

AAERE 2022

**The 11th Congress of the Asian Association of
Environmental and Resource Economics**



A pathway towards Carbon Neutrality in Asia

August 19-20, 2022

University of Economics Ho Chi Minh City, Vietnam

www.aaere2022.org

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GREETINGS FROM THE PRESIDENT OF AAERE

Dear friends and colleagues,

Welcome to our 11th Congress of the Asian Association of Environmental and Resource Economics, hosted by the University of Economics, Ho Chi Minh City. First of all, thank you for attending the Congress, and I certainly hope that you will enjoy the entire program. Since the outbreak of COVID-19 pandemic in early 2020, this is the first Congress that many of us could attend to present our work, and meet our friends in-person again. For those who could not come, hopefully we can still effectively interact through on-line facilities provided during this congress.

This 2-day congress would not be happening without the hard work of several of our colleagues. I especially would like to thank and congratulate Professor Soocheol Lee and Dr. Pham Khanh Nam as well as all members of the Scientific Committee, the Program Committee, and the Local Organizing Committee for their hard work in organizing our Congress. I also would like to thank the University of Economics, Ho Chi Minh City to host this congress.

As we all know, the theme of our Congress this year is “A pathway towards carbon neutrality in Asia”. So far, many Asian countries have produced their Nationally Determined Contributions (NDC) to reduce carbon emission including the targeted years to achieve a net zero carbon emission or carbon neutrality. Therefore, through this Congress, we aim to contribute to informing those countries the options to achieve their commitments and helping them to understand the consequences of these commitments.

The path to carbon neutrality is expected to be challenging for many Asian countries, given that many of these countries still depend on fossil fuels as their main energy sources, have limited access to technologies that could reduce greenhouse gas emissions at relatively low costs, conduct economic activities associated with deforestation, and have restricted policy options, among others, due to the on-going COVID-19 pandemic.

On the other hand, projections on rapid development and cost reduction in a variety of decarbonization technologies—including renewable energy, electric vehicles, and hydrogen production—will indeed provide opportunities to be on the road to carbon neutrality. Our congress is therefore expected to be an important forum to productively discussing all the challenges and opportunities for Asia to be on the pathway towards carbon neutrality.

In addition to the crucially important issues of carbon neutrality, our congress also covers many interesting and important topics beyond carbon emission. There will be discussion on, among others, biodiversity, water quality, waste management, environmental and sustainable development. I do hope that our congress will provide you opportunities to share your ideas and to learn from others to deepen your research as well as to strengthen your research institutions' activities. I am sure that we all share the same hope that this congress will develop and therefore boost the science of environmental and resource economics in Asia.

On top of it all, make sure that all of you enjoy the presentations, meet your friends, and, with the spirit of achieving carbon neutrality, develop your research networks as well. This congress is, indeed, by us and for us.

Budy P. Resosudarmo

President, AAERE





GREETINGS FROM THE LOCAL ORGANIZING COMMITTEE

Ladies and gentlemen,

On behalf of the University of Economics Ho Chi Minh City – or now we call it UEH university, I would like to express my sincere welcome to your participation in the 11th Congress of the Asian Association of Environmental and Resource Economics (AAERE) co-organized by the UEH College of Economics, Laws and Government and the Economy and Environment Partnership for Southeast Asia (EEPSEA).

Whether you have traveled some distance to be here in Ho Chi Minh city from various places in Asia or Europe, or are online at home, it is my honor to welcome you.

The theme of the congress this year “A pathway towards Carbon Neutrality in Asia” highlights one of the most important pillars in development strategies of many Asian nations. Vietnam committed to carbon neutrality by 2050 in November 2021. But this objective was not yet built and operated in policy documents. I hope this congress will act as a powerful platform for us, academia as well as policymakers, to synergize what we know and do not know on the science of carbon neutrality as well as what climate change adaptation and resilience goals work and do not work. I hope the congress would bring us insights and network for a workable pathway toward carbon neutrality in our countries.

Though we are from various countries, we all face almost the same big problems in the region, especially environmental degradation, climate change and Covid-19. Synergy from the research network like AAERE and EEPSEA, together with the integration of transdisciplinary approaches, could boost to create effective, inclusive, and sustainable solutions.

That connection would be even more supported by the UEH university. I’m happy to share with you that since 2021, the university has been restructured into a multi-disciplinary and sustainable university with 3 colleges, including the College of Economics, Law and Government, College of Business, and College of Technology and Design. The university’s research institutes, such as EEPSEA, will have an opportunity to foster their trans-disciplinary research and cooperation to address regional issues.

I believe this congress will have exciting and memorable presentation sessions filled with enlightening interactive discussions.

I would also like to thank all of you who have worked on putting this successful congress together. I wish the congress great success.

Su Dinh Thanh

President, UEH University





ORGANIZATION

Organizer



Asian Association of Environmental and Resource Economics (AAERE)

Host & Local Organizer



College of Economics, Law and Government
University of Economics Ho Chi Minh City

Co-hosts



Economy &
Environment
Partnership for
Southeast Asia

Economy & Environment Partnership for Southeast Asia (EEPSEA)



VIETNAM

Environment for Development in Vietnam





COMMITTEES

Scientific Committee

Soocheol Lee, Meijyo University: Chair
Orapan Nabangchang-Srisawalak, Sukhothai Thammatirat Open University: Co-chair
Arief Anshory Yusuf, Padjadjaran University
Chazhong Ge, Chinese Academy for Environmental Planning
Eiji Sawada, Kyushu Sangyo University
Gem Castillo, Resources and Environmental Economics Foundation of the Philippines
Hyungna Oh, Kyung Hee University
Isamu Matsukawa, Musashi University
Je-Liang Liou, Chung-Hua Institution for Economic Research
Jian Wu, Renmin University of China
Jong Ho Hong, Seoul National University
Nguyen Phuc Canh, University of Economics Ho Chi Minh city
Nguyen Trong Hoai, University of Economics Ho Chi Minh city
Phumsith Mahasuweerachai, Khon Kaen University
Shih-Mo Lin, Chung Yuan Christian University
Shiqiu Zhang, Peking University
Shunsuke Managi, Kyushu University
Tetsuya Horie, Sophia University
Toshi Arimura, Waseda University
Truong Dang Thuy, University of Economics Ho Chi Minh city
Mani Nepal, The South Asian Network for Development and Environmental Economics

Program Committee

Soocheol Lee, Meijyo University: Chair
Orapan Nabangchang-Srisawalak, Sukhothai Thammatirat Open University: Co-chair
Abdul Rahim Abdul Samad, Universiti Putra Malaysia
Jin-Li Hu, National Yang Ming Chiao Tung University
Ken-ichi Akao, Waseda University
Pham Khanh Nam, University of Economics Ho Chi Minh city
Su Dinh Thanh, University of Economics Ho Chi Minh city
Yana Jin, Environmental Defense Fund





Local Organizing Committee

Nguyen Dong Phong, University of Economics Ho Chi Minh city

Su Dinh Thanh, University of Economics Ho Chi Minh city

Bui Quang Hung, University of Economics Ho Chi Minh city

Pham Khanh Nam, University of Economics Ho Chi Minh city

Dinh Cong Khai, University of Economics Ho Chi Minh city

Nguyen Phong Nguyen, University of Economics Ho Chi Minh city

Le Thanh Nhan, University of Economics Ho Chi Minh city

Dang Thi Bach Van, University of Economics Ho Chi Minh city

Gem Castillo, Resource and Environmental Economics Foundation of the Philippines Inc.

Arief Anshory Yusuf, Padjadjaran University

Phumsith Mahasuweerachai, Khon Kaen University





GENERAL INFORMATION

CONGRESS VENUE



College of Economics, Law and Government, UEH University

Address: Campus 279 Nguyen Tri Phuong, District 10, Ho Chi Minh City, Vietnam
Building B1 (the front side of the campus on Nguyen Tri Phuong Street)

Registration	: Building B1 lobby
Opening Remarks / Keynote Speech	: Conference Hall B1-302
Parallel sessions	: Building B1, 3 rd and 4 th floors

CONGRESS WEBSITE

Registration: <https://aaere2022.org>
Zoom Access: <https://aaere2022.org/zoom>

PROGRAM CHANGES

Schedule changes will be notified to <https://aaere2022.org/program>

PARALLEL SESSION ASSISTANTS

If you encounter problems with the progress of a session, session assistants can help you.

CONTACTS

All questions regarding submission, registration, program, venue, press & media, etc. should be sent to: aaere2022@ueh.edu.vn

ATTENDANCE AND PUNCTUALITY

The AAERE Committee would like to extend its gratitude for your presence and for coming on time in all sessions and activities throughout the Congress.





INSTRUCTIONS FOR CONFERENCE PARTICIPANTS

PARALLEL SESSIONS

[Time Frame]

Session participants can use either a PowerPoint (.ppt or .pptx) or Portable Document Format (.pdf) for their presentations. Conference staff will be happy to assist in resolving any technical issues. The time available for each paper is 30 minutes, with 15-20 minutes for presentation, 5 minutes for discussant's comments, and 5 minutes for the authors' responses and a general discussion.

[Presenters and Discussants]

Online presenters are recommended to make a 15-minute presentation file with a .mp4 format and upload it (and slides of presentation) to the AAERE web folder (<https://aaere2022.org/upload>) or send it to the session chair at least one day before their sessions. *Please rename your files as "session_yourname" (for example "S47_NhanLe.mp4") before uploading.* Pre-recorded files will be used when an online presenter suffers from internet connection problems, and if presenters want to, they can use pre-recorded files for their entire presentation.

