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Welcome Message

The Institute of Energy Economics, Japan (IEEJ), and the National Graduate Institute for Policy Studies (GRIPS) are pleased to host the 43rd IAEE international conference in Tokyo (IAEE Tokyo), between the 31st of July and the 4th of August 2022.

As the general conference co-chairs, we are delighted to welcome you all to Tokyo. The IAEE Tokyo provides the first in-person meeting opportunity since 2019.

The IAEE Tokyo will be held at a time when the world, facing unprecedented situations, must simultaneously cope with two serious challenges. The questions are: how best can we respond to the current historically high energy prices, and how can we bring together the innovative, yet affordable technologies, and create value chain of these to achieve the long-term goal of carbon neutrality? Global commitments on achieving the long-term goal of carbon neutrality at COP 26, in 2021, and the subsequent Ukraine crisis have altered the circumstances surrounding the energy sector.

Under the title “Mapping the Energy Future – Voyage in Uncharted Territory”, we believe it is very timely to organize this conference. We will offer the opportunity to discuss and consider pragmatic options to tackle these difficult challenges.

There will be 3 main topics featured at the IAEE Tokyo.

The first one will highlight the different forms of zero-carbon energy. Not only will we discuss such energy sources as Renewable and Nuclear, but we will also highlight decarbonizing fossil fuels.

As the second component, we will shed light on realistic pathways toward carbon neutrality for the rapidly growing Asia and other emerging economies.

The third highlight will be a discussion on the nexus between geopolitics and energy. Geopolitical risks have intensified in recent years and become one of the key factors affecting the current high energy prices. The discussion will focus on emerging factors [such as cyber security and anti-globalism]. It will also highlight the role of various stakeholders, including international organizations, governments and energy companies for maintaining energy security.

The IAEE Tokyo will invite and host nearly 600 prominent, world renowned and high-ranking stakeholders from Industry, Academia and Governments. We hope this conference will serve as a platform to learn, exchange views, draw policy implications and develop business planning.

Tatsuya TERAZAWA
Chairman and CEO, The Institute of Energy Economics, Japan

Masako KUROSAWA
Acting President, The National Graduate Institute for Policy Studies
Welcome Message

As President of IAEE for 2022, I welcome you to the 43rd IAEE Annual Conference. We are extremely grateful to the IEEJ, GRIPS and especially Immediate Past President of IAEE, Yukari Yamashita, for their tireless efforts to make this conference possible. I congratulate all concerned for putting together a fantastic conference. I also thank all our members who have contributed to the concurrent and plenary sessions. The conference also would not be a success without your participation.

After the long hiatus due to Covid-19, we are very excited that this Tokyo conference will represent at least a partial return to face to face meetings. This has been complicated to organize, but I trust that our Japanese hosts will make the experience as good as it possibly can be while respecting the continuing restrictions and constraints necessitated by the ongoing, albeit hopefully waning, pandemic.

IAEE conferences play a vital role in sustaining the IAEE family. Not only do they allow our members to exchange views about energy issues and energy policy, or expose their latest research findings to worthwhile scrutiny and feedback. They also allow all our members to hear other perspectives, and to see what other people think are the most important energy issues of the day. These insights can prove invaluable for revitalizing a research program, or facilitating a breakthrough for government and industry professionals searching for solutions to thorny energy industry problems.

IAEE conferences also provide valuable networking opportunities. As you take part in more of our conferences, you will welcome the opportunity to catch up with many friends who share your interests.

None of our conferences are more important than the annual international conference. It facilitates an exchange of information and knowledge across national boundaries. Participants are often surprised to see the extent to which different countries are simultaneously dealing with the same issues and pleased to hear about alternative approaches to dealing with them.

Another important role that IAEE plays is that it produces two refereed journals — The Energy Journal and Economics of Energy and Environmental Policy — and a newsletter that allow members to publish their research in written format so that it can be analyzed and assessed in a more thorough and sustained way. In that regard, IAEE conferences provide an opportunity for researchers to present their ideas and obtain feedback before they improve the final product. When you have done so, please submit it to our journals for consideration for publication. Also know that we maintain a database of conference proceedings on our web site. That also will expose your presentations to a wider audience than those present at the conference.

Finally, let me say in closing that I hope you thoroughly enjoy our conference. Please consider attending more of them for many years to come!

Peter Hartley
IAEE President 2022
Welcome Message

Dear Colleagues,

Be assured of a very warm welcome to the IAEE Tokyo International Conference 2022. It is our utmost pleasure to receive you in Tokyo, our most beautiful city.

This Conference was originally planned for July 2021 but postponed by one year because of COVID-19 and the Tokyo Olympic Games. Ever since we have announced the event, in September 2021, our journey to this day has been rather bumpy. The many global waves of COVID-19, made us debate until the very last minute whether we could host this event in-person or not. As the 6th wave hit the world, we decided for the first ever IAEE Hybrid Conference.

It has been a “trial and error” process but, together with so many people in Japan and around the world and with a huge support from our sponsors, this Conference has been made possible.

We sincerely hope that all of you will feel and enjoy the very spirit of the IAEE International Conference of networking by meeting your colleagues and exchanging views and ideas. Some will do it virtually, others in-person. The IEEJ & GRIPS staff involved in the project is very thankful to our sponsors, to the abstract reviewers chaired by Prof. Tezuka, to our invited speakers, to JTB Communication Design, Roppongi DMO, Minato Ward, and the Palace Hotel. A special thank you to the members of the IAEE secretariat for their great support and assistance in making the Tokyo Conference a reality.

In these times of difficulties and challenges, let us navigate together in uncharted territory and start mapping the energy future!

Yukari Niwa YAMASHITA
Hisanori NEI
Kunie TAIE
Naoko DOI
Kei SHIMOGORI
Yoshiko HOJO

On behalf of the IAEE Tokyo Conference Team
## PROGRAM OVERVIEW

### Sunday, 31 July

<table>
<thead>
<tr>
<th>TIME</th>
<th>ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 - 18:00</td>
<td>Registration</td>
</tr>
<tr>
<td>11:00 - 18:00</td>
<td><strong>IAEE Council Meeting</strong>*</td>
</tr>
<tr>
<td>15:00 - 17:30</td>
<td>Ph.D. Session</td>
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<tr>
<td>18:30 - 20:00</td>
<td>Council Dinner*</td>
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</tbody>
</table>

**Sessions held in Soukairou Hall can be viewed in Meeting Room 1A/1B/1C.**

### Monday, 1 August

<table>
<thead>
<tr>
<th>TIME</th>
<th>ROOM</th>
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<tbody>
<tr>
<td>08:00 - 18:00</td>
<td>Registration</td>
</tr>
<tr>
<td>08:00 - 08:55</td>
<td>Istanbul Conference Planning Meeting***</td>
</tr>
<tr>
<td>09:00 - 10:30</td>
<td>Opening Plenary</td>
</tr>
<tr>
<td>10:30 - 10:45</td>
<td>Break Time</td>
</tr>
<tr>
<td>10:45 - 12:15</td>
<td>Dual Plenary 1: Energy Geopolitics: Challenges and Opportunities for Asia</td>
</tr>
<tr>
<td>10:45 - 12:15</td>
<td>Dual Plenary 2: Climate Change and the Challenges for De-carbonization: Risks and Opportunities</td>
</tr>
<tr>
<td>12:15 - 13:30</td>
<td>Lunch Break with Guest Speakers’ Speech</td>
</tr>
<tr>
<td>13:30 - 15:00</td>
<td>Round Table 1: Critical Minerals</td>
</tr>
<tr>
<td>13:30 - 15:00</td>
<td>Concurrent Sessions A1-A13 (For details, please see the Concurrent Session Overview and Concurrent Session Program.)</td>
</tr>
<tr>
<td>15:00 - 15:15</td>
<td>Break Time</td>
</tr>
<tr>
<td>15:15 - 16:45</td>
<td>Dual Plenary 4: Clean, Affordable and Accessible Energy for All</td>
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<tr>
<td>18:30 -</td>
<td>Gala Dinner</td>
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### Tuesday, 2 August

<table>
<thead>
<tr>
<th>TIME</th>
<th>ROOM</th>
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<tbody>
<tr>
<td>08:00 - 18:00</td>
<td>Registration</td>
</tr>
<tr>
<td>08:00 - 08:55</td>
<td>Asia-Oceania Affiliate Leaders Meeting***</td>
</tr>
<tr>
<td>09:00 - 10:30</td>
<td>Round Table 2: Energy Transition and the Role of Fossil Fuels</td>
</tr>
</tbody>
</table>

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*Invitation only*
09:00 - 10:30  Concurrent Sessions B1-B13
[For details, please see the Concurrent Session Overview and Concurrent Session Program.]
Various Rooms
[3rd, 4th, 5th Floor]

10:30 - 10:45  Break Time
Lounge & Meeting Room 1A/1B/1C

10:45 - 12:15  Dual Plenary 5: Future Role of Fossil Fuels toward Decarbonized World
Soukairou Hall**
[1st Floor]

10:45 - 12:15  Dual Plenary 6: Global Energy Transition: What's the Role of Market in the Transition toward Decarbonization?
Lecture Room L
[5th Floor]

12:15 - 13:30  Lunch Break with Guest Speakers’ Speech
Atrium
[1st Floor]

12:15 - 13:30  Poster Session - Group 1
[For details, please see the Poster Session Program.]
Atrium
[1st Floor]

13:30 - 15:00  Round Table 3: ADBI-T20 Roundtable on Financing Energy Transition in Asia and the Pacific
Soukairou Hall**
[1st Floor]

13:30 - 15:00  Concurrent Sessions C1-C13
[For details, please see the Concurrent Session Overview and Concurrent Session Program.]
Various Rooms
[3rd, 4th, 5th Floor]

15:00 - 15:15  Break Time
Lounge & Meeting Room 1A/1B/1C

15:15 - 16:45  Dual Plenary 7: Nuclear Energy in the New Decades: Could it be Possible to Decarbonize All the Sectors?
Lecture Room L
[5th Floor]

15:15 - 16:45  Dual Plenary 8: Future of Mobility and Energy Industries
Soukairou Hall**
[1st Floor]

16:45 - 17:15  IAEE General Membership Meeting
Soukairou Hall**
[1st Floor]

Wednesday, 3 August

08:00 - 15:00  Registration
Entrance Hall
[3rd Floor]

08:00 - 08:55  Riyadh Conference Planning Meeting*
Meeting Room 3A
[3rd Floor]

09:00 - 10:30  Round Table 4: New energy solutions for a Smart and Resilient Society
Soukairou Hall**
[1st Floor]

09:00 - 10:30  Concurrent Sessions D1-D13
[For details, please see the Concurrent Session Overview and Concurrent Session Program.]
Various Rooms
[3rd, 4th, 5th Floor]

10:30 - 10:45  Break Time
Lounge & Meeting Room 1A/1B/1C

10:45 - 12:15  Concurrent Sessions E1-E13
[For details, please see the Concurrent Session Overview and Concurrent Session Program.]
Various Rooms
[3rd, 4th, 5th Floor]

12:15 - 13:30  Lunch Break with Guest Speakers’ Speech
Atrium
[1st Floor]

12:15 - 13:30  Poster Session - Group 2
[For details, please see the Poster Session Program.]
Atrium
[1st Floor]

13:30 - 15:00  Concurrent Sessions F1-F13
[For details, please see the Concurrent Session Overview and Concurrent Session Program.]
Various Rooms
[3rd, 4th, 5th Floor]

