



Energy Studies Institute (ESI)

# CARBON PRICING WORKSHOP 2023

## International Experience of Carbon Pricing – Adoption and Implementation

12 January 2023 (THU), 09:30 – 17:30

Galleria Room

Grand Copthorne Waterfront Level 3



How to achieve both meeting climate targets and maintaining economic competitiveness has been a critical question for governments implementing or considering carbon pricing. Energy Studies Institute (ESI) hosts a deep dive workshop discussing various countries' efforts to raise acceptance and effectiveness of carbon pricing schemes. It will enhance the understanding of dynamic processes and interactions between the government and industries/taxpayers in the adoption and implementation of carbon pricing schemes. This workshop will also provide helpful insights for Singapore's carbon tax, poised on the brink of big changes in its design.

Time	Agenda
09:10 – 09:30	<b>Registration</b>
09:30 – 10:00	<b>Opening Session</b> <b>Welcome Remarks</b> <ul style="list-style-type: none"><li>Assoc Prof LEE Poh Seng (Executive Director, ESI, NUS)</li></ul> <b>Opening Address:</b> <ul style="list-style-type: none"><li>Dr KIM Jeong Won (Senior Research Fellow, ESI, NUS) <i>Introduction to the Research Project</i></li></ul> <b>Taking a Group Photo</b>
10:00 – 11:40	<b>Session 1: Acceptability of Carbon Pricing: Global Experience</b> <b>Moderator:</b> Dr Roger FOUQUET (Senior Research Fellow, ESI, NUS) <b>Presentations</b> <ul style="list-style-type: none"><li>Dr Paul BURKE (Professor, Australian National University) <i>Australia's Experience with Carbon Pricing</i></li><li>Dr Kathryn HARRISON (Professor, University of British Columbia) <i>The Politics of Carbon Taxation: Pathways to Adoption and Survival</i></li><li>Mr Virender Kumar DUGGAL (Principal Climate Change Specialist, Asian Development Bank) <i>Carbon Pricing Experiences and Challenges in Asia</i></li></ul> <b>Discussion and Open Q&amp;A</b>

Time	Agenda
11:40 – 13:00	<b>Networking Lunch</b>
13:00 – 14:40	<b>Session 2: Carbon Tax</b> <b>Moderator:</b> Dr KIM Jeong Won (Senior Research Fellow, ESI, NUS) <b>Presentations</b> <ul style="list-style-type: none"> <li>• Mr Dan DICKINSON (Partner, Grant Thornton UK) <i>The Past, Present and Future of UK Carbon Taxes</i></li> <li>• Dr LEE Soocheol (Professor, Meijo University) <i>Carbon Tax Issues Toward Carbon Neutrality in Japan: Evolution and Future Challenges</i></li> <li>• Mr Jason YE (Director for U.S. Policy and Outreach, Center for Climate and Energy Solutions) <i>Whither U.S. Carbon Pricing</i></li> </ul> <b>Discussion and Open Q&amp;A</b>
14:40 – 15:00	<b>Comfort Break</b>
15:00 – 17:30	<b>Session 3: Emission Trading System</b> <b>Moderator:</b> Dr David BROADSTOCK (Senior Research Fellow, ESI, NUS) <b>Presentations</b> <ul style="list-style-type: none"> <li>• Dr Misato SATO (Assistant Professor, London School of Economics and Political Science) <i>Allocation Allocation Allocation! The Political Economy of the Development of the EU ETS</i></li> <li>• Mr Cooper TAMAYO (Communications Manager, RGGI, Inc.) <i>Overview and History of the Regional Greenhouse Gas Initiative</i></li> <li>• Dr KIM Sungwoo (Head of Environment and Energy Research Institute, Kim &amp; Chang) <i>Evolution of Korean ETS in Climate Policy Context: History, Element, Progress, and Challenge</i></li> <li>• Dr DUAN Maosheng (Director, China Carbon Market Research Center, Tsinghua University) <i>Evolution of ETSs in China: Key Issues and Design Features</i></li> <li>• Mr Matthew COWIE (Climate Change and Sustainability Services Director, EY New Zealand) <i>The NZ ETS: from Kyoto to Paris</i></li> </ul> <b>Discussion and Open Q&amp;A</b>

