

# APERC Update

## The 61st Meeting of the Expert Group on New and Renewable Energy Technologies (EGNRET 61)

January 16-17, 2025 (Online)

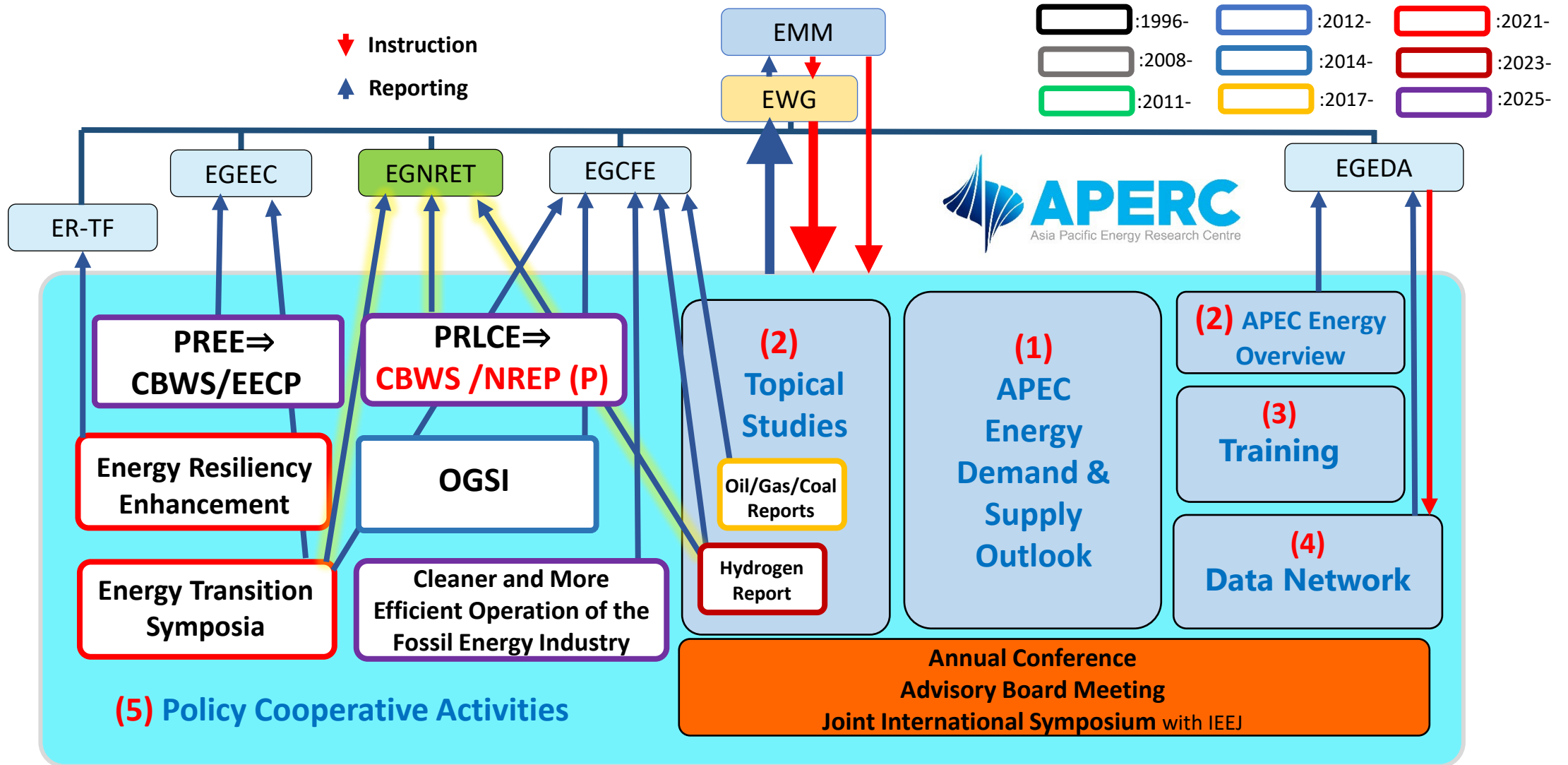
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# Outline