15:00 - 15:15  Break Time
Lounge & Meeting Room 1A/1B/1C

15:15 - 16:45  Closing Plenary Panel Discussion and Final Remarks from GRIPS and KAPSARC
Soukairou Hall**
[1st Floor]
## Concurrent Sessions Overview

Concurrent Sessions of the 43rd IAEE International Conference, Tokyo, 1 - 3 August, 2022

<table>
<thead>
<tr>
<th>Room</th>
<th>Session A 1 August 13:30-15:00</th>
<th>Session B 2 August 9:00-10:30</th>
<th>Session C 2 August 13:30-15:00</th>
<th>Session D 3 August 9:00-10:30</th>
<th>Session E 3 August 10:45-12:15</th>
<th>Session F 3 August 13:30-15:00</th>
</tr>
</thead>
</table>

Round Table Sessions are held concurrently:

**Soukairou Hall**

- **RT1:** Critical Minerals
- **RT2:** Energy Transition and the Role of Fossil Fuels
- **RT3:** ADBI-T20 Roundtable on Financing Energy Transition in Asia and the Pacific
- **RT4:** New Energy Solutions for a Smart and Resilient Society
PLENARY / ROUND TABLE SESSIONS

Monday, 1 August, 9:00-10:30

Opening Plenary
Soukairou Hall, 1st Floor

Welcome Remarks
Speakers: Tatsuya Terazawa, Chairman & CEO, The Institute of Energy Economics, Japan
        Peter Reginald Hartley, George A. Peterkin Professor, Economics, Rice University
        Shin Hosaka, Commissioner, Agency for Natural Resources and Energy

Opening Remarks
Speakers: Hoesung Lee, Chair, The Intergovernmental Panel on Climate Change (IPCC)
        Fatih Birol, Executive Director, International Energy Agency, Paris

Speech
Speakers: Bashir Dabbousi, Director of Technology Strategy & Planning, Saudi Aramco
        Marianne Laigneau, CEO, Enedis
        László Varró, Vice President Global Business Environment, Shell

Monday, 1 August, 10:45-12:15

Dual Plenary 1: Energy Geopolitics: Challenges and Opportunities for Asia
Soukairou Hall, 1st Floor

The growing political uncertainties in energy producing countries, particularly the Middle East and North Africa, are increasingly affecting Asia’s dependence on energy imports from those regions. The geopolitical risks not only include energy but reflect issues such as anti-globalism, cyber security, financing etc.

Chair: Ken Koyama, Senior Managing Director, Chief Economist, The Institute of Energy Economics, Japan (IEEJ)
Speakers: Jun Nishizawa, Group CEO, Natural Gas Group, Executive Vice President, Mitsubishi Corporation
          Paul Stevens, Associate Fellow, Environment and Society Programme, Chatham House / Emeritus Professor, University of Dundee / Distinguished Fellow, Institute of Energy Economics, Japan
          Tatiana Mitrova, Research Fellow, Center on Global Energy Policy, Columbia SIPA

Dual Plenary 2: Climate Change and the Challenges for De-carbonization: Risks and Opportunities
Lecture Room L, 5th Floor

As the global community aims at carbon neutrality, energy policies and regulations are strengthened to the point of influencing our choice for energy sources. Minimizing the economic impacts to achieve the goal are issues that affect all stakeholders, including policymakers, energy industries, and R&D organizations.

Chair: Nan Zhou, Senior Scientist, Building Technologies & Urban Systems Division, Lawrence Berkeley National Laboratory
Speakers: Fumihiko Ito, Chief Sustainability Officer, Sumitomo Mitsui Banking Corporation
         Shintaro Ishida, Executive Officer and General Manager, Corporate Planning Department, Idemitsu Kosan Co., Ltd.
         Akshima Tejas Ghate, Managing Director, RMI India
         Noura Youssef Mansouri, Fellow, KAPSRAC
Monday, 1 August, 13:30-15:00

Round Table 1: Critical Minerals
Soukairou Hall, 1st Floor

Expanding electricity networks and making batteries will significantly increase demand for critical minerals such as copper, nickel, graphite, lithium, manganese, and cobalt. Issues of political insecurity, infrastructure developments and human rights need to be addressed to attract and mobilize the necessary mining development capital.

Moderator and Speaker: Michelle Michot Foss, Fellow in Energy, Minerals & Materials, Center for Energy Studies, Rice University's Baker Institute for Public Policy

Speakers: Xavier Chalbot, Head of Strategy, Rio Tinto
Michael S. Moats, Professor of Metallurgical Engineering, Missouri University of Science & Technology / Director of the Thomas J. O'Keefe Institute for the Sustainable Supply of Strategic Minerals

Monday, 1 August, 15:15-16:45

Soukairou Hall, 1st Floor

The world of energy, as we know it, has reached its tipping point. Decarbonization requires technological innovations, progress in power generation with a shift toward renewables, grid stabilization and energy storage. There are high expectations for hydrogen to reduce CO2 emissions and help stabilize the power grid.

Chair: Kazunari Sasaki, Senior Vice President (Distinguished Professor), Kyushu University

Speakers: Tomoo Shiota, Executive Officer, General Manager, Hydrogen Business Promotion Department, ENEOS
Mansur Zhakupov, Vice President, Hydrogen, TotalEnergies SE
Per Sandberg, Senior Advisor, Low Carbon Solutions Unit, Equinor
Yoshihiko Hamamura, Senior General Manager, Fuel Cell Business Field, Toyota ZEV Factory, Toyota Motor Corporation

Dual Plenary 4: Clean, Affordable and Accessible Energy for All
Lecture Room L, 5th Floor

Millions of people do not have access to electricity and billions lack access to clean cooking facilities which are linked to nearly 2.5 million premature deaths annually. Adding to the challenges for investment, many live on less than $2 per day and cannot even pay for energy. Energy is required to support economic productivity and modern public services.

Chair: Roula Inglesi-Lotz, Professor of Economics at the Department of Economics at University of Pretoria

Speakers: Rebecca Bregant, Co-founder & CMO, Pineberry / President, Alliance for Rural Electrification
Anne McDonald, Professor, Sophia University ISGE Island Sustainability Unit
Dadan Kusdiana, Director General of New, Renewable Energy and Energy Conservation (DG of NREEC)

Tuesday, 2 August, 9:00-10:30

Round Table 2: Energy Transition and the Role of Fossil Fuels
Soukairou Hall, 1st Floor

The public rise in climate concerns and pressures from investors are accelerating the need for decarbonizing fossil fuels. ‘Blue hydrogen’ is drawing attention as an alternative. The power generation and transport sectors will see robust demand by 2050 while some other sectors will face challenges in diverting from fossil fuels.

Moderator: Takeo Kikkawa, Professor, Graduate School of International Management, International University of Japan

Speakers: Bassam Fattouh, Director, The Oxford Institute for Energy Studies (OIES)
Robin Mills, CEO, Qamar Energy, Dubai
Paul J. Sullivan, Senior Research Associate, King Faisal Center for Research and Islamic Studies / Non-Resident Senior Fellow, Global Energy Center, Atlantic Council
Mustafa Amer, Researcher, Gas Exporting Countries Forum (GECF)
Hirofumi Matsuo, Senior Editorial Writer, Nikkei Inc.
Tuesday, 2 August, 10:45-12:15

Dual Plenary 5: Future Role of Fossil Fuels toward Decarbonized World
Soukairou Hall, 1st Floor

The public rise in climate concerns and pressures from investors are accelerating the need for decarbonizing fossil fuels. ‘Blue hydrogen’ is drawing attention as an alternative. The power generation and transport sectors will see robust demand by 2050, while some other sectors will face challenges in diverting from fossil fuels. The global need for fossil fuels may not change much between 2017 and 2050.

Chair: Nobuo Tanaka, Chair, The Steering Committee of Innovation for Cool Earth Forum (ICEF)/ Former Executive Director, the International Energy Agency (IEA) 2007-2011

Speakers: Takeshi Matsui, Chairman, Planning Committee, The Japan Gas Association / Executive Vice President, Osaka Gas Co., Ltd. 
Hamid M. Al Sadoon, Research Fellow, Oil and Gas, King Abdullah Petroleum Studies and Research Center (KAPSARC), KSA
Lucian Salvatore Puglisi, President, Energy Policy Research Foundation, Inc. (EPRINC)
John Kuehn, President of Supply & Trading, Chevron

Tuesday, 2 August, 13:30-15:00

Round Table 3: ADBI-T20 Roundtable on Financing Energy Transition in Asia and the Pacific
Soukairou Hall, 1st Floor

Asia, with its economic, population, and consumption growth will drive the global energy demand. Although net zero is imperative, COVID-19 has constrained public funds. Policy recommendations to explore the challenges and opportunities for advancing renewable energy and to promote new and innovative financing will be discussed at the session.

Moderator: Yixin Yao, Senior Research Fellow, Asian Development Bank Institute (ADBI)

Speakers: Seungji Baek, Deputy Dean, Asian Development Bank Institute (ADBI)
Bambang P. S. Brodjonegoro, Professor of Economics, Universitas Indonesia / Lead Co-Chair, Think20 (T20) Indonesia 2022
Yukari Niwa Yamashita, Managing Director, Institute of Energy Economics (IEEJ)
Dina Azghaliyeva, Research Fellow, Asian Development Bank Institute (ADBI)
Alin Halimatussadiyah, Institute for Economic and Social Research - Universitas Indonesia / Co-Chair and Task Force 3 Co-Chair T20 Indonesia
David C. Elzinga, Senior Energy Specialist (Climate Change), Southeast Asia Department, Asian Development Bank (ADB)
Nuki Agya Utama, ASEAN Centre for Energy
Dil Bahadur Rahut, Vice-Chair of Research and Senior Research Fellow, Asian Development Bank Institute (ADBI)
Moekti Handajani Soejachmoen, Co-Founder and Executive Director, Indonesia Research Institute for Decarbonization (IRID) / T20 Indonesia Task Force 3 Lead Co-Chair
Tuesday, 2 August, 15:15-16:45

Dual Plenary 7: Nuclear Energy in the New Decades: Could it be Possible to Decarbonize All the Sectors?
Lecture Room L, 5th Floor

An increasing number of countries have set ambitious low-carbon targets and nuclear energy could contribute to their achievement. Despite the current challenges, especially in the U.S., Europe and Japan, many countries are pursuing nuclear technology innovations which offer great potential to decarbonize the electricity sector as well as many other sectors.

Chair: Yasumasa Fujii, Professor, Department of Nuclear Engineering and Management, Graduate School of Engineering, The University of Tokyo
Speakers: Warren McKenzie, Managing Director, HB11 Energy Pty Ltd / Adjunct Lecturer, School of Materials Science and Engineering, University of New South Wales
        Robert F. Ichord, Nonresident Senior Fellow, Global Energy Center, Atlantic Council
        Eunjung Lim, Associate Professor, Kongju National University
        Sama Bilbao y León, Director General, World Nuclear Association

Dual Plenary 8: Future of Mobility and Energy Industries
Soukairou Hall, 1st Floor

The global sales of Zero Emission Vehicles (ZEV) may account for 30% of all sales in 2030. The increased sales and the emergence of mobility service companies will challenge the established business model of automobile companies and will affect the global balance of oil supply and demand. NOCs/IOCs will need to diversify their business portfolio to acknowledge those changes.

