

ASEAN Sustainable Energy Week 2022 (ASE2022)

The 18th Renewable Energy Asia International Conference “Accelerating the Transition to Carbon Neutrality in ASEAN”

Wednesday, 14 September 2022

At Queen Sirikit National Convention Center

Opening Ceremony

08:30-09:00	Arrival of attendees
09:00-09:05	Report on the Objective of ASEAN SUSTAINABLE ENERGY WEEK & ELECTRIC VEHICLE ASIA 2022 Mr. Manu Leopairote Chairman of Informa Markets – Thailand
09:05-09:10	Report on the Objective of Organising 7th International Electric Vehicle Technology Conference and Exhibition (iEVTech 2022) Mr. Krisda Utamote President of Electric Vehicle Association of Thailand
09:10-09:15	Report on the Objective of Organising International Conference-Renewable Energy Asia Conference Prof. Dr. Navadol Laosiripojana Director of the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi (KMUTT)
09:15-09:20	Welcoming Remark Assoc. Prof. Dr. Suvit Tia (TBC) President of King Mongkut's University of Technology Thonburi (KMUTT), Thailand
09:20-09:25	Welcoming Remark Mr. Chiruit Isarangkun Na Ayuthaya President, Thailand Convention and Exhibition Bureau
09:25-09:55	Opening Remark and Keynote Address “Thailand Energy Transition Plan Towards Carbon Neutrality” Mr. Supattanapong Punmeechaow (TBC) Deputy Prime Minister and Minister of Energy, Ministry of Energy, Thailand
09:55-10:05	Official Opening Ceremony and Photo Session
10:05-10:15	Presenting “Sustainability Excellence Awards” and Photo Session
10:15-10:30	Coffee Break

Plenary Session: Accelerating the Transition to Carbon Neutrality in ASEAN

Room: Conference Theater A

Chairperson:	Assoc. Prof. Dr. Amnat Chidthaisong The Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi (KMUTT)
10.30 – 11.00	World Energy Transitions Outlook – the Pathway to 1.5°C Dr. Ute Collier, Deputy Director, Knowledge, Policy and Finance Centre, IRENA, Abu Dhabi, United Arab Emirates
11.00 – 11.30	Modernization of Thailand's Power Sector in Energy Transition Mr. Wattanapong Kurovat, Director General of Energy Policy and Planning Office (EPPO), Ministry of Energy, Thailand
11.30 – 12.00	Renewable Energy Market Design, Implementation and Growth Mr. Roble Poe Velasco-Rosenheim, Director, Asia and the Pacific of I-REC, Netherlands
12.00 – 12.15	A Greener Road for Sustainable Growth Mr. Wison Suntharachan Senior Executive Vice President, Corporate Strategy and Sustainability PTT Oil and Retail Business Public Company Limited

Afternoon: Parallel Sessions

Session I: Clean Hydrogen and CCUS Technology

Room: MR 109 A

This session will review the current situation and future trend of hydrogen & fuel cells, and Carbon Capture, Utilization and Storage (CCUS) technology. Relevant policies and plannings from several countries and important business/industry sectors will also be explored.

Chairperson:	Prof. Dr. Navadol Laosiripojana The Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi (KMUTT)
13.30 – 14.00	Current Status and Future trend of Clean Hydrogen and Fuel Cell Technologies Dr. Visarn Lilavivat; National Energy Technology Center (ENTEC), Thailand
14.00 – 14.30	The Strategies and Policies to Move Hydrogen from Niche to Mainstream Mr. Emanuele Bianco; IRENA, United Arab Emirates
14.30 – 14.45	Coffee Break
14.45 – 15.15	Recent Developments and Challenges of Carbon Capture, Utilization and Storage Assoc. Prof. Dr. Pattaraporn Kim; BCGeTEC, Chulalongkorn University, Thailand
15.15 – 15.45	Hydrogen International Policy and Movement Dr. Thana Sornchamni; PTT Public Company Limited, Thailand

Session II: Decarbonizing Industry with Sustainable Bio, Circular and Green Economy Concept

Room MR 109 B

The session will focus on the role and opportunity of bioenergy for industrial decarbonization with an aim for sustainable energy transition in Thailand, ASEAN and globally. The latest updates on bioenergy technology, business and policy will be shared by various bioenergy expert speakers from Thailand and around the world.