1. APERC Activities Overview
2. Research Activities
3. Policy Cooperative Activities

# 1.a. APERC Activities Overview



## 1.b. APERC Tasks and Activities

- Continue to meet the current acute needs of APEC member economies by choosing appropriate **research themes** including preparation for **the 9th Edition of APEC Energy Demand and Supply (D/S) Outlook** <TOR (1)(2)>
- Accept **trainees and dispatch experts** through listening to needs of each economy \* <TOR(3)>
- Explore win-win collaboration between APEC D/S Outlook exercise and **APEC energy data network** \* <TOR(4)>
- Directly assist APEC member economies with **Policy Cooperative Activities** <TOR(5)>
  - to achieve APEC's aggregate **energy intensity reduction goal of 45%** by 2035, **goal of doubling the share of renewables** by 2030, and encourage efforts to efforts to **triple global renewable energy capacity** by 2030
  - to strengthen efforts into **oil and gas security** and continue to promote dissemination of **low-carbon town development**
  - to promote decarbonization towards **carbon neutrality** in the APEC region

\* Previously covered in EGEDA Update as APERC is EGEDA's designated secretariat.

## 2.a. APEC Energy Demand and Supply Outlook

- The [APEC Energy Demand and Supply Outlook](#) project is a priority task for APERC under the APEC Energy Action Programme adopted by leaders in 1995.
- The Outlook provides quantitative analyses and policy insights on projected trends for energy demand and supply in APEC economies for the coming several decades.
- APERC has produced eight editions of the APEC Energy Demand and Supply Outlook.
- The [modelling tools developed for the Outlook](#) are used for training activities in APEC economies.
- APERC researchers are now finalizing the results for [the 9th Edition Outlook](#) to be published in October 2025. Two scenarios ([Reference Scenario](#) and [Target Scenario](#)) are modeled, with projections now extending to [2060](#).
- Modelling for all economies (including revisions/amendments) is anticipated to be complete by February 2025.

## 2.b. APEC Energy Overview

- The '[APEC Energy Overview](#)' series started in 2000 with the approval of EWG19, in order to help policymakers to share useful information and deepen understanding on energy issues in the APEC region.
- The Overview is an annual publication, which contains updated energy demand/supply data as well as descriptions of energy policy and '[Notable Energy Developments](#)'.
- Progress of [APEC goals on energy intensity and renewable share](#) has been tracked and analysed each year. The economy's respective energy transition programs were likewise regularly discussed.
- The [APEC Energy Overview 2024](#) was endorsed by EWG in July 2024 and was published in both APEC and APERC Websites in August 2024.
- APERC has started the compilation of [the APEC Energy Overview 2025](#).

## 2.c. Topical Studies

- Along with the Outlook and the Overview, APERC has been conducting research on topics relevant to energy issues and policies in the APEC region.
- Studies focusing on fossil fuels (coal, oil and natural gas) to support the [Expert Group on Clean Fossil Energy \(EGCFE\)](#) have been published since 2017.
- In addition, a study focusing on hydrogen to support both [EGCFE](#) and the [Expert Group on New and Renewable Energy Technologies \(EGNRET\)](#) started in 2023.
  - APERC has begun preparation of the **four APERC Fossil Fuel Reports 2024**.
- Each researcher pursues research topics based on his/her research interest within the scope of energy economics and energy policy of the APEC region.



## 3.a. Peer Review on Energy Efficiency (PREE)

- [Follow-up PREE in Chile](#) was conducted from 6-10 May 2024. The review team visited Santiago de Chile and held a 5-day. The summary report of of the Follow-up PREE in Chile was endorsed in January 2025 and now published
- The [8th EEP workshop](#) was held in conjunction with the 63rd EGEEC meeting in Tianjin, China, on [5 November 2024](#). The theme of this workshop was “Energy Management: Standards, Policies, and Best Practices.”
- To succeed PREE activities, APERC plans to hold [Capacity-Building Workshops for Energy Efficiency and Conservation Policy \(CBWS/EECP\)](#) in conjunction with the EGEEC biannual meetings from 2025 onward.



## 3.b. Peer Review on Low Carbon Energy Policies (PRLCE)

- The **7th PRLCE for Peru** focused on energy efficiency policies development and deployment, buildings, electromobility, and district energy systems, among others, was held on 5-7 December 2023. The Summary Report was endorsed by the EWG and published in September 2024.
- To succeed PRLCE activities, APERC is considering holding **Capacity-Building Workshops for New and Renewable Energy Policy (CBWS/NREP)** in conjunction with the EGNRET biannual meetings from 2025/2026 onward.

