



Centre for Energy, Petroleum
and Mineral Law and Policy
University of Dundee

Worldwide Energy University Network Webinar

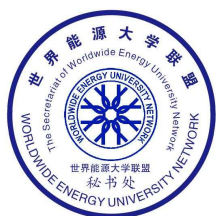
The Economics and Policies of Global Energy Transition



Date: 8th December 2020 21:00-23:20 Beijing Time / 13:00-15:20 GMT

Join zoom meeting: (Meeting ID: 91218338852, Passcode: 176790)
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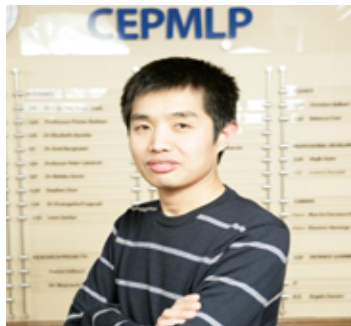
Date: 08 December 2020

Moderator: Dr Xiaoyi (Shawn) Mu

Time (Beijing Time)	Topic
21:00-21:05	Opening remarks -- Wendy Alexander, Vice-Principal (International), University of Dundee
21:05-21:20	From Paris to Glasgow: how will commitments to international climate change agreements shape the energy transition? -- Prof. Volker Roeben, CEPMLP, University of Dundee
21:20-21:35	Paths to Net Zero: A Technology Perspective -- Prof. Martin Freer, University of Birmingham
21:35-21:50	Global Energy Transition: Challenges and opportunities for natural resource rich countries -- Dr. Steven Griffiths, SVP (Research and development), Khalifa University of Science and Technology, United Arab Emirates
21:50-22:00	Q&A
22:00-22:15	Energy Revolution: How Will China Reach Net-zero? -- Prof. Zhang Qi, Deputy Dean, School of Economics and Management, China University of Petroleum-Beijing
22:15-22:30	How Will the Biden Presidency Change the Course of US Energy and Climate Policies? -- Prof. Carol Dahl, Honorary Professor of CEPMLP, Professor Emeritus, Colorado School of Mines
22:30-22:45	Renewables may save a mankind -- Prof. Evgeny Solomin, South Ural University
22:45-23:00	Skills and education towards energy transition -- Prof. Raffaella Ocone, Heriot-Watt University
23:00-23:15	Q&A
23:15-23:20	Closing Remarks



Speaker Biographies



Dr. **Xiaoyi (Shawn) Mu** is a Reader in Energy Economics at the Centre for Energy, Petroleum and Mineral Law and Policy (CEPMLP), University of Dundee. He obtained his Ph.D. in economics from the University of Oklahoma in 2006 and Bachelor's degree in economics from Renmin University of China in 1994. His research interest has focused on commodity pricing and volatility, petroleum economics, electricity economics, economic regulation and energy policy issues in developing countries. He is a main contributor to the ESRC/DFID project (£931,000) "China National Oil Companies and the economic development of Africa oil producers" (2015-2018). His papers have appeared at leading academic journals such as *Journal of Industrial Economics*, *Journal of Commodity Markets*, *Economic Inquiry*, *Energy Journal*, *Energy Economics*, *Energy Policy*, and *Operations Research*.

Dr. Mu has experience in both oil & gas and electricity industries. Before joining CEPMLP in 2008, he was a senior consultant at Global Energy Decisions (now part of ABB), a leading software and consulting firm focusing on electricity markets, from 2006 to 2008. From 1994 to 2001, he worked at China National Petroleum Corporation (CNPC) and PetroChina as an analyst and manager in marketing and natural gas divisions.



Prof. **Volker Roeben** is Professor of Energy Law and Global Regulation at the Centre for Energy, Petroleum and Mineral Law and Policy at the University of Dundee. He is also a professor at the China University of Political Science and Law in Beijing and a docent at the University of Turku. Formerly, Volker was senior research fellow at the Max Planck Institute for Comparative law and Public International Law, and a professor of international law at Swansea University.

He has held visiting or part-time posts at the universities of Chicago, Minnesota and West Virginia, and as legal adviser at the Energy Charter Secretariat. He holds degrees from the universities of Kiel, Heidelberg, and Berkeley and from the College of Europe Bruges. Volker is the author or editor of seven books and forty articles. In 2018, he published *Towards the European Energy Union – European strategy in international law* with Cambridge University Press. He is co-editor of the Hart publication series 'Global Energy Law and Policy'.



