

ASIA Sustainable Energy Week (ASEW)

The 22nd Renewable Energy Asia Conference 2026

Driving Sustainable Energy Innovation through Regional Partnerships

Wednesday, 1 July 2026

Queen Sirikit National Convention Center (QSNCC), Bangkok

The energy transition in ASEAN and beyond is accelerating, driven by decarbonization commitments, energy security imperatives, and rapid technological advances – including renewable energy and battery storage, nuclear SMRs, clean heat, green hydrogen, and carbon capture, utilization and storage (CCUS).

However, achieving an effective and inclusive transition requires strong alignment between policy direction, research and innovation, and market implementation. Regional partnerships – enabled through international platforms and institutions – play a pivotal role in accelerating this process, from collaborative research and innovation to translating policy into scalable solutions, enabling market adoption, and mobilizing finance.

The 22nd REA Conference brings together leading institutions and platforms that collectively span the full sustainable energy ecosystem:

- The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi (JGSEE, KMUTT) – a leading applied research institution in energy, environment, and climate change in Thailand
- Economic Research Institute for ASEAN and East Asia (ERIA) – a key regional policy think tank supporting ASEAN and East Asia
- Asia Pacific Urban Energy Association (APUEA) – a cross-sectoral platform fostering public-private collaboration on sustainable urban energy systems
- Informa Markets – organizer of ASIA Sustainable Energy Week, connecting industry, technology providers, and investors across the region

The conference will feature renowned speakers in a high-level plenary session, complemented by four focused technical sessions covering:

- SMRs, Clean Heat, Green Hydrogen, and the Clean Electricity Transition
- Industrial Decarbonization and CCUS
- Bio-LNG, Green Ammonia, Green Carbon, and Green Fuels
- Green Buildings, Sustainable Design, and Materials Innovation

We would be honored to welcome you as a speaker to contribute your expertise and join the collective effort toward building a smarter, greener, and more connected energy future for the Asia region.

09.00-09.30 Registration

09.30-10.30 Opening ceremony

10.30 – 12.00 Plenary Session: Driving Sustainable Energy Innovation through Regional Partnerships

Chairperson: TBA

This plenary session explores how technology innovation, regional cooperation, and national policy frameworks can be aligned to accelerate a resilient and low-carbon energy transition in ASEAN.

10.30 - 11.00 **Pathways to Liquid Fuels without Using Crude Oil: The Role of Nuclear Heat and Hydrogen**

by Dr. Wison Luangdilok,
Principal of H2Technology LLC, USA

11.00 – 11.30 **How can Regional Platforms and Partnerships Accelerate and Align Decarbonization Pathways Across ASEAN**

by Dr. Nuki Agya Utama
Director for Energy Policy and Head of the Asia Zero Emission Center (AZE Center) at ERIA. (TBC)

11.30 – 12.00 **Thailand's Power Development Plan toward Net Zero 2050: Policy Direction, System Transformation, and Regional Integration**

by Director General of Energy Policy and Planning office (EPPO)

12.00– 13.30 Lunch

Session I: SMR, Clean Heat, Green Hydrogen, Clean Electricity Transition

Time: 13.30 - 15.00

Chairperson: Prof. Dr. Navadol Laosiripojana (JGSEE/KMUTT)

Background

The transition to a low-carbon energy system requires the strategic integration of three key technologies—Small Modular Reactors (SMRs), clean heat solutions, and hydrogen energy—to address energy security, industrial decarbonization, and long-term climate goals. SMRs offer reliable, scalable, and low-carbon electricity and heat that can stabilize renewable-rich grids and support energy-intensive industries, while advanced clean heat technologies enable efficient decarbonization of industrial thermal processes that are otherwise difficult to electrify. Hydrogen serves as a flexible energy carrier that links power, heat, and transport sectors, enabling energy storage, sector coupling, and deep emissions reductions. By integrating these technologies into a coherent system supported by international best practices from organizations such as the International Atomic Energy Agency and aligned with national energy transition strategies in Thailand, it is possible to create a resilient, efficient, and future-ready energy ecosystem that accelerates progress toward net-zero targets while strengthening industrial competitiveness and workforce capabilities.

Program

- 13.30 - 13.50 **Keynote:**
by Dr. Wison Luangdilok, H2Technology LLC, USA
- 13.50 - 14.10 **Technical Focus I: SMR activities in ASEAN**
by Assoc. Prof. Dr. Thawachai Onjun
Executive Director Thailand Institute of Nuclear Technology (Public Organization)
- 14.10 - 14.30 **Biocatalysts for Green and Sustainable Hydrogen Production**
by Dr. Nuttavut Kosem, Kyushu University, Japan
- 14.30 - 14.50 **Industry Implementation Panel: Private Sector Perspectives**
by Mr. Sirimet Leepagorn, President and Acting Chief Operating Officer, Global Power Synergy Public Company, GPSC
- 14.50– 15.05 **Delta’s Smart Mobility Infrastructure for the Future.**
Mr. Tanawat Phenglao, Energy Infrastructure – Team Leader, DELTA ELECTRONICS (THAILAND) PCL.
- 15.05 – 15.20 **Digital Smart Energy for Inclusive Sharing :**
Haier Energy’s Overseas Full-Cycle Asset Operations and Ecosystem Initiatives
Mr. Qijiang Wang, President of Haier Energy SEA - Haier Energy

Session II: Green Building, Sustainable Design & Materials Revolution

Time: 13.30 - 15.05

Chairperson: Dr. Acharawan Chutarat , KMUTT and Dr. Pipat Chaiwiwatworakul, JGSEE

The building sector is one of the largest contributors globally to both energy use and carbon emissions. It accounts for roughly 30% of global energy consumption and about one-third of global CO₂ emissions, making it a critical focus for achieving net zero. In the ASEAN context, the building sector is equally – if not more – important for energy use and emissions due to rapid urbanization, economic growth, and rising cooling demand. Innovative energy efficiency and emission reduction measures are not only applied to individual buildings, but increasingly at the district scale and through the integration of advanced energy systems, digital technologies, and assessment tools. This session is designed to highlight developments, advances, and successful project implementations.