Discussants are expected to provide a concise comment. In case of online presentation or discussion, detailed suggestions can be passed on to the presenters via CHATTING during the session or emails after the session. Both online presenters and discussants are expected to join the zoom link from their PC, Mac, iPad, or Android device. The zoom link will be informed through the registration email by August 17, 2022.

[Chairs]

Chairs are invited to join 5-10 minutes prior to the beginning of a session. They will introduce the session and speakers, make sure the presentation proceeds as scheduled, and guide the discussion from the audience following the paper presentation. If there is a problem with the presenter's internet connection, chairs should play or ask the session assistant to play the presenter's pre-recorded file. In case the scheduled chair does not attend, the presenter of the actual last paper in the session is expected to take the role of chair.

POSTER SESSIONS

Poster Sessions are arranged as parallel sessions with the Regular Parallel Sessions. Poster Sessions consist of short oral presentations of your research without discussants (10 minutes for oral presentation + 5 minutes for questions from the floor).

Session participants can use either a PowerPoint (.ppt or .pptx) or Portable Document Format (.pdf) for their poster presentations. Online presenters are also recommended to make a 10-minute presentation file with a .mp4 format and upload it to the AAERE web folder (<https://aaere2022.org/upload>) at least one-day before their sessions. *Please rename your files as "session_yourname" (for example "S47_NhanLe.pptx") before uploading.*





SCHEDULE AT A GLANCE

Time	August 18	August 19	August 20
08:00 -		Registration 08:00 – 08:30	
09:00		Opening Remarks 08:30 – 09:00	
09:00 -		Keynote Speech 09:00 – 10:00	Thematic & Poster Session 4 09:00 – 11:00
10:00			
10:00 -		Parallel Session 1 10:10 – 12:10	
11:00			
11:00 -			Keynote Speech 11:10 – 12:10
12:00			
12:00 -		General Assembly 13:00 – 13:30	
13:00			
13:00 -		Parallel Session 2 13:30 – 15:30	Parallel Session 5 13:00 – 15:00
14:00			
14:00 -			
15:00			
15:00 -		Parallel Session 3 15:45 – 17:45	Parallel Session 6 15:15 – 17:15
16:00			
16:00 -	BOD Meeting 16:30 – 17:30		Closing Remarks 17:15 – 17:30
17:00			
17:00 -			
18:00			
18:00 -	Welcome Reception 18:00 – 19:30	Gala Dinner 18:00 – 19:30	
19:30			





KEYNOTE SPEAKERS



Keynote speech I

Paul Ekins

University College London

Paul Ekins has a Ph.D. in economics from the University of London and is Professor of Resources and Environmental Policy at the UCL Institute for Sustainable Resources at University College London.

Paul Ekins was a Member of the UK Royal Commission on Environmental Pollution from 2002-2008. From 2004-2019 he was a Co-Director of the UK Energy Research Centre. He was a member of the European Commission's High-Level Panel on the European Decarbonisation Pathways Initiative. He is a member of the UNEP's International Resource Panel (IRP) and was the lead author of the IRP's reports on resource efficiency (commissioned by the G7 governments and presented in Japan in 2016). He was a Co-Chair of UNEP's sixth Global Environment Outlook (GEO-6), which was presented to the fourth United Nations Environment Assembly in Nairobi in March 2019.

He is the author of numerous papers, book-chapters and articles in a wide range of journals and has written or edited twelve books. In 1994 Paul Ekins received UNEP's Global 500 Award 'for outstanding environmental achievement'. In the UK New Year's Honors List for 2015 he received an OBE (Officer of the Order of the British Empire) for services to environmental policy.



**Keynote speech II****Muthukumara Mani**

Lead Environmental and Climate Change Economist for the Southeast Asia Region, World Bank

Mani has been working on climate change mitigation and adaptation issues and environmental issues for most of his career. He has led several regional flagship reports on climate change, glaciers, air pollution, and water. He is leading the Country Climate and Development Report—a new diagnostic being prepared by the World Bank—for Vietnam and Cambodia and policy dialogue on climate change issues in the Southeast Asia region.

Mani has led the World Bank's work on assessing environmental implications of development policy operations in the Environment Global Practice of the World Bank. His work has also focused on country environmental assessments; natural resources management; environmental institutions and governance; and trade and climate change issues. Mani has several books, policy reports, and peer-reviewed journal articles to his credit. He holds a Ph.D. and Masters in Economics from the University of Maryland, College Park, USA.





CONFERENCE PROGRAM

DAY 0 / AUGUST 18, 2022

TIME (ICT)	PROGRAM
16:30 – 17:30	BOD Meeting
18:00 – 19:30	Welcome Reception

DAY 1 / AUGUST 19, 2022

TIME (ICT)	PROGRAM
08:00 – 08:30	Registration
08:30 – 09:00	Opening Remarks President of UEH, LOC Chair President of AAERE
09:00 – 10:00	Keynote Speech Getting to carbon neutrality: Challenges and implications for Asia (Paul Ekins, University College London)
10:10 – 12:10	Parallel Session 1 (Regular Session) <ul style="list-style-type: none"> - S11: Carbon neutrality (1) - S12: Impact and mitigation policies of climate change (1) - S13: Renewable energy and electricity (1) - S14: Non-market valuation (1) - S15: Biodiversity and ecosystem management (1) - S16: Waste management and circular economy (1)
12:10 – 13:00	Lunch Break
13:00 – 13:30	General Assembly
13:30 – 15:30	Parallel Session 2 (Regular Session) <ul style="list-style-type: none"> - S21: Carbon neutrality (2) - S22: Impact and mitigation policies of climate change (2) - S23: Renewable energy and electricity (2) - S24: Non-market valuation (2) - S25: Biodiversity and ecosystem management (2) - S26: Waste management and circular economy (2) - T27: Universities for Carbon Neutrality
15:30 – 15:45	Break
15:45 – 17:45	Parallel Session 3 (Regular Session) <ul style="list-style-type: none"> - S31: Carbon neutrality (3) - S32: Renewable energy and electricity (3) - S33: Non-market valuation (3) - S34: Low carbon building, house, and home appliances - S35: Climate change and food, forest and agriculture (1) - S36: Climate change and food, forest and agriculture (2)
18:00 – 19:30	Gala Dinner




DAY 2 / AUGUST 20, 2022

TIME (ICT)	PROGRAM
08:30 – 09:00	Registration
09:00 – 11:00	Parallel Session 4 (Thematic and Poster Sessions) <ul style="list-style-type: none"> - T41: Climate change and community resilience: insights from South Asia - T42: Accelerating energy transitions: industry, infrastructure, institution and policy - T43: Nuclear safety risk in East Asia and building a nuclear safety system in the region - T44: Decarbonization using market mechanisms: Carbon pricing and carbon market linkage in Northeast Asia - T45: Sustainable energy in Southeast Asian countries - T46: Analyzing responses to decarbonization technologies in Japan - P48: Climate change issue (poster) - P49: Environmental impact & resource management issue (poster)
11:00 – 11:10	Break
11:10 – 12:10	Keynote Speech Vietnam Climate Change & Development: The Contexts and Climate Actions (<i>Muthukumara Mani, World Bank</i>)
12:10 – 13:00	Lunch Break
13:00 – 15:00	Parallel Session 5 (Regular Session) <ul style="list-style-type: none"> - S51: Carbon emission and energy transition (1) - S52: Carbon pricing (1) - S53: Environmental governance and sustainable development (1) - S54: Climate change and fisheries - S55: Air pollution, environment and development - S56: Environmental impact and disaster management
15:00 – 15:15	Break
15:15 – 17:15	Parallel Session 6 (Regular Session) <ul style="list-style-type: none"> - S61: Carbon emission and energy transition (2) - S62: Carbon pricing (2) - S63: Environmental governance and sustainable development (2) - S64: Energy efficiency, and green innovation - S65: Water and land management - S66: COVID-19, health and environmental issue
17:15 – 17:30	Closing Remarks Remarks by Local Committee Chair Best Poster Award given by AAERE President Announcement for 2023 Congress

* The 11th Congress of the AAERE will be a hybrid type of conference utilizing both online and offline presentations. Online participants have to register (via zoom at <https://aaere2021.org/zoom>) and there is just one zoom link to access all the sessions (breakout rooms).





