2nd Dundee Energy Forum
Evolving Global Energy and Resources Landscape: Law, Policy and Economics

Programme: 25th & 26th June 2018

Sponsored by:

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DAY 1 - 25th June 2018 - Dalhousie Building Lecture Theatre 4

09:00-09:30  Registration

09:30-09:40  Welcome: Peter Cameron, Director, CEPMLP, Professor of International Energy Law and Policy

09:40-11:00  Session 1: Energy Outlooks

The conference will start with a session of outlooks from BP, the IEF and the World Bank. How will the energy mix evolve over next 20-30 years? How will technology change the patterns of energy production and consumption? What is the role of non-energy minerals in the energy-transition? The introductory session will articulate these questions and explore their assumptions and methodologies.

Moderator: Shawn Mu

- Comparison of Outlooks and future policies - Xiansheng Sun, Secretary General, International Energy Forum; CEPMLP alumnus and Honorary Professor
- BP Energy Outlook - William Zimmern, Head of Global Macroeconomics, BP Plc
- The transition to renewable energy - impact on mineral markets and producing countries - Sven Renner, EGPS Program Manager, World Bank

11:00-11:20  Refreshments


Energy markets have been changing rapidly on a global level. Drivers of change are the transition to sustainable energy system and the emergence of non-conventional fossil sources. In addition, the Trump Administration in the US, the emerging global energy policy of the EU and changing geopolitical situations are redefining energy directions, layering additional change over ongoing technological and market changes. This session analyses the dynamics of the changes.

Moderator: Xiansheng Sun

- Geopolitics and the current energy transition - Paul Stevens, Distinguished Fellow, Chatham House; Professor Emeritus of CEPMLP
- Jason Bordoff, Center on Global Energy Policy, Columbia University
- Energy in the EU’s External Trade Policy - Frank Hoffmeister, Head of Unit, DG Trade, European Commission

13:10-14:00  Lunch

14:00-15:50  Session 3: Energy Investment Trends, Challenges and Impacts

Global energy markets require investment. This session explores medium to longer term trends, the enabling and constraining factors, and government policies for the large-scale investment in sustainable and secure energy sector.

Moderator: Peter Cameron

- Trends in Oil & Gas Investment - Robert Plummer, Vice President - Institutional Investor Service, Wood Mackenzie
- Political Factors in the Middle East affecting energy investment - Sir William Patey, Former ambassador to Afghanistan, Iraq, Saudi Arabia, and Sudan
- Taxing Shale Gas Investment: Correction, Control or Concessions? - Philip Daniel, CEPMLP Honorary Professor and Chair of the Advisory Board, Oxcarre, University of Oxford
- Stephan Hobe, University of Cologne, ECSL European Centre for Space Law

15:50-16:10  Refreshments
16:10-18:00  **Session 4: Infrastructure for integrating low Carbon Energy Resources**
The transition to a low carbon energy future imposes significant challenges to the infrastructure connecting producers and consumers. This session deals with the political, economic and regulatory framework for enabling, protecting and managing such infrastructure, across borders.

**Moderator: Volker Roeben**

- *Electricity trading and electricity storage* - Richard Green, Professor of Sustainable Energy Business, Head of Department of Management, Imperial College
- Munir Hassan, Partner, Head of Clean Energy, CMS Cameron McKenna Nabarro Olswang LLP
- Christoph Benedict, General Counsel GE Europe
- *Transboundary Energy Infrastructure within the Belt & Road Initiative* - Kong Qingjiang, Dean, China University of Political Science and Law

**DAY 1 - 25th June 2018 - Parallel Session**

**Venue: Dalhousie Room 2G13**

14:00-15:50  **Mining & Minerals for Low Carbon and Sustainable Futures**

**Moderator: Ana Elizabeth Bastida**

While the Energy Outlooks session provided a glimpse into the impact of the shift to renewables on minerals and mining economies, this session will further explore initiatives, strategies and plans on this shift and, more broadly, on the challenges and opportunities raised by the use of new technologies for sustainable futures.