Prof. **Martin Freer** is head of Nuclear Physics, and Director of the Birmingham Energy Institute (BEI) at the University of Birmingham.

He is also Director of the Energy Research Accelerator (ERA), which comprises eight internationally-renowned Midlands universities which are part of the Midlands Innovation partnership, together with the British Geological Survey. Martin is former Director of the Birmingham Centre for Nuclear Education and Research, which he established in 2010. He has overseen the development of the BEI, helped establish Energy Capital and has co-led the establishment of the joint University of Birmingham–Fraunhofer Germany research platform.

In 2015 he co-led the BEI Commission “Doing Cold Smarter” chaired by Lord Teverson, and in 2012 he led the Policy Commission “Future of Nuclear Energy in the UK” chaired by Lord Hunt. His main research area is the study of the structure of light nuclei, using nuclear reactions. He received the Friedrich Wilhelm Bessel Prize, Humboldt Foundation, in 2004 and the Rutherford Medal in 2010.



Dr. Steven Griffiths is Senior Vice-President for Research and Development and Professor of Practice at the Khalifa University of Science and Technology, United Arab Emirates. At Khalifa University, his responsibilities include development and implementation of the university’s research strategy, management of the university’s research institutes and centers and management of the departments that are accountable for research partnerships, research services, technology management and innovation, research computing and research laboratories.

Outside of Khalifa University, Dr. Griffiths is advisor to the UAE Research Program for Rain Enhancement Science, and member of a number of other committees, both within and outside UAE. He advised the government of Alberta, Canada on provincial innovation system structuring throughout 2014 and continues to support the global advancement of research and innovation via evaluator and mentor roles in regional and international research and innovation competitions and programs.

Prior to his position at KU, Dr. Griffiths was Vice President for Research and Associate Provost at the Masdar Institute of Science and Technology. Dr. Griffiths transitioned to the Masdar Institute from his role as Executive Director of the Technology and Development Program at the Massachusetts Institute of Technology (MIT), which is a position he undertook while simultaneously serving as the Founding Executive Vice President and Chief Technologist of Light Pharma Incorporated.

Dr. Griffiths holds a PhD in Chemical Engineering from MIT and an MBA from the MIT Sloan School of Management.



Prof. Qi Zhang, Deputy Dean of School of Economics and Management/ Dean of Academy of Chinese Energy Strategy, China University of Petroleum-Beijing

He obtained a bachelor's degree and a master's degree from Tsinghua University, China and a doctor's degree in energy economics from Kyoto University in Japan. His research interests include energy economics and climate policy, energy strategy and policy. In the past five years, Prof. Zhang has published more than 30 SCI/SSCI JCR Q1 top journal papers, and he is the PI of more than 10 scientific research projects such as National Natural Science Foundation of China, Beijing Social Science Fund. Prof. Zhang won more than eight scientific research awards, including the first prize of national energy and soft science research outstanding achievements and the third prize of excellent scientific research achievements of colleges and universities of the Ministry of education. He won the innovation talent award of Chinese Think-Tank, and the Academy of Chinese Energy Strategy was selected into "China's core think tank" (University A) led by Prof. Zhang.



Prof. Carol A. Dahl, is an honorary professor at CEPMLP, a Senior Fellow in the Payne Institute of Earth Resources and Professor Emeritus and Adjunct Professor in the Mineral and Energy Economics Program at the Colorado School of Mines, USA, an annual visiting Professor in the Economics Program, Luleå University of Technology, and an Adjunct Professor at the Academy of China Energy Strategy, China University of Petroleum-Beijing. She received a PhD (Economics) from the University of Minnesota having studied under Christopher Sims, 2010 Nobel Laureate in Economics. She has published widely in peer reviewed energy journals, regularly presents her work at international conferences and does short courses and research focusing on modelling and policy in international energy markets.

She is a co-author on the "Second most cited paper published in Energy Economics from 1979-2005", and the "Sixth most cited paper in Energy Economics, Energy Journal, Energy Policy, and Resources and Energy Economics". Her book *International Energy Markets: Understanding Prices, Profits and Policies* is a Pennwell Press best seller and has been translated into Croatian and Chinese. with a second edition published in July of 2015. She has been a visiting scholar to numerous universities and organizations worldwide and is very active in the International Association for Energy Economics. She received their Outstanding Contributions to the Profession Award for her contributions to the field of Energy Economics in 2013. For more on her accomplishments see <http://dahl.mines.edu/dahl-cv.pdf>.



