

# EGEDA Updates

**The 61<sup>st</sup> Meeting of the APEC Expert Group on Energy Efficiency & Conservation (EGEEEC61)**

**The 59<sup>th</sup> Meeting of the APEC Expert Group on New and Renewable Energy Technologies**

**17-19 October 2023**

**Metro Manila, Philippines**

Glen SWEETNAM

Chair, EGEDA

Senior Vice President, Asia Pacific Energy Research Centre (APERCC)



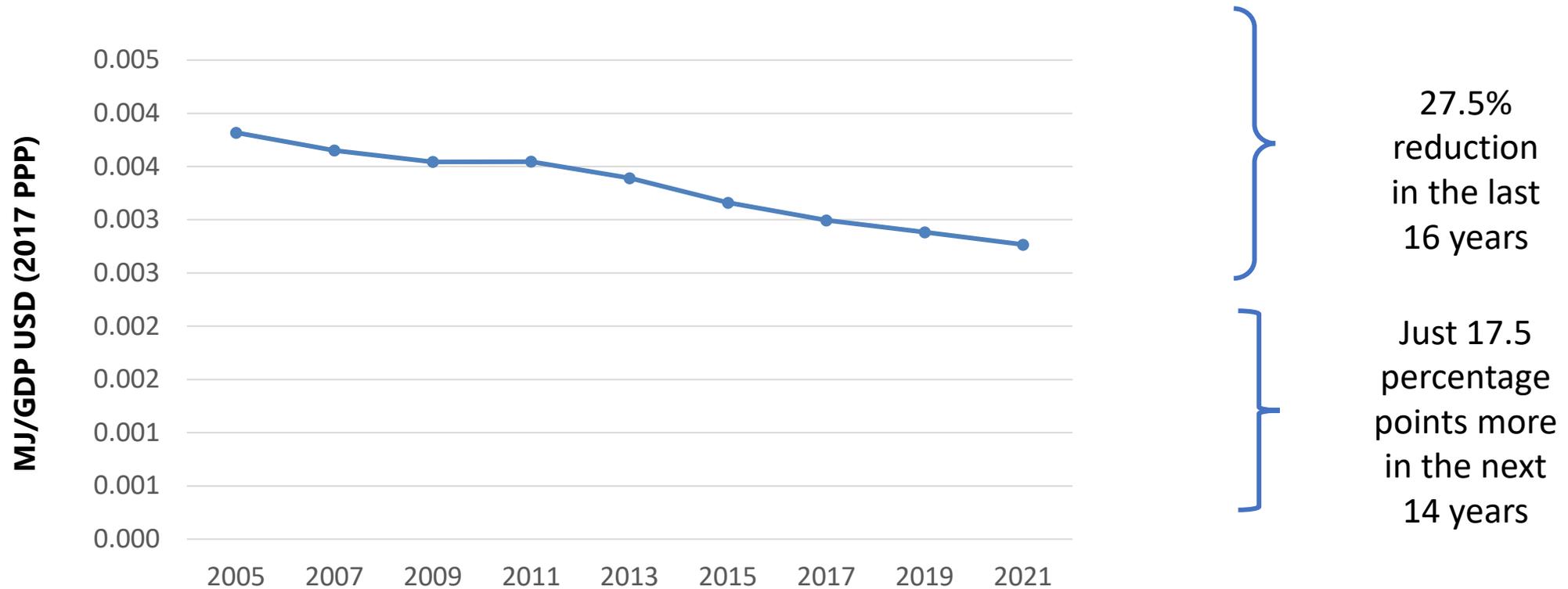
# Outline

- Update on 2021 annual energy data
- Progress toward the two APEC energy goals
- 21<sup>st</sup> APEC workshop on energy statistics
- EGEDA's training courses on energy statistics
- Secretariat's participation in international meetings
- 34<sup>th</sup> and 35<sup>th</sup> EGEDA meetings

