

APEC Expert Group on  
New and Renewable Energy Technologies



Asia-Pacific  
Economic Cooperation

**EGNRET**

# EGNRET Updates

**EGNRET Chair**

**Dr. Chi-Wen Liao**

**EGNRET 64 Meeting**

**Hosted by Thailand**

**April 1, 2026**



**Asia-Pacific  
Economic Cooperation**

# Outline

- 1. EGNRET 63 Meeting**
- 2. EWG 71 Meeting**
- 3. EGNRET Project Updates**
- 4. Next EGNRET Meetings**

# EGNRET & EGEEEC Joint Meeting

- Host Economy: Korea
- Date: November 19-20, 2025
- Location: Seoul, Korea
- Format: Physical Meeting



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Participating  
Economies

Canada; China; Hong Kong, China; Japan; Republic of Korea; Malaysia; The Philippines; The Russian Federation; Chinese Taipei; Thailand, and Viet Nam

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APEC Fora

APEC Secretariat, EWG, EGEDA, EGCFE, APERC

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Non-APEC  
Organizations

IEA, CLASP, Energy Efficiency Hub

# EGNRET 63 Meeting

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**APEC Fora**

**APEC Secretariat; EWG Secretariat; APERC**

# EGNRET 63 Meeting

## Highlight

### Discussion of meeting theme “AI-Driven Energy Innovation”

- ✓ **Thailand** encouraged stronger **AI integration in renewable energy and energy efficiency**, proposing **funding support and capacity-building** while inviting more **AI-related APEC project proposals**.
- ✓ **Russia** highlighted progress under its **AI Strategy 2030**, with **60% of energy companies already adopting AI**, expected to reach **70% by 2027**.
- ✓ **Chinese Taipei** outlined challenges including **data protection, model transparency, data center energy demand, and regulatory issues**, while emphasizing **AMI deployment for renewable integration**.
- ✓ **China and Thailand** highlighted practical AI applications in **electricity markets, climate risk prediction, renewable site planning, and predictive maintenance**, and called for **supportive regulatory frameworks**.

# EGNRET 63 Meeting



## Project Update Sharing:

Economy	Project Title	Progress
Canada	Roadmapping Hydrogen Codes and Standards	Implementation
Japan	Capacity Building Workshop for the New and Renewable Energy Policy	Implementation
Russia	APEC Workshop on Promoting Just Energy Transition	Concept Note
Chinese Taipei	Benchmark of Facilitated Actions to Fulfill the Energy Efficiency Benefit of AMI in the APEC Region	Implementation
	Clean & Low-carbon Biohydrogen Building the Green Transition Pathway toward a Sustainable Tomorrow	Concept Note
Thailand	Enhancing Climate Change Adaptability and Resilience of Energy Infrastructure toward Carbon Neutrality Using Renewable Energy Scheme	Implementation
	Promotion and Development of Biogas Technology and Biogas Inventory in the Livestock Farm among APEC Economies	Implementation

# EWG 71 Meeting

## EWG 71

- Host Economy: China
- Meeting Dates: **March 18 to 19, 2026**
- Meeting Location: **Nanchang, China**



EGNRET Chair reported EGNRET 63 Meeting outcomes and updates.



EGNRET Vice Chair reported PGH updates and progress.

# Project Updates

## ■ Update as of March, 2026

Status	Projects
Concept Note	4
Project Proposal	0
Project in Implementation	21
Completion since EWG 71	0

# Project Updates (as of March, 2026 )



## ■ 2026 PS1 Concept Note (4)

Economy	Project Title	Project Session	Status
<b>China</b>	Research on Policy and Planning Considerations for Integrating Small Modular Reactors (SMRs) with Renewable Energy	PS 1	Awaiting endorsement
<b>Japan</b>	Capacity Building Workshop for New and Renewable Energy Policy Phase 2	PS 1	Awaiting endorsement
<b>Russia</b>	APEC Workshop on Promoting Just Energy Transition	PS 1	Awaiting endorsement
<b>Viet Nam</b>	Transforming Rural Energy Access in APEC Economies through Scalable and Community-Driven Micro-Hydropower Optimization Frameworks	PS 1	Awaiting endorsement