- Tom Butler, President, International Council on Mining and Metals
- Richard Morgan, Head of International and Government Relations, Anglo American
- Sven Renner, EGPS Program Manager, World Bank
DAY 2 - 26th June 2018 - Parallel Sessions

09:00-10:50  Parallel Sessions 1 - 4

Parallel Session 1:  International Law, Energy Trade and Climate Actions
Moderator:   Stephen Dow
Venue:    Dalhousie Lecture Theatre 2

- Market Benchmarks and Government Monopoly: The Case of Natural Resources under Global Subsidies Regulation - Julia Ya Qin, Wayne State University
- International Law and Sustainable Energy Transition: Reflections on Intergovernmental Agreements to Phase out Fossil Fuel Subsidies - Henok Asmelash, Max Planck Institute Luxembourg for Procedural Law
- Stranded nations? The climate policy implications for fossil-fuel rich developing countries - David Manley, Natural Resource Governance Institute
- Winds of Change and the Future of Energy in the United Kingdom - Peter Strachan, Robert Gordon University

Parallel Session 2:  Energy Market Dynamics
Moderator:   Xiaoyi (Shawn) Mu
Venue:    Dalhousie Room 2F11

- World Oil Study: A Global VAR Analysis - Jennifer Considine, King Abdullah Petroleum Studies and Research Center
- The relationship between crude oil prices, oil exploration and crude oil supply - Esti Tri Widyastuti, University of Aberdeen
- Modelling the production rate of international petroleum projects under PSC: the role of rate sensitivity - Fazel Moridifarimani, University of Dundee
- A multifractality-based quantitative measure for financial market efficiency - Statistical inference and an application for the European Union Emissions Trading Scheme - Marc Gronwald, University of Aberdeen

Parallel Session 3:  Alternative and Emerging Sources of Energy Supply
Moderator:   Gokce Mete
Venue:    Dalhousie Room 2F14

- The Emergence of a Deepwater Province in the Southern Caribbean - the case of Guyana, Suriname and Trinidad & Tobago - Kevin Rammarine, former energy minister, Trinidad & Tobago
- Small-scale liquefied natural gas (LNG): unlocking the opportunities for sector coupling and meeting the environmental challenges in energy & transportation - Gokce Mete, University of Dundee
- Energy resources of Indonesia and their application - Scott Younger, President University
- Changing energy options and national security in sub-Saharan Africa - Ibibia Worika, University of Port Harcourt

Parallel Session 4:  Risking Nationalisation of Energy Supply Networks: (International) Law and Economics to the Rescue?
Moderator:   Pieter Bekker
Venue:    Dalhousie Room 2S15

- Ariel Bergmann, CEPMLP
- Ana Stanic, Principal, E&A Law, London
- Csaba Kovacs, Consultant, CMS, London
- Fatima Bello, CEPMLP

10:50-11:10     Refreshments
11:10-13:00  Parallel Sessions 5-8

Parallel Session 5:  Investment Protection and Disputes in the Energy Sector
Moderator:  Volker Roeben
Venue:  Dalhousie Lecture Theatre 2

- **International arbitration in the renewable field: recent developments in Spain** - Iñigo del Guayo, Universidad de Almería
- **Implications of the Achmea judgment of the CJEU for investment arbitration under the Energy Charter Treaty** - Martin Svec, Tel Aviv University
- **Avoiding a Trojan horse in Sensitive Sectors - An Assessment of the EU's proposal for an FDI Screening Mechanism** - Leonie Reins, Tilburg University
- **Role of the Legitimate Expectations Principle in Quest for Stability in International Energy Investments** - Rahmi Kopar, University of Dundee

Parallel Session 6:  Pricing and Integrating Renewables in Electricity Markets: the Law & Economics
Moderator:  Rafael ‘Manny’ Macatangay
Venue:  Dalhousie Room 2F11

