

Seminar organised by



*With the support of
the European Commission and the Florence School of Regulation*

Seminar Agenda:

“Corporate & Policy experiences related to quantification, mitigation & reporting of methane emissions: Lessons for the future”

Monday, 22nd February 2021,
From 14:30 to 18:30 (CET)/ From 7:30 to 11:30 (CT)

To reach a net-zero future by 2050, the improvement of knowledge and minimization on methane emissions are critical levers to deliver the EU Green Deal’s objectives. In October of 2020, the European Commission released their EU strategy to reduce methane emissions. Their legislative proposals will follow this year. The role of natural gas in supporting this strategy will be critical as these molecules should be able to play a lasting role to ensure a fair but fast and sustainable transition.

Over the years, the gas industry has been fostering CH₄ emissions management and mitigation. They joined forces through mandatory and voluntary programmes to develop numerous tools, technologies and best practice guidelines. Today, the gas industry remains committed to the decarbonisation of the economy.

During this seminar, experts will discuss the benefits of using Methane Matters and Corporate Experiences to quantify, mitigate, and report CH₄ emissions. This event will offer the opportunity to learn about the policies on methane emissions in other jurisdictions. It will provide important discussions that will shed light on the science across the LNG value chain and will showcase concrete examples of how the gas industry is pursuing decarbonisation efforts by taking stronger steps to reduce methane emissions along the entire gas value chain.



**Brendan Devlin – Strategy & Foresight Counsellor
DG Energy, European Commission**

Brendan Devlin is the Strategy and Foresight Counsellor in the Directorate General for Energy of the European Commission.

In addition to giving strategic advice, his work focuses on methane emissions reductions, short-lived climate pollutants, supply chain integrity and transformation of international and national oil and gas companies.

He has lead the North Sea offshore renewables, islands and diversification teams.

He lead teams to connect (successfully) Caspian energy resources with the European Union (EU). He guided the negotiation and signature of the intergovernmental agreements necessary for the Southern Gas Corridor. His work has encompassed developing the legal doctrines applicable to import pipelines to the EU.

He has negotiated the texts for the sanctions regimes in place for energy for Iran and worked on investor protection & trade issues in non-EU states.

Before 2007, he guided the negotiation, signature (in October 2005) and ratification of the Energy Community Treaty, the first multilateral treaty between the successor states of the ex-Yugoslavia, Albania and the EU (and the first energy Treaty signed by the EU). Moldova and Ukraine have now joined the Treaty.

He began working in the Commission at the Directorate General for Competition leading major cases looking at the gas market in Germany and the North Sea. Then for three years, he worked as a note-taker at EU-U.S. Summits.

By training, Mr. Devlin is a lawyer and economist. He worked as a journalist before entering the Commission, writing in the UK national press and as an editor on a specialist political/economic journal. He has also worked in a Fortune 500 company and as teacher of political economy at the London School of Economics.

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**Anatol Feygin – Executive Vice President and Chief Commercial Officer
Cheniere Energy**



Anatol Feygin has served as Executive Vice President and Chief Commercial Officer since September 2016. Mr. Feygin joined Cheniere in March 2014 as Senior Vice President, Strategy and Corporate Development. Mr. Feygin also currently serves as Executive Vice President and Chief Commercial Officer of Cheniere Partners and as a director and Executive Vice President and Chief Commercial Officer of Cheniere Holdings. Prior to joining Cheniere, Mr. Feygin worked with Loews Corporation from November 2007 to March 2014, most recently as its Vice President, Energy Strategist and Senior Portfolio Manager. Prior to joining Loews, Mr. Feygin spent three years at Bank of America, most recently as Head of Global Commodity Strategy. Mr. Feygin began his banking career at J.P. Morgan Securities Inc. as Senior Analyst, Natural Gas Pipelines and Distributors. Mr. Feygin earned a B.S. in Electrical Engineering from Rutgers University and an M.B.A. in Finance from the Leonard N. Stern School of Business at New York University.

Francisco de la Flor – Director of Enagás, GIE & MARCOGAZ Board Member



Francisco de la Flor has over 35 years of experience in the gas industry. He has held the following notable international positions: Chair of the Group of Experts on Gas in the United Nations ECE, member of the ExCom of the International Gas Union and member of the Board or Executive Board of ENTSO-G, GIE, Marcogaz, and NGVA. He has an educational background in Chemical Engineering and Economic Science and Business Administration.

