

## Meeting Summary

Joint EGNRET58/EGEDA34 meeting  
Honolulu, Hawaii, USA  
4-5 April 2023

*“Economy movement toward carbon free electricity”*



# Opening session

## Official Welcome (Dr. Cary Bloyd)

- Importance of the joint meeting and collaboration, sharing of facts and ideas towards clean energy goals;
- Reported back to EWG

## Opening remarks

- EGNRET chair (Dr. Liao) mentioned that it is the first time to have the joint meeting with EGEDA. Thanks for 12 economies and 6 fora to attend the meeting.
- EGEDA chair (Mr. Sweetnam) highlighted the importance of gathering together to understand current developments new energy technologies; and to address the challenges that come in the collection, and in providing reliable and accurate data.

## Host economy presentation (Dep Sec. Urbanas)

- Highlighted on notable developments in the USA, such as Inflation Reduction Act (IRA), Bipartisan Infrastructure Law, Energy Earthshots, among others that would benefit the climate and clean energy policy and promote electrification, etc. of the economy
- APEC 2023 Theme “Creating a Resilient and Sustainable Future for All”

# Updates



- ❑ EWG
  - ❑ Reported the result of 63<sup>rd</sup> EWG meeting
  - ❑ US Year: will host Ministerial, SOM and the EWG 65 that will take place in Detroit, Michigan, USA, May 19-22
- ❑ EGNRET
  - ❑ Reported on the meeting outcome of EGNRET 57 Meeting, the selection for the positions of EGNRET Chair and Vice Chair for the 2023-2024 term, and the EGNRET projects.
  - ❑ Updates on EGNRET project list.
- ❑ EGEEC
  - ❑ Updates from recently held meeting
  - ❑ Next meeting will be hosted by the Philippines in November 2023
- ❑ EGCFE
  - ❑ Reported that Japan is the newly appointed chair for [2023-2024 term. Members are encouraged to nominate vice chair](#)
  - ❑ Future plan were also reported s such as the upcoming 6th APEC Oil and Gas Security Network Forum (EWG 01 2020S) on 21 April 2023

# Updates

## ❑ APERC

- ❑ APEC Energy Outlook updates; preparation for the 9<sup>th</sup> edition is ongoing
- ❑ Other activities such as Fossil Fuel (gas and coal) reports, held the Outlook modeling training on 6-10 March 2023

## ❑ IRENA

- Reported on energy statistics; mentioned about the differences on reporting on electricity generation from renewables; EGEDA will look into this.
- Presented possible issues and topics for the round table discussion

# EGEDA report and updates

- Reported on the status of data collection (including JODI) and APEC energy publication
- Reported on the recently conducted trainings and workshops
- Hydrogen updates: plans for data collection on production and consumption
- Future workshops and trainings; encourages members to participate in these trainings
  - The next workshop is focused on Hydrogen and district cooling. It could probably be expanded to include other new technologies such as e-fuels, storage batteries, this will probably help address the concerns raised on the definitions and methodologies in collection of these data

# US experience on RE data collection

- “What information/data are need and how to get these information”
- **Points for discussion**
  - ❑ How has EIA adjusted its survey methods and data cleaning, compilation, and reporting procedures to adapt to the dramatic increase in renewable energy production and consumption?
    - Modified established survey forms to better understand key drivers of renewable activity
    - Developed new survey forms to fill data gaps
    - Developed models to cover areas that are impractical for survey
  - ❑ In addition to electricity-based participation, how has EIA handled non-power renewable energy?
    - Developed surveys specifically designed for biofuel production

# Roundtable discussion: Members' Methodology on RE Data Collection and Reporting

<input type="checkbox"/> <b>Australia</b> – estimation of solar PV in the past, now uses satellite data	<input type="checkbox"/> <b>The Philippines</b> – targets and directives were from National Renewable Energy Program; household energy consumption survey to be conducted this year
<input type="checkbox"/> <b>Brunei Darussalam</b> - collects data from power producer and electricity authority; verified for consistency	<input type="checkbox"/> <b>Singapore</b> - hydrogen strategy in place in anticipation of large amount of hydrogen in the future
<input type="checkbox"/> <b>Hong Kong, China</b> – 85% of RE were from municipal waste; still studying the collection of hydrogen	<input type="checkbox"/> <b>Chinese Taipei</b> - industry sector submits renewable energy data such as bioenergy and solar energy; developing methodology to estimate missing data such as heat; agriculture energy consumption dat
<input type="checkbox"/> <b>Japan</b> – submit reports to the government including waste to energy; plastics; bioenergy; quality of municipality survey conducted every 3 months	<input type="checkbox"/> <b>Thailand</b> – difficulty collecting data, developing a methodology in the collection of hydrogen data
<input type="checkbox"/> <b>Korea</b> –targets 20% share of RE in the mix by 2030;	<input type="checkbox"/> <b>Viet Nam</b> - studying hydrogen data collection; need enhancement on data analyzing to collect new and renewable energy
<input type="checkbox"/> <b>PNG</b> –as the agency is new; still enhancing capability in data collection	

# EGEDA report on Hydrogen and JODI

- ❑ Hydrogen data collection issues
  - extend the period of pilot testing for data collection to ensure enough time for revising questionnaire if needed;
  - Check consistency of the tables; questionnaires; reporting, etc.
  - How to include e-fuels and other new technologies
- ❑ Updates on Hydrogen production and consumption (reported from EGEDA33)
  - Japan –pilot studies
  - Thailand – study/demonstration project on hydrogen use for transport;
  - Hong Kong; China – formulating plans for hydrogen and ammonia; town-gas could be the source of hydrogen that can be used for transport, especially large bus. Needs capability enhancement in collection
- JODI reporting
  - Singapore’s concern on Completeness as data is only available by end of year
  - PNG needs capability enhancement.

