

APERC Workshop, Washington, D.C. 5 November 2012

3. APERC's Cooperative Activities

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Asia-Pacific Economic Cooperation



- 1. Introduction
 - 2. Peer Review on Energy Efficiency (PREE)
 - 3. Cooperative Energy Efficiency Design for Sustainability (CEEDS)
 - 4. Peer Review on Low Carbon Energy Supply (PRLCE)
 - 5. APEC Low Carbon Model Town (LCMT)
 - 6. APEC Oil & Gas Security Exercises
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1-1. Introduction

What are APERC's Cooperative Activities?

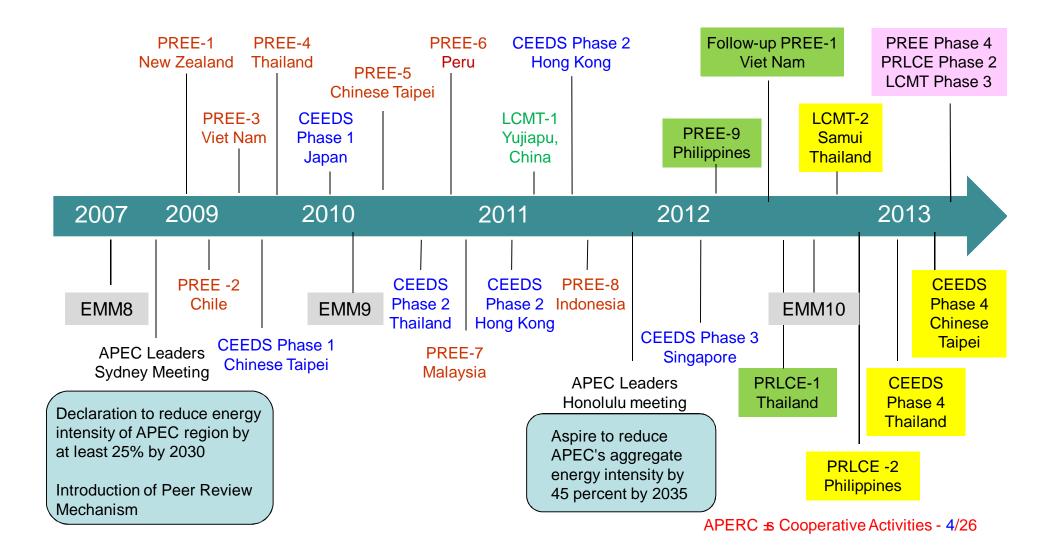
• APERC's Cooperative Activities can be defined as "APERC's activities to directly cooperate the APEC member economies in solving or improving their energy problems".

Cf. APERC's APEC Energy Demand and Supply Outlook

- The major methods of APERC's Cooperative Activities are peer reviews and workshops.
- Peer reviews: Experts mainly from the APEC region visit a host economy to review its energy situation and policies, and make recommendations for the host economy.
- Workshops: Experts both within and outside of the APEC region give lectures to government/industry/academia personnel of APEC member economies in order to share necessary information.
- APERC's Cooperative Activities started in 2008; The first activity was Peer review on Energy Efficiency (PREE) for New Zealand.



1-2. Summary of PREE, CEEDS, PRLCE & LCMT





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Initiated by APEC Energy Ministers' 2007 Darwin Declaration

- Provide a *broad review* of EE policies and measures for more effective EE policies.
- Provide *recommendations* on how implementation of action plans could be improved to achieve EE goals.
- Two activities are organized:
- Peer review: Visit volunteer economy by interviewing people and relevant organizations by the experts from member economy. The findings and recommendations are provided.
- Compendium: To compile energy efficiency policies of all the APEC member economies under a common format which reflects the diversity of approaches that could be adopted by member economies.
- PREE considers the whole range of energy efficiency policies and measures for one economy at a time.



2-2. PREE- 9 (The Philippines)

 The latest peer review on energy efficiency in the Philippines will be explained later by Mrs. Elvira Torres Gelindon, APERC researcher in charge of this project.



2-3. 1st Follow-up PREE (Viet Nam)

- The Follow-up PREE is designed to assist former PREE host economies in implementing the earlier recommendations of the PREE review teams.
- The objective is to fill the gap between the implementation of energy efficiency action plans and the monitoring and evaluation of those plans.
- The first Follow-up PREE was held in Viet Nam from 27 February to 2 March 2012.
- The Follow-up PREE training in Viet Nam was developed to help the Government identify and utilize energy efficiency data to ensure that the National Energy Efficiency Programs of Viet Nam are carried out in accordance with the best practices currently employed in other economies worldwide.



