

UPDATE OF APEC EGEE&C

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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

- 9 economies participated in the 51th Meeting of the APEC Expert Group on Energy Efficiency & Conservation (EGEE&C 51) held on April 8–13, 2018 in Washington DC, USA.
- 3 workshops were organized in the margin of EGEE&C 51
 - Workshop on Case Studies of Refrigerators/Freezers Design and Implementation under Energy Efficiency Regulation
 - APEC Energy Efficiency Policy (EEP) Workshop for Conformity Assessment Approaches
 - NARUC workshop for Designing, Implementing and Evaluating Energy Efficiency Programs





Asia-Pacific
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APEC Expert Group on Energy Efficiency and Conservation (EGEE&C)
Under the APEC Energy Working Group



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

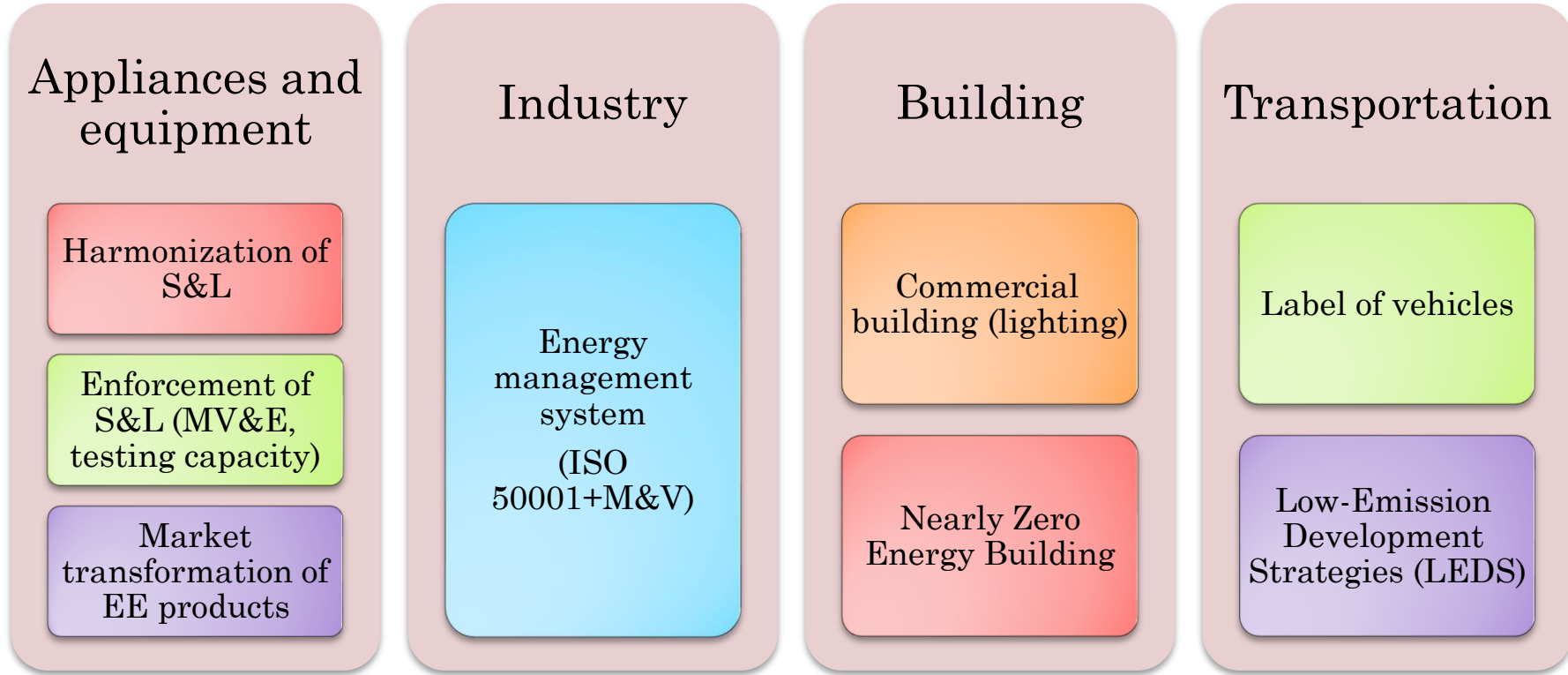




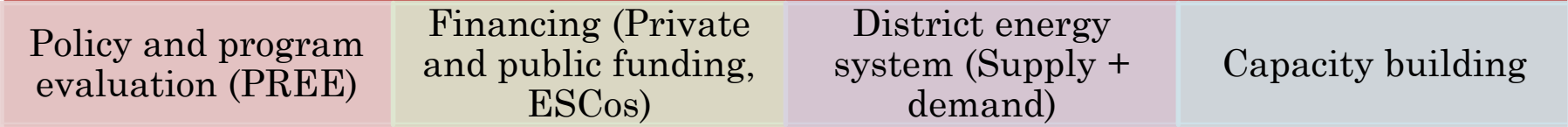
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PORTFOLIO OF PROJECTS RELATED TO ENERGY EFFICIENCY AND CONSERVATION



Cross-cutting issues





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10 ONGOING OR RECENTLY COMPLETED 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) - Completed
- EWG-05- 2016A Reducing Losses in Power Distribution through Improved Efficiency of Distribution Transformers (China) - Completed
- 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) - Completed
- EWG-10-2016A APEC Peer Review on Energy Efficiency (PREE) Phase 6 (Japan) - Completed