DAY 1 / August 19, 2022

S11: Carbon neutrality (1)

10:10 – 12:10

Chair: **Phuong Thao Dang** (Western University of Ontario)

- Perceived feasibility and desirability of Japan's decarbonization transition: expert perspectives
 - **Yiyi Ju (Waseda University)**
 - Masahiro Sugiyama (University of Tokyo)
 - Hiroto Shiraki (University of Shiga Prefecture)
- * Discussant: **Nur Firdaus (Kyoto University)**
- Operationalizing the Carbon-Neutral Living: A Case Study of Carbon-Negative Products Business Model
 - Yue-Rong Hong (National Taipei University)
 - **Chien-Ming Lee (National Taipei University)**
 - Tsai-Chi Kuo (National Taipei University)
- * Discussant: **Phuong Thao Dang (Western University of Ontario)**
- Decarbonization and pathways to net-zero: Implications for the fossil-based power sector in Indonesia
 - **Nur Firdaus (Kyoto University)**
 - Akihisa Mori (Kyoto University)
 - Vaibhav Chaturvedi (India Council on Energy, Environment and Water)
- * Discussant: **Yiyi Ju (Waseda University)**
- An evaluation of Vietnam's pathway to net-zero by 2050: Reconciling the Developmental State and Civil Society
 - **Phuong Thao Dang (Western University of Ontario)**
 - Bipasha Baruah (Western University of Ontario)
- * Discussant: **Chien-Ming Lee (National Taipei University)**

S12: Impact and mitigation policies of climate change (1)

10:10 – 12:10

Chair: **Yosuke Arino** (Keio University)

- Adaptation to Climate Variability and Household Welfare Outcomes in Uganda
 - **Peter Babyenda (Makerere University)**
- * Discussant: **Yosuke Arino (Keio University)**
- The Nexus of Economic Growth and Energy Consumption in Vietnam Cities
 - Isaac Abekah-Koomson (University of Environment & Sustainable Development)
 - **Pham Thi Ha (Hanoi School of Business and Management, VNU)**
- * Discussant: **Peter Babyenda (Makerere University)**





- Institutional gaps and enabling conditions to promote the Climate Resilient Development Pathway in ASEAN Member States
 - **Yosuke Arino (Keio University)**
 - S.V.R.K. Prabhakar (Keio University)
 - Chisa Umemiya (Keio University)
 - Makino Yamanoshita (Keio University)
- * Discussant: **Pham Thi Ha (Hanoi School of Business and Management, VNU)**

S13: Renewable energy and electricity (1)

10:10 – 12:10

Chair: Dongsoon Lim (Donguei University)

- The Impact of the Feed-In-Tariff Exemption on Energy Consumption in Japanese Industrial Plants
 - **Aline Mortha (Waseda University)**
- * Discussant: **Kota Sugimoto (Tokyo Foundation for Policy Research)**
- Negawatt Trading and Energy Efficiency in Adjustment Markets
 - **Yukihide Kurakawa (Kanazawa Seiryo University)**
- * Discussant: **Dongsoon Lim (Department of Economics, Donguei University)**
- Interconnector Capacity Allocation Method: First-Come, First-Served Rule to Implicit Auction in Japan
 - **Kota Sugimoto (Tokyo Foundation for Policy Research)**
- * Discussant: **Aline Mortha (Waseda University)**
- Regionally Different Electricity Pricing and Implications on Carbon Neutrality in Korea
 - **Dongsoon Lim (Department of Economics, Donguei University)**
- * Discussant: **Yukihide Kurakawa (Kanazawa Seiryo University)**

S14: Non-market valuation (1)

10:10 – 12:10

Chair: Tatsuo Suwa (Yamaguchi University)

- Biodiversity restoration of Bannerghatta National Park and what the forest-dependent communities are willing to contribute
 - **Keerthi Srilakshmi (Institute for Social and Economic Change)**
 - Krishna Raj (Institute for Social and Economic Change)
 - Ram Charan Thej Keerthi (Ministry of Finance, Government of Andhra Pradesh)
- * Discussant: **Botao Qin (XJTU China)**
- Selecting Payment Vehicles for Turtle Conservation in Terengganu, Malaysia
 - **Mahirah Kamaludin (Universiti Malaysia Terengganu)**
- * Discussant: **Tatsuo Suwa (Yamaguchi University)**





- Reference point dependence and climate change valuation
 - **Botao Qin (XJTU China)**
- * Discussant: **Keerthi Srilakshmi (Institute for Social and Economic Change)**
- Estimating Preference for Nature Recreation after the COVID-19 pandemic: Case Study in Changbai Mountain, China
 - **Tatsuo Suwa (Yamaguchi University)**
- * Discussant: **Mahirah Kamaludin (Universiti Malaysia Terengganu)**

S15: Biodiversity and ecosystem management (1)

10:10 – 12:10

Chair: **Bui Bich Xuan (Nha Trang University)**

- Using System Dynamics Approach to Evaluate the Impact of Tourism and Fisheries sectors on Wetland ecosystem- Case Chilika Lagoon, India
 - **Aditi Samantsinghar (Indian Institute of Technology - Bombay, Powai, Mumbai)**
- * Discussant: **Bui Bich Xuan (Nha Trang University)**
- Human – Animal conflict: optimizing sustainable numbers of cranes in the Agamon Wetland in Israel
 - **Nir Becker (Tel Hai College)**
- * Discussant: **Aditi Samantsinghar (Indian Institute of Technology - Bombay, Powai, Mumbai)**
- Bioeconomic analysis of managing an invasive species that is both a value and a pest
 - **Bui Bich Xuan (Nha Trang University)**
- * Discussant: **Nir Becker (Tel Hai College)**

S16: Waste management and circular economy (1)

10:10 – 12:10

Chair: **Theint Theint Aung (Myanmar Ministry of Agriculture, Livestock and Irrigation)**

- Behavior and intention analyses of plastic waste separation at source in Japan
 - **Jiarong Hu (Ritsumeikan University)**
- * Discussant: **Ling Miao (Sophia University)**
- Environmental Lobbying on International Trade in Waste: Theory and Evidence
 - **Miao Dai (McGill University)**
- * Discussant: **Theint Theint Aung (Department of Agriculture, Myanmar Ministry of Agriculture, Livestock and Irrigation)**





- Analysis of household waste separation behavioral intentions in Tibet using the extended TPB
 - **Ling Miao (Sophia University)**
 - * Discussant: **Jiarong Hu (Ritsumeikan University)**
 - Households' waste analysis, current conditions of waste management and awareness of people on threats and opportunities on segregation of waste in Pyin Oo Lwin Township, Myanmar
 - **Theint Theint Aung (Department of Agriculture, Myanmar Ministry of Agriculture, Livestock and Irrigation)**
 - * Discussant: **Miao Dai (McGill University)**
-

S21: Carbon neutrality (2)

13:30 – 15:30

Chair: Daigee Shaw (Institute of Economics, Academia Sinica)

- Low carbon infrastructure – a step closer to net zero emission
 - **Ishika Chhillar (Gokhale Institute of Politics and Economics)**
- * Discussant: **Alloysius Joko Purwanto (Economic Research Institute for ASEAN & East Asia - ERIA)**
- An Analysis of Alternative Scenarios toward Net Zero Transition in the Indonesia's Electricity Sector
 - **Rahmahwati Rosidah (Seoul National University)**
 - **Jong Ho Hong (Seoul National University)**
- * Discussant: **Daigee Shaw (Institute of Economics, Academia Sinica)**
- Reframing for Global Strategies and Regional Cooperation Pathways for an Inclusive Net-Zero Strategy
 - **Alloysius Joko Purwanto (Economic Research Institute for ASEAN & East Asia - ERIA)**
- * Discussant: **Ishika Chhillar (Gokhale Institute of Politics and Economics)**
- Pathway Towards 2050 Net Zero and Post-2050 Net Negative Economy in Taiwan
 - **Daigee Shaw (Institute of Economics, Academia Sinica)**
- * Discussant: **Rahmahwati Rosidah (Seoul National University)**





S22: Impact and mitigation policies of climate change (2)

13:30 – 15:30

Chair: Chia-Hsing Liang (National Chung Hsing University)

- The impact of drought on school attainment in rural Pakistan: A gender disaggregated analysis
 - **Lubna Naz (Institute of Business Administration Karachi, Karachi University)**
- * Discussant: **Tran Thi Thu Hien (Hue University)**
- Climate change and migration decisions: A choice experiment from the Mekong Delta, Vietnam
 - **Tra Thi Trinh (National Graduate Institute for Policy Studies)**
- * Discussant: **Chia-Hsing Liang (National Chung Hsing University)**
- The assessment of typhoon losses and typhoon features in Vietnam
 - **Tran Thi Thu Hien (Hue University)**
 - Yen-Lien Kuo (National Cheng Kung University, Taiwan)
- * Discussant: **Lubna Naz (Institute of Business Administration Karachi, Karachi University)**
- Applying the theory of planned behavior to examine tourists' pro-environmental behavior: a case for climate change
 - Han-Shen Chen (Chung Shan Medical University)
 - **Chia-Hsing Liang (National Chung Hsing University)**
- * Discussant: **Tra Thi Trinh (National Graduate Institute for Policy Studies)**

S23: Renewable energy and electricity (2)

13:30 – 15:30

Chair: Takashi Saito (Kyorin University)

- Green Electricity Generation Efficiency of Japan's Administrative Regions
 - **Jin-Li Hu (National Yang Ming Chiao Tung University)**
- * Discussant: **Kazuaki Sato (Tokyo Keizai University)**
- International expansion of renewable energy capacities: The role of innovation and choice of policy instruments
 - **Erik Hille (HHL Leipzig Graduate School of Management)**
- * Discussant: **Takashi Saito (Kyorin University)**
- A Multi-Regional Input-Output Analysis of Energy Use of Wood Biomass in Japan
 - **Kazuaki Sato (Tokyo Keizai University)**
- * Discussant: **Jin-Li Hu (National Yang Ming Chiao Tung University)**
- An economic analysis on the collection of unused wood and biomass energy use
 - **Takashi Saito (Kyorin University)**
- * Discussant: **Erik Hille (HHL Leipzig Graduate School of Management)**





S24: Non-market valuation (2)

13:30 – 15:30

Chair: Hyun No Kim (Korea Environment Institute)

