



Project Update

Achieving Carbon Neutrality through Bio-Circular-Green Economy Principle in APEC Region - EWG10 2021A

Munlika SOMPRANON

Director of Policy and Strategy Sub-Division
Division of Strategy and Planning
Department of Alternative Energy Development and Efficiency (DEDE)
Email: munlika_s@dede.go.th, mu21bm@Hotmail.com

APEC EGNRET 58 and EGEDA 34 Joint Meeting
5 April 2023



EWG 10 2021A | Achieving Carbon Neutrality through BCG Model

Objectives

- To review methodology and framework of carbon neutral plan from all around the world especially APEC economies on power, transport, and buildings sectors
- To share best practices and lessons learned on carbon neutral policy formulation under Bio-Circular-Green (BCG) Economy Principle
- To build capacity on carbon neutral policy formulation with balanced integration of RE/EE technologies and regulation with an aim to have one APEC economy as case study.

Duration: 1 June 2022 – 31 July 2023 (after revision to hold workshop in Hawaii instead of Tokyo)

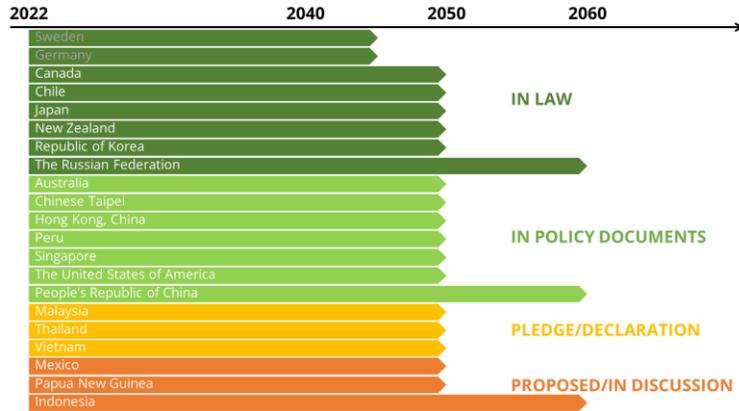
Co-sponsoring Economies: People's Republic of China; Hong Kong, China; Japan; Malaysia; Chinese Taipei; The United States; Viet Nam

Activities Conducted & Planned

- **Nov 2022-Feb 2023:** Documentation studies on
 - ✓ Carbon neutral policy especially on **power, transport and building sectors** with case studies from APEC economies in conjunction with Bio-Circular-Green (BCG) Economy Model.
 - ✓ Selected **low-carbon technologies** with corresponding **policy mechanism** toward carbon neutral goal
- **6-7 Apr 2023:** Prepare and organize 2-day Workshop in **Hawaii** (with joint EGNRET58-EGEDA35 meeting)
 - ✓ Share best practice on policy formation
 - ✓ Build capacity & promote policy dialogues among APEC economies
- **July 2023:** Final Report with Policy Recommendation on achieving carbon neutrality through Bio-Circular-Green (BCG) Economy Model

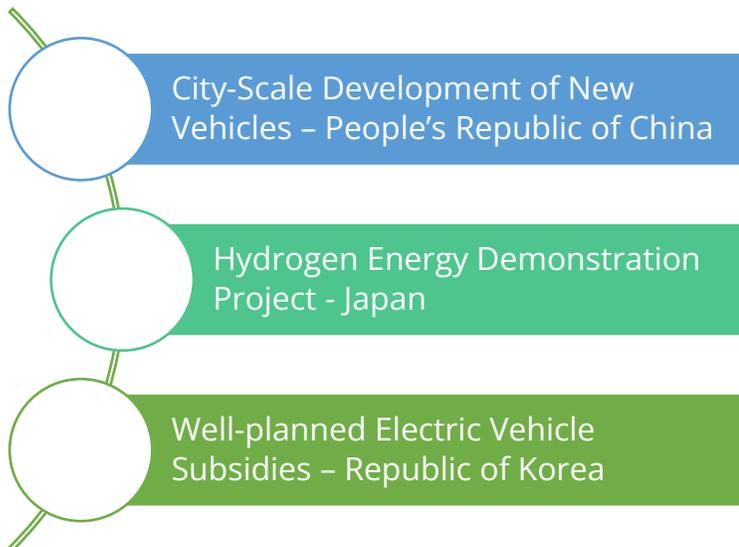
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Identification of Case Studies from APEC & non-APEC

