



Asian Development Bank Institute

Workshop on Hydrogen in Decarbonization Strategies in Asia and the Pacific

25 November 2022 (Tokyo time)

Agenda

25 November 2022	
9:50 - 10:00 Tokyo time (10 minutes)	Introduction (technical guidance and speakers' group photo) Dina Azhgaliyeva, Research Fellow, Asian Development Bank Institute (ADBI), Japan
10:00 - 10:10 (10 minutes)	Opening Remarks Tetsushi Sonobe, Dean and CEO, ADBI, Japan
10:10 – 11:55 (105 minutes)	<p>Session I. Hydrogen Society and Cost Chair: Haoran Zhang, Researcher, University of Tokyo, Japan</p> <p>Paper 1: <i>How Can Japan Help Create a Sustainable Hydrogen Society in Asia?</i> Presenter: Nanda Kumar Janardhanan, Research Manager & Regional Research Coordinator, Climate and Energy, Institute for Global Environmental Strategies, Japan Discussant: Jie Yan, Professor, School of Renewable Energy, North China Electric Power University, People's Republic of China Question and Answer (Q&A)</p> <p>Paper 2: <i>Technology Foresight for Hydrogen Society Transition in Japan: An Approach of GTAP-E-Power Model</i> Presenter: Michael C. Huang, Senior Research Fellow, Ocean Policy Research Institute, The Sasakawa Peace Foundation, Japan Discussant: Jiyoung An, Associate Research Fellow, Hydrogen Economy Research Team, Korea Energy Economics Institute, Republic of Korea Q&A</p> <p>Paper 3: <i>Techno-Economic Analysis of Long-Distance Hydrogen Pipeline Transportation</i> Presenter: Zhu Zhu, Master, China University of Petroleum, People's Republic of China Discussant: Victor Nian, Co-Founder and CEO, Centre for Strategic Energy and Resources, Singapore Q&A</p>
11:55 – 12:10 (15 minutes)	Short break
12:10 – 13:10 (60 minutes)	<p>CUE-ADBI Special Session: Hydrogen Supply Chain and Transportation Chair: Dina Azhgaliyeva, Research Fellow, ADBI, Japan</p> <p>Title: <i>Assessing the Impact of Incentive Policy on Green and Blue Hydrogen in People's Republic of China: An Evolutionary Game Theory Perspective</i> Speaker: Cheng Cheng, Associate Professor, School of Management Science and Engineering, Shanxi University of Finance and Economics, People's Republic of China</p>

	<p>Q&A</p> <p>Title: <i>Which Is the Best Way to Export Extra Renewable Energy from an Island: Hydrogen or Electricity?</i> Speaker: Bohong Wang, Lecturer, Zhejiang Ocean University, People's Republic of China Q&A</p> <p>Title: <i>Comprehensive Analysis for the Impact of Hydrogen Blending on the Economic Performance of Natural Gas Pipeline Network</i> Speaker: Bo Zhang, PhD candidate, China University of Petroleum, People's Republic of China Q&A</p>
<p>13:10 – 13:30 (20 minutes)</p>	<p>Short break</p>
<p>13:30 – 15:15 (105 minutes)</p>	<p>Session II. Hydrogen Economy Chair: K E Seetha Ram, Senior Consulting Specialist for Capacity Building and Training Projects, ADBI, Japan</p> <p>Paper 4: <i>Experiences of Transition to Green Hydrogen Economy in Europe and East Asia: Lessons for South Asia</i> Presenters: Falendra Kumar, Professor, Department of Economics, University of Jammu, India Discussant: Yuntian Chen, Assistant Professor, Engineering, Eastern Institute for Advanced Science, People's Republic of China Q&A</p> <p>Paper 5: <i>Towards Hydrogen Economy in Kazakhstan</i> Presenter: Saule Zholdayakova, Acting Head, Hydrogen Energy Competence Center, KMG Engineering, Kazakhstan Discussant: Ranjeeta Mishra, Economist, Reserve Bank of India, India Q&A</p> <p>Paper 6: <i>Role and Development Pathways of Hydrogen in the Renewable Dominated Energy System</i> Presenter: Han Wang, Research Associate, Department of Electrical Engineering, Tsinghua University, People's Republic of China Discussant: Eric Zusman, Senior Policy Researcher and Area Leader, Integrated Sustainability Centre, Institute for Global Environmental Strategies, Japan Q&A</p>
<p>15:15 – 15:30 (15 minutes)</p>	<p>Short break</p>
<p>15:30 – 17:15 (105 minutes)</p>	<p>Session III. Hydrogen in Industry and Transport Sectors Chair: Priyantha Wijayatunga, Chief of Energy Sector Group, Sustainable Development and Climate Change Department, ADB, Philippines</p> <p>Paper 7: <i>Future Hydrogen Society: India and the World</i> Presenters: Ranjeeta Mishra, Economist, Reserve Bank of India, India Discussant: Haoran Zhang, Researcher, University of Tokyo, Japan Q&A</p>

	<p>Paper 8: <i>History, Status and Future Challenges of Hydrogen Energy in Transportation Sector</i> Presenter: Wen-Long Shang, Honorary Senior Research Fellow of Imperial College London, United Kingdom and Assistant Professor of Beijing University of Technology, People’s Republic of China Discussant: Manuel Antonio Heredia, Senior Researcher, Research, Asia Pacific Energy Research Centre, Japan Q&A</p> <p>Paper 9: <i>Decarbonizing Industry with Clean Hydrogen in Asia and the Pacific: Status and Perspectives</i> Presenter: Meng Yuan, Postdoc, The Sustainable Energy Planning Research Group, Department of Planning, Aalborg University, Denmark Discussant: Mathieu Geze, Director Asia, HDF Energy, Indonesia Q&A</p>
<p>17:15-17:30 (15 minutes)</p>	<p>Short break</p>
<p>17:30 – 18:40 (70 minutes)</p>	<p>Session IV. Hydrogen Production and Transportation Chair: Aiming Zhou, Senior Advisor to the Vice President, Office of the Vice-President (Operations 1), ADB, Philippines</p> <p>Paper 10: <i>Green Hydrogen Production Cost and Carbon Price: the Case of Ningxia Province in the People’s Republic of China</i> Presenter: Shuang Han, Professor, Research, North China Electric Power University, People’s Republic of China Discussant: Michael C. Huang, Senior Research Fellow, Ocean Policy Research Institute, Sasakawa Peace Foundation, Japan Q&A</p> <p>Paper 11: <i>Green Hydrogen International Market: Barriers and Prospects for South and Southeast Asia</i> Presenter: Livia Sapochetti, MPP/IP Public Policy student, University of Tokyo, Japan Discussant: Saule Zholdayakova, Acting Head, Hydrogen Energy Competence Center, KMG Engineering, Kazakhstan Q&A</p>
<p>18:40-18:50 (10 minutes)</p>	<p>Concluding Remarks Peter Morgan, Senior Consulting Economist and Advisor to the Dean, ADBI, Japan</p>

[Note: 35 minutes for each paper – 15 minutes presenter, 10 minutes discussant, 10 minutes Q&A; for special session, 20 minutes for each paper – 15 minutes presenter, 5 minutes Q&A]