

4.a. APERC President's Report

The 66th Meeting of APEC Energy Working Group (EWG66)
29-30 November 2023 (UTC+7) – Bangkok, Thailand

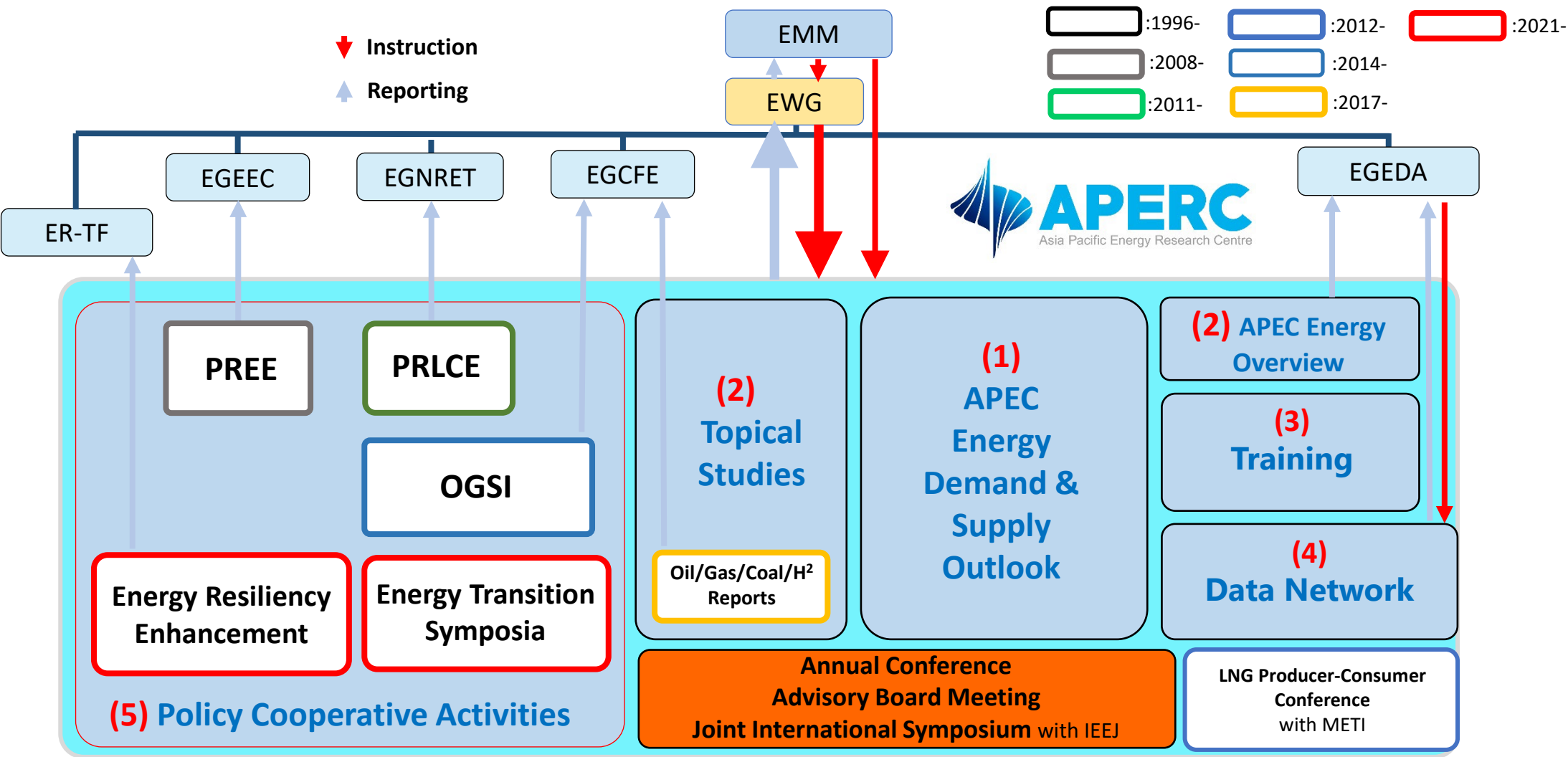
Kazutomo IRIE, PhD
President, APERC



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.