Chair: Yoshitsugu Hayashi, Distinguished Professor, Center for Sustainable Development and Global Smart City, Chubu University / Executive Committee Member, The Club of Rome & President, The Japanese Association
Speakers: Ali Izadi-Najafabadi, APAC Research Head, BloombergNEF, Bloomberg NEF
        Ashok Sarkar, Program Leader-Infrastructure & Senior Energy Specialist, World Bank
        Andianto Hidayat, Vice President, Downstream R&T Innovation, Research & Technology Innovation, Pertamina
        Kengo Nishimura, Director of Public Policy and Government Relations, Japan, Uber Japan

Wednesday, 3 August, 9:00-10:30

Round Table 4: New Energy Solutions for a Smart and Resilient Society
Soukairou Hall, 1st Floor

People are pursuing smarter lifestyles and seeking for a more resilient society. In a drive toward carbon neutrality, companies and individuals (countries and regions) care about their choice of energy sources. Those new energy solutions bring new challenges as they must be used sustainably and stably, while remaining in harmony with conventional sources.

Moderator: Hiroshi Okamoto, Executive Vice President and CTO, TEPCO Power Grid
Speakers: Goro Umeyama, Senior Group Leader BCM Consulting, Sompo Risk Management, Inc.
        Yusuke Kojima, Director, Loop Inc.
        Jack Baker, Professor of Civil & Environmental Engineering / Director, Stanford Urban Resilience Initiative
        Mitsuhiro Ogata, Executive Officer, Environment-Planning, Weathernews Inc.
        Miki Haruyama, Regional Vice President, Business Partnership Development Division, Nissan Motor Co., Ltd.
        Kazuko Ishigaki, Auditor (Audit and Supervisory Board Member), Japan Expressway Holding and Debt Repayment Agency
Wednesday, 3 August, 15:15-16:45

Closing Plenary Panel Discussion and Final Remarks from GRIPS and KAPSARC
Soukairou Hall, 1st Floor

The first part of the closing session will be a general panel discussion touching on the broad themes covered in this Conference. Towards the end of the session, we will invite GRIPS to make final remarks and will hear more from the host of the next (the 44th) IAEE International Conference planned in Riyadh, Saudi Arabia in February 2023 (just 7 months away).

The panel discussion will be held in the style of a conversation and exchange among past, current, and future IAEE presidents and with one representative from KAPSARC. The topics that were pre-selected for the conference include the geopolitics of energy, decarbonization goal, hydrogen and other new technologies, energy access issues, fossil fuels in a decarbonized world, energy transition, nuclear, and mobility.

The panelists were asked to prepare a short introduction or their own summary version of anything and everything covered (or not) in this conference, including how Ukraine influences the energy and the environment, how to secure natural gas supply, how to support energy transition, what we need to achieve the CN target, etc.

Finally, we will hear a few words from GRIPS, one of the organizers for this conference as well as a few words from KAPSARC, the organizer of the next IAEE conference.

We are still Navigating in Unchartered Territory, but we must start Mapping the Energy Future.

Moderator: Yukari Niwa Yamashita, IAEE President 2020, IEEJ

Potential Panelists (in alphabetical order):
Fahad Alajlan, President, KAPSARC
Jean-Michel Glachant, IAEE President-Elect
Peter Hartley, IAEE President 2022 & 2015, Professor, Rice University
Gurkan Kumbaroglu, IAEE President 2016, Professor, Bogazici University
A1. Energy and the Environment 1
Meeting Room 3C
Chair: Makoto Tanaka
Carbon Pricing Instruments: Second-Best Policies?
Nandeeta Neerunjun
Aix Marseille School of Economics
Chaofeng Tang¹, Kentaka Aruga²
¹Guangdong Medical University, ²Saitama University
Carbon Pricing Co-Benefits for Countries
Fatemeh (Marjan) Nazifi, Rohan Best
Macquarie University
From Kyoto to Glasgow: Volumes and Types of Unused Certified Emission Reductions (CERs)
Raphaela Kotsch¹,² Regina Betz³,²
¹University of Zurich, ²Zurich University of Applied Sciences, ³Center for Energy and the Environment (CEE)

A3. Electricity 1
Research Meeting Room 4B
Chair: Hiroki Kudo
Mapping Innovation in the Electricity Sector: A Startups Approach
Rolando Fuentes¹, Dongmei Chen², Khalid AlHadrami³, Frank Felder²
¹EGADE Business School-KAPSARC, ²KAPSARC
Bess-Facilitated Local Energy Market: A Case Study on Typical Australian Consumers
M. Imran Azim, Liaqat Ali, Jan Peters, Vivek Bhandari, Anand Menon, Vinod Tiwari, Jemma Green
Powerledger
Research and Development Regulations to Stimulate Innovation in the Electricity Sector: A Quantitative Study on European Countries
Beatriz Couto Ribeiro¹,², Luciane Graziele Pereira Ferrero¹, Adriana Bin¹, Knut Blind²
¹University of Campinas, ²Technical University of Berlin
Electricity Market Structure, Wind Penetration and Information Aggregation: An Experimental Approach
Cody Hohl¹, Anthony Kwasnica¹, Chiara Lo Prete¹, Feng Zhu²
¹The Pennsylvania State University, ²Nankai University

A5. Energy Modeling 1
Lecture Room B
Chair: Koji Tokimatsu
Modelling Energy Demand in Support of China’s 2060 Neutrality Targets
Gabriel David Oreggioni, Xiao Yu, Iain Staffell
Imperial College London
Country-Level Energy Demand Modelling in Support of Europe’s Climate Neutrality Target
Gabriel David Oreggioni, Iain Staffell
Imperial College London
Assessment of Japan’s Net Zero Target by 2050 Using Dynamic Multi-Sector Energy Economic Model
Jubair Sreed, Ryoichi Komiyama, Yasumasa Fujii
The University of Tokyo
Effective Indonesia’s Government Policy to Reach Net Zero Carbon in Year 2060
Luky Yusgiantoro, Tri Bagus Prabowo
Purnomo Yusgiantoro Center

Lecture Room C
Chair: Ken Koyama
Energy Security Through Sustainable Energy and Climate Targets in Small Island Developing States
Anna Genave¹, Sandrine Selosse²
¹Economic Development Board – Mauritius, ²MINES Paris, PSL University, Centre for Applied Mathematics
Lars Notling¹, Alexandre Moraira da Silva²
¹Energy System Economics, RWTH Aachen University, ²Lawrence Berkeley National Laboratory
Geopolitics of Electricity, Natural Gas & LNG in the Balkan Region: The Energy Community Treaty and the Target Year 2050 (Green Deal)
Sotirios Manolkidis
Hellenic Regulatory Authority for Energy (RAE)

A7. Electricity 2
Lecture Room D
Chair: Hisanori Nei

Distributed Generation and Cost Efficiency of German Electricity Distribution Network Operators
Lisa Just¹, Heike Wetzel²
¹ Institute of Energy Economics at the University of Cologne, ² Institute of Economics, University of Kassel

Dynamic Auction and Matching Mechanism for Peer-To-Peer Electricity Trading in Microgrids
Grishma Manandhar¹, H. Alan Love¹, Olvar Bergland²
¹ Washington State University, ² Norwegian University of Life Sciences

Double Auction Design for P2P Energy Trading between Microgrids with Demand-Supply Imbalance
Ju-si Sim¹, Deok-joo Lee¹, Kiho Yoon²
¹ Seoul National University, ² Korea University

Accounting for Distributed Resources in Resource Adequacy
Irene Danti Lopez, Eamonn Lannoye
EPRI

Carbon Pricing and Alberta’s Electricity-Only Energy Market
Derek E. H. Olmstead¹, Adonis Yatchew²
¹ Alberta Market Surveillance Administrator, ² University of Toronto

A8. Energy Efficiency 1
Lecture Room E
Chair: TBD

Analysis of Multi-Criteria Decision-Making Approaches for Industrial Energy Efficiency Projects Evaluation
Ibrahim Kshanh, Makoto Tanaka
National Graduate Institute for Policy Studies (GRIPS)

Linking Energy Efficiency with Trade and Environment: A System Dynamic Approach
Keshav Raj Panthee¹, Prakrit Noppradit¹, Saroj Gyawali²
¹ Prince of Songkla University, ² Sustainable Study and Research Institute

Behavioural Approach to Reduce Energy Consumption in Public Buildings
Rabab Akkouche, Sandrine Selosse, Gilles Guerassimoff
MINES Paris, PSL University, Centre for Applied Mathematics (CMA)

Effective Energy Policies for Investments in Emission Abatement in the Building Sector
Philipp Theile, Fabian Arnold, Amir Ashour Novirdoust
University of Cologne

The Impact of Credit Constraints on Total-Factor Energy Efficiency Evidence from Manufacturing Firms
Dengjun Zhang¹, Taoyuan Wei²
¹ University of Stavanger, ² CICERO Center for International Climate Research

A9. Renewables 1
Lecture Room F
Chair: Fahad Alturki

Sustainable Development, Renewable Energy Transformation and Employment Impact in the EU
Ranjula Bali Swain¹,², Amin Karimu³, Erik Grad⁴
¹ Stockholm School of Economics, ² Södertörn University, ³ University of Cape Town

Economic and Environmental Effects of Promoting Renewable Energy Electricity in Remote Islands: A Case of Tsushima, Japan
Ken’ichi Matsumoto¹, Yuko Matsumura²
¹ Toyo University, ² Osaka University

Evidence of the Rebound Effect from Installing Rooftop Solar in a Developing Country
Luan T. Nguyen¹, Shyama Ratnasiri¹, Nicholas Rohde¹, Liam Wagner²
¹ Griffith University, ² The University of Adelaide

A10. Transportation 1
Lecture Room J
Chair: Reiji Takeishi

Simulation of the Diffusion of Alternative Fuel Vehicles Considering the Possession of Information
Masaaki Suzuki¹, Mari Itö¹, Ryuta Takashima², Makoto Tanaka³
¹ Chukyo University, ² Tokyo University of Science, ³ National Graduate Institute for Policy Studies

Tamara L. Sheldon¹, Rubal Dua¹, Omar Abdullah Alharbi³
¹ University of South Carolina, ² KAPSARC

Life Cycle Environmental and Cost Comparison of Scooters in Taiwan
Yuan-Hsi Thomas Chien¹, I-Yun Lisa Hsieh²
¹ National Yang Ming Chaio Tung University, ² National Taiwan University

Porter’s Five Forces Analysis: Battery as Alternative Transport Fuels in Indonesia
Luky Agung Yusgiantoro, Akhmad Hanad, Budi Prayogo Sunariyanto, Mayora Bunga Swastika
The Purnomo Yusgiantoro Center
A11. Energy and the Economy 1

Lecture Room K
Chair: Naoko Doi

Effects of COVID-19 on Indian Energy Consumption
Kentaka Aruga1, Md. Monirul Islam2, Arifa Jannat3
1Saitama University, 2University of Tsukuba

Quality of Institutions as a Factor to Energy Transition in South Africa: Econometric and System Dynamics Modelling Evidence
Roula Inglesi-Lotz
University of Pretoria

The Relationship between Climate Protection Activities, Economic Preferences, and Life Satisfaction: Empirical Evidence for Germany
Thilo K.G. Haverkamp1, Heinz Welsch2, Andreas Ziegler1
1University of Kassel, 2University of Oldenburg

The Dynamic Impact Among Oil Dependence Volatility, the Quality of Political Institutions, and Government Spending
Azadeh Pazouki1, Ebrahim Ghorbani2, Mohammad Reza Pazouki3, Nasrin Hozarmacagh9
1University of Bedfordshire, 2Bournemouth University, 3Allameh Tabataba’i University; 4Insurance Research Center

