

APERC Update

The Joint Meeting of Four Expert Groups of the APEC Energy Working Group
9 April 2025 – Hong Kong, China

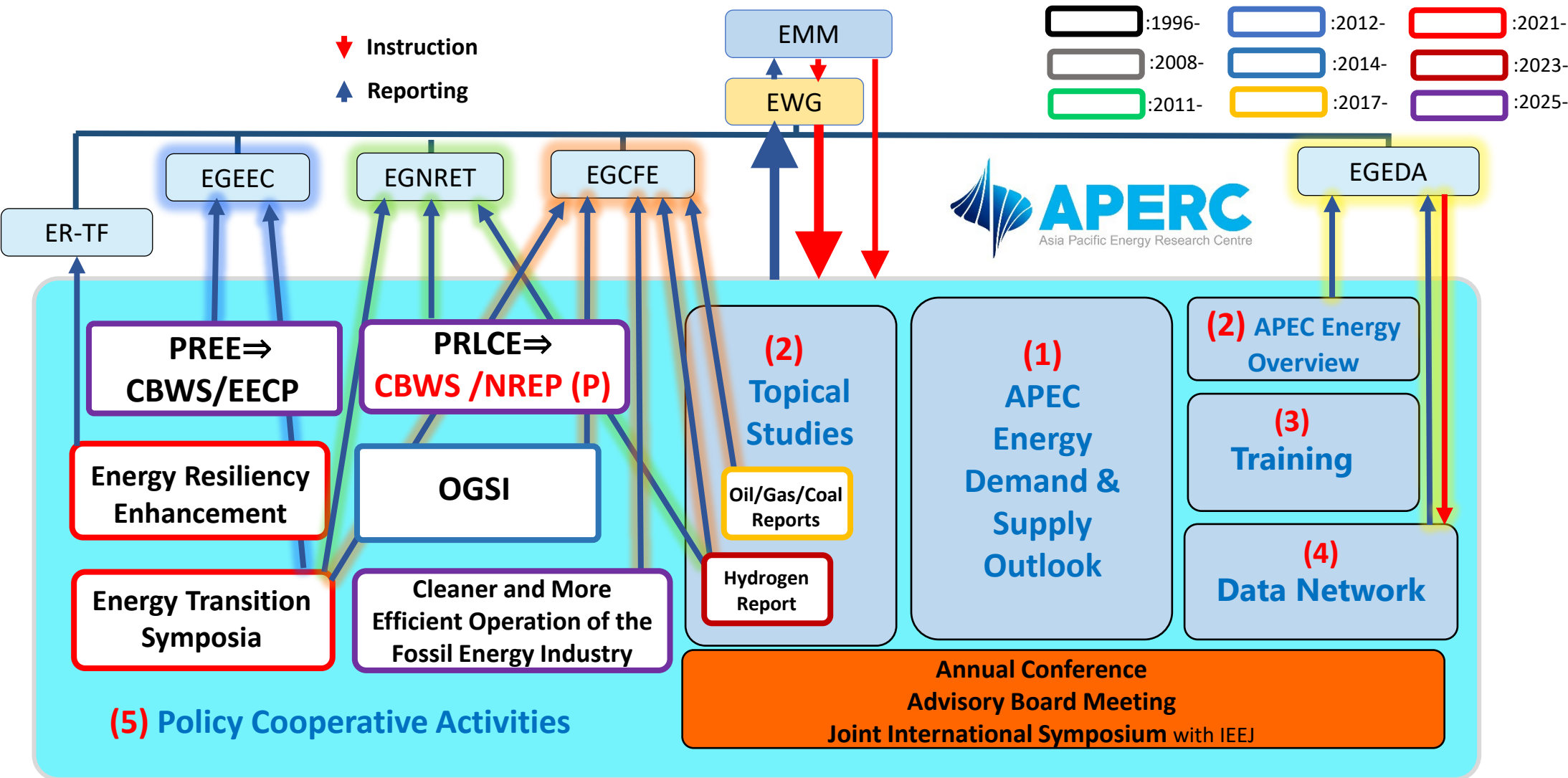
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Outline

1. APERC Activities Overview
2. Research Activities
3. Training
4. Data Management
5. 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 **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

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 completed in April 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.
- Drafting of economy chapters of **the APEC Energy Overview 2025** is ongoing.

