

# Progress Report on the Expert Group on Energy Efficiency and Conservation (EGEEEC)

1 April 2026

# EGEEC engagement in EWG activities

**Capacity Building Workshop on Energy Efficiency and Conservation Policy (CBWS/EECP)**

**APEC Workshop on Policies, Standards, and Best Practices for Energy-Efficient Electric Fans (EWG\_206\_2024A)**

**Off-grid complementary Microgrid Solution: build sustainable and resilient energy system (EWG 106 2025A)**

**Multi-Energy**





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# EGEEEC65 and EGNERT63 joint meeting

**Date/Location: November 19-20, 2025 | Seoul, Republic of Korea**

**Theme: "AI-Driven Energy Innovation"**

**Participation: 11 Economies, 4 APEC Fora, 3 International Organizations (IEA, CLASP, EE Hub)**





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# EGEEEC65 and EGNERT63 joint meeting

## Participating Economies and Organisations

### **Economies (9):**

China, Hong Kong China, Japan .....

### **Cross-fora(3):**

EWG, EGEDA, APERC

### **Non-APEC Organisation (3):**

Collaborative Labeling and Appliance Standards Program (CLASP)

Video (2): IEA, Energy Efficiency Hub (EE Hub)



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# EGEEEC65 and EGNERT63 joint meeting

## Presentations

### **Cross-fora updates (4):**

- APEC Secretariat, EWG, EGEDA, EGCFE, APERC

### **Invited presentations (4):**

- Collaborative Labeling and Appliance Standards Program (CLASP)
- Energy efficiency Hub (EE Hub), IEA
- APERC

### **Projects updates and Concept Note Presentations (2):**

- Projects updates (3), New concept note(1)

# Strategic Engagement & Collaborations

**IEA: share the Global energy efficiency trends and cooling demand growth.**

**CLASP: Appliance efficiency can bridge 20% of the Net Zero energy gap.**

**Energy Efficiency Hub (EE Hub): Updates on Digitalization and Buildings task groups.**

**Partnership Updates: CLASP officially accepted as a Guest Member;  
EE Hub invited to apply for Guest Status.**



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# Presentation: CLASP

- CLASP emphasizes that appliances and equipment account for 36% of global final energy consumption and are responsible for a significant portion of energy-related CO2 emissions. To achieve the doubling the global average annual rate of energy efficiency improvements by 2030. the report indicates that appliance energy efficiency can bridge 20% of the energy gap required to reach Net Zero emissions.

EGEEEC Members are encouraged to explore cooperation opportunities with CLASP on improving energy efficiency of appliances and equipment and reduce emissions through knowledge sharing and APEC Project collaboration.





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# Presentation: APERC

## • Preview of the 9th APEC Energy Outlook on Data Centre Electricity Demand

- Data centres are essential to powering the digital economy
  - Strong growth in electricity consumption in APEC economy
  - Data centres drive significant electricity demand growth in most APEC subregions
  - Data centre energy demand varies across economies
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- Opportunities: Data centres and AI expansion driving economic and energy innovation.
  - Challenges: Uncertainties remain in long-term energy Planning
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- **Economies may prioritize fast and reliable power to secure competitiveness, even as they face sustainability and system-reliability challenges.**
  - **Collaboration among governments and industry is essential to manage grid bottlenecks, scale clean energy, and secure sustainable data centre growth**




# Presentation IEA

## IEA Energy Efficiency 2025 Progress Report

Category	Key Insights	2025 Progress & Policy Action
<b>COP28 Target</b>	<b>Goal:</b> Double the average annual energy efficiency improvement rate to <b>4%</b> by 2030.	<b>Urgent Need:</b> Global efforts must accelerate, or the target will be missed.
<b>Global Status (2019-2025)</b>	<b>Progress Stalled:</b> The average annual rate of primary energy intensity improvement is only <b>1.3%</b> , <b>far below</b> the 4% target.	<b>Impediments:</b> <ol style="list-style-type: none"> <li>1. Soaring industrial demand.</li> <li>2. Energy efficiency standards lagging behind technology.</li> <li>3. Electricity demand outpacing renewables supply.</li> <li>4. Surge in cooling demand (ACs).</li> </ol>
<b>2025 Highlights</b>	<b>Uptick Expected:</b> The estimated improvement rate for 2025 is <b>1.8%</b> (up from 1% in 2024).	<b>Policy Acceleration:</b> Economies covering over 85% of global energy demand implemented new efficiency policies.