# Regular APEC energy data collection

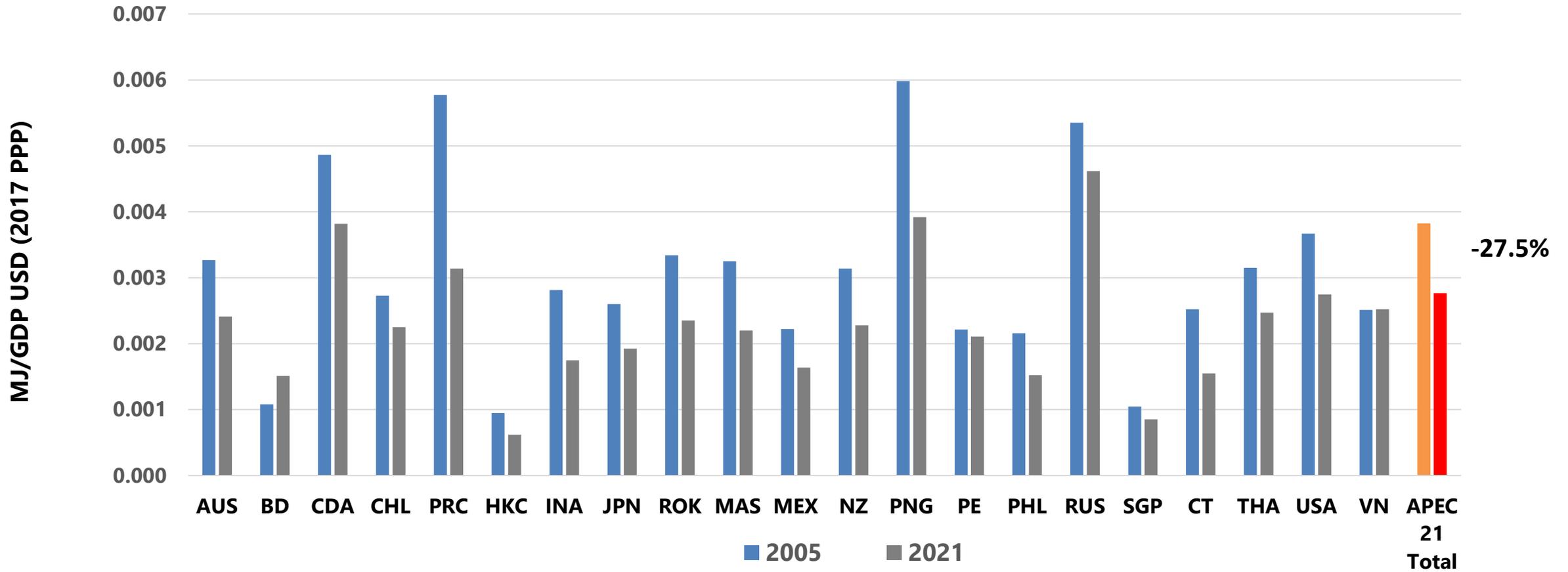
- ❑ The secretariat has completed the collection of **annual energy supply and demand data for the year 2021**
  - Data have been processed and the **APEC Energy Statistics 2021** and **APEC Energy Handbook 2021** are being drafted for release by the end of March 2024
  - Energy balances through 2021 will be uploaded in the APEC Energy Database soon
- ❑ **Annual energy supply and demand data for the year 2022** will be collected soon
- ❑ Other data collections continue
  - Annual energy prices
  - Annual CO<sub>2</sub> emissions from energy combustion; from 2021, **EGEDA** is also collecting data on **fugitive emissions and carbon transport and storage; Methane (CH<sub>4</sub>) and Nitrous oxide (N<sub>2</sub>O)** emissions are also collected in addition to CO<sub>2</sub>
  - Energy efficiency indicators
  - Monthly oil and gas supply and demand (JODI)
  - Quarterly energy supply