**Malcolm McDowell – Team Leader responsible for methane strategy,
DG Energy, European Commission**



Malcolm L. McDowell has been working at the European Commission in DG Energy for ten years. He is Team Leader responsible for the methane strategy. He was previously responsible for renewable gases in the renewables unit and before that, he was responsible for the oil refining sector and worked as an oil and gas analyst.

He also previously worked in industry, including as Head of EU Affairs at oil & renewable diesel company Neste and for a number of years in the banking industry, including as equity research analyst at French bank Société Générale, Economic Adviser at the European Savings Banks Group, and Head of Economic Affairs at the European Mortgage Federation.

He has a Master of Science in Natural Resource and Environmental Economics from University College, London and a Master of Arts in Philosophy and Economics from the University of Edinburgh.

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**Moderated by Fiji George – Senior Director, Climate & Sustainability
Cheniere Energy**



Fiji George has 26+ years of experience related to energy and environmental issues spanning the natural gas value chain. Mr. George was a member of the National Academies of Sciences, Engineering and Medicine (NASEM) committee that published a study on methane emissions. He has been involved in several multi-stakeholder studies and is a co-author on multiple peer-reviewed papers. Prior to joining Cheniere, Mr. George worked at Southwestern Energy, Shell and El Paso Energy. He holds a master's in Environmental Engineering from Texas A&M University and a bachelor's in Mining Engineering from Anna University, India.

**David T. Allen – Gertz Regents Professor of Chemical Engineering & Director of the
Center for Energy and Environmental Resources
University of Texas at Austin**



Dr. David Allen is Professor of Chemical Engineering and Director of the Center for Energy and Environmental Resources at the University of Texas at Austin. Dr. Allen led some of the first studies to measure methane emissions from unconventional oil and gas production sites and has developed detailed predictive models for these methane emissions.

**Steven C. Wofsy – Professor of Atmospheric & Environmental Chemistry in the John A.
Paulsen School of Engineering & Applied Science
Harvard University**



Steven C. Wofsy is Professor of Atmospheric and Environmental Chemistry in the John A. Paulsen School of Engineering and Applied Science at Harvard University. He has degrees in Chemistry from the University of Chicago (B.S., 1966) and Harvard (Ph.D., 1971). His scientific work spans the broad range of processes affecting the chemistry of the atmosphere, including measurements and inverse modelling of regional and global emissions of carbon dioxide and methane from ground-based, aircraft, and remote sensing measurements. His studies aim to understand underlying causes for change in atmospheric composition, in order to mitigate human impacts and to help provide scientific information for societal decisions. He is the science lead for the MethaneSAT (satellite) and MethaneAIR (aircraft) imaging.

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**Paul Balcombe – lecturer in Chemical Engineering & Renewable Energy
Queen Mary University of London**



Paul Balcombe is a lecturer in Chemical Engineering and Renewable Energy at Queen Mary University of London, and his research focuses on developing probabilistic methodologies for the environmental and economic assessment of energy supply chains, with a focus on low carbon gases and methane emissions from natural gas.

He has a background in industry as a process engineer in several chemical sectors, and undertook his Ph.D. held jointly in chemical engineering and environmental economics. Paul spent five years as a researcher at the Sustainable Gas Institute at Imperial College London, where he created and led the Methane and Environment Programme, conducting research into improving understanding of methane emissions from gas supply chains, as well as improving emissions profiles from hydrogen and ammonia supply chains.

He is engaged in several research projects, summarised below:

- Measuring and modelling methane emissions from LNG carrier ships;
- Reducing uncertainties associated with methane emissions from natural gas supply chains;
- Determining the future cost and emissions profile of hydrogen and ammonia supply chains;
- Developing effective international policies on methane emissions in the EU.

▪ **Q&A**

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Moderated by Scott Foster – Director, Sustainable Energy, UN Economic Commission for Europe (UNECE)



Scott Foster joined UNECE in 2011 as Director of Sustainable Energy. Mr. Foster previously was Managing Director of Nomad Energy Consulting, Vice President of global regulatory affairs with AES Corporation, Senior Director for global power with Cambridge Energy Research Associates, senior expert on electricity at the International Energy Agency, and hydroelectric engineer at Pacific Gas & Electric Company.

