DAY 1 – WEDNESDAY, 11 JUNE 2025

9:00 - 9:30
Registration & Coffee

9:30 - 10:10

Opening Session

Moderator and Introduction to the 43rd IEW:
Massimo Tavoni (EIEE)
Opening remarks:
Dr. Kenji Yamaji (RITE)
Presentation:
Dr. Keigo Akimoto (RITE)

Location:
Traditional Japanese Noh Theater

10:10 - 11:30

Plenary Session 1

Challenges of Energy Transition toward Carbon Neutrarity
Moderator:
Geoffrey Blanford (EPRI)
Presentation:
Prof. Diana Ürge-Vorsatz (CEU)
Prof. Yukari Yamashita (IEEJ)

Location:
Traditional Japanese Noh Theater

11:30 - 12:30 Lunch

12:30 - 14:10
Parallel Session 1

- Energy Modelling-Incorporating Climate
- Transition-Strategies
- Demand-Side Measures
- Transition-Infrastructure
- Energy Access, Poverty, Justice, Energy Security

14:10 - 14:40

Coffee Break

14:40 - 16:00
Parallel Session 2

- Energy Modelling-Spatial Perspective, Energy Modelling-Advancing Modelling Methodology
- Transition-Strategies
- Energy/Climate Policy
- Sectoral Pathways-Transport
- Energy Access, Poverty, Justice, Energy Security

16:10 - 17:10

Parallel Session 3

- Transition-Infrastructure
- Transition-Case Study
- Transition-Global South
- Critical Materials
- Energy/Climate Policy

17:40 - 19:40
Welcom Dinner @ Iraka

Parallel Session 1

12:30 - 14:10, June 11 (Wed)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
Energy Modelling-Incorporating Climate	**Transition-Strategies**	**Demand-Side Measures**	**Transition-Infrastructure**	**Energy Access, Poverty, Justice, Energy Security**
Chair: Atsushi KUROSAWA **IAE**	**Chair: Ken WADA** **RITE**	**Chair: Volker KREY** **IIASA**	**Chair: Keigo AKIMOTO** **RITE**	**Chair: Sumie NAKAYAMA** **J-Power**
Planning energy systems resilient to climate change: identification of future extreme events and analysis on cost and technologies. **Francesco DE MARCO** **ETH Zurich**	Exploring Strategies and Technology Sensitivities in Japan's Net-Zero Energy Supply Transition **Eamon FRAZER** **The University of Tokyo**	Low Energy and Material Demand (LEMD) strategies for residential sector decarbonization in an ageing society: a scenario study for Japan **Tao CAO** **The University of Tokyo**	Bridging Continents: Analyzing Emission Allocation and Trade Dynamics in the Energy Transition of Europe and Africa **Amir FATTAHI** **TNO, Utrecht University**	Rural electricity access – method and policy insights through a multi-modelling approach applied to East Africa contexts **Erik AHLGREN** **Chalmers University of Technology**
Designing Robust Energy Systems Under Weather Uncertainty and Nuclear Power Outages: A Case Study in Northern Europe **Kamran FORGHANI** **Chalmers University of Technology**	Analysis of Decarbonization Strategies using a Global Energy System Model considering Innovative Synthetic Methane Production Technology **Yuna ISHIDA** **The University of Tokyo**	More benefits with lower demand-Quantifying the co-benefits of energy demand measures in the Residential building sector **Souran CHATTERJEE** **University of Plymouth**	Developing E-Methane Value Chain and Proper GHG Accounting Rules to Incentivize Recycled Carbon Fuels **Ryota KUZUKI** **The Japan Gas Association**	Bridging decent living gaps in mitigation scenarios: a multi-model study for the residential sector in India **Alessio MASTRUCCI** **International Institute for Applied Systems Analysis (IIASA)**
Assessing Climate Impacts by Integrating a Global CGE Model with Regional, Sector-Specific Damage Functions **Eun Young KIM** **Yonsei University**	Long Duration Energy Storage for Electricity System Decarbonization **Todd LEVIN** **Argonne National Laboratory**	Intermittent production of electricity-based synthetic jet fuel as a demand-side management strategy for grid decarbonization **Oleg LUGOVOY** **OptimalSolution LLC**	Carbon Intensity Analysis on e-methane and Hydrogen Carriers Shipped by Supply Chains of International and Domestic Production **Yuki ISHIMOTO** **The Institute of Applied Energy**	Using Willingness to Pay can misguide energy policy design in developing countries with unstable electricity supply: Evidence from Benin **Michael Adu OKYERE** **Clean Air Task Force**
	Net-Zero by 2050: Evaluating Energy Efficiency and Sufficiency Contributions in Europe Using PyPSA-EUR **Muhammad Umair TAREEN** **University of Liege**	Estimating the Nonlinear Temperature Sensitivity of Residential Electricity Demand under Measurement Errors **Kyungsik NAM** **Hankuk University of Foreign Studies**	Evaluating Interstate Gas Infrastructure in the Energy Transition: A Switch-Gas Model Approach **Rangrang ZHENG** **Fulbright University Vietnam**	Bridging the Gap: A Novel M2/LIHC Hybrid Indicator Unveils Energy Poverty Dynamics -- case study of the Czech Republic **Matej OPATRNY** **Charles University**
		Method and Estimation of Cross-sectoral Mitigation Potential of Demand Side Solutions **Ninaad DESAI** **Asian Institute of Technology(AIT)**	Approach to setting the attribution of CO2 reductions for CCU fuels — Toward a system counting fuel selection as an emission reduction effort **Naoki MATSUO** **Institute for Global Environmental Strategies (IGES)**	