## SPEAKERS

### **Paul BURKE (Professor, Australian National University)**

Professor Paul Burke is Head of the Arndt-Corden Department of Economics and Deputy Director of the Crawford School of Public Policy, Australian National University (ANU). He is also a project convenor in the Zero-Carbon Energy for the Asia-Pacific Grand Challenge project at ANU. Paul's research is in energy and environmental economics, with a focus on the Asia-Pacific. He has published on topics including carbon pricing efficacy; strategies for adopting carbon pricing; and the information problems that undermine a key alternative approach, abatement subsidies.

### **Matthew COWIE (Climate Change and Sustainability Services Director, EY New Zealand)**

Matthew Cowie is a Director within the Climate Change and Sustainability Services team in Auckland, New Zealand. The focus of his work at EY is on the energy sector and the threats and opportunities presented by climate change. Prior to joining EY, Matthew has worked for both public and private sector organisations and has managed regional and global teams. Matthew has had a particularly strong focus throughout his career on the role of energy and carbon markets. Matthew has a Bachelor's degree in Mechanical Engineering from the University of Canterbury in New Zealand and a Master's of Science in Mechanical Engineering from the Center for Environmental Energy Engineering at the University of Maryland, College Park in the United States.

### **Dan DICKINSON (Partner, Grant Thornton UK)**

Dan Dickinson is an international tax partner in Grant Thornton UK (GTUK). He has 20 years' experience advising UK and overseas multinationals on their cross-border and UK tax affairs, including a 3-year period living in Singapore. Dan's role includes being the tax service line representative on GT UK's ESG steering committee, which includes assisting multinationals with their thinking on energy and carbon taxes globally.

### **DUAN Maosheng (Director, China Carbon Market Research Center, Tsinghua University)**

Professor Duan Maosheng is the director of China Carbon Market Research Center of Tsinghua University. He has been specialized on research related to climate governance, carbon market and carbon tax since 2000. He has been a member of the Chinese climate delegation since 2001, was a member/alternate of the Kyoto Protocol's Joint Implementation Supervisory Committee or of the Clean Development Mechanism Executive Board between 2006 and 2020, and is now an alternate member of the Article 6.4 Supervisory Body of the Paris Agreement. He has been intensively involved in the design of China's domestic carbon market. He has served as a member of various committees including the World Bank's High-Level Commission on Carbon Prices, and is one of the editors of the World Bank/ICAP Handbook on ETS. He was a lead author of the IPCC's Fourth Climate Change Assessment Report. He has published articles on journals such as Science, Ecological Economics, Energy Economics, Energy Policy, Climate Policy, iScience, and Applied Energy.

### **Virender Kumar DUGGAL (Principal Climate Change Specialist, Asian Development Bank)**

Virender Kumar Duggal leads ADB's work to support its developing member countries (DMC) use carbon pricing instruments as part of their broader climate policy architecture to achieve their nationally determined contributions (NDCs) and contribute to meeting the Paris Agreement goals. In this role, he spearheads ADB's trust funds that mobilize carbon finance to incentivize investments in low carbon technologies through bilateral and international carbon markets. He also oversees ADB's work on providing technical and capacity building support to enhance DMCs' ability to develop and take advantage of domestic, bilateral, and international carbon markets, and, where applicable, integrated markets to scale up their efforts in achieving their NDC targets and raising ambition over time.

### **Kathryn HARRISON (Professor, University of British Columbia)**

Dr Kathryn Harrison is a Professor of Political Science at the University of British Columbia. She received Bachelor's and Master's degrees in Chemical Engineering before completing her PhD in Political Science. Before entering academia, Professor Harrison worked in the oil industry and as a policy analyst for both Environment Canada and the United States Congress. She has served as Senior Associate Dean and Acting Dean in the UBC Faculty of Arts. Professor Harrison has published widely on Canadian and US climate policy. She has advised governments from the local to international level, and is currently chair of the Expert Advisory Panel on climate mitigation of the Canadian Climate Institute and co-chair of the technical committee of the British Columbia Climate Solutions Council. Harrison is a frequent media commentator on climate policy, and tweets at @profkharrison.