**Paul M. Gunning – Director, Climate Change Division
U.S. Environmental Protection Agency**



Paul Gunning has provided climate change leadership at the U.S. Environmental Protection Agency (EPA) for over 23 years. He currently is the Director of the agency’s Climate Change Division where he is responsible for a wide range of programs and activities concerning climate change policy, economics, mitigation, science and impacts, and communication. This includes the collection of emissions data through the agency’s Greenhouse Gas Reporting Program, overseeing the development of the U.S. Greenhouse Gas Inventory, assessing climate science and impacts for Clean Air Act regulatory actions, and managing domestic and international emission reduction programs, such as the Global Methane Initiative. Paul also serves as the EPA’s Principal representative to both the U.S. Global Change Research Program and the Climate Security Advisory Council.

Paul formerly served as the Chief of the Division’s Non-CO₂ Programs Branch, where he was responsible for a suite of domestic and international partnership programs, working with companies and organizations in the energy, waste management, agriculture, and industrial sectors to reduce GHG emissions through the implementation of cost-effective mitigation strategies. Prior to joining the EPA, Paul was in the private sector where he worked as a consultant for the EPA, USDA, and the Department of Defense on strategic planning and environmental program implementation.

Mr. Gunning holds master’s degrees in environmental science from S.U.N.Y. College of Environmental Science and Forestry and public administration from the Maxwell School of Citizenship and Public Affairs at Syracuse University.

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Timothy Taylor – Planning Analyst & Rule Specialist
Climate Change Unit Colorado Air Pollution Control Division



Mr. Taylor is currently a Planning Analyst & Rule Specialist in the relatively newly formed Climate Change Unit of the Colorado Air Pollution Control Division. Mr. Taylor drafted Colorado's greenhouse gas (GHG) reporting rule and HFC phase-out rule that were adopted by Colorado's Air Quality Control Commission in May 2020 and is the lead author of the 2021 Colorado GHG Inventory update report. Mr. Taylor is also contributing to the development of GHG reduction rules for oil and gas in this role.

From 2013 – 2019, Mr. Taylor was the Work Lead for the Air Pollution Control Division's Optical Gas Imaging Inspection Program for Oil & Gas, which is a program he started in 2013. Since the start of the program, over 12,000 OGI inspections of oil & gas facilities have been completed in Colorado and the observed facility leak rate has decreased from 28% to 13%.

From 2007 – 2013, Mr. Taylor worked as an inspector with the Oil & Gas Team of the Air Pollution Control Division and was the lead inspector for the Division for the joint enforcement action with the U.S. EPA against Noble Energy that resulted in a landmark settlement in 2015 to reduce storage tank leaks at Noble's well production facility operations in Colorado's ozone nonattainment area.

Mr. Taylor is also a lead member of Colorado's Approved Instrument Monitoring Method (AIMM) Team, which is a program he helped start in 2014. The AIMM Team evaluates alternative Leak Detection and Repair (LDAR) technologies and programs for approval to be used at oil and gas operations to meet Colorado's Regulation No. 7 requirements to reduce methane and VOC emissions at these operations.

Adriana López de Alba Gómez – Director of International Cooperation
National Agency for Industrial Safety & Environmental Protection of the Hydrocarbon Sector (ASEA), Mexico



Adriana López de Alba Gómez is an Environmental Engineer graduate from the Metropolitan Autonomous University in Mexico, and holds a Master's Degree in Environmental and Resource Studies from the University of Waterloo in Canada. She has more than 15 years of experience in various environmental issues. Having specialized in the integral management of solid waste from the beginning of her career, she had the opportunity to become involved in the design and implementation of public policies. She has worked in the Secretariat of the Environment of the Federal District (now Mexico City), at various consulting firms in Mexico, and as a Sustainability Coordinator for Grupo Salinas (which includes Banco Azteca, Electra and Televisión Azteca). She has spent the last five years of her career at ASEA – the National Agency for Industrial Safety and Environmental Protection of the Hydrocarbon Sector – first as Advisor of the Executive Director, and since 2019 as Director of International Cooperation.

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**Jasmine Urisk (Hons B.A., M. Sc., C. Dir.) – Executive Director
Canadian Energy Partnership for Environmental Innovation**



Ms. Urisk has been actively engaged in the environment and energy sectors for over 30 years and has led several international programs while at TransCanada Pipelines Limited (now TC Energy Corporation), and before that at Environment and Climate Change Canada. Jasmine has directed the Canadian Energy Partnership for Environmental Innovation (CEPEI), an environmental and technology research program for the natural gas industry across Canada since 1995. In this role, she has been responsible for environmental research in the areas of climate change, air quality, renewables, waste management, energy efficiency, community energy, and related technologies. This includes projects for greenhouse gas and air emissions estimation, measurement studies, development of management protocols, calculation tools, and emissions inventories.