# Tracking the APEC energy intensity reduction goal

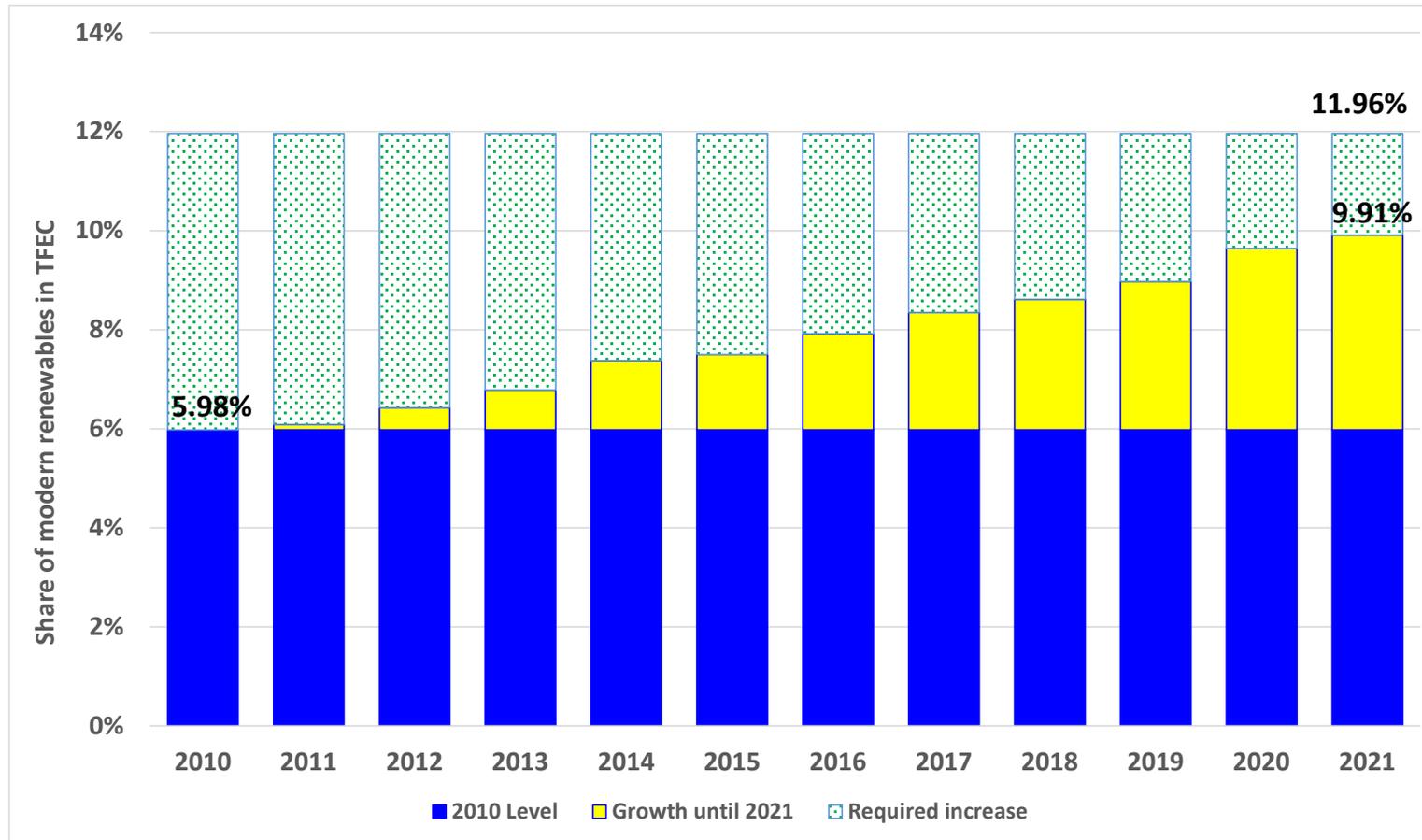


- *In 2021, which is halfway between 2005 and 2035, APEC has reduced energy intensity by 27.5%, needing to reduce by just 17.5 percentage points more in the next 14 years (2021 to 2035)*