# Project Updates

- Hong Kong, China: introduced the new CN, Promoting Digital Solar Resource Maps and Management Technologies in Advancing Renewables Growth in APEC.
- Thailand: introduced the APEC project, Achieving Carbon Neutrality through Bio-Circular-Green Economy Principle in APEC Region. The workshop of this project will be held on April 6-7 which is alongside with this joint meeting in Hawaii, the United States.
- The United States: introduced 1) APEC project, Lessons learned on resiliency and uptake of variable energy resources from islanded grids that support APEC clean energy goals. The status of this project is that Project workshop was held December 6 - 7, 2022. Draft final report has been delivered; 2) APEC Workshop Furthering University Collaboration to Support Data Gathering and Analysis in Energy Efficiency, Renewable Energy, and Energy Resiliency. The project workshop was held in Bangkok January 11-13, 2023.
- Viet Nam: shared the project result of APEC Workshop on Promoting Renewable Energy for Rural and Remote Area Development

# Economy movement toward carbon free electricity

- The session aimed at showing the APEC member economies' efforts toward carbon free electricity. Following economies delivered their plans and projects to achieve this:
  - HKC: introduced that Hong Kong's Climate Action Plan 2050 and current renewable energy development.
  - Japan: The "2050 Carbon-Neutral Declaration and 2030 Climate Goal" and "Strategic Energy Plan" were introduced
  - The Philippines: the National Renewable Energy Program 2020-2040 and renewable energy policies and programs were introduced.
  - Singapore: Singapore Green Plan 2030 was introduced. Singapore launched the National Hydrogen Strategy to develop hydrogen to achieve net zero emissions by 2050
  - Chinese Taipei: Strategies toward net zero carbon emission were introduced.
  - Thailand: BCG model on Energy, Alternative Energy Development Plan (AEDP) and Energy Efficiency Plan were introduced.
  - The United States: The target "Net-zero emission economy by 2050 and 50-52% reduction by 2030", "100% carbon-pollution-free electric sector by 2035" and long-term strategy were introduced.

# Discussion on the APEC goals

- ❑ EGEDA reported on the progress of APEC energy intensity and renewable energy share doubling goals.
  - EGEDA mentioned that based on the current trends, APEC's aspirational goal of reducing energy intensity by 45% from 2005 to 2035 or over 30 years, seems to be achievable.
  - Renewable energy share decreased over time from 1990 to 2010 due to the faster growth of energy consumption versus the growth of renewable energy; however, between 2010 to 2020, growth of renewable energy was faster than that of non-renewable energy resulting in higher share of renewables in the energy mix.
  - What happens after 2020 (post pandemic energy consumption) should be closely monitored.
- ❑ APEC potential new energy goals
  - ❑ Hong Kong, China reported the progress of small group meetings and members' views on New Energy-Related Goals, and the options paper.
  - ❑ For consideration
    - Time frame
    - Energy efficiency goals
    - Renewable energy goals
    - Energy related emissions goal
- ❑ Options paper
  - Remain current goals and explore new goals when data is ready
  - Continue explore new goals

# Further areas of collaboration between expert groups

- Sees other experts' groups works; most members are statisticians; not about the technical issues, to mentioned the latest progress on the latest technologies
- People need to know what each other is doing
  - Two experts' group to initiate a concept note to have a detailed dialogue in then form of seminars or workshop
  - Research centres to consider integrating experts' groups specific issues (hydrogen, e-fules, etc)
- Look into the pathways that we can be discussing we need to male sure that we don't go to one model path
  - Info that could support multiple pathways to support the analysis
  - Goals should be comprehensive, meeting once a year to make sure that all thoughts are put together; all works need to work together
- Two proposals for joint project
  - APEC projects member economies collaborate to propose capacity how to collect data correctly
  - More joint meetings be organized; during meeting will see each other's importance
- Participation of members in meetings
  - Importance of the members
  - EGEEC will be joining other subgroups
  - Hybrid would be a good option to encourage member to join
- LS welcomed the suggestions to encourage members in joining workshops, seminars, training and meetings that experts; groups are conducting
  - Relevant workshop to be conducted alongside joint meetings
- Involve the Transportation Working Group for the joint collaboration (to cover transport related topics, e.g EV vehicles)

# Group picture



**EGNRET 58**

*“Economy movement toward carbon free electricity”*

**EGEDA**  
under EWG-APEC

# Next meeting

## EGNRET

The next EGNRET meeting will be held jointly with EGEEC in the Philippines on Oct. 16-19.

## EGEDA

# Meeting adjourned

“Economy movement toward carbon free electricity”

# Thank you for your kind attention!

<https://www.egnret.ewg.apec.org>

<https://www.egeda.ewg.apec.org>