Asia-Pacific Economic Cooperation

APERC Asia Pacific Energy Research Centre

Session 2-G. EGEDA updates

Report on EGEDA Energy Statistics Training Courses

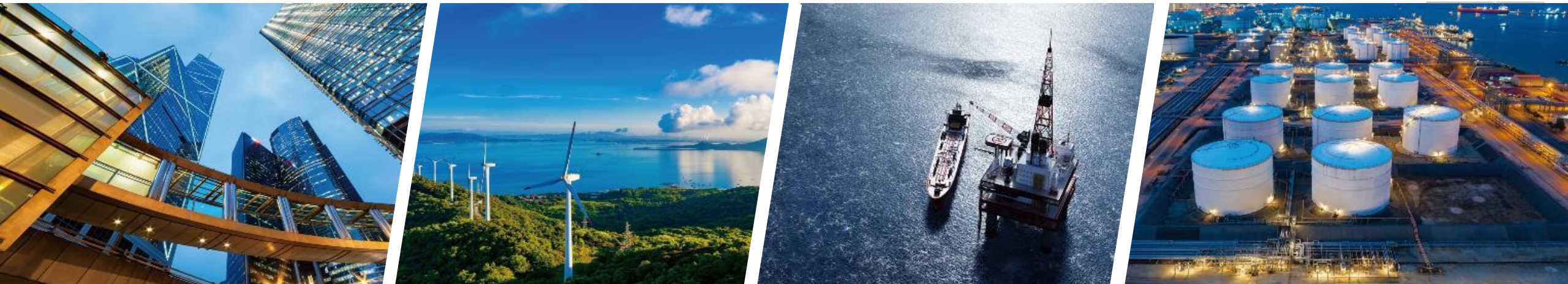
The 37th meeting of APEC Expert Group on Energy Data and Analysis (EGEDA)

Guangzhou, China

8 - 10 April 2026

Nobuhiro SAWAMURA

EGEDA Secretariat



Training details

Relationship with APERC's Research

- In 2014, Asia Pacific Energy Research Centre, APERC (as the secretariat of the APEC Expert Group on Energy Data and Analysis (EGEDA)) started EGEDA training program on energy statistics to ensure that new energy statisticians are sufficiently trained to improve APEC energy data quality through closer cooperation of the member economies.

Objectives of the training

- To increase the level of understanding of APEC energy data base by APEC economies
- To improve reliability of the APEC energy database
- To enhance human resource network between APEC economies and APERC

Venue

- APERC office in Tokyo

Duration

- 2 weeks (10 working days)