Parallel Session 2

14:40 - 16:00, June 11 (Wed)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
Energy Modelling-Spatial Perspective, Energy Modelling-Advancing Modelling Methodology	**Transition-Strategies**	**Energy/Climate Policy**	**Sectoral Pathways-Transport**	**Energy Access, Poverty, Justice, Energy Security**
Chair: Fuminori SANO **RITE**	**Chair: Ken WADA** **RITE**	**Chair: Miyuki NAGASHIMA** **RITE**	**Chair: Shunsuke MORI** **Tokyo University of Science**	**Chair: Naoko ONISHI** **RITE**
Is wind power deployed where it is windiest? Implications for analyzing energy futures. **Carin LUNDQVIST** **Chalmers University of Technology**	Pathways to Climate Neutrality: Europe's Energy Transition under the Green Deal **Steven Sergij SALIM** **TNO**	An Analytical Study on Changes in Scenarios of IEA's World Energy Outlook **Sumie NAKAYAMA** **J-POWER / Kyoto University**	Navigating the Green Transition: Evaluating the Cost-Effectiveness of EU Shipping Decarbonization Under Different Policies **Maria de OLIVEIRA LAURIN, Gonzalo OTT CRUZ** **Chalmers University of Technology/Lulea Technical University LTU**	Give me Equity or Give me Death: Contrasting Metrics for Multi-Objective Capacity Expansion Modeling **Jordan FRENCH** **University of Texas at Austin**
Addressing long-term uncertainties in the Norwegian energy system: A cost-driven scenario generation approach **Celine PAGNIER** **Norwegian University of Science and Technology**	Long-term heat storage and non-linear district heating behaviour in large-scale energy system modelling **Amos SCHLEDORN** **Technical University of Berlin**	Application Of Extended The Theory Of Planned Behavior On Renewable Energy Investment: Considering Multiple Environmental Policies Mixes **Shichang ZHANG** **Hong Kong University of Science and Technology**	Evolving Bilateral Shipping in Climate Scenarios: Coupling Econometrics with Integrated Assessment Model **Hesam NAGHASH** **Delft University of Technology**	Is nuclear power reliable: A comprehensive analysis of unplanned nuclear power outages **Xiaoming KAN** **Chalmers University of Technology**
High sensitivity to methodological choices when integrating social acceptance data in electricity system modeling **Evelina TRUTNEVYTE** **University of Geneva**	Assessing the economy-wide effect of localizing renewable energy value chains in South Africa **Julia TATHAM** **Energy Systems Research Group**	Experience alters response: Patterns in Energy Efficiency Investments **Ingmar HEIKENS** **TNO**	Where, When, and Why: Electric Vehicle Charging Patterns that Support the Electricity System Transition **Siobhan POWELL** **ETH Zürich**	Accelerating offshore wind development enhances energy security and promotes carbon neutrality in China's coastal regions **Jiang LIN** **University of California, Berkeley**
	How feasible are modeled electricity system transition pathways to achieve zero CO2 emission target considering societal factors? An optimization-based modeling case study in 31 **Xin WEN** **University of Geneva**	Retrospective of Prospective Exercises: A Chronicle of Long-Term Modelling and Energy Policymaking in France **Nadia MAÏZI** **MINES Paris-Paris Science et Lettres University**	Techno-economic assessment of low-carbon ammonia as fuel for the maritime sector **Wouter Christiaan SCHREUDER** **University of Amsterdam**	

