APEC Expert Group on New and Renewable Energy Technologies



EGNRET Updates

EGNRET

EGCFE 2023

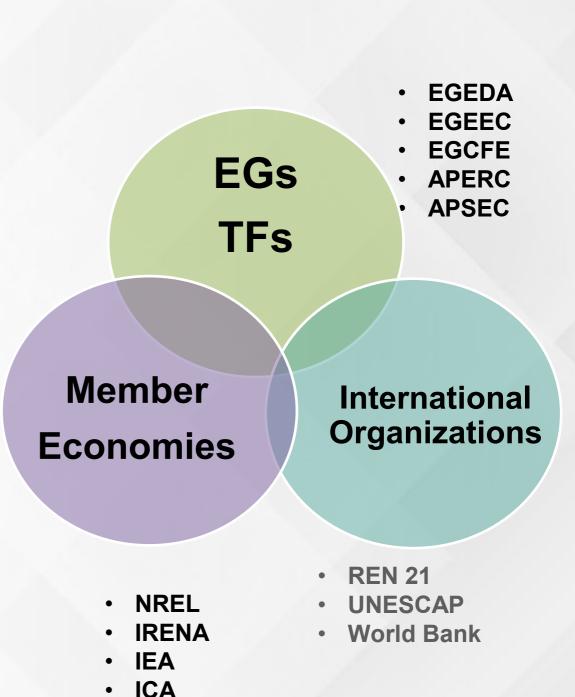
20 April 2023

EGNRET Works



- The mission of the APEC Expert

 Group on New and Renewable Energy
 Technologies (EGNRET) is to facilitate
 the increase in the use of new and
 renewable energy technologies in the
 APEC region.
- ■EGNRET has been working closely with other APEC Expert Groups, Task Forces, member economies and international organizations to regularly hold EGNRET meetings, set meeting themes and monitor projects.





- The Joint Meeting of EGNRET 58 and EGEDA34
- Date: 4-5 April 2023
- Host Economy: USA (Physical Meeting)
- The meeting theme :

Economy Movement toward Carbon Free Electricity





Participating Economies

(12) Australia; Brunei Darussalam; Hong Kong, China; Japan; Republic of Korea; Papua New Guinea; the Philippines; Singapore; Chinese Taipei; Thailand; The United States; Viet Nam

APEC fora

(5) EGEDA; EGNRET; EGCFE; EGEEC; APERC

Non APEC Organization

(3) IRENA; US-SEGA; Hawaii Natural Energy Institute (HNEI)



Meeting Theme

Economy Movement toward Carbon Free Electricity

 HKC, Japan, the Philippines, Singapore, Chinese Taipei, Thailand, and United States shared the plans and strategies toward carbon free electricity.

Discussion

Members' Methodology on RE Data Collection and Reporting

- Sharing latest development and the difficulties of energy data collection.
- Discussing data collection :

Hydrogen:

- ✓ extend the period of pilot data collection
- ✓ check consistency of the tables; questionnaires; reporting
- E-fuel: how to include e-fuels and other new technologies





APEC Potential New Energy Goals

- EGEDA reported on the progress of APEC energy intensity and renewable energy share doubling goals.
- 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.
- Options paper
- ✓ Remain current goals and explore new goals when data is ready
- ✓ Continue explore new goals





Further Areas of Collaboration between Expert Groups

- Proposing joint project among expert groups
- Having joint meeting
- ■Encourage members to attend meeting and related activities
- ■Hybrid meeting could be an option to encourage more economies to join
- ■Encourage members to send contact point to expert group
- Research center could consider to integrate expert groups
- Having relevant workshops alongside with joint meeting is valuable for everyone
- ■Inviting transportation working group to join to have broader discussion (e.g., incl. EV)



| Status | Projects |
|---|----------|
| Concept Note | 1 |
| Project Proposal | 1 |
| Project in Implementation | 12 |
| Completed since EGNRET 57 (5th - 7th October 2022) | 3 |

