The 28th AIM International Workshop

National Institute for Environmental Studies (Online) September 13 and 14, 2022

DAY 1: September 13, 2022

12:30 of JST	Open Zoom Account and Registration
13:00-14:20	Session 1: Opening
	Chairperson: Dr. Toshihiko Masui (NIES)
13:00-13:05	Opening Remarks Ms. Kotoe Kuroda (MOEJ)
13:05-13:10	Photo session
13:10-13:20	Activities in FY 2021-2022 Dr. Toshihiko Masui (NIES)
13:20-13:40	Keynote speech (1): United States Emissions Pathways to 2050 Net Zero Dr. James Edmonds (PNNL)
13:40-14:00	Keynote speech (2): Sustainable Development and Mitigation of Climate Change: IPCC (AR6) and India's Energy System Transformation to Net Zero Prof. Priyadarshi Shukla (Ahmedabad Univ.)
14:00-14:20	Keynote speech (3): 30 years of AIM -Backbone of Japanese Science-based Climate Policy Dr. Shuzo Nishioka (IGES)
14:20-14:50	Break
14:50-16:10	Session 2: GHG Mitigation and AIM in Asia (1)
	Chairperson: Dr. Yuko Kanamori (NIES)
14:50-15:05	Net Zero Emissions 2050 Thailand Prof. Bundit Limmeechokchai (SIIT-TU)
15:05-15:20	Roadmap to Indonesia Energy Sector NZE
	Prof. Rizaldi Boer (IPB),
	Prof. Retno Gumilang Dewi and Prof. Ucok WR. Siagian (ITB)
15:20-15:35	The National Strategy on Climate Change for 2050 of Vietnam: Introduction and AIM Models Contributions
	Dr. Tung Lam Nguyen (VNPI)
15:35-15:50	China's Energy and Economy Transition with the Multiple Objectives Prof. Xiulian Hu and Prof. Kejun Jiang (ERI)

15:50-16:05	Long Term Strategies towards Net Zero for India Prof. Amit Garg (IIMA)
16:05-16:15	Discussion
16:15-16:35	Break
16:35-18:00	Session 3: GHG Mitigation and AIM in Asia (2)
	Chairperson: Dr. Tatsuya Hanaoka (NIES, Japan)
16:35-16:50	Transitioning Towards Water Sensitive Cities and its Co-Benefits for Energy Conservation Prof. Manmohan Kapshe (MANIT)
16:50-17:05	Local Mitigation Planning and Actions for Malaysian Cities Prof. Chin Siong Ho (UTM)
17:05-17:20	The Impact of Demographic Structural Changes on CO2 Emission: Case of Korea Prof. Tae Yong Jung (Yonsei Univ.), Dr. Yong-Gun Kim and Dr. Jongwoo Moon (KEI)
17:20-17:35	Achieving Net Zero CO2 Emissions in Nepal: The Role of Clean Energy Options Prof. Ram Manohar Shrestha (IIDS), Dr. Bijay Bahadur Pradhan and Prof. Bundit Limmechokchai (SIIT-TU)
17:35-17:50	The effects of transition to green energy: Implications from Taiwan Dr. Yi-Hua Wu (ITRI)
17:50-18:00	Discussion
18:00	Adjourn

DAY2: September 14, 2022

12:30 of JST	Open Zoom Account and Registration
13:00-15:00	Session 4: Climate Impact, Adaptation, and Sustainability
	Chairperson: Dr. Kiyoshi Takahashi (NIES)
13:00-13:15	Nutrient Availability in CGE Models Dr. Ronald Sands (USDA)
13:15-13:30	Extreme Climate Events Increase Risk of Global Food Insecurity and Adaptation Needs Dr. Tomoko Hasegawa (Ritsumeikan Univ.)
13:30-13:45	Biodiversity Implications of Large-scale Bioenergy and Afforestation Implementation Dr. Akiko Hirata (FFPRI)
13:45-14:00	Environmental and Health Co-benefits of Replacing Ruminant Meat with Forage Fish Dr. Shujuan Xia (NIES)
14:00-14:15	Development of an Earth System Model with Human Water Management, Crop Growth, and Land Use Change: MIROC-INTEG-ES Dr. Tokuta Yokohata (NIES)
14:15-14:30	Securing Climate Resilience in Urban Space Using Technology Assessments and Decision-making Support System Dr. Hui Cheul Jung (KEI) and Prof. Dong Kun Lee (SNU)
14:30-14:45	Delineating Future Climate Change Impacts for Cross-scale Adaptation Strategies: A Case Study of Japan Dr. Fei Liu and Dr. Yoshifumi Masago (NIES)
14:45-15:00	Discussion Discussion
15:00-16:00	Break
16:00-17:50	Session 5: From Research to Actions towards Net-zero Society
	Chairpersons: Dr. Toshihiko Masui (NIES) and Dr. Rahul Pandey (IGSA Lab.)
16:00-16:05	Objective of This Session and New Research Project Dr. Toshihiko Masui (NIES)
16:05-16:30	Local Decarbonization Dr. Shuichi Ashina and Dr. Kei Gomi (NIES)
16:30-16:55	National Decarbonization in Asia Dr. Toshihiko Masui, Dr. Shuichi Ashina, Dr. Kazuaki Tsuchiya, Dr. Marissa Malahayati (NIES), Prof. Tomoko Hasegawa (Ritsumeikan Univ.) and Prof. Runsen Zhang (Univ. of Tokyo)
16:55-17:20	SLCFs and Decarbonization in Asia: Activities among UNEP/CCAC & Other Programs Dr. Tatsuya Hanaoka (NIES) and Prof. Kejun Jiang (ERI)

17:20-17:50 Global Study

Dr. Kiyoshi Takahashi (NIES)

17:50-18:00	Session 6: Closing
	Chairpersons: Dr. Toshihiko Masui (NIES) and Dr. Rahul Pandey (IGSA Lab.)
17:50-17:55	Poster Award Ceremony Dr. Junya Takakura (NIES)
17:55-18:00	Closing Remarks Dr. Mikiko Kainuma (IGES and NIES)
18:00	Adjourn

Poster session: Please access the BOX to view posters, and vote for the best poster.