B1-13 : Tuesday, 2 August 9:00-10:30

B1. Energy and the Environment 3
Meeting Room 3C
Chair: Swetha Bhagwat

Conservation of the Global Environment by Developing Digital Platforms
Masao Tsujimoto
Japan University of Economics

Philipp Riegebauer
University of Applied Sciences, BABLE Smartcities GmbH

The Philippines’ Key Growth Sectors: Consumption Trends in BAU and Beyond, a Decomposition Analysis
Elvira Torres Gelindon
Asia Pacific Energy Research Centre (APERC)

Energy Security and Resilience in the APEC Region
Glen E. Sweetnam, Emily Medina
Asia Pacific Energy Research Centre

A13. Energy and the Environment 2

Lecture Room M
Chair: Govinda Timilsina

Fossil Fuel Energy Consumption, Economic Growth, Urbanization, and Carbon Dioxide Emissions in Kenya
Jacob Otim1, Susan Watundu2, John Mutenyi3, Vincent Bagire2
1Kyambogo University, 2Makerere University Business School, 3Makerere University

Pathways to ASEAN’s Energy Futures: From NDCs to Net Zero
Emi Minghui Gui1, Beni Suryadi2, Zulfikar Yurnaidi3, Monika Merdekawati4
1ClimateWorks Australia, 2ASEAN Centre for Energy

Evidence of Environmental Kuznets Curve of ASEAN Plan of Action for Energy Cooperation
Josia T. Simanjuntak1, Luky A. Yusgiantoro2
1SKK Migas, 2Indonesia Oil and Gas Institute

Economic Impacts of a Carbon Tax in China under Alternative Tax-Design Schemes
Govinda R. Timilsina1, Jun Pang2, Yuanhua Chang3
1World Bank, 2Renmin University

A12. APERC 1: Projection for Energy Future in Asia Pacific

Lecture Room L

Prospect of APEC Energy Goals for Energy Intensity and Renewable Energy
Muhammad Nabih Fakhri Matussina
Asia Pacific Energy Research Centre

Reference Scenario in the 8th APEC Energy Demand and Supply Outlook
Mathew Horne
APERC

The Philippines’ Key Growth Sectors: Consumption Trends in BAU and Beyond, a Decomposition Analysis
Elvira Torres Gelindon
Asia Pacific Energy Research Centre (APERC)

Energy Security and Resilience in the APEC Region
Glen E. Sweetnam, Emily Medina
Asia Pacific Energy Research Centre

B2. Energy Modeling 2
Research Meeting Room 4A
Chair: Cristian Stet

Revisiting the Climate Stabilisation Wedges: A Framework for Decarbonising the Economy by 2050
Nathan Johnson, Iain Staffell
Imperial College London

Prospect of APEC Energy Goals for Energy Intensity and Renewable Energy
Muhammad Nabih Fakhri Matussina
Asia Pacific Energy Research Centre
The Effect of Climate Change on Economic Growth: A Structural Global Vector Autoregressive Approach
Maryam Ahmadi1, Chiara Casoli1, Matteo Manera1,2, Daniele Valenti1,3
1 Fondazione Eni Enrico Mattei, 2 University of Milan-Bicocca, 3 University of Milan

A Regional Integrated Assessment Model of Climate and the Economy: Which Role for the Mediterranean Region?
Chiara Castelli1,2, Camilla Gusperti2, Marta Castellini3,2, Veronica Lupi3,2, Sergio Vergalli1,2
1 University of Brescia, 2 Fondazione Eni Enrico Mattei (FEEM), 3 University of Milan

Carbon Neutral Energy System Analysis in Japan Using Times-Japan Model
Atsushi Kurosawa1, Etsushi Kato1, Toshihiro Inoue1, Kazuhiko Ogimoto2, Yumiko Iwafune2, Yohei Yamaguchi3, Yoshiyuki Shimoda3
1 The Institute of Applied Energy, 2 University of Tokyo, 3 Osaka University

Why Will Capacity Markets Never Achieve Equilibrium Levels of Supply?
Victor Chung, Julia Frayer
London Economics International LLC

The Costs Reduction Effects of Ending the U.S. Crude Oil Export Ban
R. Dean Foreman1, Andrew N. Kleit2
1 American Petroleum Institute, 2 The Pennsylvania State University

Effects of Decline Rate Uncertainty and Financial Security Obligations on the Decision to Decommission Offshore Oil and Gas Installations: A UKCS Case Study
Arturo Regalado1, Alexander Kemp2, Yakubu Abdul-Salam2, Alisdair Macpherson3
1 University of Aberdeen, 2 University of Aberdeen Business School

Scenario-Based Modelling of Residential Energy Demand Uncertainty Using Activity-Based Approach
Jacek Pawlak, Ahmadreza Faghhi Imani, Aruna Sivakumar
Imperial College London

A5. Energy Investment and Finance

Is the Global Carbon Market Integrated? Return and Volatility Connectedness in ETS Systems
Chenyan Lyu1, Bert Scholtens2
1 Copenhagen Business School, 2 University of Groningen

Are Retail Investors Willing to Buy Green Bonds? A Case of Japan
Kentaka Aruga
Saitama University

Measuring Multi-Scale Connectedness between Green Bond and Green Equity Using a Thick Pen Method
Sania Wadud1, Marc Gronwald2
1 University of Aberdeen and Curtin University, 2 International Business School Suzhou, Xi’an Jiaotong-Liverpool University

Corporate Disclosure and Green Finance Market: A Legal Perspective
Wejdan Asiri
The General Authority for Survey and Geospatial Information

Tipping Points in the Banking System
Nadia Ameli, Jamie Rickman
UCL ISR
B7. Electricity 4

Lecture Room D
Chair: Jean-Michel Glachant

Flexible Supply Meets Flexible Demand: The Impact of Prosumers on Strategic Hydro Operations
Farzad Hassanzadeh Moghimi¹, Yihsu Chen², Afzal S. Siddiqui³
¹Stockholm University, ²University of California at Santa Cruz, ³Aalto University

Demand-Side Flexibility in the Residential Heating Sector – A Stated Choice Experiment in Germany
Jonas Bender, Larissa Fait, Heike Wetzel
University of Kassel

Retail Rate Design in A Decarbonized Power System: On the Limits of Time-of-Use Pricing
Tim Schittekatte¹, Dharik Mallapragada¹, Richard Schmalensee², Paul Joskow³
¹MIT Energy Initiative, ²MIT Sloan School of Management, ³MIT Department of Economics

Distributional Impacts of Dynamic Pricing Transitions for Residential Electricity Consumers
Nathan DeMaagd, Michael Roberts, Nori Tarui
University of Hawai’i at Mānoa

B8. Energy Efficiency 2

Lecture Room E
Chair: Christophe Bonnery

Will the Tariff Reform Bridge Cost Efficiency Gap between State Branch and Local Grid Firms?
Bai-Chen Xie, Tao Zhang, Yong-Heng Shi
Tianjin University

Split Incentives, Imperfect Information and Energy Efficiency Subsidies
Stef Schildermans¹, Sven Damen², Geert Goeyvaerts³
¹KU Leuven, ²University of Antwerp

B9. Renewables 2

Lecture Room F
Chair: Naoko Doi

Do Auctions Promote Innovation in Renewable Technologies? An Econometric Study of Solar PV
Pablo del Río¹, Leticia García-Martínez²
¹Spanish National Research Council, ²Universidad Carlos III

Complementarity of Energy Sources in the Colombian Electricity Market: A System Dynamics Approach
Sofía Aristizábal, Camila Ochoa
Universidad EIA

Francesco Gullì, Maurizio Repetto
¹Bocconi University, ²Politecnico di Torino

B10. Transportation 2

Lecture Room J
Chair: Adonis J Yatchew

Assessing Spatiotemporal CO₂ Emission Dynamics in China’s Road Transport Sector during the Pandemic
Runsen Zhang
Hiroshima University

Riding Together: Eliciting Travelers’ Preferences for Long-Distance Carpooling
Xavier Lambin¹, Nicolas Astier², Pierre-François Bouquet³
¹Essec Business School, ²Paris School of Economics, ³BlaBlaCar

The Economics of Slow Public Charging for Electric Vehicles
Marie-Louise Arlt¹, Nicolas Astier²
¹Ludwig Maximilian University of Munich, ²Paris School of Economics

Minimum-Cost Fast-Charging Infrastructure Planning for Electric Vehicles Along the Austrian High-Level Road Network
Antonia Golab, Sebastian Zwickl-Bernhard, Hans Auer
Technische Universität Wien

B11. Energy and the Economy 2

Lecture Room K
Chair: Toshiyuki Sakamoto

A Nine-Step Framework to Assess the Impacts of Energy Community Roll-out on a Large Scale
Bernadette Fina
AIT Austrian Institute of Technology

The Socioeconomic Footprint of the Energy Transition in Japan
Ulrike Lehr, Carlos Guadarrama, Bishal Parajuli
IRENA

Energy Expenditure and Electrification Progress by Household Heterogeneity in Japan
Yuko Hoshino¹, Junko Ogawa²
¹ENEOS Corporation, ²Institute of Energy Economics Japan
Choice to Make—An Analysis of City Development on Residential Cooking Fuel Transition in China
Han Yan
Rice University

B12. APERC 2: Prospects for Carbon Neutrality in Asia Pacific
Lecture Room L

Prospects for Hydrogen in APEC
Manuel Heredia
Asia Pacific Energy Research Centre

The Role of Fossil Energy during the Energy Transition in APEC
Christopher Doleman, Quoc Huy Phung
Asia Pacific Energy Research Centre

The Role of Renewables in Electric Power Systems in Achieving Carbon Neutrality in APEC
Alexander Izhbuldin
Asia Pacific Energy Research Centre

Carbon Neutrality Scenario in the 8th APEC Energy Demand and Supply Outlook
David Wogan
APERC

Choice to Make—An Analysis of City Development on Residential Cooking Fuel Transition in China
Han Yan
Rice University

B12. APERC 2: Prospects for Carbon Neutrality in Asia Pacific
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Prospects for Hydrogen in APEC
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Alexander Izhbuldin
Asia Pacific Energy Research Centre

Carbon Neutrality Scenario in the 8th APEC Energy Demand and Supply Outlook
David Wogan
APERC

Incentivizing Electricity Consumers to Match Their Consumption with Local Solar Production
Rudolf Kapeller\(^1\), Jed J. Cohen\(^2\), Andrea Kollmann\(^1\), Johannes Reichl\(^1\)
\(^1\)Energieinstitut an der Johannes Kepler Universität Linz, \(^2\)Salt River Project

Price Volatility Information and Consumer Choice in Electricity Markets
Anastasia V. Shcherbakova\(^1\), Rodolfo M. Nayga\(^1\), Marco A. Palma\(^1\), Wei Yang\(^1\)
\(^1\)Texas A&M University, \(^2\)University of Arkansas

C1-13 : Tuesday, 2 August
13:30-15:00

C1. Energy and the Environment 4
Meeting Room 3C
Chair: TBD

On an Optimal Hydrogen Development Strategy for ASEAN
Alloysius Joko Purwanto\(^1\), Ridwan D. Rusli\(^2\)
\(^1\)Economic Research Institute for ASEAN and East Asia, \(^2\)Cologne University of Applied Sciences and University of Luxembourg

Hydrogen Fuel-Cell Vehicles Adoption: A Choice Experiment
Olivier Damette\(^1,2\), Ankinée Kirakozian\(^1\)
\(^1\)University of Lorraine, \(^2\)Climate Economic Chair Paris Dauphine

The Role of Hydrogen in Achieving Carbon Neutrality
Seyed Mohsen Razavi
Gas Exporting Countries Forum