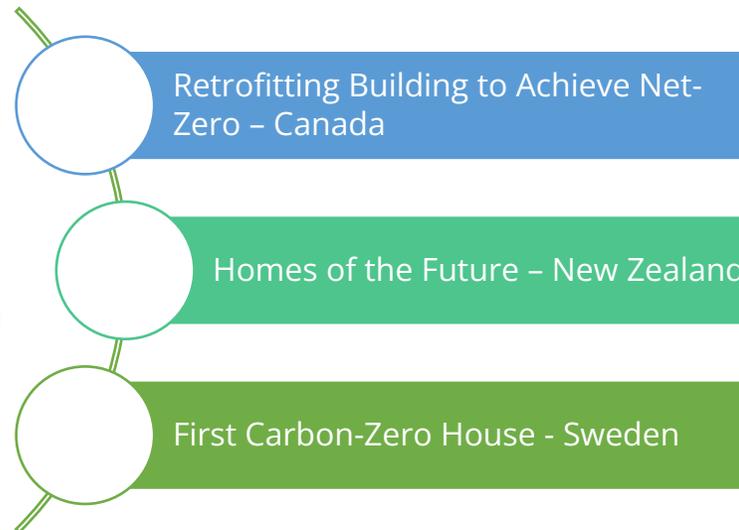


Focusing on top-runner Economies

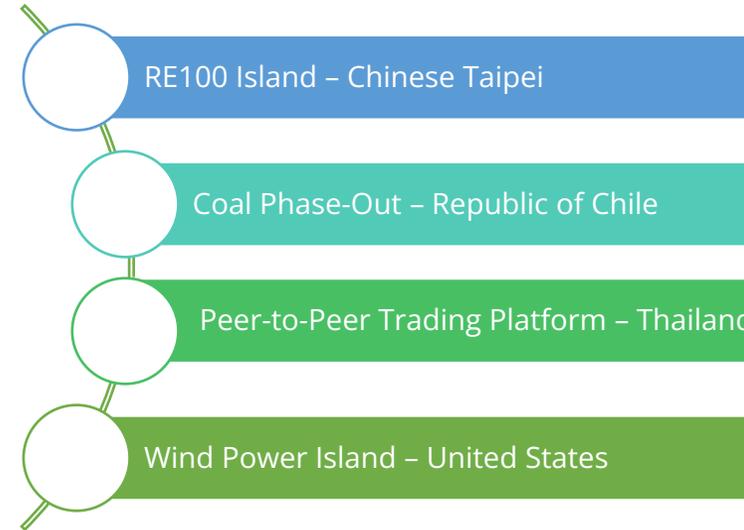
Transport Sector



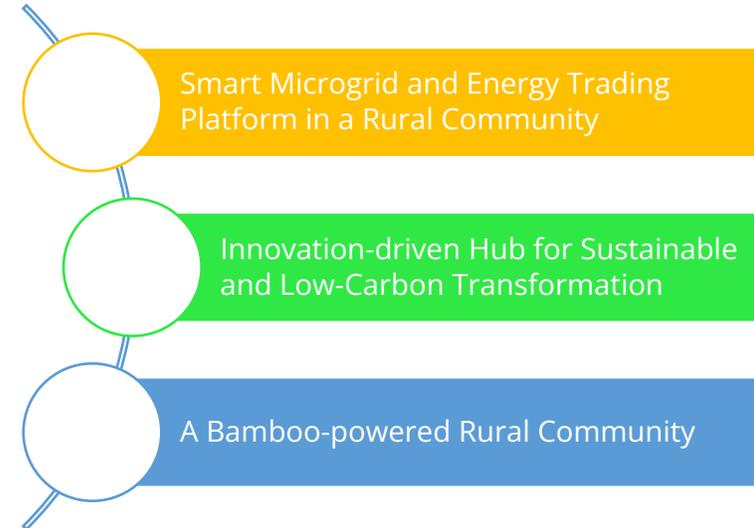
Building Sector



Power Sector



BCG Case Studies in Thailand



EWG 10 2021A | Analysis and Next Step

Identifying Steps towards Carbon Neutrality: A Case Study of Thailand

- Identifying **general steps** to drive an economy towards carbon neutrality based on desk study
- Evaluating **potential contribution** of each policy action to emission reduction
- **Gap analysis** based on Thailand's current status and sectoral goals
- Consideration of **emission reduction potential** of the combinations of **promising policy actions** in power generation, transport, and building sectors
- **Quantitative analysis** of emission reduction attributed to implementation of **selected policy actions**

Next Step



GENERAL INFORMATION CIRCULAR

APEC Workshop on Achieving Carbon Neutrality through
Bio-Circular-Green Economy Principle in APEC Region
(EWG 10 2021A)

6-7 April 2023

Organizer: Department of Alternative Energy Development and Efficiency (DEDE), Ministry of Energy, Thailand in collaboration with the National Energy Technology Center (ENTEC), National Science and Technology Development Agency (NSTDA), Thailand and Hawaii Natural Energy Institute (HNEI), USA

Event held under APEC Project: Achieving Carbon Neutrality through Bio-Circular-Green Economy Principle in APEC Region (EWG 10 2021A)

Sponsoring Economy / Project Overseer: Thailand / Mrs. Munlika Sompranon

Co-sponsoring APEC economies: People's Republic of China; Hong Kong, China; Japan; Malaysia; Chinese Taipei; The United States; Viet Nam

Funded by APEC Support Fund (ASF) Sub-Fund: Energy Efficiency and Low Carbon Resiliency Measures (EELCER)

Thank You

Munlika SOMPRANON

Department of Alternative Energy Development and Efficiency (DEDE)
munlika_s@dede.go.th