On-going Project

EWG 103 2024A EELCER

Benchmark of Facilitated Actions to Fulfill the Energy Efficiency Benefit of AMI in the APEC Region

Co-sponsoring economies:

Chile, Philippines, USA, Viet Nam

Proposing Economy: CHINESE TAIPEI
EGNRET 63
19 November 2025

Objectives

1. Offer a facilitated list of actions for economies implementing AMI, particularly in the early stages, to maximize the benefits of AMI adoption in the APEC region.

2. Emphasize improving behavior feedback, such as modifying the volume or timing of energy consumption, to reduce energy intensity or enhance energy efficiency across APEC economies.

3. Conduct a real-case survey on early adopters of AMI within the APEC region, supplemented by a comprehensive review of relevant literature for follower members.

Project Workshop

APEC AMI Benchmarks Workshop: Insights and Recommendations
4-5th Sep 2025 @ Courtyard By Marriott Taipei, Chinese Taipei

- **Focus**
  - The evolution of GEN II smart meters
  - The observed and potential benefits of AMI
  - Supporting measurements enhancing the benefits of AMI
  - Lessons learned from the early AMI mover

- **Speakers**
  - Electricity Authority of Vietnam
  - Industrial Tech Research Inst (ITRI)
  - Oxford University
  - Southern California Edison (SCE)
  - Tokyo Electric Power Co. Power Grid, Inc
  - Taipower
  - Waseda University

Workshop

- Attendance: 64 participants across 7 Economies
- Open Remarks by the Executive Yuan and the Energy Administration, Chinese Taipei
- Physical mixed with virtual speech, and engaging discussion between speakers and attendees

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Workshop Highlights: Day 1

Panel Discussion with online speakers

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Workshop Highlights: Day 2: Site Visit

Visiting Smart metering applications, smart home, and microgrid islanding mode demonstration

Achievements of the Current Stage of the Project (1/2)

- Delivered high-impact APEC AMI Benchmark Workshop with 64 participants from 7 economies.
- Secured strong involvement from leading utilities and institutions (SCE, TEPCO, Taipower, Oxford, ITRI, etc).
- Established a unified benchmark framework capturing best practices and priority AMI actions.
- Validated key AMI benefits: accurate billing, fast outage restoration, consumption insights, and facilitate low-carbon technologies, carbon reduction.

Achievements of the Current Stage of the Project (2/2)

- Identify key governance and standards for smart meter deployment, including neutral data management, specification development, and cybersecurity.
- Highlighted next-generation AMI trends—modular design, cybersecurity, interoperability.
- Outline essential communication and engagement strategies to maximize smart meter benefits, including clear context, simple guidance, financial incentives, and culturally sensitive approaches.
- Provided practical, technical and application exposure through site visits on smart metering, smart home, and microgrid applications.
- Built the foundation for final APEC reports offering actionable policy recommendations.

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Thank you very much for your attention.