

EGEEEC 66 Outcome

**The 66th Meeting of APEC Expert Group on Energy
Efficiency & Conservation (EGEEEC 66)**

Participating Economies and Organisations

Economies (7):

China, Hong Kong China, Korea, Malaysia, Thailand, Chinese Taipei, Russia.

Cross-fora(2):

EGEDA, APERC

Non-APEC Organisation (3):

Video (3): UNEP, IEA, Energy Efficiency Hub (EE Hub)





Asia-Pacific
Economic Cooperation



Presentations

Invited presentations (3):

- Energy efficiency Hub (EE Hub), IEA, UNEP

Projects updates and Concept Note Presentations (2):

- Projects updates (3): Chinese Taipei, APERC, HongKong China
- New concept note(1): Russia
- **Chair presentation on AI energy efficiency of APEC region**
- **Members are encouraged to propose new concept note in session 2, 2026.**



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Presentation: UNEP

Accelerating Energy Efficiency in Buildings and District Energy Systems — UNEP Actions Across APEC Economies.

- outlines the action plan of the United Nations Environment Programme (UNEP) for advancing building energy efficiency and the transition of district energy systems across APEC economies. Although global energy efficiency has improved, it remains below the 4% annual improvement target set at COP28, with building energy consumption and cooling demand posing the primary challenges to emission reduction.
- highlights successful case studies implemented in China, Chile, Viet Nam, and Southeast Asia, demonstrating how district heating and cooling, alongside passive design, can drastically reduce emissions.

Accelerating Energy Efficiency in Buildings and District Energy Systems — UNEP Actions Across APEC Economies

Dr. Zhuolun Chen
Senior Advisor of Energy Efficiency & Green Finance
LEED AP, CMVP, CFA&CFA-ESG Investing

2026.4.1 APEC EGEEEC meeting, Thailand



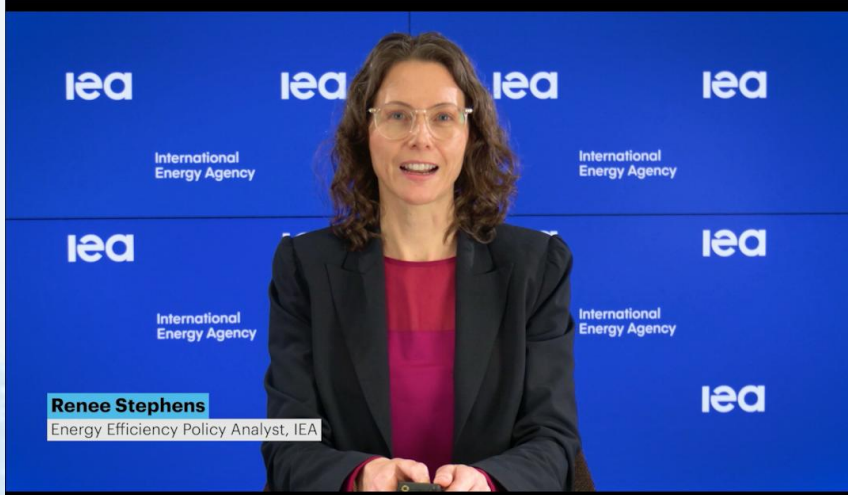
EGEEEC66

Presentation IEA

IEA Energy Efficiency Focus

outlines the latest research findings and policy recommendations from the International Energy Agency (IEA) regarding energy efficiency between 2025 and 2026.

focuses on analyzing emergency measures to address the global energy crisis and oil price volatility, emphasizing that improving energy efficiency enhances household affordability and national energy security. Data indicates that while global energy efficiency has improved, it still falls short of the targets set by COP28, and the Asia-Pacific region faces labor challenges such as an aging workforce. Furthermore, the document introduces specialized collaborative research targeting heavy-duty freight, inclusive energy transitions, and building energy conservation in Southeast Asia. Finally, by demonstrating the multiple benefits of energy efficiency, it calls on governments to strengthen policy interventions and engage in international cooperation.



Renee Stephens
Energy Efficiency Policy Analyst, IEA

Examples of new or updated policies implemented in 2025

- Australia** increased funding for the Clean Energy Finance Corporation by 1.25 billion US dollars, enhancing support for clean energy, electrification and efficiency projects
- The People's Republic of China** released an action plan for promoting efficient heat pumps and announced the development of zero-carbon industrial parks
- The Republic of Korea and Malaysia** promoted electric vehicles using financial incentives such as grants and rebates
- 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



Energy Efficiency Hub
2026 Update


Jonathan Sinton
Head of Secretariat
March-April 2026

Energy Efficiency Hub

4 MEMBER-LED TASK GROUPS

Our Task Groups

Hub Members take on issues important to them through thematic Task Groups.