- **Optimal Pricing, Subsidies and Solar Panels: a two-sided market approach** - Raul Bajo-Buenestado, University of Navara
- **East Africa Community Electricity Market Integration: The economic welfare** - Geoffrey Mabea, University of Dundee
- **Energy Sector Governance and Cost Reflective Pricing** - Obindah Gershon, Covenant University
- **What we talk about when we talk about low carbon** - Geoff Wood, University of Stirling

Parallel Session 7:  Resource Taxation and Governance
Moderator:  Philip Daniel
Venue:  Dalhousie Room 2F14

- **What can Mining Learn from Oil? A study of special transfer pricing rules in the oil sector, and their potential application to hard rock minerals** - Alexandra Readhead, Intergovernmental Forum on Mining
- **The normative process of transparency in the extractive industry and its impact on resource governance** - Amina Lebdioui, Sonatrach
- **A brief history of time: taxation and mineral production in developing countries** - Balde Mamadou Tanou, University of Clermont-Auvergne
- **The effects of the politics of development for poor mining communities in South Africa** - Anri Heyns, University of Cape Town

Parallel Session 8:  The Just Transition to a Low Carbon Economy
Moderator:  Raphael Heffron
Venue:  Dalhousie Room 2S15

- Jack Sheehan, DFDL ASEAN, Tax Partner
- Xiaoyan Zhou, Sustainable Finance Programme, Smith School of Enterprise and the Environment, University of Oxford
- Darren McCauley, Sustainability Institute, University of St. Andrews
- Shane Grimes, Coventry Business School

13:00-14:00  Lunch

14:00-15:50  Parallel Sessions 9-11

Parallel Session 9:  Energy Sector Regulation, Liberalisation and Market Design
Moderator:  Xiaoyi (Shawn) Mu
Venue:  Dalhousie Lecture Theatre 2

- **Market Design for High Renewables Penetration Electricity Systems** - Michael Pollitt, University of Cambridge
- **Transforming the role of regulation in the era of Energy 4.0** - Penelope Crossley, University of Sydney
- **The UK capacity auction design: an experimental study** - Despina Yiakoumi, University of Aberdeen
- **The impact of liberalisation on the commercial and legal terms of gas imports to the EU** - Johannes P. Willheim, Jones Day Global Disputes and Energy Practice Groups
Parallel Session 10: Oil FDI and NOC-government Relationship
Moderator: Janet Xuanli Liao
Venue: Dalhousie Room 2F11

- Evolution of the Key Drivers behind China's Investments in Africa: The cases of Sudan and Nigeria - Janet Liao, University of Dundee
- Attracting China's FDI for Oil: An Analysis of Host Country Characteristics - Ariel Bergmann, University of Dundee
- Deregulate to regulate: an analysis of the PSC in China - Karolina Wysoczanska, Nottingham University
- Reforming the relationships between governments and national oil companies - John Nikolaou, Claremont McKenna College

Parallel Session 11: Infrastructure and Security of Supply
Moderator: Volker Roeben
Venue: Dalhousie Room 2F14

- Power over Power: Cyber Governance and Critical National Infrastructure - Jakob Haerting, University of Turku
- Bilateralism versus Multilateralism: China-UK Energy Infrastructure Cooperation within a Potential FTA - Cherry Chen, University of Swansea and China University of Political Science and Law
- European gas market: regional developments and perspectives - Natalia Timofte, INCE ASM
- Energy Citizenship - Robin Hill, University of Swansea

15:50-16:10 Refreshments

16:10-17:30 Energy Ministers/Regulators Roundtable
Moderator: Peter Cameron
Venue: Dalhousie Lecture Theatre 2

- Dr Mohammed Amin Adam, Deputy Minister of Energy (Petroleum), Republic of Ghana
- Traicho Traikov, former Minister of Economy and Energy, Bulgaria
- Kevin Ramnarine, former Minister of Energy, Trinidad and Tobago