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 **July 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 2022: Coal Report 2022 and Gas Report 2022](#) were published in January/February 2023. Oil Report 2022 is not yet finalized.
 - Summaries of the APERC Fossil Fuel Reports 2022 were presented at EWG64 in November 2022.
 - APERC will start preparation of the [APERC Fossil Fuel Reports 2023 series](#), adding the [Hydrogen Report in 2023](#).
- 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 dispatched experts to the Energy Research Institute (ERI) of Thailand as part of APERC-ERI MOU in exchange for expertise on energy modeling on 3-4 August 2023.
 - Upon the request of **Thailand**, a one-week training course on energy modelling using the OSeMOSYS software was held at the Energy Policy and Planning Office (EPPO) of the Ministry of Energy in Bangkok on **7-11 August 2023**.
- The **cooperation course** on **"Energy Future of the Asia Pacific Region"** at Kyoto University Graduate School of Energy Science was conducted from April to July 2023.

4. Energy Data Management Networks

- The **EGEDA Training Program** on Energy Statistics
 - The **short-term course** on energy statistics was held in Tokyo on 6-16 February 2023
 - A **special training course for Viet Nam** was held in Tokyo from 27 February to 3 March 2023
 - The **8-week training course on energy statistics** was held in Tokyo from 5 June to 28 July 2023
- 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

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. 22 participants from 9 economies 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 they will be held in 2024.

□ Peer Review on Low Carbon Energy Policies (PRLCE)

- The next **PRLCE will be hosted by Peru** on 5-7 December 2023.

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 is expected to be published in December 2023.

❑ Oil and Gas Security Network (OGSN)

- The **7th OGSN Forum** is planned to be held in the first half of 2024.
- Issued **54th OGS Newsletter** as of November 2023. Preparation for the **55th issue** is ongoing and will be published by the end of **December 2023**.

❑ Oil and Gas Security Studies (OGSS)

- The **19th OGSS**, “Oil and Gas Security During the Energy Transition” was published in September 2023, and is available on the APEC and APERC website.
- 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. Draft report to be completed by January 2024 and final report by February 2024.

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) developing an evaluation model, 2) creating sectoral guidelines for energy infrastructure companies, and 3) holding a workshop for dissemination as the follow-up actions.
- The [Workshop on Energy Resiliency Enhancement](#) was held in San Francisco, the USA, on [9-10 November 2023](#).
- The Project was delayed because of the contracting process with the contractor and the unexpected change in the contractor's organization. The extension request of the Project period was submitted and approved to change the Project end date from December 2023 to May 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 one on **Symposium on Decarbonizing Fossil Fuels** was held in Kobe, Japan on **11-12 October 2023**. It will be followed by **Symposium on Promoting Energy Efficiency and Energy Management System**, which is scheduled to be held in Tokyo on **23-24 January 2024**.

6.a. APERC Research Staff

APERC has 27 research staff *16 visiting researchers

- 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 HEREDIA MUNOZ*
- Jeongdu KIM*
- PHUNG Quoc Huy*
- Zhichao LI*
- Ting Jui SUN*
- Juniko Parlinggman PARHUSIP*
- Mohd Shah Hambali Bin ARIFIN*
- Nobuhiro SAWAMURA
- Muhammad Nabih Fahkri MATUSSIN*
- Rodrigo MARTINEZ PICAZO*
- Noriel Christopher Regis REYES*
- Risa PANCHO
- 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
Revenue from: Japanese Government Australian Government	374	626	681	729	619	634	594	547	525 8	528 8	498 8	446	447	418
Total of Revenue	374	626	681	729	619	634	594	547	533	536	506	446	447	418
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
Energy Data Network & Know-How Transfer	147	183	187	179	164	165	160	157	154	159	129	108	107	100
Total of Expenses	374	626	681	729	619	634	594	547	533	536	506	446	447	418
Fiscal Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Revenue from: Japanese Government	409	425	494	580	657	653	689	672	672	672	672	672	672	672
Total of Revenue	409	425	494	580	657	653	689	672	672	672	672	672	672	672
Expenses:														
Energy Efficiency/APEC Energy Demand & Supply Outlook/ Related Research Programmes Oil & Gas Security	315	308	325	325	432	501	522	423	388	406	338	330	474	423
Energy Data Network & Know-How Transfer	94	94	86	107 68	68 100	183 97	124 91	161 86	119 73	100 44	59 40	43 90	224 90	163 86
Total of Expenses	409	402	411	500	600	781	737	670	580	550	437	463	788	672

Thank you.

<https://aperc.or.jp>