Parallel Session 3

16:10 - 17:10, June 11 (Wed)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
Transition-Infrastructure	**Transition-Case Study**	**Transition-Global South**	**Critical Materials**	**Energy/Climate Policy**
Chair: Yukari YAMASHITA **IEEJ**	**Chair: Amir FATTAHI** **TON**	**Chair: Souran CHATTERJEE** **University of Plymouth**	**Chair: Atsushi KUROSAWA** **IAE**	**Chair: Sumie NAKAYAMA** **J-Power**
PyPSA-DE: Open-source German energy system model reveals savings from integrated planning for the energy transition **Michael LINDNER** **Technical University Berlin**	Assessing the disruptive uncertainties in carbon sequestration and utilization Finland's energy system net-zero transition **Farzin AHMADI** **Aalto University**	Exploring global fuel price uncertainty in long-term energy-economic modelling: A two-world framework for national decarbonization planning **Tara CAETANO** **University of Cape Town**	Critical Minerals Recovery Potential from Renewable Energy E-Waste: Opportunities and Challenges in Southeast Asia **Justin LARSON** **RTI International**	Green Alert: Collateral Constraints in the Low-Carbon Transition **Armon REZAI** **Vienna University of Economics and Business**
Maximal Electrification with a Minimal Methanol Economy: A Solution for Deep Decarbonisation **Tom BROWN** **Technical University Berlin**	Health Co-Benefits of Energy Transition: Evidence from Chinese counties **Yan GUO** **Chengdu University Of Technology**	Computation of weighted average cost of capital (WACC) in the power sector for African countries and the implications for country-specific electricity technology cost **Brian MUKHAYA** **Clean Air Task Force**	Analysis of the global potential for recycling critical minerals from electric vehicle batteries in net-zero emissions scenarios **Ayami HAYASHI** **Research Institute of Innovative Technology for the Earth (RITE)**	Economic and Distributional Impacts of Carbon Pricing in Egypt **Govinda TIMILSINA** **World Bank**
Modeling the Impact of Hypothetical Power Trade Between Japan and Korea **Haein KIM** **Yonsei University**			Demand-side strategies can mitigate critical materials supply bottleneck in solar photovoltaic deployment: A dynamic integrated assessment framework **Yuning ZHANG** **Hunan University**	The Role of Projects of Common Interest in Reaching Europe's Energy Policy Targets **Bobby XIONG** **Technische Universitat Berlin**

DAY 2 – THURTHDAY, 12 JUNE 2025

9:00 - 9:30
Registration & Coffee

9:30 - 10:50

Plenary Session 2

Plenary Session 2: Policy-Energy Modelling Linkage
Moderator:
Keigo Akimoto
Presentation:
Dr. Leonardo Paoli (IEA)
Dr. Ananth Chikkatur (Deloitte)

Location:
Traditional Japanese Noh Theater

11:00 - 12:20

Parallel Session 4

- Energy Modelling-Advancing Modelling Methodology
- Transition-Case Study
- Transition-Economics
- Energy Access, Poverty, Justice, Energy Security
- Sectoral Pathways-Transport

12:20 - 13:20 Lunch

13:20 - 15:00
Parallel Session 5

- CDR
- Transition-Case Study
- Demand-Side Measures
- Role of Hydrogen
- Sectoral Pathways-Industry, Sectoral Pathways-Buildings

15:00- 15:30

Coffee Break

15:30 - 16:10
ETSAP & Parallel Session 6

- ETSAP
- Transition-Strategies
- Transition-Infrastructure
- Role of Hydrogen
- Critical Materials

16:20 - 17:20

Parallel Session 7

- Energy/Climate Policy, Circular Economy
- Transition-Case Study
- Transition-Economics
- Critical Materials
- VRE