Agenda

EGEDA Energy Statistics Training Program

Short-Term Course, 19 - 30 January 2026

Draft Training Agenda

Date/Time	Contents	Speaker
18 Jan, Sun	**Arrival in Tokyo**	
19 Jan, Mon		
9:15-9:30	**Registration and distribution of allowances for APERC-funded participants**	
9:30-10:30	**Opening ceremonies** • Welcoming remarks • Group photo • Safety guidelines and other important information • Self-introduction by trainees and trainers • Introduction of EGEDA, data collection and the training course	 Dr. Irie All Mr Sawamura All Mr Barcelona
10:30-11:00	**1.1 The importance of energy statistics and the APEC Energy Database**	Ms Gelindon
11:00-11:15	*Morning break*	
11:15-12:30	**1.2 IRES recommendations on energy statistics and energy balances including revision of SIEC**	Mr Sawamura
12:30-13:30	*Lunch break*	
13:30-15:30	**1.3 Introduction to the energy balance table**	Mr Barcelona
15:30-15:45	*Afternoon break*	
15:45-17:30	**Trainees' presentations (5 economies)** Current energy situation and energy data collection in trainees' economies	Trainees
18:00-20:00	**Networking Dinner**	
20 Jan, Tue		
9:30-11:00	**2.1 Energy data collection in Japan** • Supply (coal, oil, gas, electricity & heat, NRE)	Mr Sawamura
11:00-11:15	*Morning break*	
11:15-12:30	**2.2 Energy data collection in Japan** • Consumption (industry, transportation, commercial, residential, non-energy)	Mr Sawamura
12:30-13:30	*Lunch break*	
13:30-15:30	**2.3 Energy unit conversion with practical exercises**	Dr Dumlao
15:30-15:45	*Afternoon break*	
15:45-17:30	**Trainees' presentations (5 economies)** Current energy situation and energy data collection in trainees' economies	Trainees
21 Jan, Wed		
9:30-11:00	**3.1 The annual coal questionnaire** • Definition of products • Definition of supply, transformation and consumption flows	Mr Barcelona
11:00-11:15	*Morning break*	
11:15-12:30	**Exercise:** filling-out the coal questionnaire	Trainees
12:30-13:30	*Lunch break*	
13:30-14:30	**3.2 The oil questionnaire** • Oil principles • Definition of products and supply flows	Ms Gelindon
14:30-15:00	• Exercise: filling-out the oil questionnaire	Trainees
15:00-15:15	*Afternoon break*	
15:15-17:30	**3.3 Explanation of the gas questionnaire** • Natural gas products and flows **Exercise:** filling-out the gas questionnaire	Mr Sawamura
17:30	**Explanation of Thursday morning seatwork**	Ms Gelindon
22 Jan, Thu		
9:30-12:30	**Seatwork at the small meeting room and/or open-space area**	Trainees
12:30-13:30	*Lunch break*	
13:00-14:00	**4.1 Explanation of NRE questionnaire** • Importance of NRE data • NRE products • What are counted and not counted	Mr Barcelona
14:00-14:30 14:30-15:00	**Methodologies in calculating NRE production and consumption** • **4.2 Fuel wood and charcoal** • **4.3 Bagasse**	 Mr Sawamura Mr Barcelona
15:00-15:15	*Afternoon break*	
15:15-15:45 15:45-16:15 16:15-16:45	**Methodologies in calculating NRE production and consumption** • **4.4 Biogas** • **4.5 Biomass consumption in palm oil and paper production** • **4.6 Solar water heaters**	 Mr Barcelona Ms Gelindon Dr Dumlao
16:45-17:30	**NRE questionnaire** **Exercise:** filling-out the NRE questionnaire	Mr Barcelona Trainees
23 Jan, Fri		
9:30-11:00	**5.1 Explanation of the electricity & heat questionnaire** • Electricity & heat/cooling producers • Electricity & heat/cooling sources • Estimating and reporting electricity consumption of EVs • Electricity storage and reporting electricity storage data	Mr Barcelona
11:00-11:15	*Morning break*	
11:15-12:30	**Exercise:** filling-out the electricity & heat questionnaire	Mr Barcelona
12:30-13:30	*Lunch break*	
13:30-14:00	**5.2 Building the energy balance table**	Mr Barcelona
14:00-15:00	**Exercise: Building the energy balance table**	Mr Barcelona
15:30-15:45	*Afternoon break*	
15:15-16:30	**5.3a Calculating GHG emissions using the energy balance table** **Exercise:** Calculating GHG emissions from energy combustion	Dr Dumlao
16:30-17:30	**5.3b Calculating Fugitive GHG emissions using the energy balance table** **Exercise:** Calculating fugitive GHG emissions	Dr Dumlao
24 –25 Jan, Sat – Sun, Free Time		
26 Jan, Mon		
9:30-11:00	**6.1 Energy efficiency indicators (EEI)** • Importance of energy efficiency indicators	Ms Gelindon
11:00-11:15	*Morning break*	
11:15-12:30	**6.2 EEI data gap assessment**	Ms Gelindon
12:30-13:30	*Lunch break*	
14:00-15:00	**6.3 Tracking energy efficiency in household sector**	Ms Gelindon
15:00-15:15	*Afternoon break*	
15:15-17:30	**6.4 Modeling household end-use energy consumption**	Ms Gelindon
27 Jan, Tue		
9:30-12:00	**7.1 Tracking energy efficiency in services sector**	Mr Sawamura
11:00-11:15	*Morning break*	
11:15-12:30	**Exercise:** Services end-use energy consumption estimation	Mr Sawamura
12:30-13:30	*Lunch break*	
13:30-14:30	**7.2 Tracking energy efficiency in transport sector**	Mr Barcelona
15:00-15:15	*Afternoon break*	
15:15-16:30	**7.3 Modelling transport energy consumption**	Mr Barcelona
16:30-17:30	**Exercise:** Transport end-use energy consumption estimation	Mr Barcelona
28 Jan, Wed		
9:30-11:00	**8.1 Tracking energy efficiency in industry sector**	Dr Dumlao
11:00-11:15	*Morning break*	
11:15-12:30	**8.2 Modeling industry energy consumption**	Dr Dumlao
12:30-13:30	*Lunch break*	
13:30-15:00	**8.3 Hydrogen production and consumption**	Mr Sawamura
15:00-15:15	*Afternoon break*	
15:15-16:00	**Exercise:** Filling out the hydrogen data reporting template	Mr Sawamura
16:00-17:30	**8.4 District cooling and reporting district cooling data**	Ms Gelindon
29 Jan, Thu		
9:30-11:00	**9.1 Calculating end-use energy consumption using survey data**	Ms Gelindon
11:00-11:15	*Morning break*	
11:15-12:30	**Exercise:** Calculating end-use energy consumption using survey data	Ms Gelindon
12:30-13:30	*Lunch break*	
	9.2 Introduction to decomposition analysis	Ms Gelindon
15:00-15:15	*Afternoon break*	
15:15-17:30	**Exercise:** Hands-on exercises on decomposition analysis	Ms Gelindon
30 Jan, Fri		
9:30-11:00	**10.1 Introduction to Joint Organisations Data Initiative**	Mr Sawamura
11:00-11:15	*Morning break*	
11:00-12:30	**Exercise:** Filling out the JODI Oil and JODI Gas questionnaires with October 2025 and November 2025 data	Mr Sawamura
12:30-13:30	*Lunch break*	
13:30-15:00	**Review of JODI exercises**	Mr Sawamura
15:00-15:15	*Afternoon break*	
15:15-16:30	**Review of the training course**	Mr Barcelona
16:30-17:00	**Awarding of certificates of the short-term training course**	Mr Sweetnam
17:00	**Group photo**	All
31 Jan, Sat	**Departure from Tokyo**	