# Final energy intensity varies widely among economies



# Tracking the APEC renewable energy doubling goal

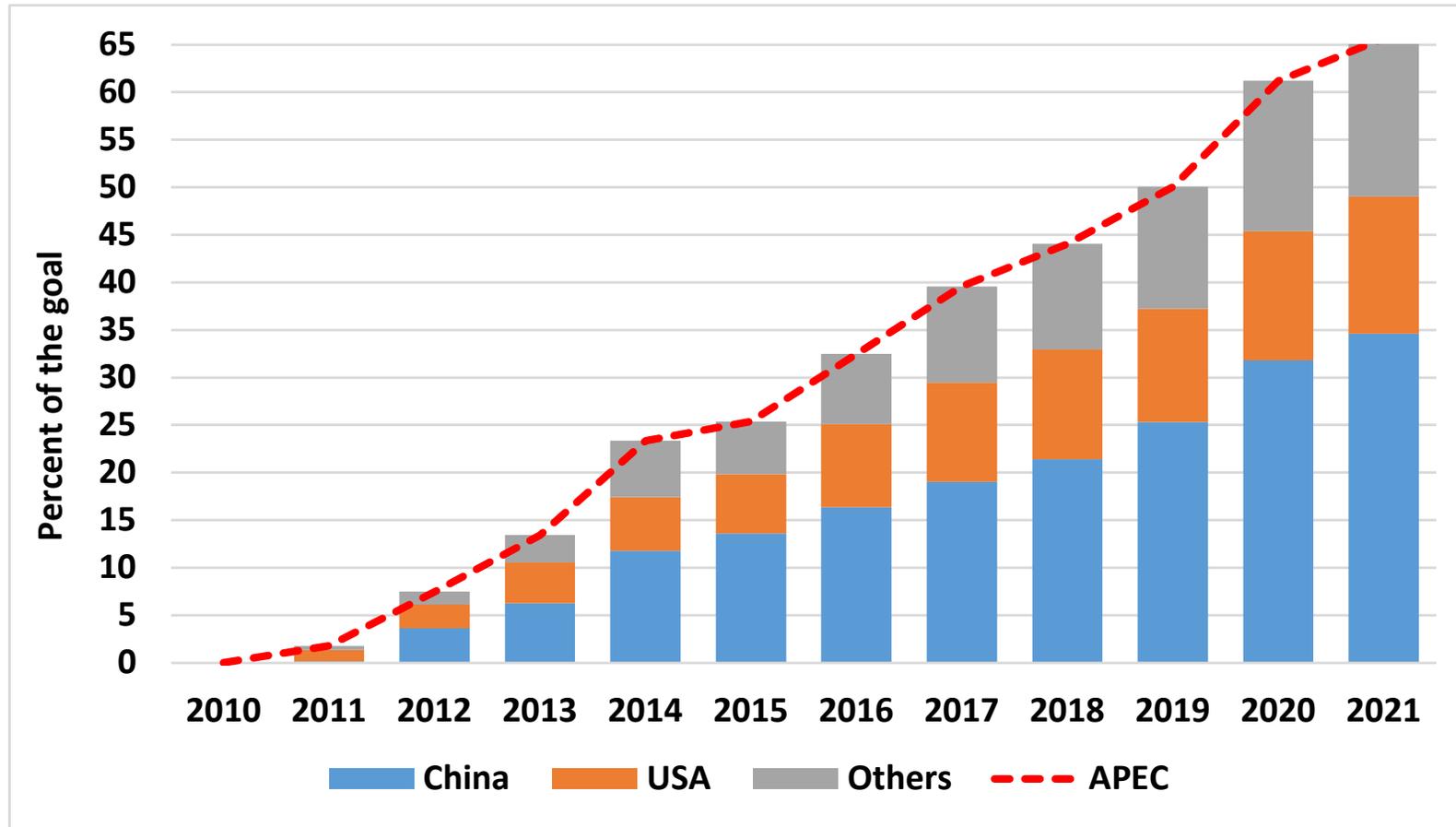


Just 2.05 percentage points more in the next 9 years

3.93 percentage points increase in the last 11 years

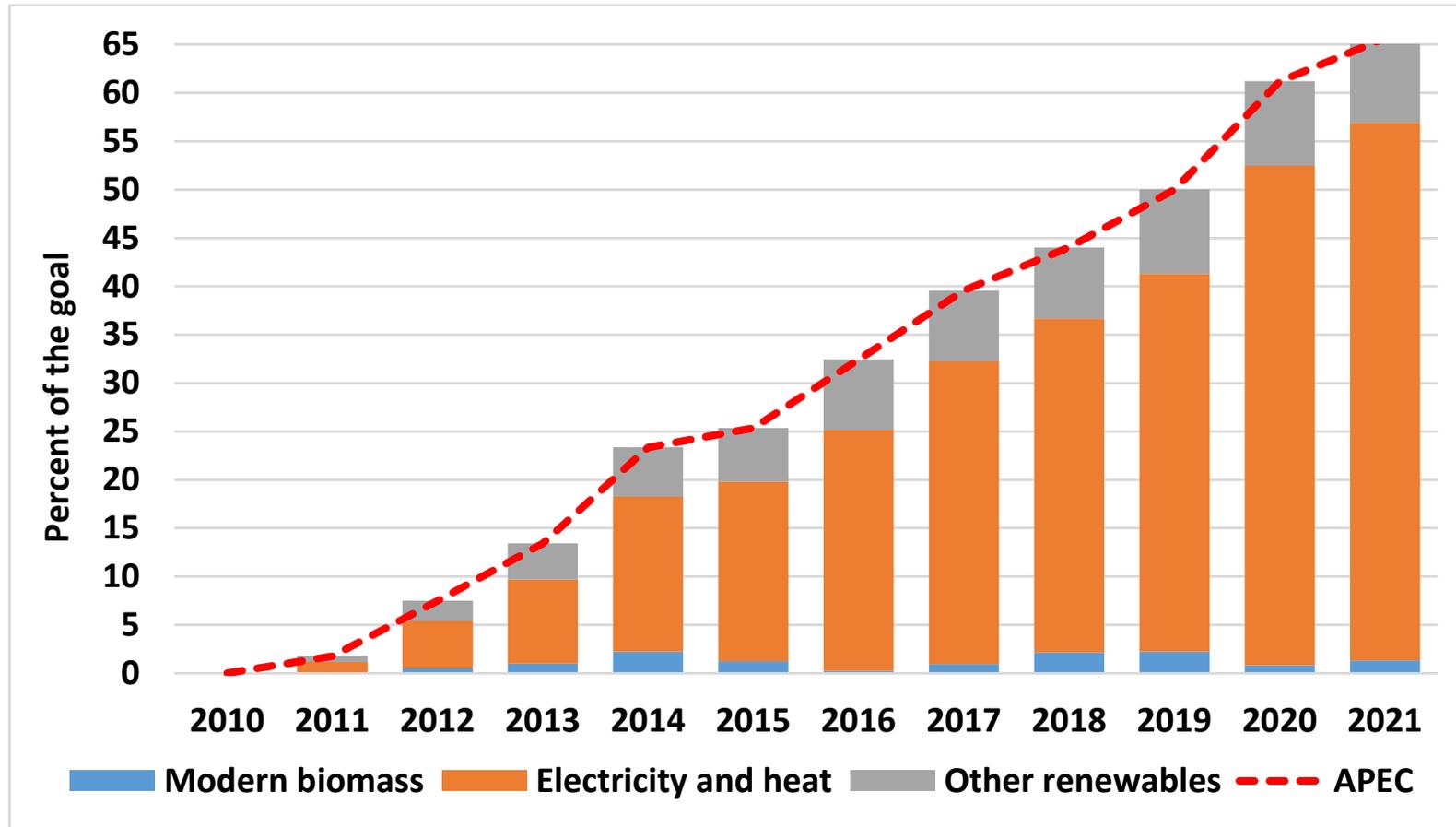
- In 2021, which is still 9 years to 2030, APEC has increased RE share in final energy consumption by 3.93 percentage points, needing to increase by just 2.05 percentage points more in the next 9 years (2022 to 2030)*

# China and the USA are the main sources of renewable energy growth



- China's renewable energy share increased by 2.7 times from 2010 to 2021; that of the USA increased by 1.6 times during the same period. The rest of APEC also increased by 1.6 times.