- Willingness to Pay for Marine Conservation: A Case Study of Tun Sakaran Marine Park, Borneo, Malaysia
 - **Fazilah Musa (Universiti Malaysia Sabah)**
 - Muhammad Syafiq Siddek Maulana (Universiti Malaysia Sabah)
- * Discussant: **Supriya Hazarika (Indian Institute of Technology Kharagpur)**
- Willingness to Pay for Health Risk Reduction associated with Air Pollution in Chiang Mai
 - Woraluck Himakalasa (Chiang Mai University)
 - **Kansinee Guntawongwan (Chiang Mai University)**
- * Discussant: **Hyun No Kim (Korea Environment Institute)**
- Factors influencing visitors' participation in wetland conservation: A case study from India
 - **Supriya Hazarika (Indian Institute of Technology Kharagpur)**
 - Kishor Goswami (Indian Institute of Technology Kharagpur)
- * Discussant: **Fazilah Musa (Universiti Malaysia Sabah)**
- Estimating the Economic Value of Change in Ecosystem Habitat Quality Using Integrated Environmental and Economic Analysis: The Case of Ecotourism Sites on Jeju Island, South Korea
 - **Hyun No Kim (Korea Environment Institute)**
- * Discussant: **Kansinee Guntawongwan (Chiang Mai University)**

S25: Biodiversity and ecosystem management (2)

13:30 – 15:30

Chair: Ken-Ichi Akao (Waseda University)

- Enhancing Transboundary Water Cooperation through Economic Valuation of Biodiversity & Ecosystem Services in Kabul River Basin
 - **Muhammad Rafiq (Institute of Management Sciences, Peshawar Pakistan)**
- * Discussant: **Chandan Singha (Hindu College, University of Delhi)**
- An economic valuation to conserve a UNESCO site in Gunung Mulu National Park, Sarawak, Malaysia
 - **Mohamad Syahrul Nizam Ibrahim (Universiti Putra Malaysia Bintulu Sarawak Campus)**
 - Suziana Hassan (Universiti Putra Malaysia Bintulu Sarawak Campus)
- * Discussant: **Ken-Ichi Akao (Faculty of Social Sciences, Waseda University)**





- Estimating marginal cropland owners' supply curve for ecosystem services: An experimental approach
 - **Chandan Singha (Hindu College, University of Delhi)**
- * Discussant: **Muhammad Rafiq (Institute of Management Sciences, Peshawar Pakistan)**
- A basic theory for the environment and natural resource management: Existence of an optimal path in a continuous time nonconcave Ramsey model
 - **Ken-Ichi Akao (Faculty of Social Sciences, Waseda University)**
- * Discussant: **Mohamad Syahrul Nizam Ibrahim (Universiti Putra Malaysia Bintulu Sarawak Campus)**

S26: Waste management and circular economy (2)

13:30 – 15:30

Chair: Minjie Chen (Nanjing University of Finance and Economics)

- Knowledge, Attitude, Perception and Practices of Households' gender on Solid Waste Management in Pyin Oo Lwin Township, Myanmar
 - **Theint Theint Aung (Department of Agriculture, Myanmar Ministry of Agriculture, Livestock and Irrigation)**
- * Discussant: **Shubham Sharma (IIT Roorkee)**
- Nudging Households to segregate waste at source
 - **Shivani Wadehra (Independent Researcher)**
- * Discussant: **Keewon Kim (Seoul National University)**
- Testing the Kuznets Curve for municipal solid waste: Evidence from India
 - **Shubham Sharma (IIT Roorkee)**
- * Discussant: **Minjie Chen (Nanjing University of Finance and Economics)**
- The effect of packaging recyclability information on buying behaviors: Evidence from an online field experiment
 - **Keewon Kim (Seoul National University)**
 - Booyuel Kim (Seoul National University)
 - Jong Ho Hong (Seoul National University)
- * Discussant: **Shivani Wadehra (Independent Researcher)**
- Pro-environment behavior in a social context: evidence from waste sorting in rural China
 - **Minjie Chen (Nanjing University of Finance and Economics)**
- * Discussant: **Theint Theint Aung (Department of Agriculture, Ministry of Agriculture, Livestock and Irrigation)**





T27: Universities for Carbon Neutrality (Online open session)

09:00 – 11:00

Organizer: Bui Quang Hung (University of Economics Ho Chi Minh City))

- Chair: Trinh Tu Anh (University of Economics Ho Chi Minh City, Vietnam)
 - Panelists:
 - Paul Ekins (University College London, UK)
 - Trinh Tu Anh (University of Economics Ho Chi Minh City, Vietnam)
 - Ken-Ichi Akao (Waseda University, Japan)
 - Budy Resosudarmo (Australian National University, Australia)
 - Link: <https://aaere2022.org/ucn>
-

S31: Carbon neutrality (3)

15:45 – 17:45

Chair: Chun-Chiang Feng (National Taipei University, Taiwan)

- Impact on the Power Generation Mix and the Economy of Japan under 2050 Carbon Neutral Scenario: Analysis using the E3ME Macro-Econometric Model
 - **Soocheol Lee (Meijo University)**
- * Discussant: **Chun-Chiang Feng (National Taipei University, Taiwan)**
- Research on China's Innovative Carbon Tax Collection System under the Goal of Carbon Peaking and Carbon Neutrality
 - Xiaobin Pan (Tianjin University of Finance and Economics)
 - **He Yedong (Tianjin University of Finance and Economics)**
- * Discussant: **Soocheol Lee (Meijo University)**
- Technology resource allocation and carbon neutrality in Taiwan
 - **Chun-Chiang Feng (National Taipei University, Taiwan)**
- * Discussant: **He Yedong (Tianjin University of Finance and Economics)**

S32: Renewable energy and electricity (3)

15:45 – 17:45

Chair: Chun-hsu Lin (Chung-Hua Institution for Economic Research)

- Policy options for offshore wind power in Vietnam
 - **Thang Nam Do (Australian National University)**
- * Discussant: **Miwa Nakai (Fukui Prefectural University)**
- Anaerobic digestion of balloon pilot models construction utilization swine slurry for biogas production
 - **Vannasinh Souvannasouk (Champasak University)**
- * Discussant: **Kensuke Yoshihiro (Momoyama Gakuin University)**





- Do your friends help you to be green?
 - **Miwa Nakai (Fukui Prefectural University)**
- * Discussant: **Chun-hsu Lin (Chung-Hua Institution for Economic Research)**
- Why and How are Renewable Energy Power Plants Located? Focusing on Woody Biomass Power Generation in Japan
 - **Kensuke Yoshihiro (Momoyama Gakuin University)**
 - Toshikazu Yamakawa (Osaka Sangyo University)
- * Discussant: **Vannasinh Souvannasouk (Champasak University)**
- Cost-Benefit Analysis on Aquaculture-Solar PV Symbiosis Practices
 - **Chun-hsu Lin (Chung-Hua Institution for Economic Research)**
- * Discussant: **Thang Nam Do (Australian National University)**

S33: Non-market valuation (3)

15:45 – 17:45

Chair: De Vika Krishnan (Universiti Teknologi Mara Seremban, Negeri Sembilan)

- Estimating the Willingness to Pay to build flood control facilities in Hsinchu City
 - **Yawen Chiueh (National Tsing Hua University, Taiwan)**
- * Discussant: **Haron Nazatul Faizah (Universiti Sultan Zainal Abidin)**
- Household willingness to pay for net-zero emissions reduction program in Ha Noi, Viet Nam
 - **Le Huyen Trang (Foreign Trade University)**
- * Discussant: **De Vika Krishnan (Universiti Teknologi Mara Seremban, Negeri Sembilan)**
- Analysis of Households' Willingness to Pay for Solid Waste Management Services: Evidence from a Double-Bounded Dichotomous Choice Survey in Kuala Nerus, Terengganu
 - **Haron Nazatul Faizah (Universiti Sultan Zainal Abidin)**
- * Discussant: **Yawen Chiueh (National Tsing Hua University, Taiwan)**
- Economic valuation of forested watershed ecosystem services in Langat catchment area using contingent valuation method
 - **De Vika Krishnan (Universiti Teknologi Mara Seremban, Negeri Sembilan)**
- * Discussant: **Le Huyen Trang (Foreign Trade University)**





S34: Low carbon building, house, and home appliances

15:45 – 17:45

Chair: Chung-Huang Huang (National Tsing Hua University, Taiwan)

- Impacts of public policy on the rebound effect of green heating services
 - Phu Nguyen-Van (EconomiX, CNRS & University of Paris Nanterre, France)
 - **Nhat-Anh Nguyen (BETA, Universite de Strasbourg)**
- * Discussant: **Monalisa Singh (Indian Institute of Technology Tirupati)**
- Investigating the opportunities and barriers to energy efficiency improvement in Taiwan rental residential housing
 - **Ting-Jui Sun (Industrial Technology Research Institute)**
- * Discussant: **Chung-Huang Huang (National Tsing Hua University, Taiwan)**
- Household Appliances Ownership in Urban India: Do Gender and Neighborhood Effect Matter?
 - **Monalisa Singh (Indian Institute of Technology Tirupati)**
- * Discussant: **Nhat-Anh Nguyen (BETA, Universite de Strasbourg)**
- Measurement of the benefits generated by energy efficiency regulations on household appliances and equipment
 - Shin-Hang Lo (Industrial Technology Research Institute, Taiwan)
 - Shao-Hui Kao (Industrial Technology Research Institute, Taiwan)
 - Ching-Yu Li (Industrial Technology Research Institute, Taiwan)
 - **Chung-Huang Huang (National Tsing Hua University, Taiwan)**
- * Discussant: **Ting-Jui Sun (Industrial Technology Research Institute)**

