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CONFERENCE

Energy Transition in Times of Energy Crisis

2 December 2022, Singapore

This conference brings together relevant scholars and experts from Singapore, China, Japan, South Korea, UK, and Germany to discuss the current hot issues on climate change, energy transition, and impact of Russia-Ukraine War on the global energy landscape. In a bid to mitigate climate change, a global energy transition is underway as economies attempt to transform their energy sectors from a fossil-based one to zero-carbon by the second half of this century in a bid to reduce energy-related CO2 emissions. This is to be achieved through government strategies and policies, as well as the availability of low carbon technologies, and subject to the underlying institutional, political, economic and other factors that promote or constrain progress and the path taken. However, as the world tries to shift to renewable energy, the war in Ukraine may put the energy transition in danger. The energy crisis in Europe has alerted governments worldwide to strengthen their energy security targets. In this conference scholars and experts will address these hot and timely topics.

Topics to be covered include:

- The evolving global energy transition landscape; ▪ Impacts of Russia-Ukraine War; ▪ How the war in Ukraine is turning the German energy system upside down; ▪ Energy transition and energy security in Asia.

When

Friday, 2 December
2022
9:15 am – 12:30 pm

Where

Grand Copthorne
Waterfront Hotel,
Singapore,
Level 4, Canary Room

Admission

Free and open to
public with lunch
provided. Advanced
registration is
required.

Click here to register:

[Link](#)

Enquires

Ms. Jan Lui
Tel: 6516 2000
jan.lui@nus.edu.sg
www.esi.nus.edu.sg

CONFERENCE AGENDA

8:45 am-9:15 am **Registration**

9:15 am-9:30 am **Opening Address**

Professor Lee Poh Seng
Executive Director
Energy Studies Institute
National University of Singapore

9:30 am-10:30 am **Session 1: Energy Transition in Times of Energy Crisis**

Energy transition, global energy sector's shift from fossil-based systems to renewable energy sources was proposed decades ago. However, the fight against climate change remains one of the biggest challenges humanity must face in the 21st century and we all need to be involved in the process of moving toward a decarbonized economy. With this in mind, what is the overall landscape of the energy transition situation across the world? What is the world's energy transitions outlook? In this session, the panelists will provide the key findings from the one-day workshop held the day before the conference. They will talk about the following:

- Global energy dilemma: Tracking the fallout from the Ukraine crisis
- The impact of the war in Ukraine on global energy landscape and the race to climate-neutrality
- Decarbonisation Strategies and The Role of Carbon Capture, Utilization, and Storage (CCUS)

Q&A will take place in Session 2 after the tea break.

Moderator: Yao Lixia

Panel:

Yu Kaho
Malte Küper
Esin Serin

10:30 am-11:00 am **Tea Break**

11:00 am-12:25 pm **Session 2: Panel Discussion and Q&A**

In this panel, participants will further discuss the issues raised in the previous session. Additionally, they will shed light on energy transition and decarbonisation policies of several Northeast Asian and Southeast Asian countries, including China, Japan, South Korea, Indonesia, and so on. The speakers will cover the status, the challenges as well as the problems these countries are facing. Further, they will also take questions from the audience, including the questions audience may have from the talk in the first session.

Moderator: Wu Kang

Panel:

Esin Serin,
Malte Küper
Yu Kaho
Shi Xunpeng
Keiichi Ishihara
Pil Seok Kwon
Mary Ann Quirapas-Franco

12:25 pm-12:30 pm **Closing Remarks**

Yao Lixia

12:30 pm **End of Conference**

Contact Person

Dr. Yao Lixia
Energy Studies Institute, NUS
esiyaol@nus.edu.sg

PARTICIPANTS

ISHIHARA Keiichi, PhD

Chairperson of the Department of Socio-Environmental Energy Science,

the Graduate School of Energy Science, Kyoto University, Japan

Dr. Keiich N. Ishihara graduated from the Department of Metal Science and Technology, Faculty of Engineering, Kyoto University, and received Ph.D. in metastable materials. After moving to the Graduate School of Energy Science, he started working on energy system analysis and planning. He led a team of zero-emission scenarios from 2008 to 2013 and published the world zero-emission scenarios. Since then, he has studied the development of new materials for energy and environments. He has also been engaged as the dean of the Graduate School of Energy Science between 2017 and 2021. Currently, he is the Chairperson of the Department of Socio-Environmental Energy Science at the Graduate School of Energy Science, Kyoto University.