- 13.30 - 13.50 **Energy District Towards a Sustainable Future**
by Dr. Naree Phinyawatana, Director, Bangkok and Singapore, Atelier Ten
- 13.50 - 14.10 **Green Hydrogen for Energy Self-Sufficient Buildings**
by Dr. Robert Himmler, Managing Director, EGS-plan (Bangkok) Co., Ltd.
- 14.10 - 14.30 **AI-Driven Control Systems for Energy Efficient Buildings**
by Dr. Warodom Khamphanchai, Chief Executive Officer, AltoTech Global
- 14.30 - 14.50 **BEAT Building Emission Assessment Tool**
by Dr. Kongkun Charoenvisal, Senior Green Building Specialist, Africvs Co., Ltd.
- 14.50– 15.05 Q & A

Session III: Industrial Decarbonization & CCUS

Time: 15.30 - 17.00

Chairperson: Asst. Prof. Dr. Piyatida Trinuruk Kaewchinda, KMUTT and Dr. Boonrod Sajjakulnukit JGSEE

Background

The industrial sector accounts for roughly one-third of both global and ASEAN energy use and emissions. In ASEAN, its role is particularly significant and continues to grow, driven by rapid industrialization and export-oriented manufacturing. A strong reliance on coal and gas for process heat – often exceeding half of industrial energy use – contributes substantially to rising emissions, especially in hard-to-abate sectors such as cement, steel, and petrochemicals.

Deep decarbonization of industry will require a combination of solutions, including energy efficiency, waste heat recovery, electrification, hydrogen, clean heat technologies, and carbon capture, utilization, and storage (CCUS). Emerging options such as small modular reactors (SMRs) may also play a role in providing low-carbon, reliable heat and power.

This session explores these pathways, highlighting innovative technologies and practical experiences from industry.

- 15.30 – 15.50 **Role of Industrial Decarbonization in Thailand: From Past Performance to Future Direction**
by Assoc. Prof. Wongkot Wongsapai, Vice President, Office of the National Higher Education, Science, Research and Innovation Policy Council
- 15.50 - 16.10 **Waste Heat Recovery Using Organic Rankine Cycle (ORC) for Decarbonization in Glass Industry**
by Mr. Panya Tantisuwichwong, Executive Director, AGC Flat Glass (Thailand) PLC.
- 16.10 - 16.30 **Targeting Net-Zero: The Strategic Role and Potential of CCUS**
by Dr. Kajornsak Faungnawakij, National Nanotechnology Center, NSTDA Thailand
- 16.30 - 16.45 **Bridging the Gap: Deye C&I Hybrid Solutions for a Resilient Clean Electricity Transition**
by Mr. James Yuk, APAC VP, Ningbo Deye Technology Co., Ltd./ Deye Inverter (Singapore) Pte Ltd
- 16.45 - 17.00 Case study (TBC)

Session IV: Bio LNG, Green Ammonia, Green Carbon, Green Fuel

Time: 15.30 - 17.00

Chairperson: Dr. Warinthorn Songkasiri, JGSEE, KMUTT and Dr. Khemmathin Lueangwattanapong, Kasetsart University

Background

As part of the **22nd Renewable Energy Asia Conference 2026** at the **Asia Sustainable Energy Week (ASEW)**, this session will explore the critical role of advanced fuels in driving Asia's energy transition. With a focus on **Bio-LNG, Green Ammonia, Green Carbon, and Green Fuels**, the discussion will examine how these innovations can reduce emissions, diversify energy supply, and strengthen regional energy security.

Bio-LNG will be presented as a practical solution for decarbonizing heavy transport and industrial operations, while Green Ammonia will be highlighted both as a clean fuel and as a carrier for hydrogen, enabling cross-border energy trade. The session will also consider emerging approaches to Green Carbon, emphasizing technologies that capture and repurpose emissions, and will address the broader potential of Green Fuels in building resilient supply chains.

Anchored in the conference theme *Driving Sustainable Energy Innovation through Regional Partnerships*, the session underscores the importance of collaboration across Asia to accelerate commercialization, harmonize standards, and mobilize investment. By linking technological progress with cooperative frameworks, it aims to chart a pathway toward a low-carbon, sustainable energy future for the region.

Program

15.30 - 15.42 **TBA**

15.42 - 15.54 **Technical focus**

by Mr. Suraporn Petchdee, Managing Director, BSGF Company Limited

15.54 - 16.06 **Leading the Transition: Biogas as a Driver of Green Fuel, Bio LNG, and Carbon-Neutral Energy Solutions**

by Mr. Supharek Yimkobjij, President, Thai Biogas Trade Association

16.06 – 16.18 **Strengthening Thailand's Bioeconomy: The Expanding Role of Ethanol in Sustainable Fuel Systems**

by Thai Ethanol Manufacturing Association (TBC)

16.18 – 17.00 **Panel discussion**