S35: Climate change and food, forest and agriculture (1)

15:45 – 17:45

Chair: Oh Sang Kwon (Seoul National University)

- Did Breeding Mitigate the Impact of Climate Change on Rice Production in Japan
 - **Meizi Li (Sophia University)**
- * Discussant: **Kimlong Chheng (Asian Vision Institute)**
- Do Farmers' Ability and Community Networks Matter in Agricultural Adaptation to Climate Change? A Case Study of Bihar
 - **Meeta Keswani Mehra (Jawaharlal Nehru University)**
- * Discussant: **Oh Sang Kwon (Seoul National University)**
- Irrigation Inequality, Rice Farming Productivity, Food Insecurity in Rural Cambodia
 - **Kimlong Chheng (Asian Vision Institute)**
 - Budy P. Resosudarmo (Australian National University)
- * Discussant: **Meizi Li (Sophia University)**





- The Impacts of Climate Variables on Korean Agricultural Productivity
 - Oh Sang Kwon (Seoul National University)
 - **Hyo Jae Shin (Seoul National University)**
 - Jimin Shim (Seoul National University)

* Discussant: **Meeta Keswani Mehra (Jawaharlal Nehru University)**

S36: Climate change and food, forest and agriculture (2)

15:45 – 17:45

Chair: Alessandro Tavoni (University of Bologna)

- Coping with Climate Shocks: Empirical Evidence from Coastal Districts of Odisha, India
 - **Niranjan Padhan (Institute for Social and Economic Change (ISEC), Bangalore, India)**
- * Discussant: **Amlan Das Gupta (O.P. Jindal Global University)**
- Impact of the Adoption of Soil and Water Conservation Measures on Agricultural Outcome of Rainfed Watershed Areas in Telangana, India
 - **Dayakar Peddi (Centre for Economic and Social Studies)**
- * Discussant: **Nguyen Tuan Kiet (School of Economics – Can Tho University)**
- Impact of Climate Change on Food Consumption Patterns in India
 - **Amlan Das Gupta (O.P. Jindal Global University)**
- * Discussant: **Alessandro Tavoni (University of Bologna)**
- Effect of climatic factors on farm income of rain-fed and irrigated farming households in Vietnam
 - Ho Huu Phuong Chi (School of Economics – Can Tho University)
 - **Nguyen Tuan Kiet (School of Economics – Can Tho University)**
 - Vo Thanh Danh (School of Economics – Can Tho University)
 - Trinh Cong Duc (School of Economics – Can Tho University)
 - Nguyen Ngoc Lam (School of Economics – Can Tho University)
 - Anchal Arora (Indian Institute of Foreign Trade, New Delhi, India)
- * Discussant: **Dayakar Peddi (Centre for Economic and Social Studies)**
- The socio-economic dimension of food security: an index for country-level analyses
 - **Alessandro Tavoni (University of Bologna)**
- * Discussant: **Niranjan Padhan (Institute for Social and Economic Change (ISEC), Bangalore, India)**





DAY 2 / August 20, 2022

T41: Climate change and community resilience: insights from South Asia

09:00 – 11:00

Organizer: Mani Nepal, South Asian Network for Development & Environmental Economics (SANDEE)

- Chair: A.K. Enamul Haque (East-West University, Bangladesh)
- Presenters:
 - A.K. Enamul Haque, East-West University, Bangladesh
 - Pranab Mukhopadhyay, Goa University, India
 - Mani Nepal, SANDEE, ICIMOD
 - Md Rumi Shammin, Oberlin College, USA

T42: Accelerating energy transitions: industry, infrastructure, institution and policy

09:00 – 11:00

Organizer: Akihisa Mori (Kyoto University)

- Chair: Akihisa Mori (Kyoto University)
- Discussants:
 - Budy B. Resosudarmo (Australian National University)
 - Jing Cao (Tsinghua University)
- Co-benefits from solar powered irrigation in the northwestern part of Bangladesh: in the lens of climate adaptation
 - **Syed Mahbubur Rahman (BRAC University)**
 - Akihisa Mori (Kyoto University)
 - Syed Mustafizur Rahman (University of Rajshahi)
- Genuine grid parity and acceleration of RE development in developing countries: The case of Indonesia
 - **Alin Halimatussadiah (Universitas Indonesia)**
 - Widodo Wahyu Purwanto (Universitas Indonesia)
 - Ahmad Syauqi (Universitas Indonesia)
 - Roes Ebara Gikami Lufti (Universitas Indonesia)
 - Akihisa Mori (Kyoto University)
 - Nur Firdaus (Kyoto University)
- Industry's Role in Japan's Energy Transition: Soft Linking IAM and IO with extended electricity supply sectors
 - **Yiyi Ju (Waseda University)**
 - Nur Firdaus (Kyoto University)
 - Tao Cao (University of Tokyo)
- Grid companies' heterogeneous behaviors and electricity system transitions: The case of China
 - **Akihisa Mori (Kyoto University)**





T43: Nuclear safety risk in East Asia and building a nuclear safety system in the region

09:00 – 11:00

Organizer: Soocheol Lee (Meijo University, Japan)

- Chair: Yanmin He (Otemon Gakuin University, Japan)
- Presenters:
 - Tian Kang (Ritsumeikan University, Japan)
 - Yanmin He (Otemon Gakuin University, Japan)
 - Eva Lisowski (Tokyo Institute of Technology, Japan)
 - Hyelim You (Nagoya University of Commerce & Business, Japan)
- Discussants: Kiyoshi Fujikawa (Aichigakuin University, Japan)
- A Comparative Analysis of Japanese, Chinese, and South Korean Attitudes toward Nuclear Safety in East Asia -Survey results Tokyo, Seoul, and Beijing residents
 - **Yanmin He (Otemon Gakuin University, Japan)**
- Research on the cause classification and preventive countermeasures of nuclear reactor accidents in China
 - **Kang Tian (Ritsumeikan University, Japan)**
- Radioactive Material Leakage Impact on Japan, South Korea, and China in the Case of Nuclear Power Plant Accidents and Spent Fuel Pool Fires in this region: Analysis using HYSPLIT simulation model
 - **Eva Lisowski (Tokyo Institute of Technology, Japan)**
- Building a nuclear safety system in East Asia toward nuclear safety society - Challenges to overcome the segmented nuclear safety system
 - **Hyelim You (Nagoya University of Commerce & Business, Japan)**

T44: Decarbonization using market mechanisms: Carbon pricing and carbon market linkage in Northeast Asia

09:00 – 11:00

Organizer: Sunhee Suk (Nagasaki University, Japan)

- Chair: Yongsung Cho, Korea University, Korea
- Presenters:
 - Xianbing Liu (Institute for Global Environmental Strategies, Japan)
 - Yongsung Cho (Korea University, Korea)
 - Joseph Dellatte (Institute Montaigne, France)
 - Sunhee Suk (Nagasaki University, Japan)
- Discussants: Xiaolu Zhao, Environmental Defense Fund, China
- Understanding barriers to linking heterogeneous emissions trading schemes: evidence from and lessons for Northeast Asia
 - **Joseph Dellatte (Institute Montaigne, France)**
- Impact of carbon market linkage between China, Japan and Korea on decarbonization: E3ME applied study
 - **Sunhee Suk (Nagasaki University, Japan)**





- Carbon pricing for the transition toward net-zero of Asia
 - **Xianbing Liu (Institute for Global Environmental Strategies, Japan)**
- Lessons from the Greenhouse Gas Emission Trading Scheme and Carbon Market in Korea
 - **Yongsung Cho (Korea University, Korea)**

T45: Sustainable Energy in Southeast Asian Countries

09:00 – 11:00

Organizer: Pham Khanh Nam (EfD-Vietnam, EEPSEA, UEH University)

- Chair: Truong Dang Thuy (EfD-Vietnam, EEPSEA, UEH University)
- Presenters:
 - Truong Dang Thuy (EfD-Vietnam, EEPSEA, UEH University)
 - Moshahida Sultana (Central European University)
 - Pham Nhu Man (Vietnam – Netherlands Joint Doctorate Programme (UEH University and Erasmus University Rotterdam))
 - Pham Ngoc Tham (Vietnam – Netherlands Joint Doctorate Programme (UEH University and Erasmus University Rotterdam))
- Price perception and household electricity consumption in Vietnam
 - **Pham Nhu Man (Vietnam – Netherlands Joint Doctorate Programme (UEH University and Erasmus University Rotterdam))**
 - Truong Dang Thuy (EfD-Vietnam, EEPSEA, UEH University)
- * Discussant: **Moshahida Sultana (Central European University)**
- Public perceptions of reasonable electricity bill in Ho Chi Minh City
 - Pham Nhu Man (Vietnam – Netherlands Joint Doctorate Programme (UEH University and Erasmus University Rotterdam))
 - **Truong Dang Thuy (EfD-Vietnam, EEPSEA, UEH University)**
- * Discussant: **Pham Ngoc Tham (Vietnam – Netherlands Joint Doctorate Programme (UEH University and Erasmus University Rotterdam))**
- Preferences for residential solar power system in Vietnam: Evidence from a choice experiment study
 - **Pham Ngoc Tham (Vietnam – Netherlands Joint Doctorate Programme (UEH University and Erasmus University Rotterdam))**
 - Pham Khanh Nam
- * Discussant: **Pham Nhu Man (Vietnam – Netherlands Joint Doctorate Programme (UEH University and Erasmus University Rotterdam))**
- Comparing electricity transitions in emerging economies: Nuclear growth in Bangladesh versus solar growth in Vietnam
 - **Moshahida Sultana (Central European University)**
- * Discussant: **Truong Dang Thuy (EfD-Vietnam, EEPSEA, UEH University)**