Please send us your comments on the comment sheet.

(1) Impact of Decarbonization Pathways on Mercury Emissions: Indian Power Sector

Dr. Saritha Vishwanathan (NIES)

(2) Prediction of the Impact of Climate Change on the Heatstroke Incidence in Japan with the Long-term Effect of Heat-adaptation

Dr. Kazutaka Oka (NIES)

(3) Analysis on Pathways toward Carbon Neutrality in Vietnam using AIM/Enduse

Mr. Takaharu Ota (MHRT)

(4) Emission Pathways towards Carbon Neutrality and Alternative Fuels Use in Asian Region

Ms. Yurie Goto (MHRT)

(5) Source Attributions of Radiative Forcing by Regions, Sectors, and Climate Forcers

Dr. Xuanming Su (NIES)

- (6) Explaining Regional Differences in Japan's Residential Energy Demand: Grouped Regressor Effect Approach
 Dr. Keita Honjo (Center for Environmental Science in Saitama)
- (7) Prediction of Range Expansion and Estimation of Dispersal Routes of Water Deer (Hydropotes Inermis) in the Transboundary Region between China, the Russian Far East and the Korean Peninsula

Prof. Yongwon Mo (Yeungnam Univ.,)

(8) Analysis of CO2 Emission Reduction Scenario in the Municipal Scale Focusing on Biomass Energy: A case of Maniwa, Okayama, Japan

Dr. Hiroto Shiraki (The Univ. of Shiga Pref.)

(9) Vietnam towards a Net Zero Emission Scenario

Dr. Thai Hoa Nguyen (IGES)

(10) GHG Mitigation in China's Agriculture Sector

Mr. Yizhi Deng (Shanghai Jiao Tong Univ.)

(11) Global Land-use and Sustainability Implications of Bioenergy Supply under China's 2060 Carbon Neutrality Target

Ms. Yazhen Wu (Peking Univ.)

(12) Technical Energy Potentials of Solar PV and Onshore Wind in Asia-Pacific Regions

Dr. Diego Silva Herran (NIES)

(13) AIM ExSS & EndUse Modelling of DKI Jakarta Decarbonization

Dr. Retno Gumilang Dewi (ITB)

(14) Relationship between Changes in the Characteristics of Demographic Structure and Korea Residential Energy Consumption

Prof. Chan Park (Univ. of Seoul)

(15) What Should the Sub-national Planning be Considered to Achieve Carbon Neutrality? Exploring a Case Study in Jeju Province, South Korea

Mr. Yohan Choi (Univ. of Seoul)

(16) How to Manage the High Emission Industries and Promote the Carbon Peak in Guangdong Prof. Peng Wang (GIEC, CAS)

(17) The Evaluation on LCOH of Conventional Technology, Energy Storage Coupled Solar PV Electrolysis, and HTRG in China

Dr. Pianpian Xiang (Beijing Univ. of Technology)

(18) China Ultra-low Emission Steel Production & Industry Relocation Analysis

Ms. Weiyi Jiang (Yonsei Univ.)

- (19) Quantification of Indicators for Selected SDGs with the Climate Change Mitigation Pathways for China Dr. Chenmin He (Zhejiang Univ. of Technology)
- (20) Cross Cutting Scenarios and Strategies for Designing Decarbonization Pathways in the Transport Sector toward Carbon Neutrality

Dr. Runsen Zhang (Univ. of Tokyo)

(21) Scoping Review - Health Effects of Vegetation and Peatland Fires in Southeast Asia Dr. Vera Ling Hui Phung (NIES)

(22) Diagnosing the Key Economic Channels of How Deep Decarbonization Benefits Air Pollution Alleviation in the Greater Bay Area of China

Ms. Xiaorui Liu (Peking Univ.)

- (23) The Dilemma of China's National Carbon Neutrality and Sub-national Economic Inequality Mr. Chaoyi Guo (Peking Univ.)
- (24) Constraining Carbon Drives Eastern Coal-intensive Industries Northwards in China Ms. Ziqiao Zhou (Peking Univ.)
- (25) Economic and Health Impacts of Carbon Emission Reduction in Four Provinces of Northwest China under Carbon Neutrality Target

Mr. Zhengdong Yang (Beihang Univ.)

- (26) Carbon Reduction Pathways in 6 Provinces of China Towards Carbon Neutrality Goal Mr. Minghao Wang (Beihang Univ.)
- (27) Electrification Contributes Significantly to Climate Mitigation and Human Health Ms. Mengdan Zhao (Beihang Univ.)
- (28) Analysis of Carbon Emission and Economy of Hydrogen Production Routes in China Based on Life Cycle Assessment (LCA) Method

Dr. Lixing Zheng (GIEC, CAS)

(29) Climate and Socioeconomic Impact on Fire PM2.5 Mortality

Dr. Chaeyeon Park (NIES)

(30) Carbon Neutrality Policy is Conducive to the Implementation of the Minamata Convention on Mercury Mr. Yujie Pan (Peking Univ.)