

4.a. APERC President's Report

The 67th Meeting of APEC Energy Working Group (EWG67)
25-26 February 2024 – Lima, Peru

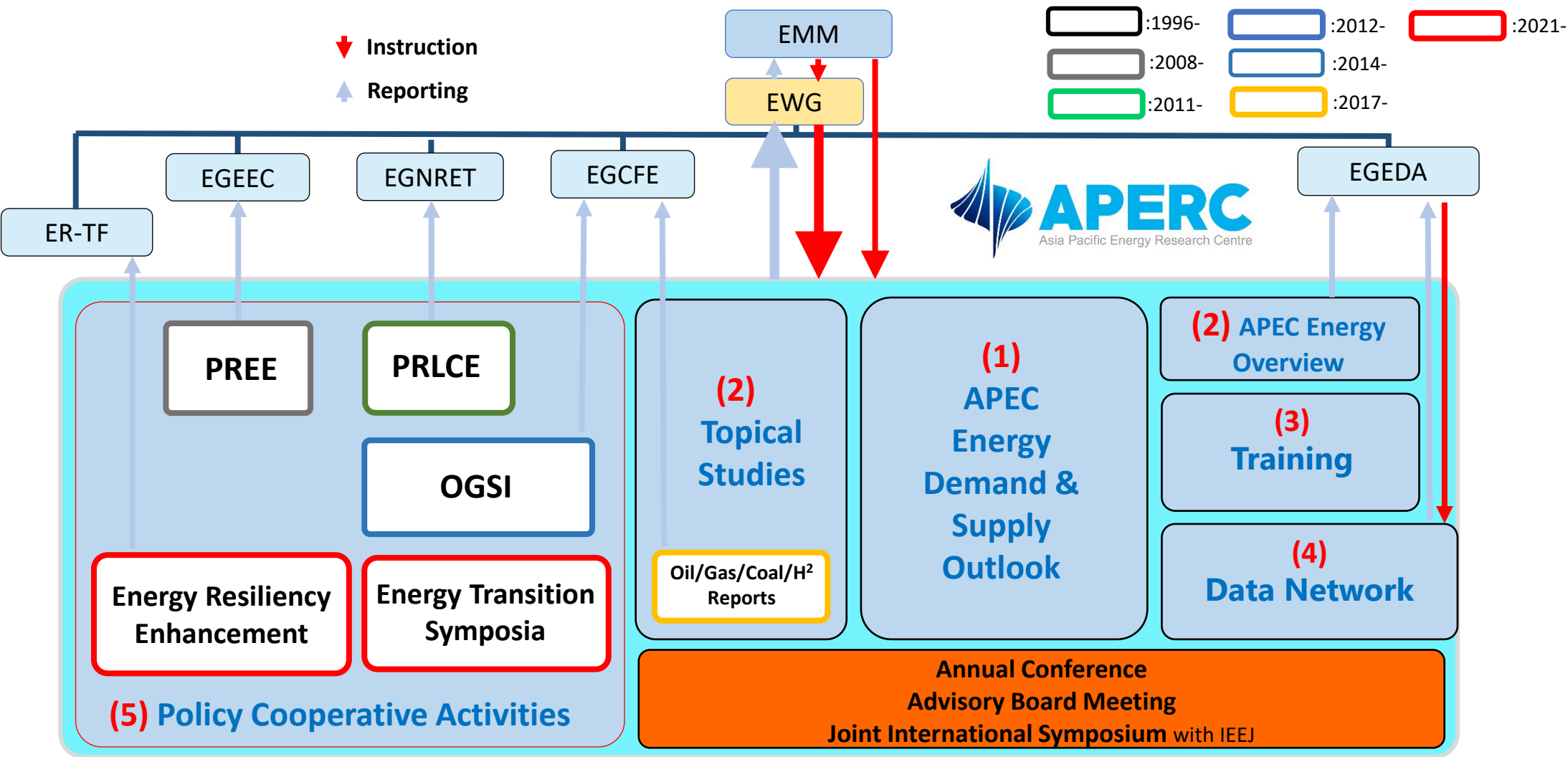
Kazutomo IRIE, PhD
President, APERC



Outline

1. APERC Activities Overview
2. Research Activities
3. Training
4. Data Management
5. Policy Cooperative Activities
6. Management Issues

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 real 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 and goal of doubling the share of renewables by 2030
 - to strengthen efforts into oil and gas security and continue to promote dissemination of low-carbon town development
 - to enhance energy resilience and 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 through 2050.
- APERC has produced eight editions of the APEC Energy Demand and Supply Outlook.
- The **8th Edition Outlook** was published in September 2022. APERC researchers have shared the findings with member economies.
- The **modelling tools developed for the Outlook** are used for training activities in APEC economies.
- APERC researchers have begun modelling for **the 9th Edition Outlook** to be published in 2025. Preliminary results are beginning to be shared with member economies, with projections now extending to 2060.
- They have completed the preliminary modelling for about half of 21 member economies.