T46: Analyzing responses to decarbonization technologies in Japan 09:00 – 11:00

Organizer: Yoshiaki Ushifusa (University of Kitakyushu)

- Chair: Yoshiaki Ushifusa (University of Kitakyushu)
- Discussants:
 - Satoshi Honma (Tokai University)
 - Yanxue Li (Qingdao University of Technology, China)
 - Takaaki Kato (The University of Kitakyushu, Japan)
- User Preferences in Hydrogen Electricity Storage Configurations
 - **Takaaki Kato (University of Kitakyushu)**
- Examination of Hydrogen Energy System for Reducing Purchasing Power by Self-Consumption of Photovoltaic Power
 - **Shuhei Yamamoto (Kyushu Institute of Technology)**
- Social acceptance of offshore wind turbines in Japan: An empirical study using choice experiments
 - **Kengo Iwata (Kyoto University)**
- Role assessment of utility-scale storage system in Japanese public grid
 - **Xiaoyi Zhang (iSMART Qingdao University of Technology)**

P48: Climate change issue (poster)

09:00 – 11:00

- Evaluation of operational efficiency and environmental management: A benchmarking study of Indian major seaports
 - **Prathvi Thumbi Narasimha (National Institute of Technology Karnataka, Surathkal)**
- Factors influencing the level of vegetable value chain participation and implications on smallholder farmers in Swayimane KwaZulu-Natal
 - **Phiwokuhle Ndlovu (University of KwaZulu - Natal)**
- The general equilibrium impacts of different carbon tax revenue recycling options in China: A perspective of green technological progress
 - **Yuanhua Chang (Renmin University of China)**
- Consumption-based CO2 emission and mitigation strategy: a case of South Korean provinces
 - **Jintae Kim (Seoul National University)**

P49: Environmental impact and resource management issue (poster)

09:00 – 11:00

- Forest-based livelihood choices: changing patterns and determinants in Western Ghats, Kerala, India
 - **Merlin Mathew (Vellore Institute of Technology)**
 - K. B. Umesh (University of Agricultural Sciences Bengaluru)





- The relevance between livelihood resilience and potential household food security conditions in a disaster-prone area
 - **Shuyu Han (Tohoku University)**
- Sensitivity and Adaptive Capacity of Small-scale Fishers in Guimaras to Fisheries Decline
 - **Louie Marie Eluriaga (University of the Philippines Visayas)**
- Coexistence of pedestrians, bicycles, and cars in residential streets based on the stated preferences in Portland, Oregon
 - **Noriaki Kondo (Research Center for Sustainability and Environment, Shiga University)**
- Understanding public tolerance differences toward lethal wildlife management using best-worst scaling approach
 - **Zijun Yin (Graduate School of Agricultural Science, Tohoku University)**

S51: Carbon emission and energy transition (1)

13:00 – 15:00

Chair: Tetsuo Arie (JCCP)

- Screening carbon peaking pathways in Guangzhou city: A bottom-up analysis
 - **Guanyang Luo (South China University of Technology)**
- * Discussant: **Bishal Bharadwaj (University of Queensland)**
- Forecasting sectoral greenhouse gas emissions for a global panel
 - **Lukas Vashold (Vienna University of Economics and Business)**
- * Discussant: **Tetsuo Arie (JCCP)**
- Ecotourism & Energy Access: Panel data evidence from the high Himalayas
 - **Bishal Bharadwaj (University of Queensland)**
- * Discussant: **Guanyang Luo (South China University of Technology)**
- Carbon emissions and oil production with noble chemical production
 - **Tetsuo Arie (JCCP)**
- * Discussant: **Lukas Vashold (Vienna University of Economics and Business)**

S52: Carbon pricing (1)

13:00 – 15:00

Chair: Thang Do (Australian National University)

- Trust in Government and Public Acceptability for Malaysian Carbon Tax: A Pre-Implementation Policy Study
 - **Izlawanie Muhammad (Universiti Sains Islam Malaysia)**
- * Discussant: **Thang Do (Australian National University)**





- Does Emissions Trading Scheme Induce Innovation and Carbon Leakage? Evidence from Japan
 - **Guanyu Lu (Waseda University)**
- * Discussant: **Izlawanie Muhammad (Universiti Sains Islam Malaysia)**
- Carbon pricing in Vietnam: Options for adoption
 - **Thang Do (Australian National University)**
- * Discussant: **Guanyu Lu (Waseda University)**

S53: Environmental governance and sustainable development (1) 13:00 – 15:00

Chair: Pankaj Koirala (Institute for Frontier Studies - IFS)

- Direct regulatory measures or economic tools which tool achieves environmental goals?
 - **Doron Lavee (Tel Hai College)**
- * Discussant: **Eric Yan (National Cheng Kung University, Taiwan)**
- The Effect of Responsible Tourism Management on Business, Community and Visitors
 - **Akarapong Untong (Maejo University)**
- * Discussant: **Pankaj Koirala (Institute for Frontier Studies - IFS)**
- Welfare and Productivity of the Chinese Regional Economy under Forced Technology Transfer in the Post-intervention Period of the Green Credit Policy
 - **Luke Okafor (University of Nottingham Malaysia)**
 - **Eric Yan (National Cheng Kung University, Taiwan)**
- * Discussant: **Doron Lavee (Tel Hai College)**
- Resource sustainability on life expectancy, successors and accountability
 - **Pankaj Koirala (Institute for Frontier Studies - IFS)**
- * Discussant: **Akarapong Untong (Maejo University)**

S54: Climate change and fisheries

13:00 – 15:00

Chair: Moe Sin (Universiti Malaysia Terengganu)

- Natural resource management and nutrition outcomes: a quasi-experimental evaluation of fisheries decentralization in Laos
 - **Benjamin Chipperfield (Monash University)**
- * Discussant: **Moe Sin (Universiti Malaysia Terengganu)**
- The Impact of Marine Litter on Production Risk and Technical Efficiency in the Trawl Fisheries of Vietnam
 - **Ngoc Quach Thi Khanh (Nha Trang University)**
- * Discussant: **Benjamin Chipperfield (Monash University)**





- Fishery Resource Evaluation and Sustainable Management: The Case of Trawl Fisheries in Selangor and Perak States, West Coast of Peninsular Malaysia
 - **Moe Sin (Universiti Malaysia Terengganu)**

* Discussant: **Ngoc Quach Thi Khanh (Nha Trang University)**

S55: Air pollution, environment and development

13:00 – 15:00

Chair: Ngawang Dendup (Waseda University)

- Economic cost of mitigating Household Air Pollution - A study of households in rural West Bengal, India
 - **Mriduchhanda Chattopadhyay (University of Petroleum & Energy Studies)**
- * Discussant: **Ngawang Dendup (Waseda University)**
- Local Government Environmental Budget Performance on Air Pollution in Indonesia: Evidence from Near Real-Time Satellite Data
 - **Ega Kurnia Yazid (Centre for Strategic and International Studies, Indonesia)**
 - **Muhammad Faiz Zaidan Alharkan (Universitas Gadjah Mada, Indonesia)**
- * Discussant: **Mriduchhanda Chattopadhyay (University of Petroleum & Energy Studies)**
- Electricity and Social Capital: An Evidence from Rural Electrification Program
 - **Ngawang Dendup (Waseda University)**
- * Discussant: **Ega Kurnia Yazid (Centre for Strategic and International Studies, Indonesia)**

S56: Environmental impact and disaster management

13:00 – 15:00

Chair: Satoshi Honma (Tokai University)

- Natural Disaster & Assets Recovery: Empirical Evidence from Nepal's Earthquake
 - **Nirmal Kumar Raut (Tribhuvan University)**
- * Discussant: **Gaurav Bhattacharya (Ahmedabad University)**
- Institutional Redundancy and Charge & Sentence Disparity in the Enforcement of Illegal Fire Use in Land Management in Indonesia
 - **Fikri Muhammad (Albert-Ludwigs-Universität Freiburg & Monash Sustainable Development Institute)**
- * Discussant: **Satoshi Honma (Tokai University)**
- Welfare Effects of Catastrophic Climate Events on Mountain Communities: A Case Study of the Uttarakhand Flash Floods
 - **Gaurav Bhattacharya (Ahmedabad University)**
- * Discussant: **Nirmal Kumar Raut (Tribhuvan University)**





- The environmental efficiency of Japanese regions before and after the Great East Japan Earthquake

- **Satoshi Honma (Tokai University)**

* Discussant: **Fikri Muhammad (Albert-Ludwigs-Universität Freiburg & Monash Sustainable Development Institute)**

S61: Carbon emission and energy transition (2)

15:15 – 17:15

Chair: Aileen Lam (University of Macau)

- Economic and environmental impacts of energy management instruments: the Virtual Power Plant business in Japan