Chairperson:

Dr. Suneerat Fukuda

The Joint Graduate School of Energy and Environment (JGSEE),
King Mongkut's University of Technology Thonburi (KMUTT)

13:30 – 13:35

Session Introduction

Dr. Suneerat Fukuda

13.35 – 14.00

Bioenergy for Industrial Decarbonization in the Energy Transition: Global and ASEAN context

Mr. Jinlei Feng, IRENA, United Arab Emirates

14.00 – 14.25

Opportunity and Barrier of Biomass for Industrial Decarbonization in Thailand

Mr. Natee Sithiprasasana, The Federation of Thai Industries, Thailand

14.25 – 14.45

Coffee Break

14.45 – 15.05

Thermochemical Conversion of Biomass for Bio-Based Energy Use in the Power and Industrial Sector

Dr. Uen Do Lee, Korea Institute of Industrial Technology (KITECH), Korea

15.05 – 15.25

The Role of Bioenergy in Microgrid: Techno-Socioeconomic Aspects

Mr. M K Balaji, Deloitte Consulting LLP, Thailand

15.25 – 15.45

Biomass and Torrefied Biomass for Coal-Fired Boilers: International Experience

Mr. Thomas Chopin, CFO, Blackwood Technology, The Netherlands

Session III:

Room: MR 109 C

Carbon and Climate Neutrality Transition Policy and Management

This session will review policies and plans set up by countries to assure the transition to carbon neutrality economy by 2050. COP26 climate pledge implications for business/industry sectors will be explored and discussed with emphasis on how to accelerate the transition in the context of ASEAN.

Chairman:

Mr. Toru Terai, Embassy of Japan

Dr. Savitri Garivait, The Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi (KMUTT)

13.30 – 13.50

Transition to Carbon Neutrality Economy – Turning Vision into Actions for the EU

Speaker: EU Country or EC (TBC)

13.50 – 14.10

Managing the Transition to a Carbon Neutral Economy in Japan (TBC)

Speaker: Yoshihiro Mizutani, Director for International Cooperation for Transition to Decarbonization and Sustainable Infrastructure, Ministry of the Environment, Japan

14.10 – 14.30

Implications of COP26 Climate Pledges for Industrial Sector in Viet Nam

Speaker: Pham Van Tan, Deputy Director General, Department of Climate Change, Ministry of Natural Resources and Environment of Viet Nam

14.30 – 14.45

Coffee Break

14.45 – 15.05

Visualization of greenhouse gas emissions for decarbonized management

Speaker: Michitaka Tokeiji, CEO, Zeroboard, and 長瀬産業さん (TBC)

Session IV: **Enabling the Energy Transition with Smart Cities, District Energy and Distributed-Energy**

Room: MR 109 D

This session will explore the topics i) Smart Cities, ii) District Energy, and iii) Distributed Energy and how they can support the Energy Transition, and achieving the world's climate targets to become Carbon Neutral by mid-century.

Chairman: **Mr. Peter Lundberg**, The Asia Pacific Urban Energy Association (APUEA)
Dr. Athikom Bangviwat, The Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi (KMUTT)

13:30 – 13:35 **Session Introduction**

Mr. Peter Lundberg, & Dr. Athikom Bangviwat

13.35 – 13.55 **Introduction to the Samyan Smart City Project**

Dr. Sombat Vanichprapa, Senior Consultant, PMCU - Property Management of Chulalongkorn University

13.55 – 14.10 **Distributed Energy**

Black & Veatch (TBC)

14.10 – 14.25 **Meeting the Rising Cooling Demand with District Cooling**

Rana Yusuf Nasir, Vice Chairman Board of Expert of The Indonesia Energy Conservation and Efficiency Society (MASKEEI)

14.25 – 14.40 **The importance of Smart-, and Green- Buildings (Harn Company)**

Dr. Acharawan Chutarat, School of Architecture and Design, King Mongkut's University of Technology Thonburi

14.40– 15.00 **Coffee Break**

15.00 – 15.55 **Panel Discussion, Q&A**

Speakers and Audience

15:55 - 16:00 **Session Summary and Wrap up**

Mr. Peter Lundberg, & Dr. Athikom Bangviwat

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