17:20
Move to Nara Hotel by walking

18:20 - 20:20
Official Dinner @ Nara Hotel

Parallel Session 4

11:00-12:20, June 12 (Thr)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
Energy Modelling-Advancing Modelling Methodology	**Transition-Case Study**	**Transition-Economics**	**Energy Access, Poverty, Justice, Energy Security**	**Sectoral Pathways-Transport**
Chair: Jubair SIEED **RITE**	**Chair: Joni JUPESTA** **IPB University**	**Chair: Ryuji MATSUHASHI** **The Tokyo University**	**Chair: Joyashree ROY** **AIT**	**Chair: Nan ZHOU** **LBNL**
Shared Responsibilities and Information Asymmetry at the Energy Modelling-Policy Interface: A Principal-Agent Perspective **Franziska BOCK** **Delft University of Technology**	Committed oil projects lock African countries into additional economic losses **Rebecca DRAEGER** **Universidade Federal do Rio de Janeiro, Brazil(Coppe)**	Implications of Alleviating Unreliable Electricity Supply for Energy Poverty: Evidence from Households in Benin **Prudence DATO** **Clean Air Task Force**	The Energy Trade Network Structure and Risks **Marten BRIENEN** **Oklahoma State University**	The Effect of Subway Policies on Gasoline Consumption: Subway Expansion versus Fare Changes **Antung LIU** **Indiana University**
An Integration of Dynamic Input-Output Analysis and Power Expansion and Operation Planning Model for the Evaluation of the Effects of New Technologiesa **Shunsuke MORI** **Tokyo University of Science**	Multi-level emission impacts of electrification and coal pathways in China's netzero transition **Chen GONG** **Potsdam Institute for Climate Impact Research**	A quantitative framework for operationalizing the concept of a "just transition". Assessing and ranking household vulnerability to climate change and the green transition based on administrative **Berend HOPMAN** **TNO**	Analysis of Electricity and Fuel Supply Resilience in Japan under Fuel Import Disruptions using Stochastic Dynamic Programming **Yuto HONDA** **The University of Tokyo**	Are EVs Cleaner Than We Think? Consequential Emissions of Electric Vehicle Adoption Are Lower Than Short-run Marginal Emissions Rates Indicate **Qian LUO** **Princeton University**
Does myopic foresight modeling better capture real-world electricity system transition? Hindcasting in 31 European countries **Hui SHEN** **University of Geneva**	Transforming energy: Assessing green ammonia production as a sustainable alternative to electricity exports in Lao PDR **Vignesh SRIDHARAN** **Imperial College London**	Green Transitions in Coal-Dependent Economies: A Hybrid Computable General Equilibrium Analysis of the Czech National Energy and Climate Plan **Inaki VERUETE VILLEGAS** **Charles University Environment Center**	Assessment of energy security indicators in Japan transition scenarios for net-zero emissions **Miyuki NAGASHIMA** **Research Institute of Innovative Technology for the Earth (RITE)**	Energy Implications of Autonomous Vehicles Adoption: A Multinational Comparative Study of Public and Private Uses **Camila CALLEGARI** **Federal University of Rio de Janeiro(UFRJ)**
The water-energy-mineral-land nexus: An interlinked global model of LCIA and IAM applicable to this century **Koji TOKIMATSU** **Institute of Science Tokyo**		Comprehensive national accounting for CO2 emissions under decarbonization pathways **Rintaro YAMAGUCHI** **National Institute for Environmental Studies (NIES)**	Identifying the Spatial Synchronization Patterns of Wind Energy Droughts under Climate Change in China's Grids **Qing WU** **The University of Hong Kong**	Can the installation of photovoltaics motivate households to adopt battery electric cars? **Milan ŠČASNÝ** **Charles University**

