖ South Africa plans to capture 25% of coalbed methane starting 2020
- Countries have chance to extend these goals in their NDC implementation plans
- This may make it easier to develop clear policies and plans, and also to link planning with climate finance

Guidance on CMM in NDC Implementation Plans: Approach

- Preparing document in 2017 to assist countries in planning
- Structured to match UN guidance under preparation
- UN guidance is non sector-specific, while this guidance would give sectoral details

Guidance on CMM in NDC Implementation Plans: Outline

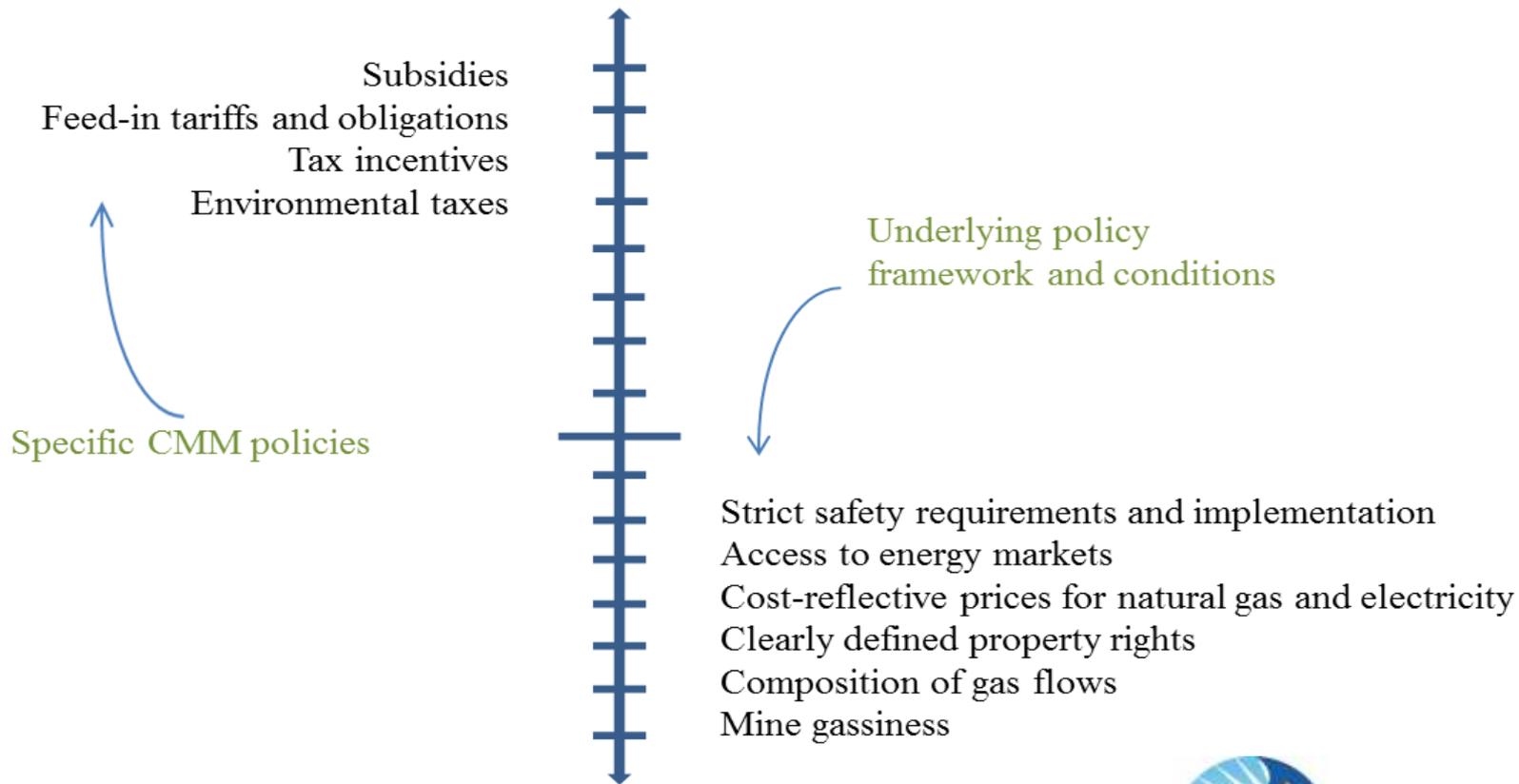
- Governance arrangements related to NDC implementation of CMM reductions
- Funding CMM and AMM in NDCs
- Monitoring and reporting CMM within NDCs
- Reviewing progress and revising strategies

Governance Arrangements Related to NDC Implementation

- Enhance coordination between environment and coal ministries
- Identify roles and responsibilities
- Create favorable legal and regulatory framework
 - ❖ Clearly define property rights
 - ❖ Consider incentives to facilitate investment
- Build technical capacity and stakeholder awareness

Policy Framework for Incentivizing CMM Mitigation

More targeted policy support needed



Less targeted policy support needed

Funding CMM and AMM in NDCs

- International support
 - ❖ International financial institutions: focus on methane, not coal. Coal might be not eligible for climate financing
 - ❖ Including CMM in NDC implementation plan is important for linking it with climate finance
- Government support
 - ❖ When methane concentrations are low, projects may need additional financial support from governments
- Private investment
 - ❖ Some CMM and AMM projects are cost-effective because methane is an energy resource

Monitoring and Reporting CMM within NDCs

- Monitoring and Reporting Requirements
 - ❖ Will be defined in the global stock take (2023)
 - ❖ Focus will likely be on national inventories and progress against specific NDC targets
 - ❖ Monitor progress in CMM capture and use will help in understanding progress
- Include CMM and AMM in reporting
 - ❖ Accounting rules yet to be developed to better track public climate finance and increase transparency
 - ❖ Biennial updates on all countries' GHG inventories shall be reported to UNFCCC according to the Paris Agreement

Reviewing Progress and Revising Strategies

- Set quantitative goals and monitor progress
- Update NDC implementation plans if needed
- Include CMM and AMM next NDCs

Conclusions

- CMM and AMM offer important opportunities, particularly as emissions are likely to rise
- Including CMM and AMM in NDC implementation plans can help align
 - ❖ Policies
 - ❖ Coordination
 - ❖ Ability to leverage financing

Thank you!