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 2023 Edition** was published in **August 2023**.
 - A new key component Energy Transition is added discussing carbon emissions and the energy security situation of the respective member economies.
- Drafting for **the 2024 Edition** is ongoing and its publication is expected in **June 2024**.

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.
 - [APERC Fossil Fuel Reports 2023: Coal Report 2023](#) and [Oil Report 2023](#) were published in early February 2024. [The Hydrogen Report 2023](#) and [Natural Gas Report 2023](#) will be published in February 2024 or early March 2024.
 - Summary of draft Hydrogen Report 2023 was presented at APERC Workshop on February 25.
 - Hydrogen Report 2023 will be presented at the [EGNRET meeting in Tainan, Chinese Taipei in April](#).
 - All four APERC Reports 2023 will be presented at the [EGCFE meeting at Nanjing, China in May](#).
 - [Their summaries \(excluding Hydrogen Report\)](#) will be presented at EWG 68 in Lima, Peru in August.
 - APERC will start preparation of the four [APERC Fossil Fuel Reports 2024](#) in the second half of 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. Training

- APERC accepts energy modelling **trainees** from developing economies.
 - APERC organized the **29th Seminar on Energy Modelling** in March 2023 in Tokyo.
 - The **30th seminar** will be held on **4-8 March 2024**.
- 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 will dispatch experts to Malaysia for a one-week training course on energy modeling using the LEAP software on 22-26 April 2024.
- The **cooperation course** on "**Energy Future of the Asia Pacific Region**" at Kyoto University Graduate School of Energy Science was conducted for the school year 2023-2024 from April to July 2023. In the school year 2024-2025, the course will be conducted from October 2024.

4. Energy Data Management Networks

- The **EGEDA Training Program** on Energy Statistics
 - The short-term-course on energy statistics was held in Tokyo on 22 January to 2 February 2024.
- The **21st APEC Workshop on Energy Statistics** was held in Tokyo on 12-14 September 2023. The workshop aims to discuss new technologies and related energy production and consumption data collection. These include:
 - Hydrogen/Ammonia/e-fuels
 - District cooling
 - Grid-scale battery storage
 - New road vehicle technologies such as EVs and FCEVs
 - Fugitive GHG emissions and carbon capture and storage
- The **22nd APEC Workshop on Energy Statistics** will be held in Tokyo on 22-26 July 2024. The workshop aims to track the improvements in energy data collection that were expected after annual workshops in 2020, 2021, 2022 and 2023.

5.a. PREE, PRLCE

□ Peer Review on Energy Efficiency (PREE)

- The **7th EEP workshop** on “**Electrification and Energy Efficiency**” was held in conjunction with EGEEC 61 and EGNRET 59 in October 2023 in the Philippines. 28 participants from 10 economies, including experts, attended the workshop discussing and exchanging the issues on energy efficiency and electrification toward a decarbonized power system. Its summary report is expected to be published in April 2024.
- The Project Proposal of **Follow-up PREE for Chile** and the **8th EEP Workshop** was endorsed by EWG and will be held in 2024. Follow-up PREE in Chile will be conducted on 6-10 May 2024. The 8th EEP WS will be held in the second half of 2024 in conjunction with EGEEC63.

□ Peer Review on Low Carbon Energy Policies (PRLCE)

- The **7th PRLCE for Peru** was held in Lima in December 2023, marking the first PRLCE since the one hosted by Papua New Guinea in 2017. Preliminary results were presented this morning at the APERC Workshop on 25 February. Its final report is expected to be published after completing the APEC approval process in the middle of this year.

5.b. Oil and Gas Security Initiative

❑ Oil and Gas Security Exercise (OGSE)

- The **5th OGSE in Thailand** was held on 6-8 September 2023. Its summary report was endorsed by EWG in January 2024 and published on both APEC and APERC websites in February 2024.

