

USA Project update

EGEEC -54
Cebu, Philippines
September 23-25, 2019

EWG 10 2018A – Low Emissions Development (LED)

Strategies: Supporting the Transition to Energy Efficient, Electric Transport Systems (EGNRET) (EWG 10 2018A)

- The project is led by USDOE's National Renewable Energy Laboratory.
- Assessments of renewable resource potentials on islands (including those in APEC economies) consistently show their potentials are significantly larger than their utilization, and that further utilization would result in more secure, reliable and affordable electricity than that of fossil fuel-based generation.
- This project will profile 3 APEC islands and design a roadmap for how they can integrate the transport and electricity sectors in a way that creates the highest degree of sustainable development benefits.
- The three islands will get in-depth analysis of their LED strategy
 - Alternative technology development scenarios,
 - Evaluation of SDG impacts of alternative scenarios;
 - An assessment of their financial landscape and existing investment environment;
 - A policy toolkit that they can further explore and select from to achieve the goals and targets they have set.
- Status: SD Strategies (Germany) has been chosen as the project consultant. The project has received a time extension and expect to hold the project workshop in early 2020.

EWG 13 2018A – Aligning Conformity Assessment Efforts for Energy Efficiency Regulations of Motors in the APEC and ASEAN Regions

- The project is being led by Pacific Northwest National Laboratory, ICA and UL.
- The project expands a 2008 project conducted by China on motor efficiency and aims to inform the regulatory and policy environments within APEC and ASEAN of the benefits of harmonization of standards and conformity assessment approaches to facilitate trade of energy efficient electric motors and accelerate progress toward energy intensity reduction in the region.
- The project has three primary objectives:
 - Identify commonalities and differences in motor energy efficiency standards and labelling efforts in APEC and ASEAN.
 - Advance the ongoing public-private dialogue among APEC and ASEAN economies regarding ways to align motor energy efficiency requirements through the development and use of global standards such as IEC 60034 and more trade-friendly conformity assessment procedures.
 - To address and prevent unnecessary market access barriers for efficient motors, increase the availability and use of energy efficient products in markets worldwide and assist APEC and ASEAN economies meet domestic energy policy objectives.
 - Status: IIEC has been chosen as the project consultant and there will be a project workshop in the October 28-29, 2019 in Chinese Taipei.
- The project is supported by EWG 04 2019S, *Workshop on Current Energy Efficiency Requirements for Electric Motors in the APEC and ASEAN Region* which is self-funded by ICA, United for Efficiency (U4E) and UL.

EWG 14 2018A – Coordinating Standards for Cool Roof Testing and Performance

- The project is being led by the US DOE Buildings Technology Office.
- Space conditioning loads that are directly affected by the building envelope (window, walls, roof and foundation) are responsible for approximately 30% to 50% of building electricity consumption, which makes up approximately 50% of total electricity consumption in APEC economies.
- Cool roofs and walls reduce space cooling energy demands by 20% and are particularly valuable in reducing peak demand
- A number of APEC economies have adopted or are considering standards for the testing and performance requirements for reflective, “cool” surface technologies (roofs and walls).
- This project would develop a review and comparison of cool surface testing and performance standards in place or under consideration in APEC economies and provide a roadmap for establishing cool surface product testing and rating infrastructure in economies that do not have access to it.
- Status: The project has received a time extension and will be completed in 2020.

EWG 06 2019A: APEC Workshop on University Collaboration to Support Data Gathering and Analysis in Energy Efficiency and Renewable Energy

Proposing APEC economy: USA

**Co-sponsoring economies: Thailand, Philippines, Chinese
Taipei, Australia**

Expected start date: August 2019

End date: October 2020

Expected project cost(USD): 140,000 APEC (USD): 100,000 ASF/EE

Project Overseer:

Kathleen Purvis-Roberts

Professor of Chemistry & Environmental Science

Claremont McKenna College

The four key objectives promote information sharing and capacity building across APEC universities

Objectives

- The two-and-a-half-day workshop will bring together APEC members, faculty from APEC Universities, and members of APERC to talk about potential EWG/University collaboration.
- Discuss potential research projects for University students to work on in classes that would be most beneficial to the EWG, and determine how to identify projects in the future.
- Identify best practices for project communication both between the EWG and University faculty and between faculty participants.
- Discuss best methods for sharing project results from University students.
- Facilitate networking between APEC members, University faculty in APEC economies, and APERC to develop a consortium of Universities to provide support for the work of the EWG.

EWG 05 2019A: Sustainable Mobility: Routes for integrating the Energy and Transport Sectors for Urban Cities

Proposing APEC economy: USA

Co-sponsoring economies: Thailand, Philippines, Chinese Taipei, Australia

Expected start date: May 2019

End date: November 2020

Expected project cost(USD): 130,000

APEC (USD): 100,000 ASF/EE

Project Overseer:

Sanjini U. Nanayakkara

National Renewable Energy Laboratory

The three key objectives promote sustainable mobility across the APEC region

Objectives

- To deliver a Sustainable Mobility - City Solutions Case study that addresses policy and technical guidelines for the implementation of sustainable, high-capacity public and shared transport systems, with existing infrastructure, or with examples of successful improvements. This case study will address clean transport solutions, stakeholder engagement processes, joint-policies and pilot programs with the energy-sector that would further consolidate the energy-efficiency aspects.
- To build capacity and increase knowledge in APEC member economies with technical training, policy advice and sharing of regional and international good practices. This will be achieved via a workshop, which will be open to all APEC and non-APEC economies.
- To provide a long-term platform for continued dialogue, knowledge sharing and learning within the APEC economies by incorporating interested APEC members into Asia's Clean Mobility Community of Practice, which will enable cities to be a regional leader in providing City-level solutions

The project will apply findings from an existing APEC project (EWG 10 2018A), focused on pathways to integrate the energy and transport sectors in APEC island communities, in APEC cities