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 published [APERC Coal Report and Hydrogen Report 2024](#) in March 2025, while [APERC Oil Report and Gas Report 2024](#) is under drafting.
- 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. Training

- APERC accepts energy modelling **trainees** from developing economies.
 - The **31st Seminar on Energy Modelling** was held on 3-7 March 2025 in Tokyo.
 - The **32nd Seminar on Energy Modelling** will be held in March 2026 in Tokyo.
- APERC also **dispatches experts** to help develop energy data and prepare energy demand and supply outlooks while enhancing the 'energy literacy' of future leaders in the APEC region.
 - APERC dispatched experts to **Thailand** for a training course on end-use energy modeling and the LEAP software in January 2025.
- The **cooperation course** on "**Energy Future of the Asia-Pacific Region**" at Kyoto University Graduate School of Energy Science for the school year 2024-2025, finished in January 2025.

4. Energy Data Management Networks

- The **EGEDA Training Program** on Energy Statistics
 - The short-term-course on energy statistics was held in Tokyo from 10 to 21 February 2025.
 - In 2026, the short-term course on energy statistics will be held in January 2026.
- The **23rd APEC Workshop on Energy Statistics** will be held in September 2025. The topic of the workshop will be the preparation of instruments for end-use energy consumption surveys and will include:
 - Discussion on sampling methodologies
 - Preparation of survey questionnaire and enumerators' manual
 - Discussion on the conduct of a pilot survey

5.a. PREE

❑ Peer Review on Energy Efficiency (PREE)

- **Follow-up PREE in Chile** was conducted from 6 to 10 May 2024. The Follow-up PREE in Chile Summary Report was endorsed by EWG and published in January 2025.
- 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 will hold **Capacity-Building Workshops for Energy Efficiency and Conservation Policy (CBWS/EECP)** in conjunction with the EGEEC biannual meetings from late 2025 onward.
 - Preparation for the kick-off workshop in late 2025 is ongoing.

5.b. PRLCE

❑ 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 from 5 to 7 December 2023. The Summary Report was endorsed by the EWG and published in September 2024.
- To succeed PRLCE activities, APERC is planning to hold **Capacity-Building Workshops for New and Renewable Energy Policy (CBWS/NREP)** in conjunction with the **EGNRET biannual meetings** from early 2026 onward.
 - A Concept Note was submitted to the APEC secretariat. It was endorsed by the EWG members in March 2025.

5.c. Oil and Gas Security Initiative (OGSI)

❑ Oil and Gas Security Exercise (OGSE)

- The **6th OGSE in Indonesia** was held from 3 to 6 February 2025 in Bali, Indonesia. The drafting of the summary report is ongoing.
- Coordination for the 7th OGSE host is ongoing.

❑ Oil and Gas Security Network (OGSN)

- The **8th OGSN Forum** was held in Hong Kong, China, on 8 April 2025.
- The 62nd **OGS Newsletter** was issued in February 2025. Preparation for the **63rd issue** is going and will be published by the end of April 2025.

5.c. Oil and Gas Security Initiative (OGSI)

❑ Oil and Gas Security Studies (OGSS)

- The final report of the **20th OGSS** was presented at the EWG 68 meeting and is planned to be published on the APEC and APERC websites in the 1Q 2025.
- The **21st OGSS** study themed “The Energy Security Implications of Declining LNG Investment” is currently being carried out. The key issues and preliminary findings of the study was presented during the 8th OGSN Forum in Hong Kong, China on 8 April 2025.
- The topic of “The Implications of Underinvestment in Upstream Oil Sector Chain to Oil Supply Security of APEC” will be considered for the **22nd OGSS**.

5.d. Energy Resiliency

❑ 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.

5.e. Energy Transition

❑ Series of Sectoral Symposia on Energy Transition

- 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 from 11 to 12 October 2023. The second sectoral **Symposium on Promoting Energy Efficiency and Energy Management System** was held in Tokyo from 23 to 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.
- The third **Symposium on Bioenergy** was co-organized with Ministry of Energy, Thailand, in Khon Kaen, Thailand from 3 to 4 December 2024.

5.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 concrete plan will be discussed in EGCFE 2025 at this Joint Meeting of Four Expert Groups tomorrow morning.
- The Workshop will be held in Japan in late 2025.

5.g. New Project to Follow up the APEC Policy Guidance on Clean and Low-Carbon Hydrogen Policy Frameworks

- APERC is considering to launch a **new APEC project** to follow up “the APEC Policy Guidance on Clean and Low-Carbon Hydrogen Policy Frameworks in the Asia-Pacific”. This project will aim to establish a network for clean and low-carbon hydrogen policymakers in APEC member economies to foster information sharing.
- APERC is planning to submit a concept note for a new APEC project in APEC Project Funding Process 2025 Session 2 under the auspices of the Japanese Government.
- Specific details of the new project will be presented and discussed in a joint session of EGCFE2025 and EGNRET 62 at this Joint Meeting of Four Expert Groups tomorrow morning.

Thank you.

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