Malte KÜPER

Researcher for Energy,

German Economic Institute Cologne, Germany

Mr. Malte Küper, born 1992 in Hamm, Germany, is a Researcher for Energy at the German Economic Institute Cologne (IW). Mr. Küper studied energy engineering at the Technical University of Cologne and the University of Victoria, Canada. Since 2020 he's working at the German Economic Institute in the thematic cluster Digitalisation and Climate Action. Mr. Küper's research focuses on the decarbonization of the energy-intensive industry, green hydrogen and German and European gas and electricity markets. Mr. Küper is a member of the stakeholder dialog on hydrogen imports of the German National Academy of Science and Engineering.

The German Economic Institute is a private, non-commercial research institute. It is supported by employers' associations, business associations and companies. The IW's work is characterized by a close link between scientific analysis based on sound theoretical knowledge, empirically supported research and target-group-oriented public relations work. Clients and project partners include federal and state ministries, the European Union, foundations, business organizations and companies. The thematic cluster Digitalisation and Climate Action is a special unit within the Institute. With the German economy undergoing a comprehensive transformation process, the cluster examines how companies operate in a market environment that is evolving in line with these structural changes.

KWON Pil Seok, PhD**Director,****Green Energy Strategy Institute, South Korea**

Pil Seok Kwon is currently working as Director of GESI since 2019. He joined GESI in 2017. His research interest is energy system modeling and future scenario analysis. He mainly focuses on a large-scale integration of variable, renewable energy resources in electric grid in the future. Through the energy system modelling, he conducts renewable energy focused future scenarios in municipality and national level and economic feasibility study for various energy projects. He has received his Ph.D degree in Energy Planning at Aalborg University in 2014. He holds a master's degree in Sustainable Energy in DTU.

Mary Ann QUIRAPAS-FRANCO, PhD**Senior Consultant,****Aquatera Asia, Singapore**

Dr. Mary Ann Joy Q. Franco is a Senior Consultant (Policy and Planning Manager) at Aquatera Asia. Her academic research includes energy security, renewable energy technology development in Southeast Asia, and science, technology, and society (STS) studies. She previously worked as a Research Fellow and a Programme Lead of the International Security Supply team at the National University of Singapore (NUS) Energy Studies Institute. She was also the Lead Coordinator of two major programmes: Southeast Asian Collaboration for Ocean Renewable Energy (SEAcORE) and the Joint PhD-Industry Programme at the Energy Research Institute at Nanyang Technological University (ERI@N). SEAcORE has been the official technical working group on offshore and marine RE in Southeast Asia under the ASEAN Centre for Energy. She has also been involved in different energy-related RD&D projects funded by international universities and government agencies across Southeast Asia. Her findings have been published in top-ranked academic journals. She completed her MSc in Asian Studies from the S. Rajaratnam School of International Studies, NTU and her PhD in Political Science from the National University of Singapore.

Esin SERIN**Policy Analyst,****Grantham Research Institute, London School of Economics and Political Science, UK**

Esin Serin is a Policy Analyst working on decarbonisation policies for the UK with a special focus on sustainable growth at the Grantham Research Institute on Climate Change and the Environment based at the London School of Economics and Political Science. Esin has led and contributed to research and analysis on policies for delivering a number of technologies required to decarbonise hard-to-abate sectors, including carbon capture, usage and storage and greenhouse gas removals. Prior to joining the Grantham Research Institute, Esin spent over two years at the Energy Institute as an Energy Analyst to produce timely insights for a range of audiences across the energy system in the UK and around the world. Esin holds a MSc in Sustainable Energy Futures, with distinction, from Imperial College London where she carried out extensive research on policies for promoting bioenergy in UK agriculture, and a BSc in Management Science from University College London.