Parallel Session 5

13:20 - 15:00, June 12 (Thr)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
CDR	**Transition-Case Study**	**Demand-Side Measures**	**Role of Hydrogen**	**Sectoral Pathways-Industry, Sectoral Pathways-Buildings**
Chair: Koji TOKIMATSU **Institute of Science Tokyo**	**Chair: Francesco DALLA LONGA** **TON/University of Amsterdam**	**Chair: Alessio MASTRUCCI** **IIASA**	**Chair: Yuki ISHIMOTO** **The Institute of Applied Energy**	**Chair: Yoshiyuki SHIMODA** **RITE/Osaka University**
Carbon Capture and Storage in Indonesia's Energy Sector: A Least-Cost Optimization Approach **Anindhita** **Institute of Science Tokyo**	Net-zero compatible development pathways in Argentina, Brazil, China, India, Indonesia, Mexico and South Africa **Yann BRIAND** **Deep Decarbonization Pathways (DDP) Initiative Climate, Energy and Transport Expert**	Evaluating the Effectiveness of Muti-Sector Demand Response in Energy Planning Models **Trevor BARNES** **Simon Fraser University**	Exploring Hydrogen Trade Dynamics in South-East and East Asia under a 1.5°C Pathway **Maurizio GARGIULO** **E4SMA Srl**	Green Steel in Europe: Technological and Distributional Transition **Sebastian OSORIO** **Potsdam Institute for Climate Impact Research (PIK)**
The potential of BECCS and e-fuel from Oil Palm Residues in Southeast Asia **Joni JUPESTA** **IPB University**	Examining scenarios of low-carbon fuels exports from the United States with energy systems modeling **Aranya VENKATESH** **EPRI**	A Choice Experiment study to assess social benefits from citizens' proactive participation in Renewable Energy Communities **Giacomo LAI** **University of Cagliari**	Integrated Assessment of Korea's Future Hydrogen Trade for the 2050 Carbon Neutrality Target **Jiwon KWUN** **Korea Advanced Institute of Science and Technology(KAIST)**	Climate Clubs, Competitiveness Concerns, and Alternative Correction Measures **Ramiro PARRADO** **Centro EuroMediterraneo sui Cambiamenti Climatici-CMCC**
Accounting for carbon capture solvent cost and energy demand in the energy system **Markus MILLINGER** **RISE-Research Institutes of Sweden**	Integrating Aviation into Ireland's carbon budget: Pathways to Net-Zero in a Carbon-Constrained Future **Vahid ARYANPUR** **University College Cork**	PyPSA-BD for Strategic Power Sector Planning in Bangladesh with gradual Renewable Energy Penetration, end-use enhanced efficiency and demand-side flexibility **Firuz Ahamed NAHID** **Asian Institute of Technology(AIT)**	Advancing Local Energy Transitions: GIS-Based Optimization for Green Hydrogen Integration in Urban Systems **Stella Nadine STEIDL** **University Of Canterbury**	Building (or not building) Futuring Capacity in Japan's Energy and Climate Policymaking **Manuela HARTWIG** **The University of Tokyo**
Unpacking the bottlenecks of deploying Direct Air Capture at scale **Massimo TAVONI** **EIEE**	Global perspectives on economy-wide net-zero energy systems: A comparative analysis between the U.S. and Japan **Anahi MOLAR-CRUZ** **EPRI**	Global role of decentralized energy systems to decarbonize residential energy end-use **Arvind SRINIVASAN** **ETH Zürich**	Optimizing hydrogen deployment: a hybrid approach for coordinating hydrogen valley design with global energy systems and local constraints and opportunities. **Charles TANO** **Mines Paris-PSL- EDF- IFPEN**	Alleviating Energy Insecurity Through Clean Energy Technology **Xiaofeng YE** **University of Maryland**
Impact of long-term carbon budget uncertainty on the role of carbon dioxide removal in national energy transitions **Weipeng XIE** **University College Cork**	Regional Production Shift and Increased Utilization Dampen Coal Mine Methane Emissions in China **Jie ZHANG** **Lawrence Berkeley National Laboratory**	Peer Effects in Residential Energy Consumption **Kareman YASSIN** **Hitotsubashi University**	Electricity- and Hydrogen-Driven Energy System Sector-Coupling in Net-Zero CO2 Emission Pathways **Bob van DER ZWAAN** **TNO**	