- **Yiyi Ju (Waseda Institute for Advanced Study, Waseda University)**

* Discussant: **Aileen Lam (University of Macau)**

- Energy efficiency comparison and decarbonization simulation of transportation structure adjustment in China

- **Wenjun Xiao (South China University of Technology)**

* Discussant: **Yiyi Ju (Waseda Institute for Advanced Study, Waseda University)**

- Evidence for a global electric vehicle tipping point

- **Aileen Lam (University of Macau)**

* Discussant: **Wenjun Xiao (South China University of Technology)**

S62: Carbon pricing (2)

15:15 – 17:15

Chair: Budy P. Resosudarmo (Australian National University)

- Allocation of carbon emissions quotas across Chinese Provinces by ZSG-DEA model

- **Yue Lin (Kyoto University)**

* Discussant: **Qingjun Liu (College of Economics, Jinan University)**

- A study on the difference in the carbon tax regimes

- **Ming-Chung Chang (Chihlee University of Technology, Taiwan)**

* Discussant: **Budy P. Resosudarmo (Australian National University)**

- The cost saving effects of carbon emission trading for China's power companies

- **Qingjun Liu (College of Economics, Jinan University)**

- **Myunghun Lee (Department of International Trade, Inha University)**

* Discussant: **Yue Lin (Kyoto University)**





- Should carbon tax revenues be earmarked for renewable energy development: the case of countries in East Asia region
 - **Budy P. Resosudarmo (Australian National University)**
- * Discussant: **Ming-Chung Chang (Chihlee University of Technology, Taiwan)**

S63: Environmental governance and sustainable development (2) 15:15 – 17:15

Chair: **Hyungna Oh (College of International Studies at Kyung Hee University)**

- Willful ignorance: a meta-analytic review
 - **Linh Vu (University of Amsterdam)**
- * Discussant: **Ce Jia (Renmin University of China)**
- Big data analysis on the dynamic of Global Environmental Governance: climate discourse from adoption to implementation of Paris Agreement
 - **Joohee Kim (Ewha Womans University)**
 - **Yoomi Kim (Ewha Womans University)**
- * Discussant: **Hyungna Oh (College of International Studies at Kyung Hee University)**
- Will polluting firms reduce emissions under air quality alert? Evidence from China's industrial firm
 - **Ce Jia (Renmin University of China)**
- * Discussant: **Linh Vu (University of Amsterdam)**
- Green Recovery and Green Jobs
 - **Hyungna Oh (College of International Studies at Kyung Hee University)**
- * Discussant: **Joohee Kim (Ewha Womans University)**

S64: Energy efficiency, and green innovation

15:15 – 17:15

Chair: **Hongyan Zhang (China University of Petroleum - East China)**

- Will environmental tax stimulate green innovation? Analysis in a general equilibrium framework and evidence from Chinese enterprises
 - **Qun Zhu (Graduate School of Social Science, Waseda University)**
 - **Kenichi Akao (Waseda University)**
- * Discussant: **Hongyan Zhang (China University of Petroleum - East China)**
- Analyzing the Economic Effects of Energy Efficiency Resource Standards in Korea
 - **Heeyoung Shin (Seoul National University Graduate School of Environmental Studies)**
- * Discussant: **Qun Zhu (Graduate School of Social Science, Waseda University)**





- Subsidies on R&D, specialization, and energy innovation
 - **Hongyan Zhang (China University of Petroleum - East China)**
- * Discussant: **Heeyoung Shin (Seoul National University Graduate School of Environmental Studies)**

S65: Water and land management

15:15 – 17:15

Chair: Kamal Vatta (Punjab Agricultural University)

- A temporal and spatial assessment of water stress with Water Poverty Index: a case study of Rajasthan
 - **Suchitra Pandey (Birla Institute of Technology and Science, Pilani)**
- * Discussant: **Kamal Vatta (Punjab Agricultural University)**
- Wetlands restoration with bio-remediation and phytoremediation
 - **Umamaheshwari Chakilum (Sri Sri Institute of Agriculture sciences and Technology Trust)**
- * Discussant: **Suchitra Pandey (Birla Institute of Technology and Science, Pilani)**
- Ensuring Long-term Sustainability of Water, Energy and Agriculture Nexus: A Case of Indian Punjab
 - **Kamal Vatta (Punjab Agricultural University)**
- * Discussant: **Umamaheshwari Chakilum (Sri Sri Institute of Agriculture sciences and Technology Trust)**

S66: COVID-19, health and environmental issue

15:15 – 17:15

Chair: Amrita Ghatak (Gujarat Institute of Development Research)

- Health benefit from action of Blue-Sky Defense War Policy during 2018 to 2020 in Chengdu city
 - **Suli Li (South China University of Technology)**
- * Discussant: **Jhayvan Eve Quito (University of the Philippines Visayas)**
- Peers' Behavior or Common Shocks: Evidence from COVID-19 vaccine take-up
 - **Ao Liu (Kyoto University)**
- * Discussant: **Amrita Ghatak (Gujarat Institute of Development Research)**
- Estimating the loss economic value due to COVID-19 pandemic: a case study of Puerto Princesa underground river (PPUR), Philippines
 - **Danielle Anne Garcia (University of the Philippines Visayas)**
 - **Jhayvan Eve Quito (University of the Philippines Visayas)**
 - **Louie Marie Euriaga (University of the Philippines Visayas)**
 - **Rodelio F. Subade (University of the Philippines Visayas)**



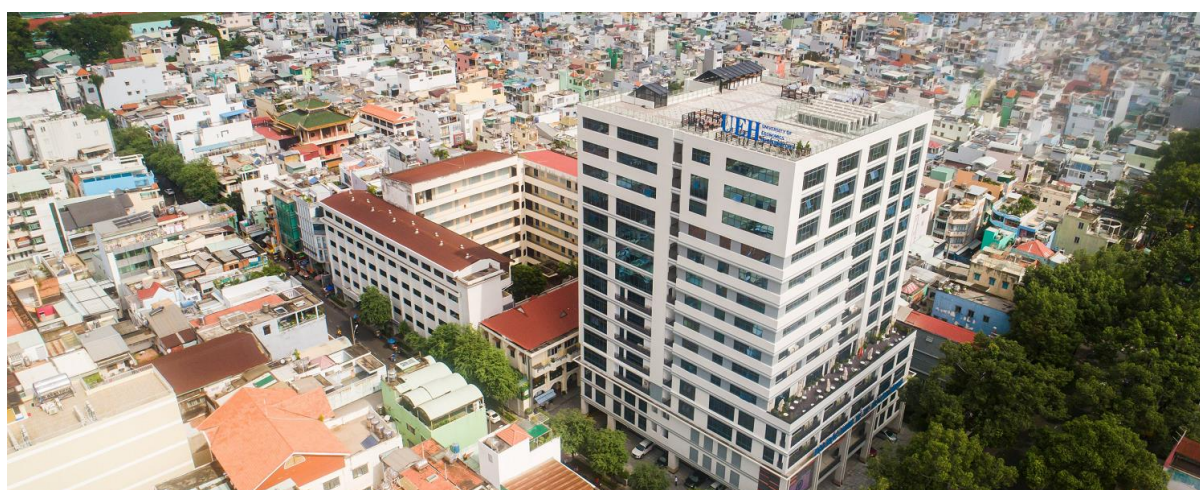
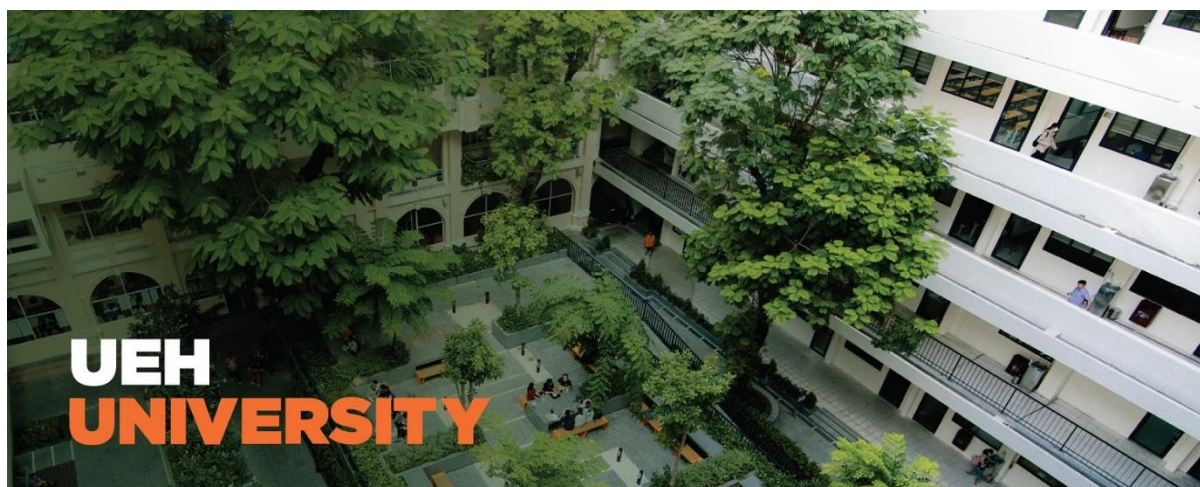


- * Discussant: **Suli Li (South China University of Technology)**
- Economic Implications of Air Pollution Related Non-Communicable Diseases on Urban Households in India
 - **Amrita Ghatak (Gujarat Institute of Development Research)**
- * Discussant: **Ao Liu (Kyoto University)**





Venue



University of Economics Ho Chi Minh city (UEH University)

Campus 279 Nguyen Tri Phuong, District 10, Ho Chi Minh city, Viet Nam ([Maps](#))

The University of Economics Ho Chi Minh City (UEH) was established in 1976. It is one of Vietnam's top universities and was the first public school to implement an autonomous system to become a research-oriented university providing high-quality education of an international standard, to satisfy the increasing demands of society. Since its creation, UEH has qualified more than 200,000 officials, executives and businesspeople, thereby affirming its quality and reputation and receiving social recognition.