### **KIM Sungwoo (Head of Environment and Energy Research Institute, Kim & Chang)**

Dr Sungwoo Kim is an environment and energy expert with 28 years of professional experience from consulting, industry, and research organizations in strategy, investment, and policy well aligned with educational background of environment and business. With KPMG consulting experience as Asia Pacific Regional Head of Climate Change and Sustainability in leading regional network of 12 countries followed by POSCO (a global steel maker) industry experience in environment and energy business development and investment, now he leads Environment and Energy Research Institute at Kim & Chang (the biggest law firm in Korea) as a member of the Presidential Commission on Carbon Neutrality and Green Growth and also a columnist of Korea Times. He was an external advisory expert for Green Climate Fund and World Bank, IETA Board Member, and an adjunct professor of Seoul National University and Korea University based on comprehensive experience from corporate to consulting, engineering to financing, public to private, and industry to academy.

### **LEE Soocheol (Professor, Meijo University)**

Dr Soocheol Lee is a Professor of the Faculty of Economics, Meijo University in Japan. He graduated from Seoul National University in Korea and received his PhD at the Graduate School of Kyoto University in Japan. He had worked for the Federation of Korean Industry as a team leader of the Economic Research Department for about 10 years before he came to Japan. He has led the Research Group of East Asia Environmental Policy Studies since 2002 and has written many books and papers on energy and environmental policy design and cooperation for sustainable low-carbon economy in East Asia. He was the former Director of the Society for Environmental Economics and Policy Studies (SEEPS) in Japan. He is currently a Director of the Korea Environmental Economics Association (KEEA) and also a Vice president of the Asian Association of Environmental and Resource Economics (AAERE).

### **Misato SATO (Assistant Professor, London School of Economics and Political Science)**

Dr Misato Sato is based at the London School of Economics and Political Science (LSE) where she is Deputy Director of the ESRC Centre for Climate Change Economics and Policy, and Assistant Professorial Research Fellow in the Grantham Research Institute on Climate Change and the Environment, where she leads the Policy Design & Evaluation Programme. She is a Co-Editor of the Environmental and Resource Economics journal, and a DIW Fellow. Her research explores the barriers to delivering a rapid low carbon transition, particularly for industrial sectors. Much of her work evaluates the effectiveness of climate change and energy policies, for example quantifying their impacts on firms' environmental and economic outcomes using economic evaluation methods.

### **Cooper TAMAYO (Communications Manager, RGGI, Inc.)**

Cooper Tamayo is the communications manager with RGGI, Inc. and manages several program areas in support of the Regional Greenhouse Gas Initiative participating states. These include programs related to equity and environmental justice, outreach and public engagement, and the periodic review and update of the states' CO2 budget trading programs. Prior to joining RGGI, Inc., Cooper developed climate change communication materials for the U.S. National Park Service and worked as a consultant with Kearns & West on strategic communication projects across a variety of environmental sectors, including clean energy, transportation, environmental justice, and groundwater sustainability. He holds a Master of Environmental Science and Management from the Bren School of Environmental Science & Management at the University of California, Santa Barbara, and a B.S. in Environmental Science from Brown University.

### **Jason YE (Director for U.S. Policy and Outreach, Center for Climate and Energy Solutions)**

Jason Ye is Director for U.S. Policy and Outreach at the Center for Climate and Energy Solutions (C2ES), where he works to develop and advance innovative policies and effective strategies to address climate change and energy issues. Mr. Ye is a leading expert on U.S. climate action. He is a prominent author tracking and comparing U.S. carbon pricing proposals, has advised congressional offices on climate and energy-related legislation including carbon pricing legislation, and lead's C2ES in outreach engagements with the Administration and Congress. Mr. Ye is one of the handful of people who have has advised Democrats and Republicans on carbon pricing legislation. Mr. Ye holds a B.A. in political science and history from the University of California, San Diego, and an M.A. in international relations and international economics—concentrating in energy, resources, and the environment—from the Johns Hopkins University School of Advanced International Studies.