

Updated development of APEC Energy Working Group

EWG Secretariat



March, 2019



Outline

- Recent EWG decision on Project Management
- Outreach within and beyond APEC
- EWG Strategic Plan (2019-2023)
- 2019 EWG Workplan
- APEC Energy Vision Post 2020
- APEC EWG Website
- Key Conclusion of EWG56 (partial)



Recent EWG decision on Project Management

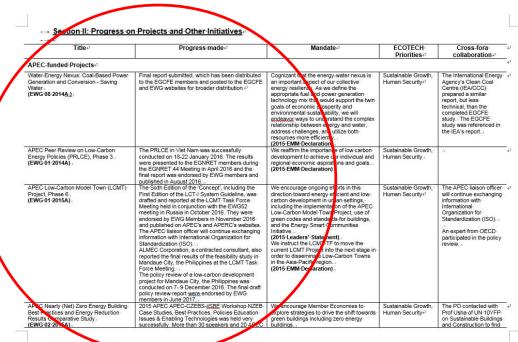
- Expert groups and task forces are requested to assist POs with familiarizing with APEC project procedures and to provide POs with technical advices for the sake of project quality.
- Members/EG Chairs are requested to present in the EWG meeting a 2
 page summary of each EWG project completed since the last EWG
 meeting, including policy recommendations/suggestions for further APEC
 consideration or action.
- All projects should closely follow the rules of submission including the cosponsorship and deadline.
- Members are requested to submit the completion report of APEC projects on time.



Outreach within and beyond APEC

- All projects are encouraged to provide high-level policy recommendations upon completion and seek greater visibility.
- Expert groups are requested to be supportive in providing detailed and sound information to demonstrate work achievements which are to be submitted to APEC senior officials, such as fora report or other surveys.
- Expert groups are encouraged to conduct cross-fora cooperation and should report to EWG for endorsement.

Fora report submitted to APEC SCE





EWG Strategic Plan 2019-2023 (1/6)

Mission

Our mission is to build the capacity of APEC members to strengthen domestic and regional energy security and lower the carbon intensity of energy supply and use across the region, facilitated by information and data exchanges, joint research and development, and open trade and investment.

Objectives

- 1. Strengthen Energy Security
- 2. Advance Clean Energy
- 3. Promote Energy Efficiency and Low-carbon Communities
- 4. Enhance Energy Resiliency and Energy Access
- 5. Facilitate Energy Trade and Investment

The EWG Strategic Plan 2019-2023 has been endorsed by SOM.



EWG Strategic Plan 2019-2023 (2/6)

Objectives 1: Strengthen Energy Security

- Conduct oil and gas security exercises that can help capacity building of emergency response mechanisms in short-term disruptions in energy supply.
- Develop oil and gas security studies to address regional energy security challenges and threats.
- Enhance the network of energy security stakeholders in the APEC region.
- Continuously assess fossil fuel resources in the APEC region and assist economies in effectively bringing those resources sustainably to market.
- Continuously enhance the quality of APEC energy statistics to ensure more accurate analysis of APEC energy security.
- Preparation of a document titled "APEC Energy Vision Post 2020 Discussion Paper".
- Explore the potential of hydrogen and nuclear energy for interested economies, adhering to nuclear safety, security, safeguards, and peaceful use.



EWG Strategic Plan 2019-2023 (3/6)

Objectives 2: Advance Clean Energy

- Develop the roadmap to double the share of renewables from 2010 levels in the APEC energy mix, including in power generation, by 2030.
- Undertake research to understand the systematic impact of fast deployment of variable renewable energy (VRE) on power systems and analyze the benefits and cost of enhancing power system flexibility and strengthening power grid connectivity.
- Engage in clean energy technology assessment and related activities to demonstrate the cost-effectiveness of clean energy applications.
- Facilitate the exchange of policies and best practices that seek to enable energy systems to become more sustainable through the adoption of new technologies, innovative regulatory frameworks and sustainable transport, as well as other initiatives to modernize the energy sector.
- Undertake analysis and research on clean fossil fuels, share best practices and address associated challenges.
- Facilitate development and deployment of clean fossil energy technologies that are adapted to the needs of APEC member economies, for example high-efficiency, low-emission (HELE) coal-fired power generation, green and intelligent refinery upgrading; carbon capture, utilization, and storage (CCUS) in fossil energy utilization for both power generation and industrial uses; and regional synergy on transportation fuel standards.
- Exchange best practices on enhancing the efficiency of and lowering emissions from coalfired power plants.
- Facilitate the exchange of best policies, practices and tools in the area of clean energy financing.