# Electricity generation is the main source of renewable energy growth



- *Electricity generation accounted for 85% of the total increase in renewable energy share; other renewables for 13%, while modern biomass for 2%.*

# Energy efficiency indicators template

- ❑ Low response rate from non-OECD member economies due to unavailability of end-use energy consumption data and several activity data
- ❑ EGEDA secretariat sought the assistance of EGEEC members in providing data for the template
- ❑ EGEDA secretariat will use the models for end-use energy consumption data estimation made by consultant
  - Fill out the template of Brunei Darussalam and the Philippines using the results of their surveys and the models
  - Ask these two economies to review the secretariat's estimate
  - Hopefully, the economies adopt the secretariat's results

# 21<sup>st</sup> APEC workshop on energy statistics



- ❑ Held on **12-14 September 2023** in Tokyo, Japan
- ❑ Objective: enhance the participants' knowledge of hydrogen, district cooling, and other emerging new energy technologies, such as large-scale battery electricity storage, on definitions, characteristics, etc., to facilitate data collection on these new energy products and technologies.
- ❑ Agenda
  - New data collection and reporting requirement of the energy transition
  - Hydrogen/ammonia/e-fuels production and consumption
  - Understanding district cooling/district energy systems
  - Grid-scale electricity storage development in APEC
  - Reporting the energy consumption of EVs, PHEVs and FCEVs
  - Understanding fugitive methane emission and CO<sub>2</sub> sequestration

# EGEDA's training courses (Fiscal year 2022-23)

## ☐ Short term: two weeks course (**6-16 February 2023**)

- 12 participants from 9 economies, 9 trainees funded by APERC
- Training agenda included collection/estimation of end-use energy consumption data in addition to regular items

## ☐ Special one-week course for Viet Nam (**27 February to 3 March 2023**)

- Seven participants from Institute of Energy (2), Electricity and Renewable Energy Authority (2), Oil, Gas and Coal Department (1), Viet Nam EWG Office (1) and General Statistics Office (1)
- EGEDA secretariat encouraged the trainees to prepare memorandum of understanding (MOU) among their agencies to facilitate smooth data collection

## ☐ 8-weeks course on energy statistics (**4 June or 29 July 2023**)

- A trainee from PNG's National Energy Authority (NEA)
- The trainee was exposed to various data collection, estimation and processing methodologies by the secretariat

# Secretariat's participation in international meetings

- JODI Inter-Secretariat Working Group (ISWG) meeting on **22 May 2023**
  - Discuss organization updates, technical issues and cooperation with private stakeholders
- Monthly meetings of the Task Team for the Revision of Standard International Energy Classification (TT-SIEC) under International Energy Statistics Working Group (InterEnerStat)
  - Discuss revisions to SIEC with the ongoing revisions of Central Product Classification (CPC) and International Standard Industrial Classification (ISIC)
  - Last online meetings in September 2023
- IEA's Energy Statistics Development Group (ESDG, **23-24 November 2023**)
  - EGEDA secretariat to share plans for data collection of hydrogen/ammonia/e-fuels, grid-scale electricity storage and electricity consumption in road transport data;

# 34<sup>th</sup> EGEDA meeting

- ❑ Held in **Honolulu, Hawaii, the USA** on **4-5 April 2023**
- ❑ **A joint meeting with EGNRET58**
- ❑ **Outcomes**
  - 12 economies, 5 APEC fora, 3 non-APEC organisations participated
  - Areas of future collaboration:
    - Joint meetings and projects among expert groups
    - Strengthen networks among fora contact points and experts
    - More technical workshops on the margins of joint meetings
    - Invitations to other APEC fora representatives (e.g., the transportation working group)



# 35<sup>th</sup> EGEDA meeting

- Time and Place: **17-19 January 2024** in **Hong Kong, China**
- Agenda
  - Reports by various EWG for and other organizations
  - Collaboration between expert groups
  - Updates on EGEDA data collection and progress toward APEC energy goals
  - New sector and fuel consumption analyses
  - Energy efficiency indicator data and analyses
  - Progress toward collecting additional APEC data (e.g., methane emissions)

**Thank you.**

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