❑ Oil and Gas Security Network (OGSN)

- The **7th OGSN Forum** will be held in Osaka, Japan on 20-21 March 2024.
- Issued the **55th OGS Newsletter** in December 2023. Preparation for the **56th issue** is ongoing and will be published by the end of **February 2024**.

❑ Oil and Gas Security Studies (OGSS)

- The topic for the **20th OGSS**, “What are the energy security implications of recent declines in both APEC and global spare petroleum refining capacity?” was discussed at the 6th OGSN Forum and approved by EGCFE. The draft report will be presented in the OGSN Forum in March, and the final report will be presented at the EGCFE 2024 meeting in May.
- The topic for the 21st OGSS will be discussed at the 7th OGSN Forum in March and asked for approval at the EGCFE in May.

5.c. Energy Resiliency

❑ Workshops on Energy Resiliency Principle

- APERC has supported METI in conducting [APEC Energy Resiliency Principle Project](#).
- The [Summary Report](#) of APEC Workshop on Energy Resiliency Principle and [APEC Energy Resiliency Guidelines](#) were approved in January 2023 and the [Completion Report](#) was approved in October 2023 by the EWG.

❑ Energy Resiliency Enhancement Project

- APERC continues to support 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 [Workshop on Energy Resiliency Enhancement](#) was held in San Francisco, the USA, on [9-10 November 2023](#).
- The sectoral guidelines and the project summary report will be prepared in March 2024.

5.d. 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 [Symposium on Decarbonizing Fossil Fuels](#) was held in Kobe, Japan on **11-12 October 2023**. The second **Symposium on Promoting Energy Efficiency and Energy Management System** was held in Tokyo on **23-24 January 2024**.
- The third [Symposium on Bioenergy](#) will be co-organized with Ministry of Energy, Thailand in Thailand in October 2024 .

6.a. APERC Research Staff

APERC has 28 research staff *17 visiting researchers

(as of 25 February 2024)

- Kazutomo IRIE (President)
- Glen SWEETNAM (Senior Vice President)*
- Munehisa YAMASHIRO (Vice President/General Manager)
- Yoshiaki IMAIZUMI (Deputy General Manager)
- Edito BARCELONA
- Thanan MARUKATAT*
- Elvira Torres GELINDON
- Mathew Charles HORNE*
- Alexander Konstantinovich IZHBULDIN*
- Manuel Antonio HEREDIA MUNOZ*
- PHUNG Quoc Huy*
- Zhichao LI*
- Ting Jui SUN*
- Juniko Parlinggman PARHUSIP*
- Mohd Shah Hambali Bin ARIFIN*
- Jungyoon KIM*
- Nobuhiro SAWAMURA
- Muhammad Nabih Fahkri MATUSSIN*
- Rodrigo MARTINEZ PICAZO*
- Noriel Christopher Regis REYES*
- Leanne Nicole SARGENT*
- Risa PANCHITO
- Finbar Barton MAUNSELL*
- TRAN Le Kieu Ly*
- Phawida JONGSUWANWATTANA
- Hyuga KASAI
- Takako HANNON
- Ikuno YAMAGUCHI

6.b. APERC Budget

Unit: million yen

Fiscal Year	1996 9mns	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Revenue from: Japanese Government Australian Government	374	626	681	729	619	634	594	547	525 8	528 8	498 8	446	447	418	409
Total of Revenue	374	626	681	729	619	634	594	547	533	536	506	446	447	418	409
Expenses:															
Energy Efficiency/APEC Energy Demand & Supply Outlook/ Related Research Programmes Oil & Gas Security	227	443	494	550	455	469	434	390	379	377	377	338	339	318	315
Energy Data Network & Know-How Transfer	147	183	187	179	164	165	160	157	154	159	129	108	107	100	94
Total of Expenses	374	626	681	729	619	634	594	547	533	536	506	446	447	418	409

Fiscal Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Revenue from: Japanese Government	425	494	580	657	653	689	672	672	672	672	672	672	672	556 [TBC]
Total of Revenue	425	494	580	657	653	689	672	672	672	672	672	672	672	556
Expenses:														
Energy Efficiency/APEC Energy Demand & Supply Outlook/ Related Research Programmes Oil & Gas Security	308	325	325	432	501	522	423	388	406	338	330	474	492	421
			107	68	183	124	161	119	100	59	43	224	263	175
Energy Data Network & Know-How Transfer	94	86	68	100	97	91	86	73	44	40	90	90	82	79
Total of Expenses	402	411	500	600	781	737	670	580	550	437	463	788	837	675

Thank you.

<https://aperc.or.jp>