The Role of Hydrogen for Zero Carbon Emissions
Joni Jupesta\(^1\), Keigo Akimoto\(^1\), Tsutomu Soejima\(^1\), Sangwon Suh\(^2\)
\(^1\)Research Institute of Innovative Technology for the Earth (RITE), \(^2\)University California Santa Barbara (UCSB)

C2. Energy Modeling 4
Research Meeting Room 4A
Chair: David Michael Wogan

Valuation of Large Scale Energy Storage: Optimisation vs Simulation Methods
Antoine Debille, Rodica Loisel
Université de Nantes

Decarbonisation Pathways for District Heating Sector: A Policy and Private Business Perspective.
Muhammad Bilal Siddique, Per Sieverts Nielsen, Dogan Keles
Technical University of Denmark (DTU)

Optimal Hybrid Renewable Combination for Cost and Emission Minimization of Mini-Grids
Mohammed M. Mishref, Makoto Tanaka
Graduate School of Policy Studies, National Graduate Institute for Policy Studies (GRIPS)

On the Role of Storage and Demand Response in Shaping Electricity Prices and Social Welfare Under Different Market Settings.
Liliana Nowakowska
Imperial College London

C3. Natural Gas 1
Research Meeting Room 4B
Chair: Hiroshi Hashimoto

Determinants of Liquefied Natural Gas Prices
Yuri Hupka\(^1\), Thomas Lee\(^2\), Ivilina Popova\(^3\), Betty Simkins\(^1\)
\(^1\)Oklahoma State University, \(^2\)EIA, \(^3\)Texas State University

Evolving Relationship between Parties in the LNG Market
Hiroshi Hashimoto, Yusuke Hidaka, Seiya Matsukura
Institute of Energy Economics, Japan

Future of LNG Market: Shortage or Oversupply?
Galia Fazelyyanova
Gas Exporting Countries Forum

B13. Electricity 5
Lecture Room M
Chair: Yoshikazu Kobayashi

Electricity Pricing and the Propensity to Purchase Dirty Fuels: Empirical Evidence from a Tariff Shift in Russia.
Salim Turdaliev, Karel Janda
Charles University

Environmental Quality Competition: The Case of the French Retail Electricity Market
Sandra Moreno, Marion Podesta
ART-Dev, University of Perpignan Via Domitia
Emergence of Small-Scale LNG Reloading Markets in Europe: Market Failures, Regulation, Perspectives
Emmanuel Grand, Mehdi Aid
FTI Consulting

Emergence of Small-Scale LNG Reloading Markets in Europe: Market Failures, Regulation, Perspectives
Emmanuel Grand, Mehdi Aid
FTI Consulting

Estimation of Load Shifting Impact on Energy Expenses and Self-Consumption in the Residential Sector
Pietro Lubello¹, Ilian Bensana Tournier², Carlo Carcasci¹, Sylvain Quoilin³
¹ Università degli Studi di Firenze, ² Ecole normale supérieure Paris-Saclay, ³ Université de Liège

Downscaling IAMs Results to the Country Level – A New Algorithm
Fabio Sferra, Bas van Ruijven, Keywan Riahi, Hackstock Philip, Maczek Florian
IIASA

Politics or Policy?: A Network Approach to the Allocation of Development Finance for Energy Projects
Cristina Peñasco
University of Cambridge

The Power of Information Nudges for Individual Sustainable Investment: Empirical Evidence from a Framed Field Experiment
Gunnar Gutsche, Daniel Engler, Sophia Möller, Andreas Ziegler
University of Kassel

Risk Aversion in an Agent-Based Model for the Transition to a Low-Carbon Electricity System
Jinxi Yang¹, Sabine Fuss², Daniel Johansson¹, Christian Azar¹
¹ Chalmers University of Technology, ² Mercator Research Institute on Global Commons and Climate Change

Comparison Analysis of the Main Organizational Sustainability Management Models from the Perspective of Value Generation for Energy Companies
Rodrigo Brandão Fontoura, Virginia Parente
IEE/USP

A Reliability-Resiliency-Adaptability Framework for Power Systems in the Light of the 2020 Texas Blackout
Frank A. Felder, Marie Petitet
KAPSARC

After the COVID Crisis, Is the European Electricity Market Design Ready for the Energy Transition?
Jean-Michel Glachant, Nicolò Rossetto, Sofia Nicolai
Florence School of Regulation

K. Maggie, Felix Martin
WMG, University of Warwick

Estimating the Potential for PV Installation in Non-Residential Buildings in Japan
Rino Hirose, Koji Tokimatsu
Tokyo Institute of Technology

Cities Dilemma: Cutting Carbon Emissions or Alleviating Poverty?
Nicolas Hatem
Paris School of Economics
C9. Renewables 3

Lecture Room F
Chair: TBD

Social Acceptance of Wind Turbines: An Empirical Study Using Choice Experiments
Kengo Iwata¹, Shinsuke Kyoi¹, Cao Yue², Yoshiaki Ushifusa³
¹Kyoto University, ²The University of Kitakyushu

A Comparative Analysis of Public Preferences towards Renewables across Southeast Asian Countries
Daniel del Barrio Alvarez¹, Nan Wang², Masahiro Sugiyama¹, Masako Numata¹, Truong Dang Thuy¹, Aung Ze Ya³, Arief Anshory Yusuf¹, Awang Noor Abd. Ghani, Azlina Abd. Aziz, Gem Castillo³, Kensuke Yamaguchi¹, Martin Daniel Siyaranamual⁵, Rosalina P. Tan⁶, Sengprasong Phrakonkham⁷, Vilas Nitivattananumul⁷, Wunna Swe⁸
¹The University of Tokyo, ²MUFG Bank Ltd., ³University of Economics Ho Chi Minh City, ⁴Padjadjaran University, ⁵Resources, Economics and Environment Center for Studies, ⁶Ateneo de Manila University, ⁷National University of Laos, ⁸Asian Institute of Technology, ⁹Mandalay Technological University

C11. Energy and the Economy 3

Lecture Room K
Chair: Kentaka Aruga

Modeling Energy Price Reform Outcomes and Their Determinants Using a Newly Constructed Dataset
Anwar A. Gasim¹, Lama Yaseen¹, Paolo Agnolucci², Paul Ekins¹
¹KAPSARC, ²University College London (UCL)

Gasoline and Ethanol Prices in Brazil: Competition, Product Quality and Gas Station Characteristics
Francisco Teixeira Raeder, Mônica Maria Apolinário Teixeira, Niágara Rodrigues da Silva, Luciano Dias Losekann
Universidade Federal Fluminense

Fuel Pricing in Brazil: International Lessons
Mônica M³ A. Teixeira¹, Luciano Dias Losekann¹, Niágara Rodrigues¹, Edmar Almeida¹, Francisco Raeder¹
¹Federal Fluminense University, ²Pontifical Catholic University of Rio de Janeiro

C12. Electricity 6

Lecture Room L
Chair: Kelly Burns

Modelling Price Dynamics in Electricity System Models
Carla Mendes, Iain Staffell, Richard Green
Imperial College London

What Machine Learning Can Tell Us about the Drivers of Electricity Prices: The Case of Germany
Shiva Madadkhan, Svetlana Ikonnikova
TUM School of Management, Technical University of Munich

On the Design of Cost-Reflective and Inclusive Volumetric Electricity Grid Tariffs
Philipp Andreas Gunkel, Claire Bergaentzlé, Henrik Klinge Jacobsen, Fabian Scheller, Dogan Keles
Energy Economics and System Analysis, Technical University of Denmark

Will the “Big Stick” Impact Wholesale Price Pass-Through in Australia’s Retail Electricity Markets?
Kelly Burns
Victoria University


Lecture Room M
Chair: Toshiyuki Sakamoto

PolyGrid 2050: Integrating Hydrogen into the Energy Transfer Infrastructure Landscape
Martin Palovic¹,², Rahmat Poudineh²
¹ Jacobs University Bremen, ²Oxford Institute for Energy Studies
The Impacts of Economic Growth, Renewable Energy Consumption, Trade Openness and Capital Investment on Environmental Degradation: Verification of the EKC and the RKC in 16 Latin American Countries during 1990-2015
Young Kyu Hwang
Autonomous University of Madrid (UAM)

Renewable Energies and Climate Change: How to Ease the Energy Transition
Giovanni Maccarrone1, Giacomo Morelli1, Sara Spadaccini1,2
1La Sapienza University of Rome, 2Enel Global Services S.r.l.

The Causal Effect of Private and Organizational Climate-Related Identity on Climate Protection Activities: Evidence from a Framed Field Experiment in Japan
Toshi H. Arimura1, Elke D. Groh2, Miwa Nakai3, Andreas Ziegler2
1Waseda University, 2University of Kassel, 3Fukui Prefectural University

D1-13 : Wednesday, 3 August
9:00-10:30
D1. Energy and the Environment 6

Meeting Room 3C
Chair: Makoto Tanaka

‘Bad’ Oil, ‘Worse’ Oil and Carbon Misallocation
Renaud Coulomb1, Fanny Henriet1,2, Léo Reitzmann2
1University of Melbourne, 2Paris School of Economics, 3CNRS

Outlining an International Methane Emissions Credit Mechanism for the Oil & Gas Sector
Kristina Mohlin, Huong Nguyen, Mina Berkow
Environmental Defense Fund

Italian Coal Phase-Out: Strategic Co-Optimization on the Day-Ahead and Ancillary Services Markets
Eduardo Somenzi1, Ilaria Livi1, Federico Pontoni1,2, Filippo Del Grosso1
1Fondazione Eni Enrico Mattei, 2Bocconi

University

The Impact of the Coal-Gas Relative Price on the Co2 Marginal Abatement Effect of Renewable Electricity in the US.
Félix Michelet
Mines ParisTech - PSL

Effects of Carbon Mitigation on Co-Pollutants at Industrial Facilities in Europe
Klara Zwickl1, Simon Sturm1, James K. Boyce1
1Vienna University of Economics and Business, 2Department of Economics and Political Economy Research Institute

D2. Energy Modeling 6

Research Meeting Room 4A
Chair: TBD

From Hotelling to DCDP Model: A New Approach for Microeconomic Empirical Work in Oil and Gas Extraction
Jinmahn Jo, Mark Agerton
University of California – Davis

In-Sample Analysis of Bayesian Symbolic Regression Applied to Crude Oil Price
Krzysztof Drchal
University of Warsaw

Optimization Model for Crude Oil Allocation in Nigeria under Global Energy Transition Dynamics
Kaase Gbakon1, Joseph Ajienka1, Joshua Gogo1, Omowumi Iledare2
1University of Port Harcourt, 2UCC Institute for Energy and Gas Studies

The Impact of Decarbonising Offshore Fields on Investment Planning of the North Sea Energy System
Hongyu Zhang1, Asgeir Tomasgard1, Brage Rugstad Knudsen1, Ignacio E. Grossmann1
1Norwegian University of Science and Technology, 2SINTEF Energy Research, 3Carnegie Mellon University

D3. Energy Access

Research Meeting Room 4B
Chair: Koji Shimada

Sustainable and Efficient Resource Utilization of Waste and Water in Energy Transition
Matthias Maidet, Georg Letter, Daniel Schwabender
Technical University Vienna Energy Economics Group

Procurement Auction Design for Photovoltaic Energy under the Uncertainty of Generation Efficiency
Jiheok Jung1, Chan-oi Song1, Deok-Joo Lee2, Kiho Yoon2
1Seoul National University, 2Korea University