**While energy efficiency shows signs of an uptick, progress remains in "low gear" (1.3%); policymakers must act immediately to raise standards and fill policy gaps to meet the 4% doubling target by 2030.**



**Renee Stephens**  
Energy Efficiency Policy Analyst, IEA

**Examples of new or updated policies implemented in 2025**

1. **Australia** increased funding for the Clean Energy Finance Corporation by 1.25 billion US dollars, enhancing support for clean energy, electrification and efficiency projects
2. **The People's Republic of China** released an action plan for promoting efficient heat pumps and announced the development of zero-carbon industrial parks
3. **The Republic of Korea and Malaysia** promoted electric vehicles using financial incentives such as grants and rebates
4. **Viet Nam** amended its Energy Efficiency and Conservation law, increasing responsibilities for designated key energy users and expanding energy labelling

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# Presentation EE Hub: Energy Efficiency Hub

Introduce the Energy Efficiency Hub mission, member and the four task groups(DWG, SEAD, TOP -TENs,EEB).

Introduce the latest work and of TGs:

1. Digitalisation Working Group (DWG) - lead by China
2. Super-Efficiency Equipment & Appliance Deployment Initiative (SEAD) - lead by UK
3. Top Ten Energy Efficiency Best Available Technologies and Practices (TOP-TENS) - lead by China
4. Energy Efficiency in Buildings (EEB) - lead by EU and German

**EE Hub will be invited to be guest member of EGEEEC**



# Project Portfolio Overview

**Total Projects: 13 projects across different lifecycle stages.**

**Current Status: Ongoing (APEC Funded): 3 major projects (Fans, Policy Capacity Building, Manufacturing).**

**Completed: Final reports undergoing endorsement.**

**Proposed: New Concept Notes submitted for Session 1, 2026.**

#	Project Title	Project Number	Proposed Economy
1	Electric Fans Energy Efficiency Improvement in APEC Region: Review of Experience and Best Practices	EWG_206_2024A	Chinese Taipei
2	APEC Workshop on Cleaner and More Efficient Operation of the Fossil Energy Industry	EWG_202_2024A	Japan
3	Capacity Building Workshop for Energy Efficiency and Conservation Policy	EWG_205_2024A	Japan
4	APEC Practical Training on District Cooling and Heating Systems (DCHS)	EWG 101 2025A	Hong Kong, China
5	APEC Workshop on Promoting the Application of Artificial Intelligence (AI) for Future Energy and Sustainable Development	EWG 103 2025A	Viet Nam
6	Reaction to COVID-19: Strengthening Quality Infrastructure for Energy Efficiency of Lighting Products in Residential in the APEC region (First Follow-Up Workshop)	SMEWG 101 2025A	Viet Nam



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# Project update

- **EWG 206 2024A-Electric Fans Energy Efficiency Improvement in APEC Region: Review of Experience and Best Practices**
  - main objective of the project is to investigate strategies for increasing the market share of high-efficiency electric fans by examine current energy-saving technologies and share best practices to APEC members.
- One day workshop in 17 Nov.
  - **38** attendees from **11+1** economies and **5** APEC fora
  - **8** experts from **4+1** economies and **2** international Org

 The 65<sup>th</sup> Meeting of the APEC Expert Group on Energy Efficiency and Conservation (EGEEEC 65)  
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**Project Update (EWG\_206\_2024A)**

**Electric Fans Energy Efficiency Improvement in APEC Region: Review of Experience and Best Practices**

Proposing economies: Chinese Taipei  
Co-sponsoring economies: Japan, Korea, Thailand, Viet Nam

November 19, 2025  
Seoul, Korea

# Project update

- **EWG 205 2024A-Capacity Building Workshop for Energy Efficiency and Conservation Policy**
  - main objective of the project is to support APEC members in capacity building for energy efficiency and conservation policies as they work towards the energy transition.
- APERC share the workshop On 18 November. introduced the Workshop Highlights – MEPS Implementation, Challenges and Solutions.





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# Project update

- **EWG 102 2024A – APEC Workshop on Promoting Energy Efficiency in the Manufacturing Sector**
  - main objective of the project is to help economies and stakeholders to share information, experiences on promoting energy efficiency in manufacturing industry as well as to provide recommendations on enhancing energy efficiency in this industry
- Viet Nam shared the workshop of Promoting Energy Efficiency in the Manufacturing Sector On 19 and 20 June 2025.



## **SUMMARY REPORT**

**EWG 102 2024A – APEC Workshop on  
Promoting Energy Efficiency in the  
Manufacturing Sector**



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# New Concept Note (Session 1, 2026)

- **Promoting the Deployment of High-Efficiency Low-Carbon Room Air Conditioners (RACs) in APEC Region**
  - objective: Accelerate the deployment of high-efficiency, low-carbon RACs in the APEC region
  - output: 1\*Research Report, 2\*workshops, 1\*Guidebook
  - China propose session 1, 2026
  - 5 consponsors support

2025/11/ 20

Concept Note for session 1, 2026

**Promoting the Deployment of High-Efficiency  
Low-Carbon Room Air Conditioners (RACs) in  
APEC Region**



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**THANK YOU**