UEH provides students with a professional undergraduate and research environment that enables graduates to compete in and adapt to the global economy. The university employs highly qualified professors and lecturers and has a strong reputation in the sciences because of its international research capacity. In addition, the university regularly cooperates with regional and international universities and organizations to keep up-to-date with trends in education, training and research. The training process is closely connected with enterprises and society, and good relationships are maintained with regional and international universities. Further, the University provides cutting-edge equipment and facilities to enhance students' learning and research needs.





By 2025, UEH aims to become one of world's most prestigious multidisciplinary institutions in training and research, as well as business, financial, legal, managerial and technological consultancy, by contributing to the general development of Vietnam, the Association of Southeast Asian Nations and the rest of the world.

Transportation



To the AAERE 2022 Congress Venue (279 Nguyen Tri Phuong, District 10, Ho Chi Minh city) from the airport (Tan Son Nhat International Airport) ([Maps](#))

- 1) By motorbike/car/taxi: From TSN Airport, take Truong Son, Tran Quoc Hoan to Ut Tich in Ward 4. Then follow Ut Tich to Hoang Sa, and take Bac Hai and Thanh Thai to Nguyen Tri Phuong in Ward 4. You shall arrive at UEH Campus B where hosts the AAERE 2022 Congress. The trip will take approximately 25 minutes
- 2) By bus: From TSN Airport, take Bus Line 152 to Trung Son Residential Area to 65 Tran Quoc Hoan Street. Then, take Bus Line 59 to 279 Nguyen Tri Phuong, you'll reach UEH Campus B. The trip will take approximately 1 hour.

To the [UEH Hotel](#) from the airport (Tan Son Nhat International Airport) ([Maps](#))

- 1) By motorbike/car/taxi: From TSN Airport, take Truong Son, Nguyen Van Troi and Nam Ky Khoi Nghia Streets to Tran Quoc Toan Street in Ward 7. Then, take Vo Thi Sau to Alley 232 Vo Thi Sau, UEH Hotel will be on the right. The trip will take approximately 15 minutes
- 2) By bus: From TSN Airport, take Bus Line 152 to Trung Son Residential Area to 201 F-E Nam Ky Khoi Nghia Street. Then, walk about 8 mins (700m), you'll reach UEH Hotel. The trip will take approximately 45 mins.

To get around town, visitors can take advantage of the following services:

- 1) Transit: Bus lines 05, 28, 30, 36, 45, 150, 152. For more information, download [Go!Bus](#).
- 2) Taxi: Vinasun Taxi (+84 28 27 27 27 27) or Mai Linh Taxi (+84 28 38 38 38 38)
- 3) Ride-hailing services: GoDee (Shuttle Bus), Grab, BE, Gojek





Accommodation



Visitor to Ho Chi Minh city could search for accommodation near the AAERE 2022 Congress Venue (279 Nguyen Tri Phuong, District 10, Ho Chi Minh city) by looking at services such as [booking.com](https://www.booking.com) or [agoda.com](https://www.agoda.com) or [Airbnb.com](https://www.airbnb.com) or staying at the [UEH Boutique Hotel](https://uehboutiquehotel.com).

UEH Boutique Hotel

UEH Boutique Hotel under the University of Economics Ho Chi Minh City (UEH) is the first “knowledge hotel” in Vietnam for guests staying domestically and internationally. Its mission is to bring you exciting and different experiences in the intellectual, quiet and comfortable space between the center of Saigon (Ho Chi Minh city), connecting the community with the educational environment and activities, entertainment and cultural exchange.

The hotel located in the heart of District 3 about 5km from Tan Son Nhat International Airport is a great place to move to educational institutions, administrative centers, locations famous entertainment and tourism in Ho Chi Minh City within a radius of 3km. The distance from UEH Boutique Hotel to the AAERE 2022 Congress Venue is about 4km.

Whether you are looking for a place to bring peace of mind to your business trips; a quiet space to rest, focus on work and research or have an enjoyable vacation in the largest city in Vietnam, your experience at UEH Boutique Hotel will be surely memorable.

Address: 232/6 Vo Thi Sau, District 3, Ho Chi Minh city, Vietnam ([Maps](#))

Hotels around

You can search for a hotel near the Congress venue (279 Nguyen Tri Phuong, District 10, Ho Chi Minh city, Viet Nam) or you can look for somewhere near downtown (District 1) of this vibrant city. It would be about 4km from downtown to the congress venue. In District 5 & District 10 near the event venue, there are also some good hotels such as [Equatorial](#), [Nikki Saigon](#), or [Windsor](#). You can take a taxi or Ride-hailing services to the Congress venue.

The Economy & Environment Partnership for Southeast Asia (EEPSEA) and UEH University have negotiated with the [Windsor Hotel](#). They agree to offer a reasonable price for a room at 65 USD (about 1.5 million VND) per night for participants in the Congress.





Others

Sim Cards & Helpful Numbers

Getting a local SIM card in Vietnam is fast and inexpensive. There are three major GSM network operators in Vietnam, and all have good coverage: Mobifone, Viettel and Vinaphone.

You can buy prepaid SIM cards on arrival at major airports, as well as from countless shops across the country. You will need to show your passport to register your SIM card. Prices for SIM cards, SMS messages and phone calls are extremely affordable within Vietnam. You can load your phone credit in increments from 20,000 VND to 100,000 VND on most networks. Data-only SIM cards may cost 100,000 VND to 200,000 VND depending on the amount of data purchased.

Here are few numbers you may need while in Vietnam:

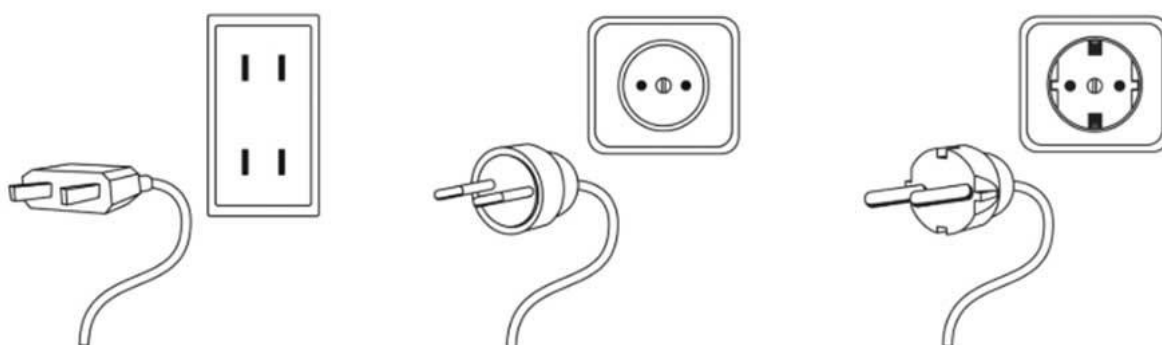
- International Dialing Code: +84
- Domestic Calls (within Vietnam): 0 + Area code + Telephone No.
- International Calls (outside Vietnam): 00 + Country code + Area code + Telephone No.

The following is a list of useful telephone numbers to have on hand when visiting Vietnam:

- +84: International Dialing Code
- 101: Domestic Long Distance Telephone Service
- 1080: Social and Cultural Information
- 110: International Telephone Service
- 113: Police
- 114: Fire Brigade
- 115: Ambulance

Power Plugs

The voltage supply in Vietnam is 220 volts. Most sockets accommodate plugs with two round prongs. If you need adaptors, you can find them at any electrical shop, or ask your hotel for assistance. Power cuts and surges are not common but can happen from time to time depending on the location.





Internet & Postal Services

Vietnam is well-wired and, in most destinations, you can easily find a connection in cafes, spas, shops, hotels and restaurants. Free public Internet access is available in several tourist hubs and major airports. Local 4G packages are an affordable option if you plan to visit remote areas or need to be online frequently.

The Vietnamese postal service is generally reliable, although packages can take longer to arrive than expected and are often held at the post office for pick-up. Mailboxes are uncommon. If you are sending postcards home, give them to your hotel to mail or send them directly from a post office.

Currency

Vietnam's unit of currency is the Vietnamese đồng (VND), represented by the '₫' symbol. You can find notes in denominations of 1,000₫, 2,000₫, 5,000₫, 10,000₫, 20,000₫, 50,000₫, 100,000₫, 200,000₫, and 500,000₫. For newcomers it can be helpful to ignore the final three zeros until you get the hang of the conversion.

Cash is generally used for small purchases; however, most establishments will accept payments from major credit card providers such as Visa or Master. In addition, hotels, tour operators, boutiques, restaurants, and grocery stores generally accept international debit and credit cards.

If you need to change money, currency exchange counters are available at airports, banks, and official exchange centers. Travelers can also use ATMs instead of currency exchange points. ATMs are widely available across the country. Maximum withdrawals for foreign cards are usually two or three million per transaction.