Parallel Session 6 & ETSAP

15:30 - 16:10, June 12 (Thr)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
ETSAP	**Transition-Strategies**	**Transition-Infrastructure**	**Role of Hydrogen**	**Critical Materials**
Organizer:Brian Ó Gallachóir **University College Cork (UCC)**	**Chair: Takashi HOMMA** **RITE**	**Chair: Jubair SIEED** **RITE**	**Chair: Yuki ISHIMOTO** **The Institute of Applied Energy**	**Chair: Ayami HAYASHI** **RITE**
PANEL DISCUSSION **Title:** Why do energy systems modelling with TIMES? **Discussion Topics:** 1.What type of energy and climate policy questions is TIMES best suited to addressing based on your experience? 2.What are the key advantages from your experience of being within the TIMES modelling community (via ETSAP)? 3.What are the key strengths and limitations of the TIMES modelling software?	One Path to Rule Them All: Comparing Hydrogen, Biomass, and Electrification for Reaching Net Zero in New Zealand **Rafaella CANESSA** **University of Canterbury**	Feasibility Analysis of Nationwide Interconnected Electric Power Systems with an Optimal Power Generation Mix Model considering Data Center Power Demand **Naoki TANIGUCHI** **The University of Tokyo**	Optimizing Regional Hydrogen Energy Layout with Cost Variations in Renewable Hydrogen Production under Electricity-Hydrogen-Carbon Coupling **Yaxi LU** **Chengdu University of Technology**	Renewable Energy Deployment and Critical Minerals Scarcity in the Net-Zero Transition **Francesco DALLA LONGA** **TNO**
	Optimizing the global heat pump supply chain for net-zero transition **Can CUI** **ETH Zurich**	How to reduce the cost of synthetic fuels? A robust assessment of the key cost reduction levers **Johannes BRAUER** **Deloitte**	Hydropower for Hydrogen: Locating Cost-Effective Production Sites in Laos **Lukas SCHIRREN** **Imperial College London**	Near-optimal solutions for long-term energy planning facing the possible critical raw materials supply disruption **Matteo NICOLI** **Università degli Studi di Torino**

Parallel Session 7

16:20 - 17:40, June 12 (Thr)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
Energy/Climate Policy, Circular Economy	**Transition-Case Study**	**Transition-Economics**	**Critical Materials**	**VRE**
Chair: Masahiro SUGIYAMA **The University of Tokyo**	**Chair: Joni JUPESTA** **IPB University**	**Chair: Hiromi YAMAMOTO** **CRIPEI/Tohoku Univerisity**	**Chair: Anahi MOLAR-CRUZ** **EPRI**	**Chair: Yu NAGAI** **CRIEPI**
Simultaneous Tripling of Renewable and Nuclear Energy: Assessing Korea's Ambitious Clean Energy Goal using IPCC Scenario Database **Jiseok AHN** **Korea Institute of Energy Research**	Interactions between Climate Change Mitigation, Damages, and Adaptation: An Intertemporal Computable General Equilibrium Analysis for Ireland **Kelly DE BRUIN** **ESRI**	Energy Efficiency Pricing in Regulated Electricity Markets **Guiyoung JIN** **Hankuk University of Foreign Studies (HUFS)**	Raw materials for the green energy transition: Criticality of materials, technologies, and systems **Michaela SCHICHO** **Fraunhofer Institute for Systems and Innovation Research ISI**	Global Potential of Mine Photovoltaic Systems for Sustainable Energy Transition **Yang ZHANG** **Hong Kong University of Science and Technology**
Navigating uncertainty in the energy transition: Evaluating policy levers for robust decarbonization strategies **Antonio Francisco RODRIGUEZ-MATAS** **Comillas Pontifical University**	City energy transitions: Modelling policy alignments with sectoral integration at sub-city levels **Kushagra GUPTA** **Chalmers University of Technology**	Forest Sustainable and Economic Analysis Model (ForSEAM): Spatial and Temporal Optimization of Woody Biomass Harvesting for Low Carbon Resources **Lixia LAMBERT** **Oklahoma State University**	Sustainability in Energy Production: Water Recycle, Reuse and Resource Recovery **Somnath BASU** **Jewel Innovations in Energy and Environment**	Generalized levelized cost as a metric for explaining model behavior of linear programming-based energy systems models: Application to quantifying the integration costs of renewable **Takuya HARA** **IIASA, Toyota Motor Corporation**
Exploring Circular Economy Strategies for Decarbonizing Global Mobility Infrastructure **Volker KREY** **International Institute for Applied Systems Analysis (IIASA)**	Climate resiliency of high altitude hydropower of Nepal in a spatiotemporal resolution power sector model **Khem GYANWALI** **Tribhuvan University**	Carbon Emissions and the Transmission of Monetary Policy **Jose Nicolas ROSAS** **Universitat Pompeu Fabra**	Assessing Future Material Demand From The Power Sector Under Carbon And Water Constrained Scenarios, A Long-Term Study Conducted With Tiam-Fr **Marie, Thuong-Thuong CODET** **Center for Applied Mathematics-Mines Paris PSL**	A Spatiotemporally Resolved Optimization Model for Renewable Energy Integration to the Nigerian power system **Abayomi Ebenezer OLAWUMI** **Yokohama National University**
	Leaving Someone Behind: Coal Phase-Out in South Korea **Yeong Jae KIM** **KDI School of Public Policy and Management**	Trading models for Energy Communities: Optimisation of collective benefits under various scenarios for P2P trades **Laura WANGEN** **University Grenoble Alpes**	Towards Impact Assessment of Critical Minerals on Technology Choice in Light-Duty Vehicles **Atsuo KOMATSUBARA** **Toyota Central R&D Labs., Inc.**	Integrated Analysis of Variable Renewable Energy Deployment and Power Distribution in the Residential and Low-Voltage Sector **Ryosuke OSAWA** **The University of Tokyo**

