



The 5th Asian Energy Modelling Workshop

Achieving a Sustainable 2050: Insights from Energy System Modelling

**10-11 September 2018
Park Avenue Rochester Hotel
Scorpio & Taurus Room, level 2
31 Rochester Drive
Singapore 138637**

Please send us your name, organization and email address via the ESI website [here](#).
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Synopsis

Creating development strategies for Asia and beyond till 2050 requires careful studies that deal with the dynamic environment where heterogeneous agents operate. It involves a wide range of policies from areas such as energy, environment, technology, innovation and public finance. Interactions among economic, energy and other environmental aspects grow strongly, which makes the pursuit of a comprehensive sustainable development strategy increasingly complex for policymakers. The systematic perspective derived from economy-energy-environment interactions seems well-suited to deal with the aforementioned challenges.

This workshop slated for September 2018 will focus on efforts to achieve a sustainable 2050. It will be a two-day event that broadly covers INDC and 2050 targets, carbon markets, energy-water-waste nexus, and others. The workshop will focus on a wide range of energy system models, such as bottom-up technology rich model, top-down macroeconomic model, sector specific model, integrated assessment model, agent-based model, climate impact model and decision making model. The target audiences include students, scholars, policy experts, business strategists as well as those who are interested in energy modelling

Workshop Program

September 10, 2018 (Monday)

Time	Speaker	Topic / Title
09:20 – 09:30	Prof. Ang Beng Wah, Executive Director of Energy Studies Institute (ESI), National University of Singapore (NUS)	Welcome address
<i>Session 1: INDC & 2050 Sustainable Targets (I)</i>		
09:30 – 10:10	Dr. Edward Byers, International Institute for Applied Systems Analysis (IIASA), Austria	Global climate and development hotspots assessment: Asia under pressure
10:10 – 10:50	Prof. Qiaomei Liang, Beijing Institute of Technology, China	An integrated assessment of INDCs under Shared Socioeconomic Pathways: an implementation of C3IAM
10:50 – 11:10	Coffee break	
11:10 – 11:50	Dr. Anna Krook-Riekkola, Luleå University of Technology, Sweden	Modelling ambitious climate targets and long-term strategies for Sweden – which are the challenges?
11:50 – 12:30	Dr. Martin Cames, Institute for Applied Ecology, Germany	International aviation's contribution to global GHG mitigation efforts
12:30 – 14:00	Lunch break	
<i>Session 2: INDC & 2050 Sustainable Targets (II)</i>		
14:00 – 14:40	Prof. David Stern, Australian National University, Australia	How big is the economy-wide rebound effect?
14:40 – 15:20	Dr. Fei Teng, Tsinghua University, China	Strengthen the Non-CO2 greenhouse gas reduction in China's NDC and LEDS
15:20 – 15:40	Coffee break	
15:40 – 16:20	Dr. François Lafond, University of Oxford, UK	Time series forecasting of technological progress in renewable energy technologies
16:20 – 17:00	Dr. Jooyoung Park, Korea University, South Korea	Resource-based paradigm and approaches for a circular economy

September 11, 2018 (Tuesday)

Time	Speaker	Topic / Title
Session 3: Carbon Market and Climate Change		
09:30 – 10:10	Prof. Maosheng Duan, Tsinghua University, China	The influence of different allowance allocation methods on China's economic and sectoral development
10:10 – 10:50	Prof. Toshihide Arimura, Waseda University, Japan	Carbon Pricing in Japan: Experiences of Tokyo ETS and the future prospects
10:50 – 11:10	Coffee break	
11:10 – 11:50	Dr. Young-Hwan Ahn, Korea Energy Economics Institute (KEEI), South Korea	Status of the Carbon Market and Prospects of CO2 Abatement Costs in South Korea
11:50 – 12:30	Dr. Xin Zhou, The Institute for Global Environmental Strategies (IGES), Japan	Introduction of the Integrated Green Economy Modelling Framework and its application to modelling a carbon tax in Mexico
12:30 – 14:00	Lunch break	
Session 4: IEA-ETSAP Tools & Applications		
14:00 – 14:40	Mr. Maurizio Gargiulo, E4SMA s.r.l., Italy	IEA-ETSAP technology collaboration programme: community, tools and application examples
14:40 – 15:20	Dr. Luck Reedman, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	Considerations in developing a TIMES model for Australia
15:20 – 15:40	Coffee break	
15:40 – 16:20	Dr. Kannan Ramachandran, Paul Scherrer Institute (PSI), Switzerland	Incorporating detailed technology data in bottom-up energy systems models: Insights from Swiss and international studies
16:20 – 16:30	Concluding Remarks by Dr. Su Bin, Senior Research Fellow and Deputy Head, ESI, NUS	

* The next IEA-ETSAP VEDA-TIEMS Training workshop will be held in ESI Conference Room, 29 Heng Mui Keng Terrace, Block A#10-01, Singapore on 12-14 September 2018. The registration form and detailed agenda of IEA-ETSAP training workshop are available at: <https://iea-etsap.org/index.php/training-singapore> (registration fee applies and will be charged by IEA-ETSAP).