## 3.c. Oil and Gas Security Initiative (OGSI)

### ❑ Oil and Gas Security Exercise (OGSE)

- The **6<sup>th</sup> OGSE in Indonesia** will be held on February 4-6, 2025.

### ❑ Oil and Gas Security Network (OGSN)

- The 61st **OGS Newsletter** was issued in December 2024.
- The **8<sup>th</sup> OGSN Forum** will be held in Hong Kong, China, on 8 April 2025.

### ❑ Oil and Gas Security Studies (OGSS)

- Draft report of the **20<sup>th</sup> OGSS** was presented at the 7th OGSN Forum in March 2024 and at the EGEEC 62 & EGCFE 2024 Joint Meeting in May 2024. The final report was presented at the EWG 68 meeting and will be published on the APEC and APERC websites in the 1Q 2025.
- Two potential topics for the **21<sup>st</sup> OGSS** were discussed at the 7th OGSN Forum in March 2024. The first topic, "**The Energy Security Implications of Declining LNG Investment**", was further discussed and eventually approved for the 21st OGSS at the EGCFE 2024 meeting. The second topic, "**The Implications of Underinvestment in Upstream Oil Sector Chain to Oil Supply Security of APEC**", will be considered for the **22<sup>nd</sup> OGSS**.

## 3.d. Energy Resiliency Enhancement Project

- APERC continued to support Japan's Ministry of Economy, Trade and Industry (METI) for [APEC Energy Resiliency Enhancement Project](#), which includes
  - 1) evaluating energy resiliency indicators,
  - 2) creating sectoral guidelines for energy infrastructure companies, and
  - 3) holding a workshop for capacity building.
- The [sectoral guidelines](#) and [the project summary report](#) were endorsed in May 2024.

## 3.e. Energy Transition Symposia

- APERC organized [the APEC Symposium on the Holistic Approach of Decarbonization towards Carbon Neutrality](#) online in August 2021.
- The symposium emphasized not only renewable energy but also other various measures, including energy efficiency and conservation; hydrogen/ammonia; carbon capture, utilization and storage (CCUS); and nuclear energy can be mobilized.
- APERC has planned to follow up the symposium by holding [a series of sectoral symposia](#) related to decarbonization for the energy transition.
- The first sectoral [Symposium on Decarbonizing Fossil Fuels](#) was held in Kobe, Japan on 11-12 October 2023. The second sectoral [Symposium on Promoting Energy Efficiency and Energy Management System](#) was held in Tokyo on 23-24 January 2024.
- The key highlights of the 2 symposia were presented at [APEC Energy Transition Workshop](#) in Nanjing, China, on 20 May 2024, in conjunction with EGEEC 62 & EGCFE 2024 Joint Meeting.

## 3.e. Energy Transition Symposia

- **The third Symposium on Bioenergy** was co-organized with the Ministry of Energy, Thailand, in Khon Kaen, Thailand on 26-27 November 2024.
- 57 Participants from 13 economies (AUS, PRC, HKC, INA, JPN, ROK, MAS, PNG, PHL, SGP, CT, THA, VN)
- Session 1. “Biodiesel and Bioethanol: Opportunities & Challenges and Recent Developments” (Thailand, Chinese Taipei, Malaysia)
- Session 2. “Synthetic Biofuels: Opportunities & Challenges and Recent Developments” (Thailand, Singapore, Korea, Thailand)
- Session 3. “Decarbonization in Power Sector by Biomass and Biohydrogen” (Thailand, Japan, Hong Kong China, The Philippines)
- Site visit to Mitr Phol Sugar and Mitr Phol Ethanol Plant

## 3.f. APEC Workshop on Cleaner and More Efficient Operation of the Fossil Energy Industry

- The project proposal for the **APEC Workshop on Cleaner and More Efficient Operation of the Fossil Energy Industry** was endorsed in October 2024.
- The capacity building workshop will provide fundamental technical knowledge to policymakers and relevant officials in APEC economies in order to identify feasible solutions and advice regarding:
  - 1) electrification in the fossil energy industry,
  - 2) integration of zero and low-carbon energy in the fossil energy industry,
  - 3) energy and fuel efficiency measures, and
  - 4) the benefits of the associated emissions savings.
- The Workshop will be held in Japan in 2025 (TBC).

**Thank you.**

**<https://aperc.or.jp>**