SHI Xunpeng, PhD**Professor of Energy and Environmental Economics and Sustainability and Research Principal,****Australia-China Relations Institute, University of Technology Sydney, Australia**

Shi is Professor of Energy and Environmental Economics and Sustainability and Research Principal at the Australia-China Relations Institute, University of Technology Sydney, President of the International Society for Energy Transition Studies (ISETS), and a Council Member (President, 2016-2018) of the Chinese Economics Society Australia (CESA). His research interests cover the full spectrum of energy, climate change and other environmental issues in economics, policy, and sustainable development, with regional focuses on Australia, China, ASEAN, and Northeast Asia. He was listed as 2020 Australia's leading researcher in the field of Environmental Law and Policy, and top 2% of the world's top scientists in the energy field. He serves as a Specialty Chief Editor of Frontiers in Environmental Economics, a co-Editor of Journal of the Asia Pacific Economy (SSCI), an associate editor of China and World Economy (SSCI), Journal of Environmental Economics (in Chinese), and other editorial roles for more than 10 journals. He is an advisor to Global Gas Center (GGC), APEC Sustainable Energy Center (APSEC), and UN ESCAP and is frequently participating in the United Nations and other international policy debates. He received LLM from the University of Dundee, MERE and PhD in Economics from the Australian National University.

WU Kang, PhD**Head of Commodity Insights Leadership Team,****S&P Global, Singapore**

Kang has decades of energy analytics, consulting, and research experience. He conducts studies of energy policies, security, demand, supply, and trade with special emphases on oil, gas and other energy commodities. Currently based in Singapore, Kang is in the S&P Global Commodity Insights Leadership Team and heads a team of global macro, demand and Asia analysts. Prior to that, he was a director and senior research fellow at King Abdullah Petroleum Studies and Research Center (KAPSARC) in Riyadh, Saudi Arabia, in charge of a program for doing research on global oil, gas and coal markets with a particular focus on the Middle East and North Africa. Kang previously held vice chairman, managing director, senior fellow and senior advisor roles in energy research and consulting, including over 20 years at the East-West Center, an institution established by the US Congress, and covered a variety of issues related economic, energy and environmental developments in Asia Pacific, Middle East and Latin American. Kang holds a Ph.D. and an M.A. in economics from the US. For further information, please contact Kang at kang.wu@spglobal.com.

YAO Lixia, PhD**Senior Research Fellow, Energy Studies Institute, National University of Singapore, Singapore**

Dr. Yao Lixia joined ESI in October 2013. She did her PhD at the S. Rajaratnam School of International Studies, Nanyang Technological University in Singapore. She has a Bachelor's degree from Dalian Maritime University, China, and a Master's degree from Vrije Universiteit Brussel in Belgium. She has done research on the quantitative measurement of energy security, the impacts of China's macroeconomic reforms on its energy sector, and the energy security and energy policies of Southeast Asia. She has been leading a research project on decarbonization strategies of several key economies across the world. Her current research covers China's Belt and Road Initiative, China's energy transition, and decarbonization in Southeast Asia and Northeast Asia.

YU Kaho, PhD**Head of Energy and Resources,****Verisk Maplecroft, UK**

Dr. Kaho Yu is the Head of Energy and Resources at Verisk Maplecroft. He is an energy and climate policy specialist with over 10 years of research experience working in think tanks, the private sector, and academia across China, the US and Asia Pacific. In addition, Kaho is Maplecroft's Lead China Analyst, providing advice to multinational companies on China's economy, policy trends, ESG landscape and geopolitical risks.

Prior to Verisk Maplecroft, Kaho was an associate of the Energy Geopolitics Program at Harvard Kennedy School and a lecturer in global studies at Chinese University of Hong Kong. He also holds affiliated research positions at the London Asia-Pacific Centre for Social Science at King's College London, and the Center for International Energy Security Studies at the Chinese Academy of Social Science (Graduate School).

Kaho holds a PhD in International Political Economy from King's College London. He has published research extensively on China's energy security, climate policy and the Belt and Road in peer-reviewed journals and books. His upcoming book is China's Energy Security in the 21st Century: The Role of Global Governance and Climate Change.