United States Coal Sector Update to the 27th Session of the Global Methane Initiative (GMI) Coal Subcommittee

24 September 2018
U.S. Environmental Protection Agency
United States Coal Sector Update

- Trends in the coal sector
  - 2017 coal production = 702,268 metric tons (+ 6% over 2016; Q1 2018 +14% over Q1 2017)\(^1\)
- 2016 CMM emissions (GHGRP): 38 MMtCO\(_2\); -13% from 2015\(^2\) (2017 emissions to be published in October)
- Currently 16 CMM projects at active U.S. mines\(^3\)
- New trends in the energy sector
  - Natural gas prices remain low; coal production has stabilized & new mines opening
- Regulatory Update
  - California cap-and-trade program extension to 2030; regulations in development

\(^1\) U.S. EIA, “Quarterly Coal Report”, July 2018
\(^3\) U.S. EPA. “Inventory of U.S. Greenhouse Gas Emissions & Sinks: 1990-2016.” April 2018
United States CMM Project Outlook

- Growing demand for gas drainage services
- Strong and stable offset price in CA Cap-and-Trade (~USD 14/tCO2e) driving interest in CMM, AMM and VAM\(^1\)
  - Several AMM projects came on-line in 2017 or are in development
  - CMM and VAM projects at active mines in development or in planning
- Challenges to U.S. emission reduction projects:
  - Low power and natural gas prices in coal producing regions
  - Low price in voluntary CO2 markets: US$1-3/tCO2e
  - Uncertainty over the reduction in out-of-state offsets allowed into CA Cap-and-Trade market after 2020
  - CA Cap-and-Trade continues to exclude gas pipeline sales projects at active mines – largest share of CMM utilization in U.S.

\(^1\) California Carbon Info [http://californiacarbon.info/](http://californiacarbon.info/)
Highlights: U.S. Activities in Support of GMI in 2018

- Co-Chairing the Coal Subcommittee
- Coal technical sessions and Subcommittee meeting at the 2018 Global Methane Forum, April 2018
- Updating key GMI coal sector documents
- Collaboration with and support for UNECE
  - Supporting work of the GOE on CMM that furthers the dissemination of best practices, through 2019
  - Collaborating on development of AMM Best Practices Guidance Document
  - Support for new UNECE Centres of Excellence on CMM
    - Pre-feasibility training program with ICE-CMM in China
  - Session at the World Mining Congress, Astana, June 2018
  - UNECE/GMI Workshop in Bogota, Colombia, July 2018
Contact Information

Ms. Felicia A. Ruiz  
Manager, Coalbed Methane Outreach Program  
U.S. Environmental Protection Agency  

Co-Chair, GMI Coal Subcommittee  
+1 (202) 343-9129  
Ruiz.Felicia@epa.gov

www.globalmethane.org  
www.epa.gov/cmop