# Project Updates (as of March, 2026 )

## Projects In Implementation-1 (21):

Economy	Project No.	Project Title
<b>Canada</b>	EWG_209_2025A	Roadmapping Hydrogen Codes and Standards: Lessons Learned from Canada's Roadmap Process
<b>Chile</b>	EWG_105_2024A	Certification of Hydrogen and its Derivatives in APEC Economies: its role in driving the market
	EWG_106_2024A	Floating Offshore Wind Farms development in APEC economies for both electricity and green hydrogen production
	EWG_105_2025A	Local demand as an enabler to a low-carbon hydrogen economy
<b>China</b>	EWG_106_2025A	Sustainable and Resilient Communities: A Guide to Off-Grid Multi-energy Complementary Microgrids Toolkit
	EWG_02_2025S (Self-Funded)	Research and Capacity Building on Construction New-type Power System in APEC
	EWG_204_2025A	APEC Research and Workshop Program on Integrating Renewable Energy and Hydrogen Technologies for Low-Carbon Transitions
	EWG_205_2025A	APEC Study on How Zero-carbon Industrial Parks Help With Energy Transition and Carbon Reduction in APEC Economies
<b>Malaysia</b>	EWG_201_2024A	APEC Symposium on Energy Transition: Batteries, Fuel Cells, and Electric Vehicles
	EWG_202_2025A	AI-driven Renewable Energy Optimization for Sustainability and Resilience

# Project Updates (as of March, 2026 )

## Projects In Implementation-2 (21):

Economy	Project No.	Project Title
<b>Chinese Taipei</b>	EWG_103_2024A	Benchmark of Facilitated Actions to Fulfill the Energy Efficiency Benefit of AMI in the APEC Region
	EWG_201_2025A	2026 APEC ESCI Awards and Workshop on Promoting Good Practices and Recognizing Excellence in Energy Solutions
<b>Thailand</b>	EWG_207_2024A	Enhancing Climate Change Adaptability and Resilience of Energy Infrastructure toward Carbon Neutrality Using Renewable Energy Scheme
	EWG_208_2024A	Promotion and Development of Biogas Technology and Biogas Inventory in the Livestock Farm among APEC Economies
	PPSTI_103_2025A	Capacity Building to Accelerate Investment on Energy Resilient Infrastructure towards APEC Energy Goals
<b>United States</b>	EWG_101_2024A	APEC Workshop on Pathways for a Just Energy Transition
<b>Japan</b>	EWG_104_2025A	Capacity Building Workshop for New and Renewable Energy Policy
	EWG_203_2025A	APEC Clean and Low-Carbon Hydrogen (CLCH) Policy Network

# Project Updates (as of March, 2026 )

## Projects In Implementation-3 (21):

Economy	Project No.	Project Title
Viet Nam	EWG_102_2025A	APEC Workshop on Improving Governance and Policy Environment for Sustainable Energy Transition
	EWG_103_2025A	APEC Workshop on Promoting the Application of Artificial Intelligence (AI) for Future Energy and Sustainable Development
	EWG_207_2025A	APEC Workshop on Sharing Good Practices in Regulatory Settings on Low Carbon Hydrogen

# Collaboration with APEC Fora

## EGNRET Forum associated with the EGNRET63 Meeting

This forum aimed to bring together **APEC economies, fora, and international organizations such as IEA, IRENA** to explore AI applications in the renewable energy sector.

- **Organizers:** EGNRET
- **Date:** November 17, 2025
- **Location:** Seoul, Korea
- **Topic:** AI-Powered Renewable Energy Innovation
- **Outcome:**
  - ✓ **IEA** noted rising electricity demand from AI data centers, while AI improves renewable forecasting, grid optimization, and clean energy innovation.
  - ✓ **IRENA, ITRI and KEPCO** presented AI applications including predictive maintenance, VPPs, grid optimization, and AI metering solutions (LossPro).
  - ✓ **APERC** stressed the role of regional knowledge sharing and analysis in advancing AI-driven energy transition across APEC economies.
  - ✓ **Chinese Taipei and Thailand** shared experiences on AI for offshore wind, smart grids, energy security, and regulatory sandboxes.



*EGNRET Forum associated with the EGNRET 63 Meeting*

# Next EGNRET Meetings

## EGNRET 65 Meeting

Host Economy: **TBC**

Date: **TBC**

Next Chair and Vice Chair Selection  
(2027-2028Term)

**Welcome members to host the EGNRET 65 Meeting. Members are encouraged to provide suggestions for the Meeting Theme.**



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**EGNRET**

**Thank  
You  
For Your  
Attention!**

**EGNRET website**  
<http://www.egnret.ewg.apec.org/>



**MEETINGS**



NOV 19, 2025  
EGNRET 63 Meeting



APR 10, 2025  
EGNRET 62 Meeting



Jan 16-17, 2025  
EGNRET 61 Meeting