DAY 3 – FRIDAY, 13 JUNE 2025

9:00 - 9:30
Registration & Coffee

9:30 - 10:30

Paralle Session 8

- VRE
- Sectoral Pathways-Transport
- Transition-Economics
- Role of Hydrogen

10:40 - 12:00

Plenary Session 3

Demand, Survice andSocial Asspect for Mitigation

Moderator:
Bob van der Zwaan (TON)
Presentation:
Prof. Joyashree Roy (AIT)
Dr. Geoffrey Blanford (EPRI)

Location:
Traditional Japanese Noh Theater

12:00 - 12:10 Closing remarks
12:10 - 13:00 Lunch
13:00 - Excursions

Next day June 14th (Sat)
Osaka Expo

Parallel Session 8

9:30 - 10:30, June 13 (Fri)

Traditional Japanese Noh Theater	Conference Room 1	Conference Room 2	Conference Room 3	Conference Room 4
VRE	**Sectoral Pathways-Transport**	**Transition-Economics**	**Role of Hydrogen**	
Chair: Yu NAGAI **CRIEPI**	**Chair: Yuko NAKANO** **RITE**	**Chair: Hiromi YAMAMOTO** **CRIPEI/Tohoku Univerisity**	**Chair: Souran CHATTERJEE** **University of Plymouth**	
Larger, but not faster: Diffusion of onshore wind power in late-adopting countries **Yodefia RAHMAD** **Chalmers University of Technology**	Are Heavy-Duty Vehicles at a Crossroads? A Real Options and Innovation Di¤usion Perspective on Hydrogen Fuel Cell vs. Battery Electric trucks **Oana IONESCU** **GAEL, Université Grenoble Alpes, Grenoble INP**	Production- and Consumption-Based Emissions: An International Comparison **Cagacan DEGER** **Economic and Social Research Institute (ESRI)**	Soft-linking ESM to a CGE model: prospects for a low-carbon and renewable fuels–powered economy **Ahmed ELBERRY** **University of Amsterdam-TNO**	
Representing policies in probabilistic projections: The cases of solar PV and onshore wind power in Europe **Nik ZIELONKA** **University of Geneva**	Steering Toward Net-Zero: An Integrated Assessment Modeling of Autonomous Vehicles and their Impact on Energy and Emissions **Ahmed Sobhy Saleh MAHMOUD** **Korea Advanced Institute of Science & Technology (KAIST)**	Impact of the Irish carbon tax and the European Emissions Trading System on outdoor air pollution in Ireland **Kirsten EVERETT** **Economic and Social Research Institute (ESRI)**	The green hydrogen ambition and implementation gap **Adrian ODENWELLER** **Potsdam Institute for Climate Impact Research (PIK)**	
Analysis of Japan's Transition to Net-Zero Electricity through Large-Scale Integration of Variable Renewable Energy **Jubair SIEED** **Research Institute of Innovative Technology for the Earth (RITE)**	Modeling optimal charging and vehicle operation planning of electric light-duty trucks at a courier branch in japan **Tomoyuki YAMADA** **Central Research Institute of Electric Power Industry**	Economic Assessment on Asian International Competitiveness in 2030 Using a Global Energy-Economic Model **Takashi HOMMA** **Research Institute of Innovative Technology for the Earth (RITE)**	Domestic Low-carbon Hydrogen Production via Renewables and PPA in Japan **Tianhong ZHANG** **The University of Tokyo**	