

Asia Pacific Energy Research Centre (APERC) Report

The 14th APEC Energy Ministerial Meeting (EMM14)

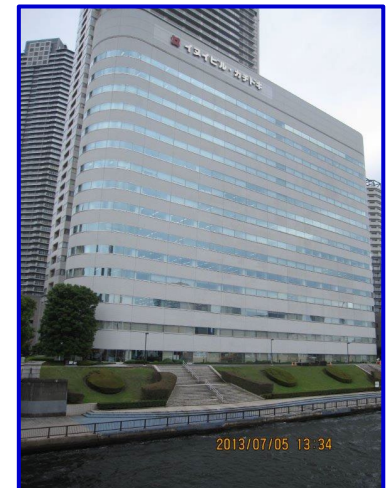
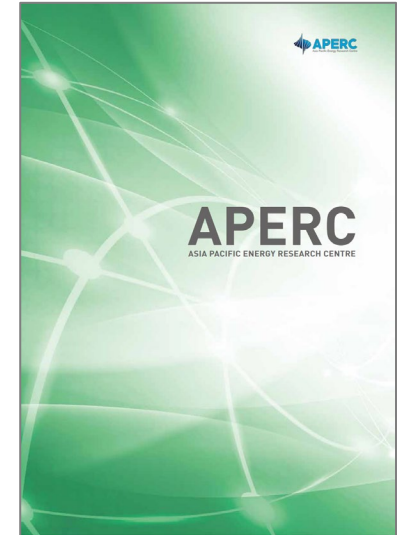
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Asia Pacific Energy Research Centre (APERC)

- Established in 1996 at the initiative of the Japanese Government
- **Funded** by the Japanese government
- APEC economies are sending **16 visiting researchers** from 15 APEC economies at this moment
- **Supports energy policy cooperation** under the framework of **APEC** with:
 - **Research**, including APEC Energy Demand and Supply Outlook
 - **Training** on energy modelling
 - **APEC Energy Data Management Network** (i.e., energy statistics)
 - **Policy Cooperative Activities**



APERC Office in Tokyo

1.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 each APEC economy and their total.
- APERC has produced eight editions of the APEC Energy Demand and Supply Outlook (the latest 8th edition was published in November 2022).
- APERC researchers are working on modelling for **the 9th Edition Outlook** to be published in **September 2025**.
- Two scenarios (Reference Scenario and Target Scenario) are under consideration, with projections now extending to **2060**.

1.b. APEC Energy Overview

- The '**APEC Energy Overview**' series started in 2000 to share with policymakers, useful information and deepen understanding on energy issues in the APEC region.
- The Overview is an annual online publication, which contains updated energy demand/supply data as well as descriptions of energy policy and '**Notable Energy Developments**' for each APEC economy.
- Progress of **APEC goals on energy intensity and renewable share** has been tracked and analysed each year.
- Starting the **2023 Edition**, the economy's **energy transition programs** were presented.

1.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 have been published annually since 2017.
 - **APERC Coal Report**
 - **APERC Oil Report**
 - **APERC Gas Report**
- In addition, APERC started to publish the **APERC Hydrogen**.
- This new report was referenced in drafts of the "APEC Policy Guidance to Develop and Implement Clean and Low-Carbon Hydrogen Policy Frameworks in the Asia-Pacific"

2. Training

- APERC accepts **energy modelling trainees** from member economies every year.
- APERC also **dispatches experts** to help develop energy data and prepare energy demand and supply outlooks (this year to [Malaysia](#) and [Thailand](#)).
- APERC researchers give lectures at the [cooperation course](#) on “Energy Future of the Asia-Pacific Region” at [Kyoto University](#) Graduate School of Energy Science.



30th APEC energy modeling seminar held in Tokyo in March 2024

3. Energy Data Management Network

- APERC has built a communication network with the organizations responsible for energy statistics in each APEC economy.
- The network allows uniform management of energy data submitted by APEC economies and the annual publication of **APEC Energy Statistics** and **APEC Energy Handbook**.
- APERC supplies the oil and gas data provided by APEC economies to the Joint Organizations Data Initiative (JODI) database along with the IEA, OPEC and five other international energy organizations.
- APERC also organizes a training program for energy statisticians from APEC economies.

4.a. Peer Review on Energy Efficiency (PREE)

- Started by a directive to APERC at EMM 8 (Darwin, Australia: 2007)
- Completed 11 Peer Reviews, 7 Follow-up Peer Reviews, and 7 Energy Efficiency Policy Workshops (EEP W/S)
- Latest: 7th Follow-up PREE (Chile: May 2024)
- Next: 8th EEP W/S (Tianjin, China: 5 November 2024)
- To succeed PREE activities, APERC plans to hold the "Capacity-Building Workshop for Energy Efficiency and Conservation Policy" from 2025 onward.



Follow-up PREE in Chile
(6-10 May 2024)

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

- Initiated by a directive to APERC at EMM 9 (Fukui, Japan: 2010)
- Completed 7 Peer Reviews
- Latest: 7th PRLCE (Peru: December 2023)
- To succeed PRLCE activities, APERC is considering to hold the “Capacity-Building Workshop for New and Renewable Energy Policy” from 2025 onward.



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

- Initiated by a ministerial mandate at EMM 11 (Beijing, China: 2014)
- **Oil and Gas Security Exercise (OGSE)**
 - ✓ Latest: 5th OGSE in Thailand (September 2023)
- **Oil and Gas Security Network (OGSN)**
 - ✓ Bimonthly Newsletter: Latest No. 58 (June 2024)
 - ✓ Annual Forum: Latest 7th Forum (Osaka, Japan: March 2024)
- **Oil and Gas Security Studies (OGSS)**
 - ✓ 20th OGSS (2023-2024): Completed drafting "What are the Energy Security Implications of Recent Declines in both APEC and Global Spare Petroleum Refining Capacity?"
 - ✓ 21st OGSS (2024-2025): Started "The Energy Security Implications of Declining LNG Investment"

4.d. Energy Transition Symposia

- APERC organized the APEC Symposium on the **Holistic Approach** of Decarbonization towards Carbon Neutrality online in August 2021.
 - Follow-up sectoral symposia series
 - First Symposium on **Decarbonizing Fossil Fuels** (Kobe, Japan: October 2023)
 - Second Symposium on Promoting **Energy Efficiency and Energy Management System** (Tokyo: January 2024)
- ⇒ Highlights of the 2 symposia: **APEC Energy Transition Workshop** (Nanjing, China: May 2024)
- **Third Symposium on Bioenergy** to be co-organized with Ministry of Energy, Thailand (Khon Kaen, Thailand: 26-27 November 2024)

Thank you for your kind attention.

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