Speakers:

1. Dr. Kazutomo IRIE – President, APERC
2. Mr. Glen SWEETNAM – Senior Vice President, APERC and Chair, EGEDA
3. Mr. Edito BARCELONA – Senior Research Fellow, ESTO/APERC
4. Ms. Elvira GELINDON – Research Fellow, ESTO/APERC
5. Mr. Nobuhiro SAWAMURA – Senior Researcher, ESTO/APERC
6. Dr. Matthew Dumlao – Researcher, APERC

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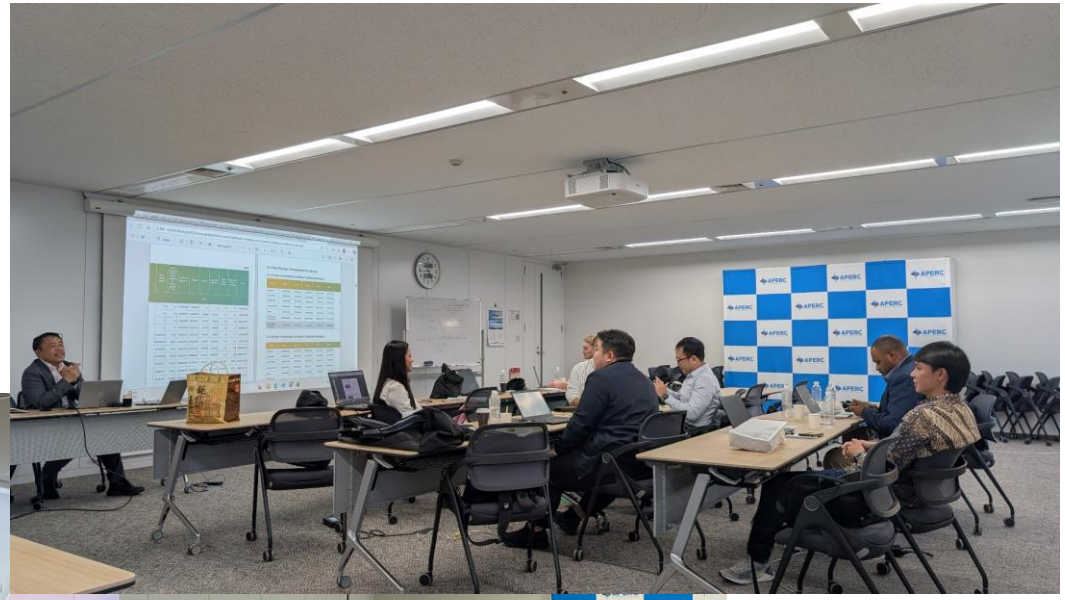
10-days training; 7 hours/day; 32 Lectures; 14 exercises; Q&A