Suggested Collaboration between EGCFE and EGNRET

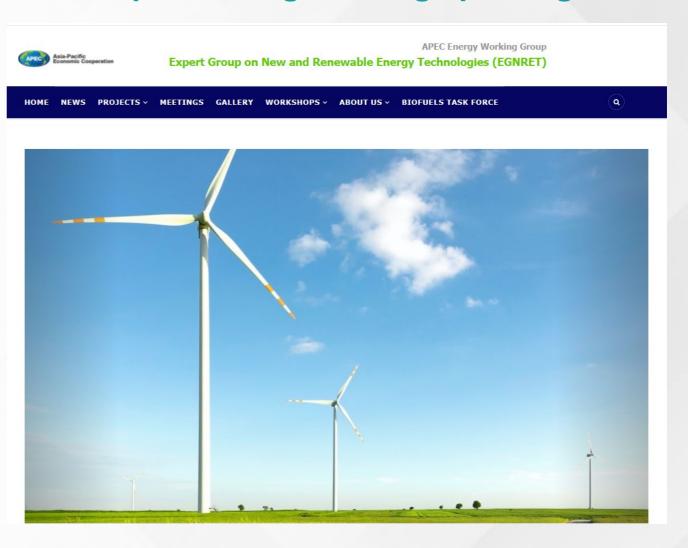


- ■EGNRET has a variety of projects for accelerating renewable energy development in the APEC region.
- ■In response to global net-zero emissions initiative, more and more new and renewable energy technologies are emerging. For example, hydrogen energy is an important topic for future collaboration.
- ■EGNRET would like to seek more opportunities for further cooperation with EGCFE.
- ■Joint meeting by EGCFE and EGNRET is proposed for further interaction and discussion.



Thank You For Your Attention!

EGNRET website http://www.egnret.ewg.apec.org/





Concept Note (1)

| | Project Title | Proposed Economy |
|---|--|---------------------|
| 1 | Promoting Digital Solar Resource Maps and Management Technologies in Advancing Renewables Growth in APEC | Hong Kong, China |

Project Proposal (1)

| | Proposed |
|--|--------------|
| Project Title | |
| Matured Impact Metrics Modelling for Mini-Grid Projects (MII APEC region | MG) in Korea |



Ongoing Projects (12)

| Project Number | Project Title | Proposed Economy |
|-------------------|--|---------------------|
| EWG 13 2021A | The Legislation Recommendation and Promotion of Multifunctional Ocean Space Usage: Feasibility Analysis of Integrating Floating PV Installations at Offshore Wind Farms in the APEC Region | Chinese Taipei |
| EWG 14 2021A | Empowering Indigenous Social Awareness on Renewable Energy and Increasing Inclusion Sustainability for Green Recovery in APEC Regions | Chinese Taipei |
| EWG 15 2021A | Best Practices on the Energy Storage System in E-scooters Developments and Applications in the APEC Region | Chinese Taipei |
| EWG 10 2021A | Achieving Carbon Neutrality through Bio-Circular-Green Economy Principle | Thailand |



| Project Number | Project Title | Proposed Economy |
|-------------------|--|---------------------|
| EWG 12 2021A | APEC Workshop Furthering University Collaboration with Policymakers, APSEC, and APERC on Data Gathering and Analysis in Energy Efficiency, Renewable Energy, and Energy Resiliency | USA |
| EWG 07 2021A | Impacts of COVID-19 on renewable energy development in APEC Economies | China |
| EWG 06 2021A | Support offshore wind deployment and grid connection in APEC region | China |
| EWG 04 2021A | Lessons learned on resiliency and uptake of variable energy resources from islanded grids that support APEC clean energy goals | USA |



| Project Number | Project Title | Proposed Economy |
|----------------|--|---------------------|
| EWG 10 2020A | Utilizing Renewable Energy Certification to Facilitate APEC Regional Renewable Energy Growth | Chinese Taipei |
| EWG 14 2020A | The Promotion of Community Waste-to-energy System | Chinese Taipei |
| EWG 03 2020A | Integrating Electrical Vehicles and Solar Rooftop PV in Electricity Distribution Systems with Continued Performance of Distribution Transformers | Thailand |
| EWG 08 2020A | APEC Workshop on Promoting Renewable Energy for Rural and Remote Area Development | Viet Nam |



Completed Projects (3)

| Project Number | Project Title | Proposed Economy |
|----------------|---|---------------------|
| EWG 10 2019A | APEC Workshop on Strategies and Successful Case Studies on Solar Energy | Viet Nam |
| EWG 04 2020A | The APEC Workshop on Community Based Waste to Energy Management | Indonesia |
| EWG 03 2021S | APEC Clean Energy Purchasing and Decarbonization Workshop | USA |