**Kate Konschnik, J.D. – Director, Climate & Energy
Duke Nicholas Institute for Environmental Policy Solutions**



Kate Konschnik directs the Climate & Energy Program at the Duke Nicholas Institute and is a Senior Lecturing Fellow at Duke Law School. Kate's work focuses on electricity sector policy related to decarbonization and deployment of clean energy resources. Kate also has worked extensively on governance of unconventional oil and gas production, and spent three months studying methane abatement policy at the International Energy Agency in Paris in 2019-2020.

Kate joined Duke from Harvard Law School, where she founded and directed the Harvard Environmental Policy Initiative and taught Oil and Gas Law. Previously, Konschnik served as Chief Environmental Counsel to U.S. Senator Sheldon Whitehouse. Kate began her legal career as an Environmental Enforcement Trial Attorney at the Department of Justice. Kate earned a law degree with honors at the University of California, Hastings College of the Law, and a bachelor's degree in political science from Tufts University.

- **Q&A**

16.35 CET/9.35 CT: Coffee break

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Moderated by Mathew Goldberg – MARCOGAZ
Environmental Assurance Manager, National Grid Gas UK



Mathew is a Chartered Environmentalist with the Society for Environment and Member of IEMA, with 15+ years of experience in environmental audit, assurance and advice in the energy and water industries.

He has been with National Grid for four years, previously in the infrastructure and civil engineering sector where he looked after a team of assurance engineers providing various forms of audit internally to the business, ensuring compliance to environmental obligations.

He sits on several UK and European committees for methane emissions policy and standards, including BSI, Energy Network Association in the UK, GIE, Marcogaz and the UN Gas Experts forum. Recently, he has been involved with the teams creating the methane documentation and reports from Marcogaz and GIE, including the work identifying the steps the industry can take to reduce emissions and around LDAR.

1. China Case Study (15 min)

Han Jinli – Chief Engineer, Beijing Gas Group Company Limited; Director of Information Technology & Executive Director, Gas Branch, China Civil Engineering Society; Director of the Information Working Committee & Executive Director, China Gas Association



Dr. Han Jinli, a professor-level senior engineer, is currently the chief engineer of Beijing Gas Group Company Limited. She led the establishment and improvement of multiple information systems for Beijing Gas Group to better monitor, manage and share data throughout its whole lifecycle. The systems she established won municipal and national awards. She has also led development of a number of industry standards, providing support for data structures and data values standardization for relevant information systems for natural gas enterprises. She actively promotes the development of industry informatization. She facilitates the organization of a national gas informatization conference each year, where best practices are shared through the publication of collected papers, keynote speeches and discussion sessions. The conference has become an important platform for the industry and other stakeholders to hold exchanges, showcase outcomes, learn from each other and discuss possible cooperation. The theme of the annual meeting has become a beacon for the gas industry's informatization work for that year.

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2. Production / Gathering & Boosting / Gas Processing (20 min)

Carrie Reese – Sustainable Development Director Pioneer Natural Resources Company



Carrie Reese joined Pioneer Natural Resources in 2011 and currently serves as Director of Sustainable Development. She is responsible for a team that supports the environmental sustainability of Pioneer operations through greenhouse gas management, scientific research, innovative technology development, and policy & regulatory advocacy activities. Her team also plays a leading role in corporate ESG strategy and sustainability reporting.

Brian Newmarch – Vice President, Capital Markets & Stakeholder Engagement Seven Generations



Mr. Newmarch oversees 7G's energy risk management, fundamental analysis and investor relations functions as well as the company's stakeholder engagement portfolio which includes communications, indigenous relations, community engagement, government relations and 7G's broader sustainability initiatives. Prior to joining Seven Generations, Mr. Newmarch was responsible for Canadian energy marketing during his time with Credit Suisse and Citibank. Mr. Newmarch holds a Bachelor of Commerce from the Haskayne School of Business and is a Chartered Financial Analyst.