Measuring Energy Poverty: Focusing on Access and Affordability
Yuxiang Ye, Steven F. Koch
University of Pretoria

Analyzing COVID-19 Lockdown Impacts on Vulnerable Households – Case of College Students in Japan
Amin Nazarahari, Koji Tokimatsu
Tokyo Institute of Technology

D4. Petroleum 2

F-404 (4F)
Chair: Kentaka Aruga

Japanese Oil Companies’ Long-Term Strategies for the Paris Agreement: Comparison with Oil Majors
Hiroyuki Okamoto1, Reiji Takeishi2
1Nagoya City University, 2Tokyo International University

“We Don’t Want to Be the Bad Guys”: Making Sense of the Oil Industry’s Energy Transition Paradox
Krista Halltunen, Iain Staffell, Raphael Slade
Imperial College London

Oil & Gas Investment Challenges Affecting the Industry
Julio Arboleda1, Hamid AlSadoon2
KAPSARC
Oil Market Stabilization: The Performance of OPEC+
Hossa Almutairi¹, Axel Pierru¹, James L. Smith¹
¹KAPSARC, ²Edwin L. Cox School of Business

D5. Energy Modeling 8
Lecture Room B

Equitable Decarbonization of Heat Supply in Residential Multi-Apartment Rental Buildings: Optimal Subsidy Allocation between the Property Owner and Tenants
Sebastian Zwickl-Bernhard, Hans Auer, Antonia Golab
Energy Economics Group (EEG)

A Whole System Approach for Comparative Assessment of Electrification and Low Carbon Gases for Decarbonising Heating
Pooya Hoseinpoori, Richard Hanna, Nilay Shah, Jeremy Woods, Christos N. Markides
Imperial College London

Role of Synthetic Methane for the Carbon Neutrality and the Transition in Gaseous Fuels
Keigo Akimoto, Fuminori Sano
Research Institute of Innovative Technology for the Earth (RITE)

Lecture Room C
Chair: Dina Azghaliyeva

Dealing with Uncertainty While Developing Bid Strategy for CFD Auctions.
Nicholas P. Kell¹,², Thomas Morstyn¹, Iraklis Lazakis¹, Ernesto Santibanez-Borda¹, Ajit C. Pillai¹
¹The University of Edinburgh, ²EDF Energy R&D UK Centre, ³University of Strathclyde, ⁴University of Exeter

Analysis of Crowdfunding as a Community-Based Financing Source for Renewable Energy in Indonesia
Massita Ayu Cindy Putriastuti, Vivi Fitrifianti, Vivid Amalia Khusus, Inka B. Yusgiantoro
Purnomo Yusgiantoro Center

The Impact of Merchant Risk on the Capital Structure of Offshore Wind Farms
Mak Dukan¹, Dogan Keles¹, Lena Kitzing²
¹DTU Management, ²DTU Wind

Firm Transition Strategies: The Effect of Emission Restrictions and Uncertainty on Asset Mix Choices
Sofia A. Berdyusheva, Svetlana A. Ikonnikova
TUM School of Management

D7. Electricity 9
Lecture Room D
Chair: Govinda Timilsina

What Duality Theory Says about Giving Market Operators the Authority to Dispatch Energy Storage
Yuzhou Jiang, Ramteer Sioshansi
The Ohio State University

The Social and Environmental Values of Energy Storage in the Presence of Renewables
Clarisse Dupont¹, Olga Kuryatnikova², Yashar Ghiassi-Farrokhhalf¹, Derek Bunn²
¹Rotterdam School of Management, ²Erasmus School of Economics, ³London Business School

D8. Energy Modeling 7
Lecture Room E
Chair: Kazutomo Irie

Regional Attitude-Driven Just Energy Transition
Judy Jingwei Xie, Iain Staffell, Joeri Rogelj
Centre for Environmental Policy, Imperial College London

Dynamic Participation in Local Energy Communities over the Horizon of Several Years
Theresa Perger
TU Wien

Prosumers with PV-Battery Systems in the Electricity Markets – A Mixed Complementarity Approach
Felix Meurer, Marco Breder, Christoph Weber
University Duisburg-Essen

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Design Evolution of Feed-in Tariffs for Low-Carbon Electricity: Towards a Global Picture
Magdalena M. Klemun
The Hong Kong University of Science and Technology

Global Renewable LCOE – Including Socio-Economic Factors in Assessments of Resource Potential
Xiaoming Kan, Lina Reichenberg, Fredrik Hedenus, David Daniels
Chalmers University of Technology

When the Chips Are Down: An Incentivized Analysis of Preferences for Green Electricity in Switzerland
Betz, Regina¹, Grieder, Manuel¹,², Nicklisch, Andreas³
¹Zurich University of Applied Sciences, ²ETH Zurich, ³Friedrich-Alexander University of Erlangen-Nuremberg
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Chair: Atsushi Kurosawa

Evaluating the Impact of Road Freight Uberization on the Trucking Sector
Xun Xu1, Tianduo Peng2, Zhandong Xu2, Mi Gan3
1King Abdullah Petroleum Studies and Research Center, 2Institute of Climate Change and Sustainable Development, Tsinghua University, 3Southwest Jiaotong University

Another Source of Inequality? How Grid Reinforcement Costs Differ by Socio-Economic EV User Groups
Sarah A. Steinbach, Maximilian J. Blaschke
Technical University of Munich

Empirical Analysis of the Depreciation of Electric Vehicles Compared to Gasoline Vehicles
Lukas Schloter
Technical University Munich

D11. Energy and the Economy 4
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Carbon Border Adjustment to Avoid Carbon Leakage for Europe’s Chemical Industry? A Life-Cycle Based Assessment
Hannah Minten1, Julian Hausweiler1, Benedict Probst2,3, Christiane Reinert1, Raoul Mey1, André Bardow1,5
1RWTH Aachen University, 2ETH Zurich, 3University of California Santa Cruz, 4Carbon Minds GmbH, 5Institute for Energy and Climate Research [IEK-10], Forschungszentrum Jülich

Providing Flexibility in European Power Systems by Decarbonising the Iron and Steel Industry
Annika Boldrini1,2, Derck Koolen1, Wina Crijns-Graus2, Machteld van den Broek3
1Joint Research Centre – European Commission, 2Utrecht University, 3University of Groningen

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Selahattin Murat Sirin1, Dilek Uz2, Irem Sevindik2
1Western University, 2University of Nevada – Reno

Cabot Clément1, Villavicencio Manuel1
1MINES ParisTech, PSL University, Centre for Industrial Economics (CERNA), 2Chair European Electricity Markets, PSL Research University, LEDa [CGEMP]

Power Sector Regulation and Private Sector Participation in Africa
Alpha Ly1, Raja Chakir2, Anna Creti1
1Université Paris Dauphine, 2Université Paris-Saclay

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1Hong Kong Baptist University, 2Shenzhen University, 3University of Canterbury, 4Education University of Hong Kong, 5Tel Aviv University, 6University of Texas at Austin

How Do Consumers Respond to Price Complexity? Experimental Evidence from the Power Sector
Grant Jacobsen1, James Stewart2
1University of Oregon, 2The Cadmus Group

Impact of Rapid Expansion of Renewable Energy on Electricity Market Prices
Mizue Shimomura1, Alexander Ryota Keeley1, Ken’ichi Matsumoto2, Kenta Tanaka2, Shunsuke Managi1
1Kyushu University, 2Toyo University, 3Musashi University

The Impact of the Feed-in-Tariff Exemption on Energy Consumption in Japanese Industrial Plants
Aline Mortha, Naonari Yajima, Toshi H. Arimura
Waseda University
Social Norms and Individual Climate Protection Activities: A Framed Field Experiment for Germany
Daniel Engler, Gunnar Gutsche, Amantia Simixhiu, Andreas Ziegler
University of Kassel

Endogenous Preferences and Climate Policy
Halvor Briseid Storrøsten, Hidemichi Yonezawa
Statistics Norway

Analyzing Long-Run Welfare Implications of Green Policy in a R&D Driven Growth Model
Deniz E Boz, Carol Dahl, Jared Carbone
Colorado School of Mines

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Koichiro Hayashi
NYK Line

Which Framing Effects, and for Whom, to Promote Pro-Environmental Behaviors?
Benoît Cheze1,2, Pascal Gastineau3, Charles Collet1, Pierre-Alexandre Mahieu1, Frédéric Martinez3
1IFPEN, 2EconomiX-CNRS, Univ. Paris Nanterre, 3Univ. Gustave Eiffel, 4CIRED-CNRS, 5Univ. Nantes

Economics of Sustainable Hydrogen-Fuels for Trucking, Shipping and Aviation
Jonas Martin1, Anne Neumann1, Anders Ødegård2
1Norwegian University of Science and Technology, 2SIKEF

Global Economic and Environmental Impacts of Deploying Synthetic Jet Fuels in the Aviation Sector
Lucas Desport1, Sergey Pattsev1, Jennifer Morris1, Howard Herzog1, Angelo Gurgel2, Henry Chen3, Sandrine Selosse1
1Mines Paris, 2Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology

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The Book Value and Future Perspective of Coal Power Plants in India
Shiro Hori, Yukio Chikusaka
Fukuoka University

Moisture Effect on Co2 Adsorption on Coal
Theodora Noely Tambaria1,2, Yuchi Sugai1, Ferian Anggara2
1Kyushu University, 2Universitas Gadjah Mada

Times-DZA Prospective Modeling in Algeria – Shale Gas Development Strategy as a Way out of Energy Dilemma
Naima Chabouni, Edi Assoumou, Nadia Maizi
MINES ParisTech, CMA - Centre de Mathématiques Appliquées

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Franz Wirt1, Markus Eigruber2
1University of Vienna, 2Vienna University of Technology

Analysis of Electricity Market Under Extensive Penetration of Renewable Energy with Multi-Agent Reinforcement Learning
Kanta Kagawa, Ryoichi Komiyama, Yasumasa Fujii
The University of Tokyo

Optimal Emissions under Exogenous and Endogenous Learning
Coppens Léo1, Dietz Simon2,3,4, Venmans Frank2,3,4
1University of Mons, 2ESRC Centre for Climate Change Economics and Policy, 3Grantham Research Institute on Climate Change and the Environment, 4London School of Economics and Political Science

Artificial Intelligence Applications in Hourly Energy Use Intensity Prediction
Kai-Yun Lo, I-Yun Lisa Hsieh
National Taiwan University

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Adonis Yatchew1, Derek E. H. Olmstead2
1University of Toronto, 2Alberta Market Surveillance Administrator
Compounded Real Options for Sequential Decision-Making in the Case of Electricity Distribution Networks
Jean Pierre Dib, Marie-Cécile Alvarez, Oana Ionescu, Bertrand Raison
Univ. Grenoble Alpes, CNRS, Grenoble INP
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Chair: Hiroyuki Okamoto

Distributed Generation Investment Strategies for Hybrid Solar Projects in Ontario, Canada
Philip R. Walsh¹, Troy Bell¹, Alex P.Walsh²
¹Ryerson University, ²University of Portsmouth
No Alarms and No Surprises - Dynamics of Renewable Energy Curtailment in California
Javier López Prol¹, David Zilberman²
¹Yonse University, ²U.C. Berkeley

Regional Variation in Health and Financial Benefits of Energy Storage Deployment in US
Rui Shan, Noah Kittner
University of North Carolina at Chapel Hill
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Asymmetric Supply Function Equilibrium: Case Studies on Japanese Electricity Markets
Kenjiro Yagi, Ramteen Sioshansi
The Ohio State University

