



**Asia-Pacific
Economic Cooperation**

2017/EWG54/014
Agenda Item: 11a

Report of EGEE&C

Purpose: Information
Submitted by: EGEE&C



54th Energy Working Group Meeting
Wellington, New Zealand
22-23 November 2017

REPORT OF APEC EGEE&C FOR APEC EWG 54

Chair of EGEE&C: Li Pengcheng
China National Institute of Standardization
2017-11-22

MANDATES OF APEC EGEE&C

- Enhance cooperation to achieve APEC's aspirational goal of reducing energy intensity of the APEC economies by at least 45% by 2035, using 2005 as a base year;
- Advance the application of demonstrated energy-efficiency practices and technologies in appropriate regional end-use sectors (residential, commercial, industrial, agricultural, transportation, etc);
- Assist in developing and enhancing trade in energy-efficiency products and services between APEC member economies;
- Contribute to international efforts to reduce the adverse impacts of energy production and consumption upon our global environment; and
- Improve the analytical, technical, operational and policy capacity for energy efficiency and conservation within member economies.



GOVERNANCE AND MEETINGS

- Mr. Li Pengcheng (PRC) from China National Institute of Standardization is the Chair of EGEEEC
- Mr. Liu Ren (PRC) from China National Institute of Standardization provides secretariat support to the EGEEEC
- 6 economies participated in the 50th Meeting of the APEC Expert Group on Energy Efficiency & Conservation (EGEE&C 50) held on October 6–7, 2017 in Moscow, Russia.

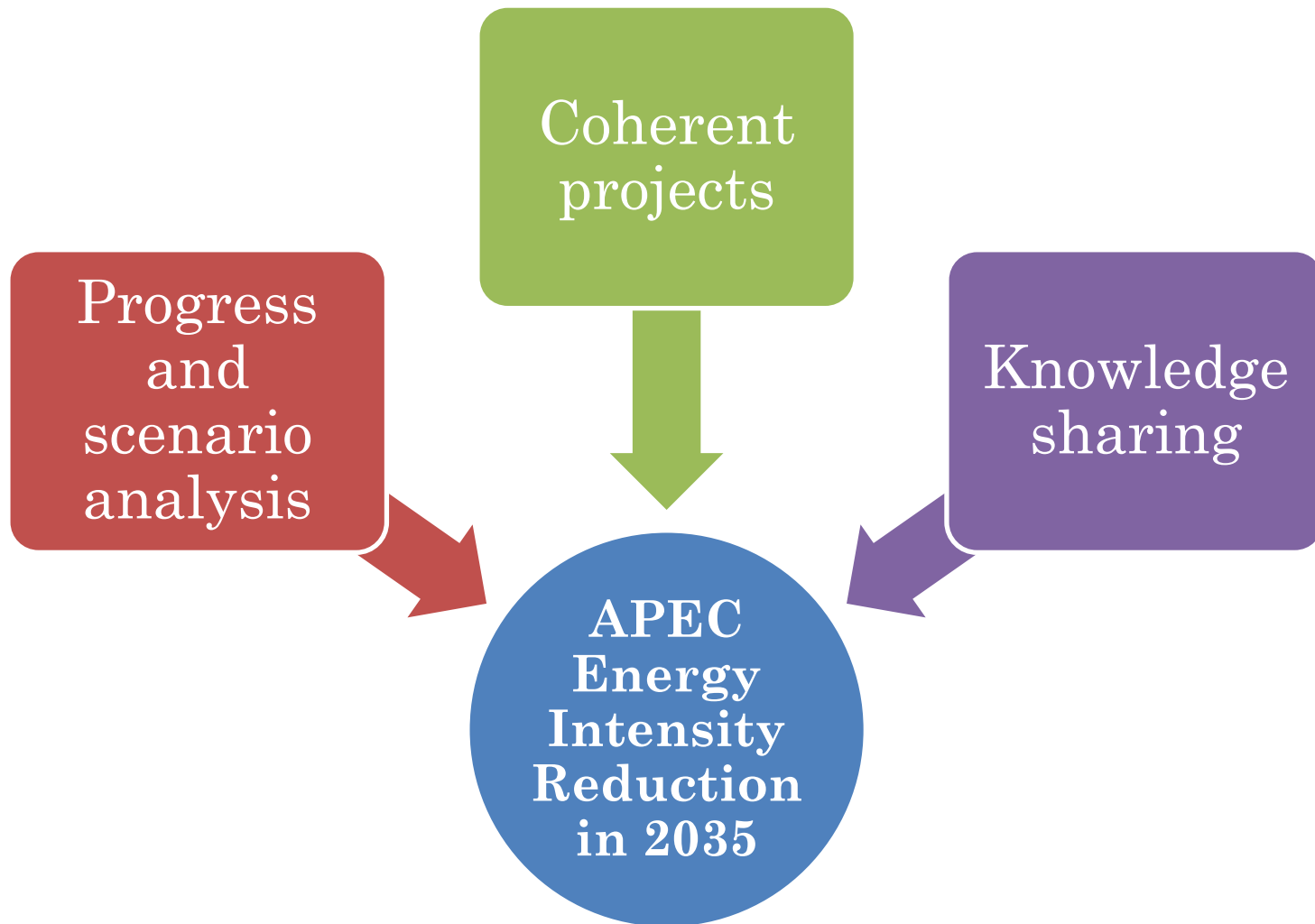


PARTNERS

- APERC is currently involved in the APEC's Peer Review on Energy Efficiency (**PREE**) and **Compendium** to share information on EE policies and performance of APEC economies.
- CLASP works as the Secretariat of **APEC-ESIS**, which provides up-to-date information about energy efficiency standards and labeling that apply to products in the APEC region.
- ICA focuses on the areas of equipment and appliance energy efficiency, electricity infrastructure efficiency. ICA proposes an **APEC-ICA Energy Facility** for structured cooperation in the field of energy efficiency and renewable energy



