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.
For enquiries, please contact Ms. Jan Lui at 6516 2000.

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
***Session 1**: INDC & 2050 Sustainable Targets (I)*		
09:30 – 10:10	Dr. Edward Byers, International Institute for Applied Systems Analysis (IIASA), Austria	Global vulnerability hotspots assessment and integrated assessment models
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	Analysis of ambitious Sweden's long-term climate strategies using integrated model(s) – insights from the linking
11:50 – 12:30	Dr. Martin Cames, Institute for Applied Ecology, Germany	Modelling and scenario analysis of aviation and climate change
12:30 – 14:00	Lunch break	
***Session 2**: INDC & 2050 Sustainable Targets (II)*		
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	Exploring non-CO2 mitigation potential in China
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	Modelling analysis of carbon market in China
10:10 – 10:50	Prof. Toshihide Arimura, Waseda University, Japan	Modelling analysis of carbon market in Japan
10:50 – 11:10	Coffee break	
11:10 – 11:50	Dr. Young-Hwan Ahn, Korea Energy Economics Institute (KEEI), South Korea	Korean case on emissions trading systems and energy modelling
11:50 – 12:30	Dr. Xin Zhou, The Institute for Global Environmental Strategies (IGES), Japan	Integrated green economy modelling framework & SDG interlinking tools
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. Luke 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 – 17:00	*Speaker to be confirmed*	
17:00 – 17:10	Concluding Remarks by Dr. Su Bin, Senior Research Fellow and Deputy Head, ESI, NUS	

*This preliminary program is subject to change.

** 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 119620 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).