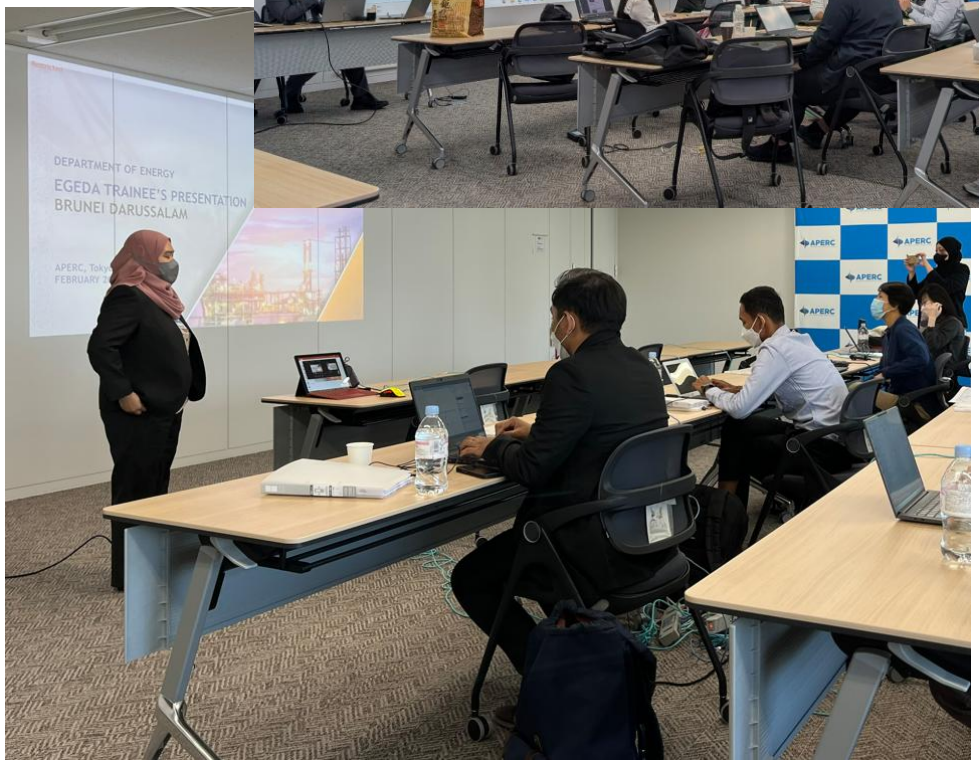
Highlight (1)

Day 1 & 2

<General knowledge of energy statistics>

- The importance of energy statistics/ APEC Energy Database
- IRES recommendation on energy statistics and energy balances including revision of SIEC
- Introduction to the energy balance table
- Energy data collection in Japan
- Energy units and unit conversion with practical exercises





Trainees' presentation (each 20 minutes)

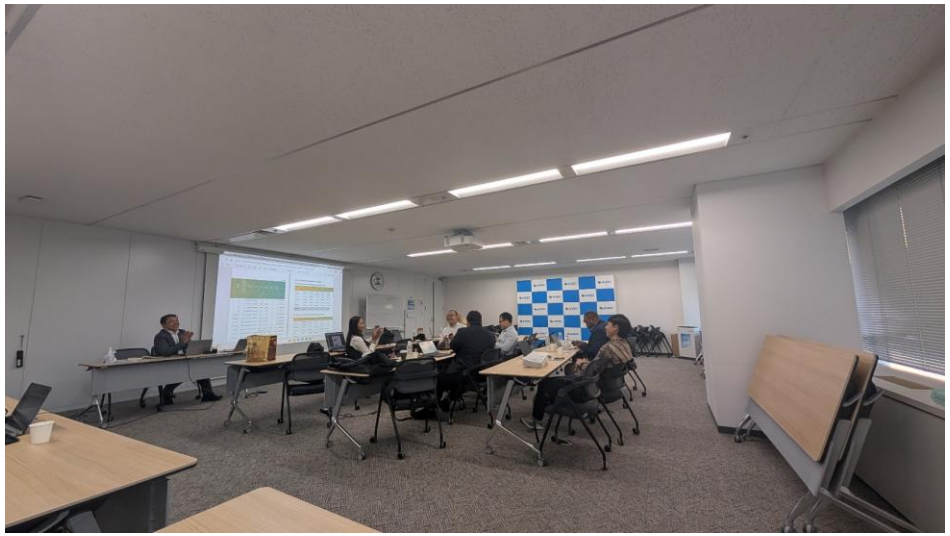
Current energy situation and energy data collection in trainees' economies (IND; PNG; PHL; RUS; THA; VN)

Highlight (2)