3. Transmission (20 min)

Mark Gebbia – Vice President for Environmental, Permitting, & Regulatory Affairs Williams



Mark Gebbia is the Vice President for Environmental, Permitting, and Regulatory Affairs at Williams, where he and his team are responsible for environmental permitting, compliance, and stewardship programs across Williams' asset base. He is originally from New Orleans and North Florida and is a graduate of the University of Florida with a degree in Chemical Engineering. Since joining Williams in June of 2012, Mark has held several leadership positions within the environmental organization and been active in various industry advocacy and research organizations supporting environmental and methane emissions issues. Currently, Mark is the chair-elect of the Pipeline Research Council International (PRCI) board and a board member of Red Cross of Northeast Oklahoma. Mr. Gebbia was the Co-Chair for Permitting, Siting, and Community Engagement chapter of the 2019 National Petroleum Council (NPC)'s Study "*Dynamic Delivery: America's Evolving Oil and Natural*

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Gas Transportation Infrastructure". The study analyzed the permitting challenges and community engagement best practices for meeting the needs of U.S. oil and natural gas transportation infrastructure and provided recommendations to the Department of Energy.

**Thomas D. Hutchins, P.E. – Vice President of Environmental, Health and Safety
Kinder Morgan**



Thomas Hutchins is Vice President of Environmental, Health and Safety for Kinder Morgan. He has over thirty years of experience in the industry working in field engineering, project management, operations, pipeline safety and environmental, health and safety (EH&S).

Mr. Hutchins graduated from New Mexico State University (NMSU) with a Bachelor of Science in Civil Engineering. He started his career as a Field Engineer building pipelines and compressor stations for El Paso Natural Gas, one of Kinder Morgan's interstate pipelines. After working for several years, he received a Master of Business Administration. He also worked as a project engineer and project manager for the International Boundary & Water Commission, an agency of the U.S. State Department. During the years of industry diversification, he led EH&S organizations supporting chemical plants, refineries, power plants and coal mines. Mr. Hutchins has been active in the industry serving in leadership positions with the Interstate Natural Gas Association of America's EH&S Committee, Southern Gas Association's Environmental Committee and American Gas Association's Safety & Health Committee, Environmental Matters Committee and Environmental Regulatory Action Committee. He is Kinder Morgan's board member on the INGAA Foundation, the past chair of the INGAA Foundation and a Registered Professional Engineer in the State of Texas.

4. Distribution (10 min)

**Greg Jones – Director, Climate & Environmental Policy
Southern Company Gas**



Greg Jones is Director, Climate & Environmental Policy at Southern Company Gas. In this role, he leads the company's greenhouse gas emission initiatives and directs the company's participation in environmental rulemaking, legislation and policy initiatives. Previously Southern Company Gas' manager of Environmental Affairs, Jones has decades of experience engaging with energy industry leaders to develop collaborative positions on rulemaking and legislation at the state and federal level. After serving in environmental compliance roles for other companies, Jones joined the company in 2009 as a senior

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environmental specialist, supporting sustainability programs, policies and procedures.

He earned a Bachelor of Science degree in Environmental Science from the University of Georgia. He serves as chair of the American Gas Association's (AGA) Environmental Regulatory Action Committee, vice chair of the Georgia Industrial Environmental Coalition (GIEC), and was a past chair of the Institute for Georgia Environmental Leadership (IGEL).

Lizzy Reinholt – Senior Director of Sustainability & Corporate Affairs Summit Utilities



Lizzy Reinholt currently works as Senior Director of Sustainability & Corporate Affairs at Summit Utilities where she oversees the development and implementation of the company's long-term sustainability vision along with community and public relations, government affairs and corporate communications. In addition, she sits on the board of ONE Future, a coalition of natural gas companies working together to voluntarily reduce methane emissions across the natural gas supply chain. Prior to joining Summit, Lizzy spent much of her career working on various political campaigns and worked as a senior project manager at the Bernstein Shur Group working with a variety of environmental, energy and social justice companies and organizations.

- **Q&A**

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Andris Piebalgs – Professor at the Florence School of Regulation, European University Institute, & Former EU Commissioner for Energy



Andris Piebalgs is a Professor at the Florence School of Regulation in the European University Institute. His work now focuses on the decarbonisation challenges in the energy sector. He is the Chairman of the Board of Appeal of ACER. Before coming to FSR Andris Piebalgs was EU Commissioner for Energy and EU Commissioner for Development at the European Commission. He is a key figure in the formation of the EU's renewable energy and energy efficiency policies and made a crucial impact in the creation of the European energy market. He has been a prominent Latvian politician and diplomat, and was instrumental in Latvia's accession to the EU.

**Anatol Feygin – Executive Vice President and Chief Commercial Officer
Cheniere**



Francisco de la Flor, GIE & MARCOGAZ Board Member, Enagás, Director



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