EWG Strategic Plan 2019-2023 (4/6)

Objectives 3: Promote Energy Efficiency and Low-carbon Communities

- Facilitate the exchange of energy smart and low carbon policies, practices and tools among APEC member economies to promote the development of energy smart and low carbon communities across the region and to achieve progress towards the goal of reducing APEC's aggregate energy intensity by 45 percent from 2005 levels by 2035.
- Support the development and commercialization of energy efficient technologies in the areas of power generation and distribution, industry, transport, buildings and appliances.
- Strengthen the reliability, adaptability and interoperability of electric grids in the APEC region, as well as international interconnections.
- Develop the inclusion of human resource base and energy consumers within APEC member economies to improve their analytical, technical, operational, and policy capacity in the area of energy efficiency and overall energy literacy.



EWG Strategic Plan 2019-2023 (5/6)

Objectives 4: Enhance Energy Resiliency and Energy Access

- Encourage the removal of inefficient fossil fuel subsidies that promote wasteful consumption while recognizing the importance of providing those in need with essential energy services.
- Exchange best practices on integrated resource and resilience planning to prepare for natural or man-made disasters.
- Undertake research and demonstration on energy infrastructure resilience to withstand extreme weather or man-made disasters.
- Support development and, as applicable, the adoption of technologies to enable flexible operation and improve reliability of coal-fired power plants to strengthen electrical grids with greater intermittent generation.
- Undertake research and demonstration to understand the water-energy nexus, share best practices and address associated challenges.
- Accelerate best practice sharing and capacity building on the improvement of affordable, reliable and resilient energy access, as well as the quality of supply.
- Capacity building on a gender-inclusive energy workforce resilience that are capable of responding to emergency situations and swift changes in the energy market.
- Encourage the exploration of diversified and clean energy access solutions through capacity building, technical exchanges and project cooperation.



EWG Strategic Plan 2019-2023 (6/6)

Objectives 5: Facilitate Energy Trade and Investment

- Identify significant barriers to energy trade and investment in the APEC region by seeking the business community's input on priority trade and investment barriers in the energy sector.
- Conduct research to address challenges and opportunities to intra-APEC energy trade and investment.
- Promote accessibility and transparency in the formulation and administration of energy sector investment-related policies.
- Enhance consistency of policies affecting energy trade and investment across the APEC region, including supporting a diversified, flexible and integrated natural gas market in the Asia Pacific region.



2019 EWG Workplan

2019 Theme: Connecting People, Building the Future

Expected Outcomes/Deliverables for 2019

- Energy Security
- Renewable Energy
- Energy Efficiency
- Clean Fossil Fuels
- Low-Carbon Towns
- Sustainable Energy technology
- Energy Resilience
- Cross-cutting Issues

- Oil and Gas Security Initiative (OGSI)
- Peer Review on Low Carbon Energy Policies (PRLCE)
- ◆ Energy Smart Communities Initiative (ESCI) and Knowledge Sharing Platform (KSP)
- ◆ Low Carbon Model Towns (LCMT)
- Peer Reviews of Inefficient Fossil Fuel Subsidies
- Clean Coal Technologies
- Green Energy Finance
- Peer Reviews on Energy Efficiency (PREE)
- Grid Integration of Renewable Energy
- Improved Efficiency and Quality of Electric Grids
- ◆ Collaboration to the EPWG, PPSTI, AD, TPTWG,

The 2019 EWG Workplan has been endorsed by SOM.



APEC Energy Vision Post 2020

- The Bogor Goals are drawing to a conclusion in 2020. APEC Senior officials turning their attention to consideration of a new APEC Vision Post 2020.
- The issue was raised in EWG51 by Australia.
- APEC Energy Vision Post 2020 Discussion Paper
 - developed in cooperation with APERC, APSEC, EGCFE, EGEDA, EGEE&C,
 EGNRET
 - Challenges and New Opportunities from the views of each Centers/EGs
 - The scope including: Energy Security, Energy Resiliency, Energy Access,
 Energy System Transition

The exchange and discussion on APEC Energy Vision Post 2020 through emails should be continued by EWG57.



APEC EWG Website



https://www.ewg.apec.org/



Key Conclusion of EWG56 (partial)

Expert groups are requested to discuss the Energy
 Modernization paper provided by Chile within EGs meeting
 and to report their discussion and conclusion in EWG57.

EGEE&C

- report APEC Zero Energy Building Initiative in the appropriate EWG meeting, and if member endorse, this initiative could report to higher level
- study reasons of different performances within APEC region and to disseminate the knowledge

EGNRET

- seek opportunities of cooperation with IRENA for seeking synergy in the aspect of the Renewable Energy Doubling Goal
- collect the renewable data of all the members and report to EWG to see if there is any difficulty on data collection



Your comments are welcome!

APEC Energy Working Group Secretariat

ewg.secretariat@tier.org.tw

Tel: 886-2-25865000 ext.837