STRATEGIES



TREND OF APEC ENERGY INTENSITY

- Monitored by APERC continuously
 - Final energy consumption intensity (ex. non-energy) has been improving reasonably consistently with the largest reduction from 2014 to 2015.
 - Final energy consumption intensity (ex. non-energy) fell 17.6% between 2005 and 2015 (only 15.1% to 2014, at the last update in November 2016).
 - If the current trend continues, final energy consumption intensity (ex. non-energy) reduction would fall just short of the APEC goal, reaching 44% in 2035 (the APEC goal would be reached the following year).



MAPPING ANALYSIS OF PROJECTS RELATED TO ENERGY EFFICIENCY AND CONSERVATION

Appliances and equipment

Harmonization of S&L

Enforcement of S&L (MV&E, testing capacity)

Market transformation of EE products

Industry

Energy management system (ISO 50001+M&V)

Building

Commercial building (lighting)

Nearly Zero Energy Building

Transportation

Label of vehicles

Low-Emission Development Strategies (LEDS)

Cross-cutting issues

Policy and program evaluation (PREE)

Financing (Private and public funding, ESCos)

District energy system (Supply + demand)

Capacity building

9 ONGOING PROJECTS (1)

- EWG-04- 2015A Enhancing Regional Capacity to Ensure Successful ISO 50001 Outcomes (US)
- EWG-01- 2016A Gaps Assessment on APEC Energy Efficiency and Conservation Work Toward Fulfilling the Leaders' Energy Intensity Reduction Goal (US)
- EWG-05- 2016A Reducing Losses in Power Distribution through Improved Efficiency of Distribution Transformers (China)
- EWG-08-2016A Workshop to Develop Qualified Product Lists for High-Quality and High-Efficiency Commercial, Industrial, and Outdoor Lighting Products and Control Systems in the APEC Region (US)



9 ONGOING PROJECTS (2)

- EWG-10-2016A APEC Peer Review on Energy Efficiency (PREE) Phase 6 (Japan)
- EWG-15-2016A APEC Nearly (Net) Zero Energy Building Roadmap Study responding to COP21 (China)
- EWG-14-2016A Incubator for Enhancing Commercial Buildings Energy Performance (Australia)
- EWG-19-2016A APEC Workshop on Promoting the Development of an Evaluation Community (US)
- EWG-07-2017A Refrigerator/Freezer Energy Efficiency Improvement in APEC Region: Review of Experience and Best Practices (Chinese Taipei)





RELEVANT PROJECTS IN OTHER FORA

- Best Practices Sharing and Technical Capacity Building for Measurement and Verification Standards of Energy Savings (CTI 17 2016A) under **SCSC**
- Capacity-Building and Awareness Project on Enhancement of Total Environmental Efficiency (Energy/Carbon and Material Efficiency) through MFCA, ISO 14051 (CTI-18-2015A) under **SCSC**
- APEC Workshop on Enhancing Policy Environment to Promote SMEs' Participation in Energy Efficiency Products Market14051 (SME 04 2016A) under **SMEWG**
- Textbook Development for Energy Efficiency, Energy Security and Energy Resiliency: A Cross-border Education Cooperation through Lesson Study (HRD 03 2015A) under **HRDWG**



NEW PROJECTS – 5 CNS

- Appliances and equipment
 - Aligning Conformity Assessment Efforts for Energy Efficiency Regulations of Motors in the APEC and ASEAN Regions (US)
 - APEC Distribution Transformers Losses Reduction Project (Thailand)
- Building
 - Coordinating Standards for Cool Roof Testing and Performance (US)
- Cross-cutting issues
 - APEC Peer Review on Energy Efficiency (PREE) Phase 8 (Japan)
 - Creation of Atlas of remote areas and islands of APEC economies for sustainable energy development (Russia) – not only covering energy efficiency issue



COORDINATION WITH IPEEC

- A series of teleconference calls were organized between APEC EGEE&C Chair and IPEEC contact person for exchanging information and collaborative activities
 - IPEEC Energy Efficiency Finance Task Group (EEFTG) and APEC Green Energy Finance Initiative
 - IPEEC District Energy System taskforce and possible APEC workshop



APEC ENERGY INTENSITY GOAL

“If the current trend continues, final energy consumption intensity would reach 44% in 2035 ”

- APEC should take action for 1% more energy intensity reduction before 2035
 - Coherent programs/projects
 - Joint efforts of economies
 - Public-private collaboration



GOVERNANCE ISSUES

- We are seeking the successive chair of APEC EGEE&C before the end of 2018. The arrangement of Co-Chair and Co-Secretary to work with China is helpful for a smooth transition.
- The 51th EGEE&C meeting is expected to be held in March/April, 2018. The good option is joint meeting with EGNRET
- Workshops alongside the 51th EGEE&C meeting
 - PREE EEP workshop
 - Refrigerator/Freezer Energy Efficiency Improvement workshop
 - Improved Efficiency of Distribution Transformers workshop



**THANK YOU FOR YOUR
ATTENTION!**