Renewable Energy Production and Environmental Policy Stringency
Shaiara Husain¹, Kazi Sohag³, Yanrui Wu¹
¹Business School, University of Western Australia, ²Graduate School of Economics and Management, Ural Federal University
A Toy Model for Decentralized Energy Systems Evolution
Rémi Delage, Toshihiko Nakata
Tohoku University Graduate School of Engineering
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Xin Wen, Marc Jaxa-Rozen, Evelina Trutnevye
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Leonard Göke¹,², Jens Weibezahn¹,³
¹TU Berlin, ²DIW Berlin, ³Copenhagen School of Energy Infrastructure
Optimization of an Energy System Model Coupled with a Numerical Hydrothermal Groundwater Simulation
Smajil Halilovic¹, Leonhard Odersky¹, Fabian Böttcher¹, Kyle Davis¹, Miriam Schulte¹, Kai Zosseder¹, Thomas Hamacher¹
¹Technical University of Munich, ²University of Stuttgart

Technical Change Analysis and Technology Learning Curves: A Nonparametric Frontier Approach
Tooraj Jamasb, Manuel Llorca
Copenhagen School of Energy Infrastructure, Copenhagen Business School
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Kristoffer Steen Andersen¹, Ida Damsgaard², Kasper Beck Kraglund Sørensen¹, Jens Weibezahn¹,³
¹Danish Energy Agency, ²Copenhagen Business School, Copenhagen School of Energy Infrastructure, ³TU Berlin

A Reinforcement Learning Approach to Home Energy Management for Modulating Heat Pumps and Photovoltaic Systems
Lissy Langer, Thomas Volling
Technische Universität Berlin, Working Group Production and Operations Management
Impacts of Demand Response and Surplus Heat Recovery in Data Centres on the Danish Energy System
Juan Jerez Monsalves, Claire Bergaentzlé, Dogan Keles, Juan Gea-Bermúdez
Technical University of Denmark
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Darius Corbier, Frederic Gonand
Paris-Dauphine University PSL
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Claudia Kettner¹, Michael Böheim¹, Mark Sommer¹, Udo Bachhiesl², Robert Gaugl¹, Lia Gruber¹, Thomas Florian Klatzer¹, Sonja Wogrin¹, Kurt Kratena³
¹Austrian Institute of Economic Research (WIFO), ²Graz University of Technology, ³Centre of Economic Scenario Analysis and Research (CESAR)
Innovation Signals and Priorities: A Case Study from Leading Energy Clusters in Germany
Jiao Jiao, Denilton Darold Luiz, Mahendra Singh, Marian Klofasa
Fraunhofer ISI

A Weekly Structural Var Model of the US Crude Oil Market
Daniele Valenti1,2, Andrea Bastianin2, Matteo Manera1,3
1 Fondazione Eni Enrico Mattei, 2 University of Milan, 3 University of Milan

Life Cycle Analysis of a Direct Air Capture and Utilization System – Toward Negative Emissions
Tianhui Fan, Dyah Ika Rinawati, Andrew Chapman
Kyushu University

The Role of Policy Instruments on Deployment of Carbon Capture and Storage Technologies in Turkey
Yasar M. Yetiskin1,2, Niall Mac Dowell3, John Mumford4, Fehmi Görkem Üçtuğ5
1 ICF International Inc., 2 Imperial College London, 3 Izmir University of Economics

LCA Study on the International Cooperation of Carbon Circulation by Cryo-DAC and CN-Methane
Mitsuo Yamada1, Yoshito Umeda2, Yoichi Tanaka3, Keiko Nakayama4, Soichiro Masuda5, Masahisa Koizumi6, Koyo Norinaga7
1 Chukyo University Institute of Economics, 2 Nagoya University Graduate School of Engineering, 3 Toho Gas Co., Ltd. Technical Research Institute

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Yuan Xu1, Tarun Sharma2
1 The Chinese University of Hong Kong, 2 Indian Institute of Technology Roorkee

Assessing the Emission Consequences of an Energy Rebound Effect in Private Cars in Israel
Aviv Steren, Stav Rosenzweig, Ofir D. Rubin
Ben-Gurion University of the Negev

Cost Benefit Analysis of Hydrogen for Energy Transition in Container Glass Sector: A Case Study
Maryam Sadigh1,2, Elodie Le Cadre Loret1, Maria Eugenia Sanín1, Jean-Pierre Ponsass4, Murès Zarea1
1 ENGIE Research, 2 University of Paris-Saclay, 4 CREST-CNRS

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Germán Bersálli1, Johan Lilliestam1, Tim Troendle2
1 IASS Potsdam, 2 ETH Zurich

Can Flexible Resources Be Adequately Compensated in Low-Marginal Cost Systems?
Conleigh Byers, Gabriela Hug
ETH Zurich

A Hybrid System Dynamics Model of Power Adequacy and Decarbonization in an Electricity Market
Yilun Luo, Esmaeil Ahmadi, Benjamin C. McLellan, Tetsuo Tezuka
Kyoto University

On the Valuation of Historical Nuclear Production via Option Pricing: A Stochastic Equilibrium Approach with Risk Aversion
Ibrahim Abada1, Mustapha Belkhouja1, Andreas Ehrenmann2
1 Grenoble Ecole de Management, 2 ENGIE Impact

How Can CCUS Play Its Needed Role in Climate Policy
Carol Daht1, Chuxuan Sun1, Jingzhou Wang9
1 Mineral & Energy Economics Program, Colorado School of Mines, 2 China University of Petroleum

Impact

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Internationalizing CCUS Chains for India’s Carbon Neutrality
Yuan Xu1, Tarun Sharma2
1 The Chinese University of Hong Kong, 2 Indian Institute of Technology Roorkee

Evaluation of Generation Efficiency for Solar Power Plants in China Based on Stochastic Data
Xian-Peng Chen, Bai-Chen Xie
Tianjin University

Comparative Analysis of Operational Efficiency of Large-Scale Solar Power Generation Companies
Nan Chen, Mika Goto
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Chair: Peter R. Hartley

The Role of Natural Gas in Mitigating Greenhouse Gas Emissions: The Environmental Kuznets Curve Hypothesis for the Selected Gas Producing Countries
Hussein Moghaddam¹, Robert M. Kunst²
¹Gas Exporting Countries Forum (GECF), ²University of Vienna

Natural Gas in the Transition to Low-Carbon Transport Systems: Focus on Marine Bunkering and NGVs
Alexander Ermakov
Gas Exporting Countries Forum (GECF)

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Daniel Gatscher, Svetlana A. Ikonnikova
Technical University of Munich

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Hiroaki Onodera, Rémi Delage, Kazuyoshi Nemoto, Toshihiko Nakata
Tohoku University, Graduate School of Engineering

Analysis of Carbon Tax Effect on Long-Term Low Greenhouse Gas Emission Strategies in Korea
Hwarang Lee¹, Jeongeun Lee², Yoonmo Koo³
¹Korea Institute of Energy Research, ²Seoul National University

Whither User Taxes on Network Electricity Infrastructure?
Fernando Navajas
FIEL and University of Buenos Aires

Implications of Energy Sufficiency on Electricity Demand and System Costs : A Quantified Assessment
Bianka Shoaie-Tehrani, Gersende Chaffardon, Jean-Baptiste Arnoux, Gaelle Lestage, Emeric Benoni, Pascal Ghibelli
RTÉ, Power Systems Economics Division

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Evaluating Investment Cost for Hydro Power Projects in Uganda
Brendah Akankunda¹, Alice Arinaitwe¹, Kassim Alinda¹, Benard Wafuila Wandera², Muyiwa S Adaramola³
¹Makerere University Business School, ²Makerere University, ³Norwegian University of Life Sciences

Incorporating Novel Renewable Energy Cooperatives to Scale-Up Smart Local Energy Systems for UK’s Net Zero Future
Pei-Hao Li, Elsa Brazza, Neil Strachan
UCL Energy Institute

Dirtier or Cleaner? An Empirical Analysis of China’s Overseas Energy Infrastructure Projects
Banban Wang, Ping Lin
Huazhong University of Science and Technology

International Climate Finance to Accelerate the Low-Carbon Transition in Emerging Countries? A Global Assessment of Financial De-Risking Potential
Briera Thibault, Lefèvre Julien
CIRED

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Grégoire Noël¹, Gaël Giraud²
¹Sorbonne Economics Centre, Paris-1 Sorbonne University, ²Georgetown University

Green Hydrogen - A Promise of Success: How Green Does It Really Have to Be to Play a Leading Role in the Energy Transition?
Johannes Brauer¹, Villavicencio Manuel²
¹MINES ParisTech, PSL University, Centre for industrial economics (CERNA), ²European Electricity Markets, PSL Research University, LEDa [CGEMP]
Alexis Lebeau\textsuperscript{1,2}, Marcelo Saguan\textsuperscript{1}, Marie Petitet\textsuperscript{1}, Yannick Perez\textsuperscript{2}, Olivier Massot\textsuperscript{1,2}
\textsuperscript{1}EDF R&D, \textsuperscript{2}CentraleSupélec, \textsuperscript{3}KAPSARC, \textsuperscript{4}IFPEN

Optimal Investment Strategy in Renewable Power Under Demand Uncertainty
Alicia Bassière\textsuperscript{1}, Peter Tankov\textsuperscript{1}, David Benatia\textsuperscript{2}
\textsuperscript{1}CREST (ENSAE), \textsuperscript{2}HEC Montréal

Strategies of Decarbonization. Applied Industrial Symbiosis to Low Carbon Hydrogen
Raphaël Guionie\textsuperscript{1}, Rodica Loisel\textsuperscript{1}, Lionel Lemial\textsuperscript{1}, Mathias Guerineau\textsuperscript{2}
\textsuperscript{1}Université de Nantes, LEMNA, \textsuperscript{2}Université de Nantes

Perceived Feasibility and Desirability of Japan’s Decarbonization Transition: Expert Perspectives
Yiyi Ju\textsuperscript{1}, Masahiro Sugiyama\textsuperscript{2}, Hiroto Shiraki\textsuperscript{3}
\textsuperscript{1}Waseda University, \textsuperscript{2}University of Tokyo, \textsuperscript{3}University of Shiga Prefecture

An Evaluation of Food-Energy-Water Nexus Footprint: Case of Pune District in Maharashtra, India
Kakali Mukhopadhyay\textsuperscript{1,2}, Vishnu S. Prabhu\textsuperscript{1}, Shraddha Shrivastava\textsuperscript{1}, Ananya Ajatasatru\textsuperscript{1}
\textsuperscript{1}GIPE, \textsuperscript{2}McGill University

Economics and Roles of E-GAS towards City Gas Decarbonization
Yoshiaki Shibata
The Institute of Energy Economics, Japan

Relationship between Fuel Economy, Vehicle Electrification, and Rural Welfare in the United States
Jerome Dumortier
O’Neill School of Public and Environmental Affairs, Indiana University and Purdue University

Green Hydrogen Based Residential Hydrogen Systems
G. Squadrito\textsuperscript{1}, G. Baiardo\textsuperscript{2}, G. Maggio\textsuperscript{1}, M. Santarelli\textsuperscript{2}, A. Nicita\textsuperscript{1}
\textsuperscript{1}CNR-ITAE, \textsuperscript{2}Turin Polytechnic

Uncovering Blind Spots in the Energy & Transport Sectors: Divergent Thinking on Transport Decarbonisation
Hannah E. Murdock, Iain Staffell
Centre for Environmental Policy, Imperial College London