 DWG Digitalisation Working Group	 EEB Energy Efficiency in Buildings
 TOP TENS Top Ten Energy Efficiency Best-Available Technologies and Practices	 SEAD Super-Efficient Equipment & Appliances Deployment Initiative

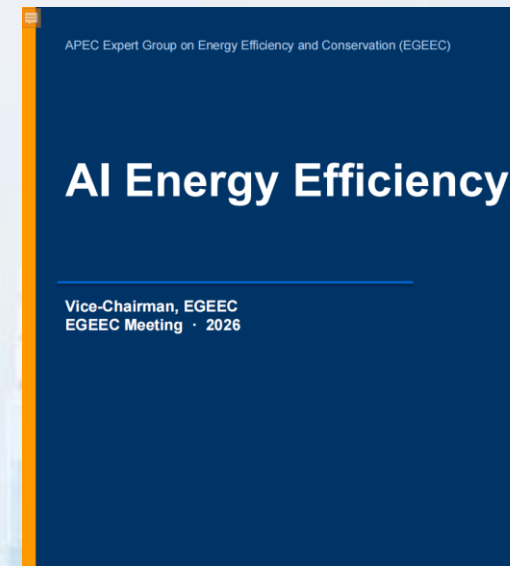
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Chair Presentation: AI Energy

Chair elaborates on the dual role of Artificial Intelligence (AI) in the field of energy efficiency: acting both as a massive energy consumer and a powerful enabler of energy savings.

- EGEEC notes that global electricity demand from data centers is projected to quadruple by 2030, reaching a scale comparable to the total electricity consumption of Japan.
- The report provides an in-depth analysis of the efficiency challenges facing AI infrastructure, highlighting practical bottlenecks.
- the Expert Group calls on economies to strike a balance between computing power growth and the green transition, ensuring that AI serves as a solution to the climate crisis rather than a burden.

EGEEC chair encourage economies to share the topic of AI energy, members will discuss this topic base on report suggestions.



Project update

EWG 205 2024A-Capacity Building Workshop for Energy Efficiency and Conservation Policy

- **Project Objective:** To assist member economies in overcoming policy formulation barriers and strengthening implementation capacities through experience exchange and technical sharing.
- **Phase 1 (Seoul, 2025):** Focused on exploring the implementation challenges and successful case studies of Minimum Energy Performance Standards (MEPS).
- **Upcoming Phase 2:** Will shift focus to energy efficiency in the building sector, aiming to drive emission reductions through smart policies.
- **Strategic Value:** Establishes a clear project timeline and underscores the critical role of cross-regional cooperation in achieving broader energy transition goals.





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Project update

EWG 101 2025A-APEC Practical Training on District Cooling and Heating Systems (DCHS)

- **Event Scale:** Brought together over 50 experts from 7 economies.
- **Core Topics:** Focused on policy frameworks, technical fundamentals, engineering design, and O&M (operation and maintenance) management.
- **Capacity Building:** Aimed to enhance expertise in land-use planning, system efficiency, and innovative technologies through the sharing of best practices.
- **Strategic Impact:** Facilitated technical exchange among members and supported carbon neutrality goals by optimizing energy utilization.

Project Sharing from Hong Kong, China

APEC Practical Training on District Cooling and Heating Systems (DCHS) (EWG 101 2025A) [EGEEEC]

Project update

- **EWG 206 2024A**-Electric Fans Energy Efficiency Improvement in APEC Region: Review of Experience and Best Practices

Shared Experiences: Details outcomes from workshops and expert collaboration, summarizing best practices in subsidy policies, joint procurement, and market regulation from economies such as China and India.

Technical & Policy Goals: Emphasizes the critical need for harmonized energy efficiency standards and the promotion of Brushless DC (BLDC) motor technology to reduce trade barriers and meet emission targets.

Strategic Recommendations: Advocates for strengthening Measurement and Verification (M&V) capabilities and full lifecycle product management to foster regional green consumption and sustainable development.



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Project Update (EWG_206_2024A)

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

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

April 1, 2026
Bangkok, Thailand

Concept Note

- **Report:** Governance policy of digitization and financing energy efficiency in the Russian Federation
Outlines Russia's national strategy for driving energy efficiency via digital and financial innovation. Key highlights include:
 - **Strategic Progress:** Emphasizes advancements in reducing GHG emissions and improving digital maturity, especially the widespread use of AI and IoT in the fuel and energy complex.
 - **Technological Impact:** Showcases significant energy-saving outcomes through practical case studies like digital twin control systems and smart lighting.
- **project proposal:** New Generation of Investments in Energy Efficiency
 - **The goal** is to develop solutions to reduce investment risks and stimulate capital investment in enhancing energy efficiency.
 - output: two workshops; report and study of approaches to investing in energy efficiency





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EGEEEC Governance Issue:

Guest membership

- EE Hub will be EGEEEC guest member

Upcoming meeting

- **2026: EGEEEC 67**
- China, will hold the 66th EGEEEC meeting in the second half of 2026. **welcome!!!**
 - ShenZhen
 - August





THANK YOU