

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

09.00-09.30	Arrival of attendees
09.30-09.35	Report on the Objective of ASEAN SUSTAINABLE ENERGY WEEK Mr. Manu Leopairote Chairman of Informa Markets - Thailand
09:35-09:40	Report on the Objective of Organising 7 th International Electric Vehicle Technology Conference and Exhibition (iEVTech 2022) & Ambassador Forum “Moving Towards Carbon Neutral Society: Global Cooperation on Electric Mobility” Mr. Krisda Utamote President of Electric Vehicle Association of Thailand
09:40-09:45	Report on the Objective of Organising International Conference-the 18 th Renewable Energy Asia Conference on “Accelerating the Transition to Carbon Neutrality in ASEAN” Prof. Dr. Navadol Laosiripojana Director of the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut’s University of Technology Thonburi
09:45-09.50	Welcoming Remark Assoc. Prof. Dr. Suvit Tia President, King Mongkut’s University of Technology Thonburi (KMUTT), Thailand
09.50-09.55	Welcoming Remark Mr. Chiruit Isarangkun Na Ayuthaya President, Thailand Convention and Exhibition Bureau
09.55-10.25	Opening Remark and Keynote Address on “Thailand Energy Transition Plan Towards Carbon Neutrality” Ministry of Energy, Thailand
10.25-10.30	Official Opening Ceremony and Photo Caption
10.30-10.45	Coffee Break

Plenary Session: Accelerating the Transition to Carbon Neutrality in ASEAN

Room: Conference Theater A

Chairman: Assoc. Prof. Dr. Amnat Chidthaisong, JGSEE, KMUTT

- 10.45 – 11.15 **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
- 11.15 – 11.45 **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
- 11.45 – 12.15 **Renewable Energy Market Design, Implementation and Growth**
Mr. Roble Poe Velasco-Rosenheim, Director, Asia and the Pacific of I-REC, Netherlands
- 12.15 - 12.30 **(TBC)**
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 plans from several countries and important business/industry sectors will also be explored.

Chairman: Prof. Dr. Navadol Laosiripojana

- 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 (TBC)**
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

(Short concept to introduce session)

Chairman: Dr. Suneerat Fukuda, JGSEE, 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

14.00 – 14.25 **SCG's Pathway to net zero emission by BCG concept**
Representative from SCG

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)

15.05 – 15.25 **The role of bioenergy in microgrid: techno-socioeconomic aspects**
Mr. M K Balaji, Deloitte Consulting LLP

15.25 – 15.45 **Biomass and torrefied biomass for coal-fired boilers: International experience**
Mr. Thomas Chopin, CFO, Blackwood Technology

Session III: Carbon and Climate Neutrality Transition Policy and Management

Room: MR 109 C

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, JGSEE, KMUTT

13.30 – 13.50 **Transition to Carbon Neutrality Economy – Turning Vision into Actions for the EU**
Speaker: EU Country-France

13.50 – 14.10 **Managing the Transition to a Carbon Neutral Economy in Japan**
Speaker: MOEJ

14.10 – 14.30 **Implications of COP26 Climate Pledges for Industrial Sector in Thailand (TBD)**
Speaker: TBD

14.30 – 14.45 **Coffee Break**

14.45 – 15.05 **Visualization of Carbon Emissions for Carbon Neutrality Assessment (TBD)**
Speaker: Japanese company

15.05 – 16.00 **Panel Discussion & Q&A**
Speakers and Participants

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, APUEA & Dr. Athikom Bangviwat, JGSEE, 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**
Speaker

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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