10 ONGOING PROJECTS (2)

- 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) - Completed
- EWG-19-2016A APEC Workshop on Promoting the Development of an Evaluation Community (US) - Completed
- EWG-07-2017A Refrigerator/Freezer Energy Efficiency Improvement in APEC Region: Review of Experience and Best Practices (Chinese Taipei)
- EWG 08 2017A APEC Peer Review on Energy Efficiency (PREE) Phase 7 (Follow-Up PREE) (Japan)



RELEVANT ONGOING OR RECENTLY COMPLETED PROJECTS IN OTHER FORA

- Textbook Development for Energy Efficiency, Energy Security and Energy Resiliency: A Cross-border Education Cooperation through Lesson Study (HRD 03 2015A) under **HRDWG** - Completed
- APEC Workshop on Enhancing Policy Environment to Promote SMEs' Participation in Energy Efficiency Products Market14051 (SME 04 2016A) under **SMEWG** - Completed
- Best Practices Sharing and Technical Capacity Building for Measurement and Verification Standards of Energy Savings (CTI 17 2016A) under **SCSC** - Completed
- Policy Dialogue on Fuel Economy Platform (PPSTI 03 2017A) under **PPSTI**



NEW PROJECTS

- Appliances and equipment
 - Aligning Conformity Assessment Efforts for Energy Efficiency Regulations of Motors in the APEC and ASEAN Regions (US) – CN stage
- Building
 - Coordinating Standards for Cool Roof Testing and Performance (US) – PP Stage
- Transportation
 - Low Emissions Development Strategies: Supporting the transition to energy efficient, electric transport systems (US) – PP Stage
- Cross-cutting issues
 - APEC Peer Review on Energy Efficiency (PREE 8) Phase 8 (Japan) – PP stage
 - APEC Best Practice Guidelines for Establishing and Enhancing Energy Efficiency Incentive (EEI) Schemes (Australia) – PP stage



APEC ENERGY INTENSITY GOAL

- According to the analysis by APERC
 - Similarly to last time, recent trend looks good...
 - If the BAU scenario achieves the intensity goal two years ahead of schedule, do we need to think about making it more ambitious?
- Can APEC region be the front-runner in continuous energy intensity reduction and robust economy growth?



GAP ASSESSMENT OF APEC EE&C WORK

- Key barriers
 - Fragmented work streams of projects
 - Loose connections with the strategy
 - Insufficient efforts in some areas
- Recommendations
 - To prioritize topics of project in a short term (3-5 years) when revising EWG strategic plan
 - To improve procedure of endorsing CNs to secure the alignment with strategy (project overseer shall present CN in the EGEE&C meeting; Experts will assess the CN to ensure the consistence with the prioritized topics and contribution to energy intensity reduction goal)
 - To enhance collaboration with relevant groups (such as joint events/projects with EGNRET) and international organizations (such as IPEEC)



APEC ENERGY STANDARD INFORMATION SYSTEM (ESIS)

- APEC ESIS provides:
 - APEC oriented online portal to the CLASP Standards & Labelling Database
 - Updates for APEC economies to the S&L Database
 - Attending EGEE&C meetings to report on status of ESIS and policies in APEC region
- All funding exhausted in October 2017
 - APEC-ESIS website is down
 - Limited ability to update policy information
 - No future reports on progress to EGEE&C
- Options
 - Shut down the website and discontinue APEC ESIS Secretariat role
 - Seek new financial and in-kind resources to maintain ESIS Secretariat responsibilities
 - Access CLASP online S&L database instead of specific entry for APEC ESIS



COORDINATION WITH IPEEC

- “International Energy Efficiency Hub” is expected to be established to take over and consolidate the IPEEC. The Hub will continue all IPEEC activities and one of the new assignment for the hub will be to facilitate the coordination of EE progress and activities among International Organizations.
- Opportunities for collaboration:
 - Green energy finance initiative and G20-IPEEC Energy Efficiency & Finance Task
 - NZEB projects and the G20-IPEEC Building Energy Efficiency Task Group
 - Energy efficiency data and IPEEC End-Use Energy Efficiency & Metrics Group
 - Appliances in particular cooling, investigated the collaborative opportunities offered by the Kigali Agreement



EVENTS

- Workshops alongside the 52th EGEE&C meeting
 - APEC workshop: Refrigerator/Freezer Energy Efficiency Improvement in APEC Regions: Review of Experience and Best Practices (September 11, 2018)
 - Side workshop: Energy Efficiency Prosperity in ASEAN (September 11-12, 2018) organized by National University of Singapore with the support of the ASEAN Committee on Science and Technology (COST)



EVENTS

- APEC EGEE&C Website
 - www.APEC.org/sitecore/egeec



APEC Expert Group on Energy Efficiency and Conservation (EGEE&C)
Under the APEC Energy Working Group

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APEC Expert Group on Energy Efficiency and Conservation (EGEE&C)

The EGEE&C promotes energy conservation and the application of energy-efficiency practices and technologies through advancing the application of demonstrated energy-efficiency practices and technologies, developing and enhancing trade between APEC Economies in products and services and energy-efficiency practices and technologies, contributing to international efforts to reduce the adverse impacts of energy production and consumption, and improving the analytical, technical, operational and policy capacity for energy efficiency and conservation within APEC Economies.

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