

Oil & Gas Subcommittee
13 January 2021
Webinar Meeting

SUMMARY

The Global Methane Initiative (GMI) Oil & Gas Subcommittee held a webinar meeting, “Methane Emissions Mitigation – Technology and Innovation” on 13 January 2021. The webinar was hosted by Mr. James Diamond of Environment and Climate Change Canada (ECCC) and moderated by Jonathan Banks, Clean Air Task Force. The webinar focused on (1) Cost-effective mitigation opportunities and readily available technology solutions, (2) Reducing methane emissions at compressor stations with integrated solutions for both greenfield and brownfield applications, (3) Improving operational efficiency by transforming associated gas into a reliable cost effective power generation solution, and (4) A programmatic approach to recover methane from venting operations. There were approximately 91 participants in the webinar representing a range of countries and organizations.

The webinar presentation and recording is available on the [GMI website](#).

Introductions and Welcoming Remarks

The GMI Oil & Gas Subcommittee Co-Chair, Mr. James Diamond, ECCC (Canada) provided welcoming remarks, reviewed the agenda for the meeting, and provided a brief update on the GMI Oil & Gas Subcommittee activities. He introduced the webinar moderator, Mr. Jonathan Banks, Clean Air Task Force.

Introduction to Webinar and Speakers

Mr. Banks presented an introduction to why methane matters and described recent trends and advancements in technological innovation in methane mitigation technology. He also introduced the webinar speakers.

Presentation: Methane Capture/Recompression System for Gas Compression and Station Blowdown Systems

Mr. Sean Garceau, Solar Turbines Incorporated, outlined the benefits of reducing methane emissions within the context of the goals of the GMI. He introduced pipeline blowdown and dry seal primary vent emission as opportunities to reduce methane emissions. Mr. Garceau provided an overview of several different Solar Turbines applications that can be implemented to reduce gas compressor venting, including enclosed burner system, dry seal recompression system, process vent recompression system, and process vent and dry seal recompression system. He also presented two case studies from the United States.

Presentation: Solar Mobile Turbomachinery in Flare Gas Applications

Mr. Jay Mistry, Solar Turbines Incorporated, discussed how associated gas can be used to generate electrical power. He introduced SMT60 technology from Solar Turbines, a complete mobile power plant which can generate electricity required for a production or fracking site from associated gas. Mr. Mistry also explained that using these systems improves emissions intensity compared to flaring.

Presentation: A Programmatic Approach to Recover Methane from Venting Operations, enabled by ZEVAC Technology

Mr. Doug Sahn, TPE Midstream, reviewed methane venting in oil and gas systems and introduced ZEVAC, a technology that captures and re-injects vent gas as an alternative to venting. He explained that venting presents a low-cost opportunity for immediate action and reviewed TPE’s impact-based approach. Mr. Sahn emphasized that the goal of TPE’s approach and ZEVAC system is to eliminate venting activities.

Question and Answer

Mr. Banks facilitated a question and answer session. Each speaker answered specific questions regarding the capabilities of their technologies. Mr. Banks noted that speakers would follow-up regarding unanswered questions.

Wrap Up

Mr. Diamond emphasized that the GMI Oil & Gas Subcommittee welcomes feedback and suggestions on topics for future webinars. He thanked the presenters and webinar participants. He confirmed that the recording and presentation slides would soon be available on the GMI website.