Day 3 - 5

<Annual questionnaires>

- The coal questionnaire (with exercise)
- The oil questionnaire (with exercise)
- The gas questionnaire (with exercise)
- The electricity & heat questionnaire (with exercise)
- NRE questionnaire/ calculating NRE production and consumption (with exercise)
- Building the energy balance table (with exercise)
- Calculating CO2 emissions using the energy balance table (with exercise)
- Calculating Fugitive GHG emissions using the energy balance table (with exercise)



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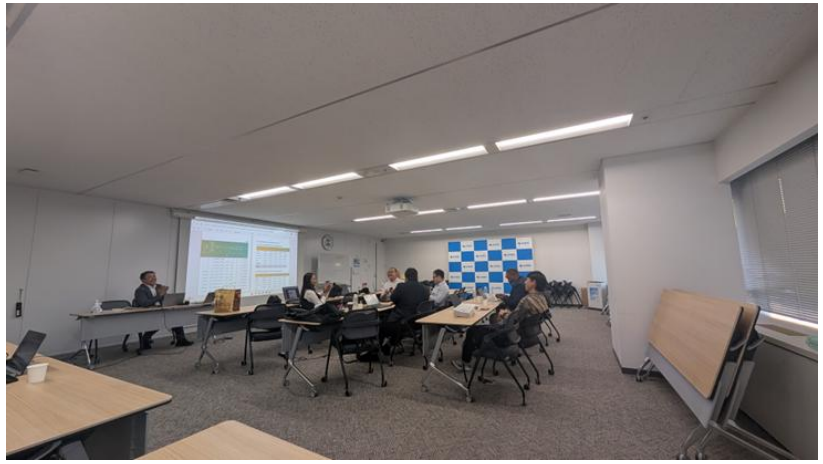
Highlight (2)

Day 6 - 10

・Energy efficiency indicators (EEI), EEI data gap assessment

- Tracking energy efficiency in household sector; Modeling household end-use energy consumption (with exercise)
- Tracking energy efficiency in services sector; Modeling services energy consumption (with exercise)
- Tracking energy efficiency in transport sector; Modeling transport energy consumption (with exercise)
- Tracking energy efficiency in industry sector; Modeling industry energy consumption (with exercise)
- Hydrogen production and consumption (with exercise)
- District cooling and reporting district cooling data
- Calculating end-use energy consumption using survey data (with exercise)
- Introduction to decomposition analysis (with exercise)
- Introduction to Joint Organisations Data Initiative (JODI) (with exercise)
- Review of the training course