Prof. **Evgeny Solomin** obtained his first degree in Mechanical Engineering from the Budapest Technical University, Hungary. His first PhD in Electric Engineering from South Ural State University (2009), Russia, and second PhD in Renewable Energy from Altai Technical State University, Russia (2013). He is a Director General of “Uralmet” Scientific Research Institute, Director of “Alternative Energy” International Innovation Center and Full Professor at South Ural State University (Russia). He is also an Expert and Consultant of several Organizations (main: Federal Expert of Russian Federation, Moscow (RF), Engineering Panel, Horizon-2020 Program, Brussels, Belgium (EU); Lawrence Berkeley National Lab, Berkeley, CA (USA); etc.).

Evgeny is the Head of the “Alternative Energy” International research group focusing on the design, development and commercializing of the Renewable Energy Sources (RES) based Power Plants. Evgeny has worked with a number of highly recognized international Institutions such as the Lawrence Berkeley National Lab, Wayne State University, Aristotle University of Thessaloniki, University of Padova. Evgeny’s main area of research is in the field of Renewable Energy, in particular Wind Power, focusing on the design and development of the new and unique components and hybrid Power Plants configurations as well as the sociological and economical evaluation of renewable energy potentials. He is leading in the World design and development of Vertical Axis Wind Turbines and Power Plants based on RES, a field where he has contributed 200+ publications, 40+ patents and a number of technological know-hows.



Prof. **Raffaella Ocone** obtained her first degree in Chemical Engineering from the Università di Napoli, Italy and her MA and PhD in Chemical Engineering from Princeton University, USA. She holds the Chair of Chemical Engineering in the School of Engineering and Physical Sciences at Heriot-Watt University (HWU) since 1999. She is a Fellow of the Royal Academy of Engineering (RAEng), the Royal Society of Edinburgh (RSE), the Institution of Chemical Engineers (IChemE), and the Royal Society of Chemistry. In 2007 she was appointed Cavaliere (Knight) of the Order of the Star of Italian Solidarity by the President of the Italian Republic. In The Queen’s 2019 New Year Honours she was appointed Officer of the British Empire (OBE) for services to engineering. Raffaella was named as one of the top 100 Most Influential Women in the Engineering Sector in 2019 in the list produced by board appointments firm Inclusive Boards in partnership with the *Financial Times*.

Founded in 1977, CEPMLP has been a leading institution for research and postgraduate teaching the field of energy and natural resources law, economics and policy. It offers master's programmes in energy law, energy economics and management, sustainability, and has a large PhD programme. It has been consistently ranked the best place to study energy law and policy by the *LLM Guide*. More than 6000 students have had studied at CEPMLP over the past 43 years, most of whom are international. CEPMLP has collaborative relationships with the International Energy Agency, International Energy Forum, the Energy Charter Treaty and OPEC.

Since its establishment, the WEUN has completed the revision of its Constitution, published its logo, established the General Assembly and the Secretariat, and staffed WEUN Offices in both Beijing and Karamay Campus of China University of Petroleum-Beijing (CUP). In 2019 the WEUN successfully held two summer schools for students from member universities, launched its website in Chinese and English, and published 7 reports on WEUN work. In 2019, 14 member universities received delegations from CUP, while 17 groups of 62 persons from member universities visited CUP. These visits led to more than 400 academics teaching and research cooperation and more than 60 undergraduate exchanges between CUP and other member universities. In May 2020, the WEUN accepted three new members: the University of Tulsa from USA, the Industrial University of Tyumen from Russia and the Instituto Superior Técnico from Portugal. The WEUN now has 31 member universities. On July 22 2020, the WEUN together with CUP, the University of Birmingham and the University of Tulsa held the first webinar on "Energy Education and Research – Short and Long Term Strategy", which was well attended by nearly 200 participants including university leaders, experts and scholars from 14 countries.



- You can register your free place online at <https://jinshuju.net/f/l57sb7>
- The webinar will take place on Zoom (Meeting ID: 912 1833 8852, Passcode: 176790) <https://zoom.com.cn/j/91218338852?pwd=NIITYzhZTnhoYIZvQ05xS290WIJBQT09>

