

Hong Kong China APEC Project Update

**The 55th Meeting of the APEC Expert Group on
Energy Efficiency & Conservation
on 19-20 November 2020**

HKC APEC Projects

Project In Progress

1. APEC Funded Project on Energy Intensity Reduction in the APEC Region's Urbanised Cities [EWG 08 2019A]
2. APEC Self-funded Project on APEC Workshop on District Cooling and/or Heating Systems (DCHS) [EWG 08 2019S]

Project Proposal for Session 2, 2020

1. APEC Funded Project on Capacity Building Workshop on Retro-commissioning (RCx) [EWG 09 2020A]

Project Proposal for Session 1, 2021

1. APEC Funded Project on Green Data Centre

Energy Intensity Reduction in the APEC Region's Urbanised Cities [EWG 08 2019A] – in progress

Project Scopes

- To conduct a study to analyse the energy efficiency policies, the deployment of energy efficiency technologies, practices and tools, in particular for buildings.
- To organise an online workshop on 17-18 March 2021 in Hong Kong China.
- To provide a study report to address urbanisation concerns and energy efficiency technology development challenges as well as to share the best energy efficiency policies and practices, and the emerging new technologies.

Project Objectives

- To analyse the energy intensity reduction performance in developed APEC member economies' urbanised cities.
- To identify key drivers for accelerating aggregated energy intensity reduction for new and existing buildings, in addition to regulations.
- To develop a guidance for policy makers, particularly developing economies, to urbanise their city to a low aggregated energy intensity in one sitting.

Status

- Stage 1 - Conceptual Study is completed, shortlisted seven cities from the APEC member economies, i.e. Beijing, City of Sydney, Hong Kong China, New York City, Seoul, Singapore and Tokyo.
- Stage 2 - Final Study is in progress.
- Stage 3 - Online workshop is scheduled to be held on 17-18 March 2020 in Hong Kong China.

APEC Workshop on District Cooling and/or Heating Systems (DCHS) [EWG 08 2019S] – in progress

Project Scope

- To organise a workshop on DCHS alongside with EGEDA and EGEEC meeting.
- To provide a platform to promoting and highlighting the growing importance of DCHS from the perspective of energy efficiency and conservation through collection of DCHS data in driving progress toward meeting the energy intensity reduction goal of APEC.

Project Objectives

- To encourage the deployment of DCHS for its proven cost-effective solution to reduce energy consumption and peak load cooling demand.
- To share the experience and best practices with the participants from various economies.

Status

- Virtual workshop was successfully held on 17 November 2020 alongside EGEDA31 and EGEEC55 with over 110 participants from 15 APEC member economies and 16 organisations.
- Workshop Summary to be submitted in January 2021.

APEC Capacity Building Workshop on Retro-commissioning (RCx) [EWG 09 2020A]

Project Scope

- To provide a platform for fostering the growing importance of RCx from the perspective of improving energy efficiency in driving progress toward meeting the energy intensity reduction goal of APEC and increasing employment opportunities and economic activities post COVID-19.
- To organize a capacity building workshop cum training to share retro-commissioning (RCx) guidelines and developments.

Project Objectives

- To share the experience and best knowledge-based practices of RCx in achieving APEC aspirational target of reducing aggregate energy intensity by 45 percent from 2005 levels by 2035 and Statement on COVID-19 by APEC Ministers Responsible for Trade.
- To build capacity by collaborating with policy-makers, experts, academia, international organisations, practitioners and related stakeholders in developing RCx implementation frameworks, guidelines, and training programmes in pursuing facilitative measures that will expedite economic rebound.

APEC forum:	EWG / EGEEC
Co-sponsoring economies:	Japan; Singapore; Thailand; The United States; Viet Nam
Expected Start Date:	January 2021
Project Completion Date:	June 2022
Project Cost:	USD 242,404

APEC Green Data Centre [Funded Project Concept Notes to be submitted for Session 1, 2021]

Background

- Amid the COVID-19, new normal, including working from home, e-learning, e-commerce and e-shopping, has created need for more use of IT and data centre services.
- In accordance with IEA Data Centre and Data Transmission Network Tracking Report in June 2020, the global internet traffic surged by almost 40% between Feb and Apr 2020 and this growth comes on top of rising demand for digital services over the past decade. However, rapid improvements in energy efficiency have helped to limit energy demand growth from data centres and data transmission networks, which each accounted for around 1% of global electricity use in 2019.
- Under “Digital Economy and Technology” of the APEC 31st Ministerial Meeting 2020, SOM instruct Senior Officials to to accelerate the implementation of the APEC Internet and Digital Economy Roadmap (AIDER) and welcome the APEC Roadmap on Digital Financial Inclusion.

Project Scope

- To analyse the energy efficiency and resilience policies, international guidelines and standards, practices and the deployment of I&T technologies for data centre to enable the “Digital Economy and Technology”.
- To organize a capacity building workshop to policies, standards, guidelines, best practices and advance technology for green data centre.

Status

- Seek sponsorships from APEC member economies in Nov to Dec 2020
- Submit Concept Notes in Dec 2020

Source: <https://www.iea.org/reports/data-centres-and-data-transmission-networks>

THANK YOU!