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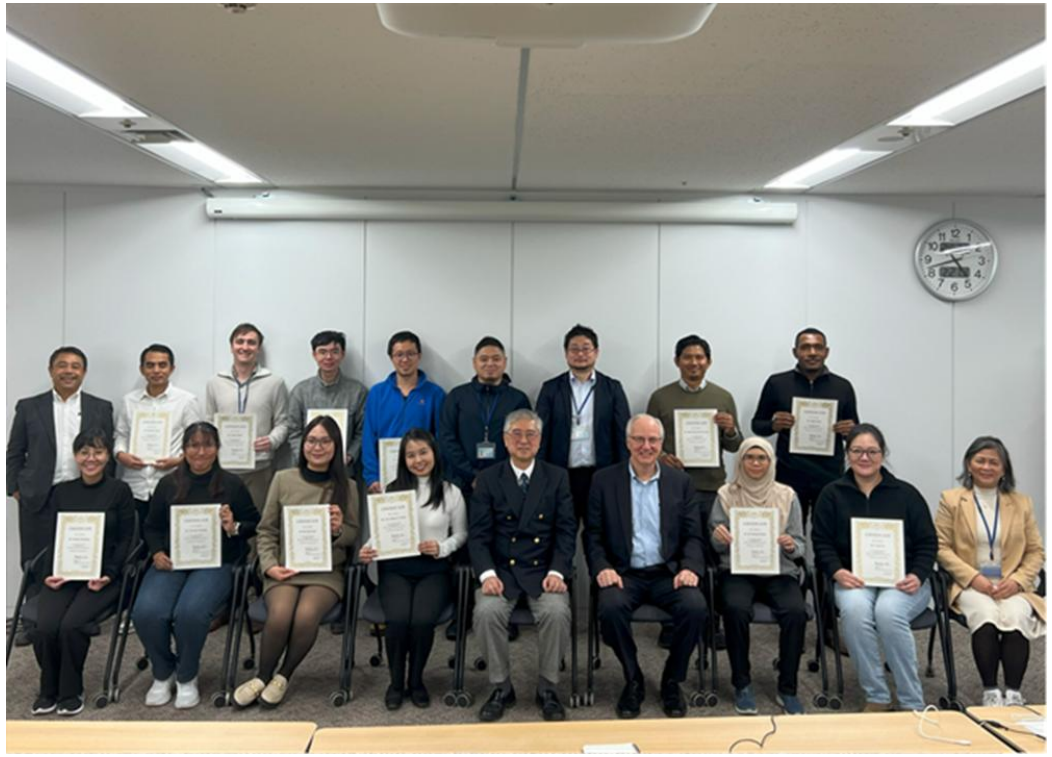
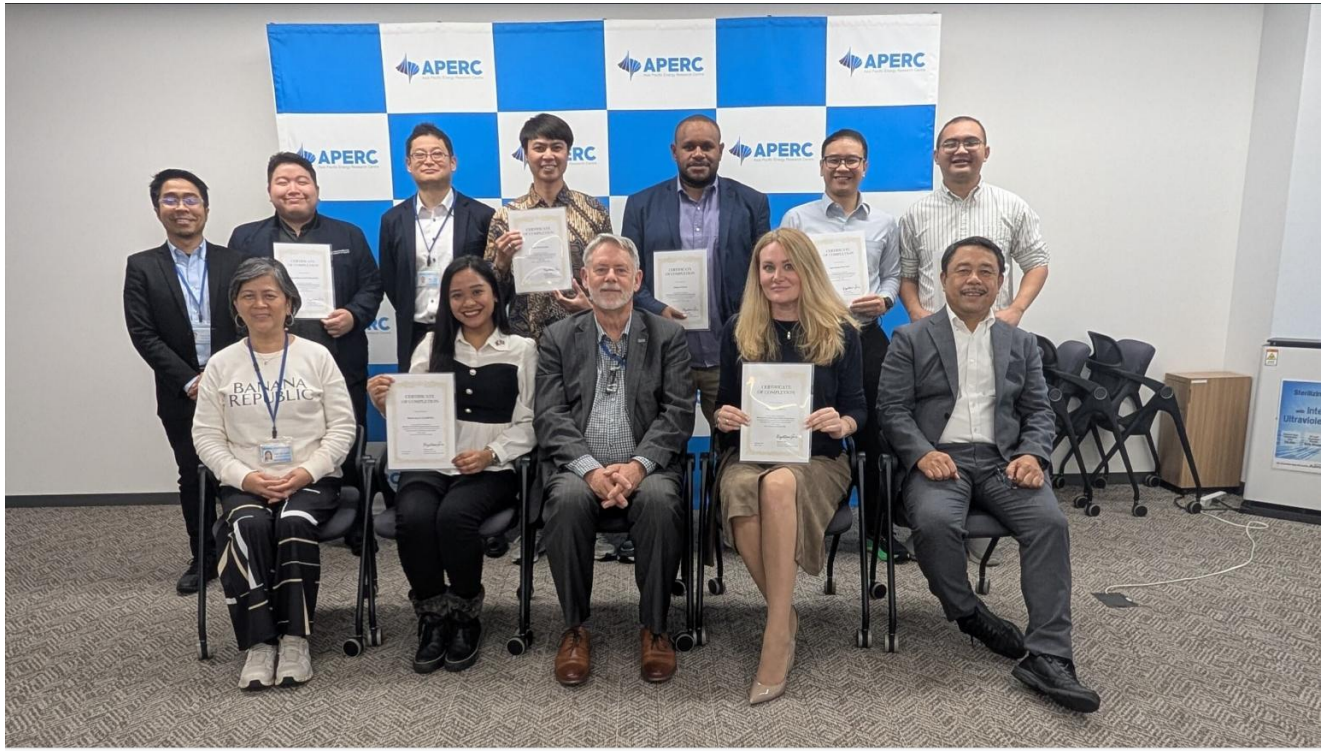
Energy statistics course (Held in Tokyo)

10-21 February 2025



No. of economies – **8** (INA; MAS; PNG; PHL; SGP; CT; THA; VN)
No. of participants – **11** (3 self-funded)

19-30 January 2026



No. of economies – **6** (IND; PNG; PHL; RUS; THA; VN)
No. of participants – **7** (1 self-funded)

FY2026 Statistics training courses

Venue: **Tokyo, Japan**

Date : **9 – 20 November 2026**

Objective

- ❑ Enhance the capability of energy statisticians in APEC.
- ❑ Keep the members up-to-date with new developments in energy statistics.

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Thank you for your kind attention.

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