

**VIRTUAL INFORMATIONAL WORKSHOP ON  
RESPONSIBLE AND SUSTAINABLE NATURAL GAS:  
CHALLENGES AND OPPORTUNITIES IN AFRICA**

**Organized by**



**September 14-15, 2021**  
*As of September 14, 2021*

**DAY 1 – TUESDAY, SEPTEMBER 14, 2021**

<b>9:00 EDT</b>	<p><b>Welcome and Orientation</b></p> <ul style="list-style-type: none"> <li>Anthony Armaly, Global Partnerships Manager, National Energy Technology Laboratory (NETL), Office of Fossil Energy and Carbon Management (FECM), U.S. Department of Energy (DOE)</li> </ul>
<b>9:10 EDT</b>	<p><b>Opening Remarks: U.S. Government Perspectives on the Coming Energy Transition</b></p> <ul style="list-style-type: none"> <li>Landon Derentz, Director of Africa, Middle East, Europe &amp; Eurasia, Office of International Affairs (IA), DOE</li> <li>Ryan Peay, Acting Deputy Assistant Secretary, Office of Resource Sustainability, FECM, DOE</li> </ul>
<b>9:45 EDT</b>	<p><b>Challenges and Opportunities of a Net Zero Future for Africa</b></p> <p><b>MODERATOR:</b> Andrew Palmateer, Program Director, United States Energy Association</p> <p><b>SPEAKERS</b></p> <ul style="list-style-type: none"> <li>Wale Shonibare, Director, Energy Financial Solutions, Policy &amp; Regulation, African Development Bank</li> <li>Bertrand Heysch de la Borde, Director, Energy &amp; Mining, International Finance Corporation, World Bank Group</li> <li>Dr. Lily Odarno, Director - Energy, Development and Climate in Africa, Clean Air Task Force</li> </ul> <p><b>TOPICS</b></p> <ul style="list-style-type: none"> <li>Innovating for a net zero future             <ul style="list-style-type: none"> <li>Making a case for net zero gas industries</li> <li>Setting benchmarks for responsible natural gas development</li> <li>Capturing and utilizing flared gas</li> </ul> </li> <li>Are international financial institutions ready to support responsible natural gas development?</li> <li>DOE innovation supporting an affordable net zero gas industry</li> <li>How can governments use innovation to support the transition to an affordable net zero gas strategy?</li> </ul>
<b>10:55 EDT</b>	<b>Q&amp;A and Open Discussion</b>
<b>11:30 EDT</b>	<b>Adjourn</b>

**DAY 2 – WEDNESDAY, SEPTEMBER 15, 2021**

9:00 EDT	<p><b>Opening Remarks</b></p> <ul style="list-style-type: none"> <li>• Rachel Halpern, Division Director for Justice &amp; Engagement, FECM, DOE</li> </ul>
9:10 EDT	<p><b>Fostering Technology Innovation to Maximize Abatement of Emissions in the Natural Gas Sector</b></p> <p><b>MODERATOR:</b> Stephen Thompson, Global Head, Poten &amp; Partners, Inc., LNG &amp; Natural Gas Advisors</p> <p><b>SPEAKERS</b></p> <ul style="list-style-type: none"> <li>• Jared Ciferno, Technology Manager, Natural Gas Infrastructure, NETL, FECM, DOE</li> <li>• Bayo Olarewaju-Alo, Principal Consultant &amp; Partner, AVODAN Project and Engineering Services Ltd.</li> <li>• Dr. Mark C. Thurber, Director, Program on Energy and Sustainable Development, Stanford University</li> </ul> <p><b>TOPICS</b></p> <ul style="list-style-type: none"> <li>• Adaptation of innovative technologies, standards, and best management practices</li> <li>• Water resource considerations (energy-water nexus)</li> <li>• Greening the gas transportation lifecycle – shipping and offloading</li> <li>• Methane emissions measurement and mitigation technologies, practices and technical gaps</li> </ul>
9:50 EDT	<p><b>Q&amp;A and Open Discussion</b></p>
10:00 EDT	<p><b>Finding Opportunities: Development of Added-Value Markets</b></p> <p><b>MODERATOR</b></p> <ul style="list-style-type: none"> <li>• Dr. Johan Van Dyk, Technical Specialist, Energy Supply and Conversion, Gas Technology Institute</li> </ul> <p><b>SPEAKERS</b></p> <ul style="list-style-type: none"> <li>• Ms. Olu Verheijen, Managing Director, Latimer Energy; Entrepreneur in Residence, Energy for Growth Hub</li> <li>• Dr. Daniel Haynes, Senior Scientist, Reaction Engineering Team, Energy Conversion Engineering Division, Research &amp; Innovation Center, NETL, DOE/FECM</li> </ul> <p><b>TOPICS</b></p> <ul style="list-style-type: none"> <li>• Stranded gas conversion to added value products: hydrogen, ammonia, etc. <ul style="list-style-type: none"> <li>○ Reducing and utilizing flared/vented gas</li> </ul> </li> <li>• Infrastructure repurposing: virtual pipelines, retrofitting export terminals with CCUS technology, etc.</li> <li>• Clean natural gas investment needs: communicating market opportunities and establishing effective incentives</li> </ul>
10:35 EDT	<p><b>Q&amp;A and Open Discussion</b></p>
10:45 EDT	<p><b>The Opportunity of Carbon Capture, Utilization and Storage (CCUS)</b></p> <p><b>MODERATOR:</b> Michael Moore, Program Director, United States Energy Association</p> <p><b>SPEAKERS</b></p> <ul style="list-style-type: none"> <li>• Mark Ackiewicz, Director, Carbon Capture and Storage Research and Development Division, Office of Clean Coal &amp; Carbon Management, FECM, DOE</li> <li>• Dr. David Khoza, Executive Manager, Integrated Geoscience Development, Council for Geoscience, Republic of South Africa</li> </ul> <p><b>TOPICS</b></p> <ul style="list-style-type: none"> <li>• Framing the challenges of CCUS</li> <li>• CCUS in the gas sector <ul style="list-style-type: none"> <li>○ Upstream; midstream; downstream</li> </ul> </li> <li>• International CCUS projects: collaboration opportunities</li> </ul>

	<ul style="list-style-type: none"><li>• Commercializing CCUS technologies</li></ul>
<b>11:10 EDT</b>	<b>Q&amp;A and Open Discussion</b>
<b>11:20 EDT</b>	<b>Closing Remarks</b> <ul style="list-style-type: none"><li>• James Jewell, Acting Deputy Director, Office of Africa, Middle East, Europe &amp; Eurasia, IA, DOE</li></ul>
<b>11:30 EDT</b>	<b>Adjourn</b>