Global Oil Market in Constrained Energy Transition Scenarios
Abdullah Aljarboua, Fatih Karanfil, Bertrand Rioux, Axel Pierru
KAPSARC

Fiscal Policy in Oil-Exporting Countries, Cost of Adjusting Expenditures, and Financial Constraints
Olivier Durand-Lasserre, Fatih Karanfil
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Charging the Macroeconomy with an Energy Sector: An Agent-Based Model
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\textsuperscript{1}Fondazione Eni Enrico Mattei, \textsuperscript{2}Università degli Studi di Brescia

Opportunity Costs and Discount Rates for Public Assessment of Oil-Related Projects and Policies in Oil-Exporting Countries
Fatih Karanfil, Axel Pierru
KAPSARC

A Multivariate STIRPAT and Convergence Approach to the Water–Energy–Food Nexus
Carlo Andrea Bollino\textsuperscript{1,2}, Marzio Galeotti\textsuperscript{3,2}
\textsuperscript{1}Department of Economics, University of Perugia, \textsuperscript{2}KAPSARC, \textsuperscript{3}Department of Environmental Science and Policy, University of Milan

Preferences for Dynamic Electricity Tariffs: A Comparison between Germany and Japan
Miwa Nakai\textsuperscript{1}, Victor von Loessl\textsuperscript{1}, Heike Wetzel\textsuperscript{1}
\textsuperscript{1}Fukui Prefectural University, \textsuperscript{2}University of Kassel
Decarbonisation of Energy in the European Union by 2050: Challenges and Potentials
József Popp¹, Judit Oláh²
¹John von Neumann University, Hungarian National Bank – Research Center, ²University of Debrecen

Effect of Economic Policy Uncertainty on Air Pollution: Evidence from China
Lin Li, Dong Chen, Jiahui Yi, Yu Zhang, Jinhua Cheng
China University of Geosciences (Wuhan)

Assessing the Relationship between Kaya Identity and Carbon Emissions: An Econometric and Mediation Analysis Studies in G20 and ASEAN Member States
I Dewa Made Raditya Margenta, Filda Citra Yusgiantoro, Felicia Grace Utomo, Haryanto
Purnomo Yusgiantoro Center

Co-Creating Shared Visions for A Neutral Economy in 2050: The Case of Portugal
Rita Lopes¹, Sandra Martinho⁵, Julia Seixas¹, Patricia Fortes¹, João Pedro Gouveia¹, Luis Dias¹
¹CENSE—Center for Environmental and Sustainability Research, ²NOVA School of Science and Technology, NOVA University Lisbon, ³LastingValues

Identifying Community Inclusions of Rural Solar PV Projects in Co-Ownership Model
Deanty Mulia Ramadhani, Masachika Suzuki
Sophia University

Consistency between Carbon Neutrality and Spatial Issue of Renewable Energy: A Case in Japan
Hideaki Obane¹, Takashi Otsuki², Matsuo Yuji³
¹The Institute of Energy Economics, Japan, ²Yokohama National University, ³Ritsumeikan Asia Pacific University

Petroleum Resource and Balancing Energy Trilemma: Empirical Evidence from Oil Producers in Africa
Aminu Osman, Omowumi Iledare, Isaac Bentum-Ennin
University of Cape Coast

The Effects of Energy Retrofit Policies on Fuel Poverty: Evidence from the French White Certificates Scheme
Victor Kahn
Mines-PSL

Evaluating Impacts of Carbon Tax on Energy Selection Focusing on Perception of Risk by Consumers
Yuta Nakadegawa, Kengo Suzuki
University of Tsukuba

Political Coordination of Multi-Participants in Solar Photovoltaic’s Policymaking Process in China
Shasha Li, Hiroaki Nagayama, Shutaro Takeda
Kyoto University
Tokyo Metropolitan Government will offer the following cultural programs for your meeting during lunch breaks. The programs will be provided for all foreign delegates to welcome them to Tokyo.

**Offered programs:**
1. “Chigiri-e” traditional Japanese paper collage art
2. “Ori-gami” Japanese paper craft

<table>
<thead>
<tr>
<th>Date</th>
<th>1st session</th>
<th>2nd session</th>
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<tbody>
<tr>
<td>Mon, August 1</td>
<td>12:20—12:50</td>
<td>13:00—13:30</td>
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<tr>
<td></td>
<td><em>Chigiri-e” traditional Japanese paper collage art</em> (20 persons)</td>
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<tr>
<td>Tue, August 2</td>
<td>12:20—12:50</td>
<td>13:00—13:30</td>
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<td><em>“Ori-gami” Japanese paper craft</em> (20 persons)</td>
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<tr>
<td>Wed, August 3</td>
<td>12:20—12:50</td>
<td>13:00—13:30</td>
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<tr>
<td></td>
<td><em>“Ori-gami” Japanese paper craft</em> (20 persons)</td>
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These programs will be offered 2 times a day with a maximum of 20 participants per session.

**◆ “Chigiri-e” traditional Japanese paper collage art**

Chigiri-e is a collage of traditional Japanese paper. This paper is called “Washi.” “Washi” dates back to ancient times and was made by craftsmen who endured extremely cold winters to carefully create sheets of washi. You can make a beautiful picture by tearing off pieces of colorful washi, and attaching them to a card with glue. It is quick and easy for anybody to create a vibrant piece of paper art. Please create a unique Chigiri-e souvenir to remember your trip by.

**◆ “Ori-gami” Japanese paper craft**

Ori-gami, literally meaning “folding paper”, is a traditional Japanese art. It is the art of transforming a flat square sheet of paper into a finished sculpture. You can create almost anything with ori-gami, from a simple airplane to flowers and animals. The most popular ori-gami is probably the Japanese crane, which you may have seen before.

At the venue, you can make a colorful and original ori-gami using traditional Japanese paper called chiyogami.

**How to join**

Please come to room 3B on the 3rd floor. We recommend you arrive in good time to avoid disappointment as the cultural program is offered on a first-come-first-serve basis. The staff in Japanese “happi” gowns will help you if you have any questions about the cultural programs.

Participants of the complimentary programs above may be photographed/filmed by an authorized photographer/cameraman for the purpose of our records and future promotion of Tokyo. By joining these programs, you agree that your image may be used in full / in part and distributed for the above-mentioned purposes.
Gala Dinner at Palace Hotel Tokyo

Evening on 1 August, 2022
Dress Code : Business attire (tie required)

A Gala Dinner awaits you on the second day of the conference at Palace Hotel Tokyo. With an incomparable perspective on the city and a singular, moat-side setting just opposite the Imperial Palace gardens, the Forbes Travel Guide Five-Star Palace Hotel Tokyo is a haven of hospitality – serene and refined, and imbued with understated luxury throughout. Paying homage to a legacy that dates back more than half a century, the multi-award-winning modern masterpiece is a sophisticated celebration of its country's culture and a tribute to omotenashi – Japanese hospitality.

The Gala Dinner is not open to all participants. Certain attendees with reduced rate registration categories are not eligible to attend. Please check the website for eligibility requirements for the Gala Dinner.

It takes about 20 minutes to Palace Hotel Tokyo by taking the subway (from Nogizaka Station to Otemachi Station on Chiyoda Line). Direct access to the hotel is available from Otemachi Metro (subway) Station Exit C13b via underground passageway.
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IAEE HISTORY

We aim to provide an interdisciplinary forum for the exchange of ideas about the energy industry.

1977
- Energy Journal created

1979
- Economics of Energy & Environmental Policy (Since 2012)

1980
- EEEP created

Now
- Reduced fee for submitting articles to IAEE journals
- Access to member reserved webpage giving access to conference proceedings, past issues of IAEE journals etc.

MEMBERS 3,100
COUNTRIES 87
North America 560
Europa 1,600
Far East, Oceania and Elsewhere 940

OUR MEMBERS

Researchers & Consultants 16%
Academic 4%
International Organizations & Other Corporations 4%
Utilities 4%
Government 2%
Trade Associations & Journalists 2%
Financial Institutions 2%
Students 20%
Other 16%

PUBLICATIONS

The Energy Journal (Since 1980) 43 volumes
The Energy Forum (Since 1996) 31 volumes
Economics of Energy & Environmental Policy (Since 2012) 11 volumes
Online Conference Proceedings (Since 1979) 222 volumes

SOME MEMBERSHIP BENEFITS

1. Reduced fee for submitting articles to IAEE journals
2. Reduced fee for IAEE conferences
3. Access to member reserved webpage giving access to conference proceedings, past issues of IAEE journals etc.
4. Organizations can also become members

WWW.IAEE.ORG
INFECTION PREVENTION MEASURES

We will be implementing the following infection prevention measures and request the cooperation of all attendees.

Implementation of infection prevention measures at the venue

- Implementation of disinfection measures
  In certain sections of the lecture halls such as the podium, chairperson’s seat and speaker’s seat, we will install panels to prevent the transmission of droplets. We will regularly disinfect equipment such as microphones.
  
- Implementation of lunch time meal measures
  We will provide packaged meals such as lunch boxes. Please quietly eat and drink within the venue and put on your mask once you have finished eating.

- Ventilation
  We will ensure maximum ventilation by keeping the doors of the lecture hall and windows open as much as possible.

Our requests regarding the cooperation of attendees

We request that attendees cooperate with the following measures.

1. Implementation of temperature measurement
   We will take a temperature measurement when people arrive at the venue. Everyone will have their temperature measured including all attendees and management staff. We will refuse entry for people who have a fever of above 37.5°C.

2. Implementation of hand sanitization
   We will install alcohol disinfectants at the building entrance and the lecture hall entrance. When you go on stage, please ensure that you sanitize your hands with the alcohol disinfectant which we have installed for your use. Please also wash your hands frequently.

3. Wearing a mask
   Please ensure that you wear a mask while you are at the venue.

※ We request that you refrain from attending in the following cases.

- If you have a fever of above 37.5°C, cough, sore throat, fatigue, or breathing difficulties.
- If you have received confirmation that you are a close contact with a person who has tested positive for COVID-19.
- If you are experiencing an impaired sense of smell and taste.
- If you have travelled within the past 14 days to countries or regions which are experiencing a continuing rise in infection cases.
- If you have been in close contact within the past 14 days with a traveler or resident from countries or regions where immigration restrictions into Japan are implemented.

Other measures

Even after you leave the venue, please continue to individually implement infection prevention measures (For example, refrain from eating together in large numbers).

Please understand that if a COVID-19 infection occurs, we may need to disclose your personal information on the request of government organizations or local authorities in order to identify the transmission route of the infection.
**GENERAL INFORMATION**

IAEE Tokyo conference be held as a hybrid conference. You can participate either in Tokyo at the National Graduate Institute for Policy Studies (GRIPS) or online.

**Date:** 31 July - 4 August 2022  
**Venue:** The National Graduate Institute for Policy Studies (GRIPS)  
7-chome Roppongi 22-1, Minato-ku, Tokyo  
**Organizers:** The Institute of Energy Economics, Japan (IEEJ)  
The National Graduate Institute for Policy Studies (GRIPS)

**Schedule:**

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<td>31 July 2022 (Sunday)</td>
<td>Registration, Welcome Reception, Workshop</td>
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<td>1 August 2022 (Monday)</td>
<td>Opening Plenary Session, Concurrent Sessions, Gala Dinner</td>
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<td>2 August 2022 (Tuesday)</td>
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<td>3 August 2022 (Wednesday)</td>
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<td>4 August 2022 (Thursday)</td>
<td>Technical Tour</td>
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43rd IAEE  
INTERNATIONAL CONFERENCE

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https://iaee2022.org/
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