2-4. Work Plan on PREE Phase 4

- 10th PREE in Volunteer economy (Brunei has expressed interest to host the 10th PREE)
- 2nd Follow-up PREE
 (Thailand has expressed interest to host the 2nd Follow-up PREE)
- The proposal for PREE Phase 4 was approved in principle for the fund from APEC Support Fund in APEC BMC Session 3.
- The full proposal was submitted full proposal to APEC Secretariat and is waiting for the final approval.

2-5. PREE in future

• Will all 21 APEC Economies be reviewed in PREE?

Brunei (PREE-10(P)) Australia* Chile (PREE-2) Canada* **Indonesia (PREE-8)** China Malaysia (PREE-7) Hong Kong Japan* New Zealand (PREE-1)* Korea* Peru (PREE-6) The Philippines (PREE-9) Mexico Chinese Taipei (PREE-5) Papua New Guinea Russia Thailand (PREE-4, Fu-PREE-2(P)) Viet Nam (PREE-3, Fu-PREE-1) Singapore United States*

*: IEA member country which can receive IEA peer reviews



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3-1. Objectives of CEEDS

Referred in APEC Energy Ministers' 2010 Fukui Declaration

- To promote "high-performance" energy efficiency policy measures in developing economies in the APEC region.
- To assist developing economies who wish to design and implement measures for achieving energy efficiency improvements in a specified sector.
- Two workshops is organized:
- One is an analysis of potential energy savings that might be obtained in the APEC region if each participating developing APEC economy were to adopt the high-performance measures.
- The other is focusing on how these measures might be implemented in developing APEC economies.
- CEEDS considers policies and practices for several developing economies in one sector at a time.



3-2. Work Plan for CEEDS Phase 4

- CEEDS Phase 4 will deal with "Promotion of Energy Service Company (ESCO)"
- **The first workshop** of CEEDS Phase 4 will be hosted by **Thailand** during the week starting on **21 January 2013**.
- The second workshop for CEEDS Phase 4 will be held in 26~28 March 2013 and hosted by Chinese Taipei.
- We have initiated the invitation process for participating eligible economies. We are very welcome to active participation of interested APEC economies.



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4-1. *Objectives of PRLCE*

Initiated by APEC Energy Ministers' 2010 Fukui Declaration

- To assist volunteer APEC economies to promote low-emission power sources by providing recommendations from APEC peer review experts.
- Share experiences and knowledge on best practices for efficient and effective policies to promote **low carbon power supplies** (such as renewable energies) in developing APEC economies, and how to adapt policies and measures which have been successful elsewhere to the unique conditions of each economy;
- Encourage developing APEC economies to set individual goals on power supply from low carbon sources (such as renewable energies), and to formulate action plans to achieve the goals;



4-2. Progress of PRLCE Phase 1

- The guideline for "APEC Peer Review on Low-Carbon Energy Supply" was approved.
- Thailand hosted the first PRLCE in 21~25 May 2012 with the focus on "Alternative Energy Development Plan (2008 – 2022) on Solar, Wind, Biomass and Biogas (ADEP)".
- The review team expert has provided 45 *policy recommendations*,* to name a few:
- ✓ The development of bioenergy standards the promotion and development of domestic bioenergy industries,
- ✓ Technical capabilities both in government, academia and industry to handle challenges with the target of 1200MW wind capacity.
- ✓ Accreditation system and a sufficient number of professional engineers and skilled workers to set up and monitor PV systems.



4-2. Progress of PRLCE Phase 1 (cont.)

- The review team expert also has provided *policy recommendations* on:
- ✓ Stricter monitoring of hydro power plants', including small hydro plants' compliance with environmental regulation.
- ✓ Evaluation of tariff system (FiT) on a periodic basis.
- ✓ The involvement in APEC related activities on smart grid.
- ✓ Consistencies among policies, especially with regards to encouraging clean development mechanism projects, which will assist the green house gas mitigation target set out in the 2010 Power Development Plan.

*to be endorsed at EWG 44

• **The Philippines** is hosting the second PRLCE in **19~23 November 2012** with the focus on Feed-in Tariff (FIT) system for renewable energy.



4-3. Work Plan on PRLCE Phase2:

- ["] The proposal for PRLCE Phase 2 was approved in principle for the fund from APEC Support Fund in APEC BMC Session 3.
- ["] The full proposal was submitted to APEC Secretariat and is waiting for the final approval.
- Phase 2 PRLCE is planned to assist two additional economies in developing policies to promote low- carbon energy supply.
- *Economies are currently invited to volunteer to host PRLCE Phase 2.*

- Expecting candidates: Malaysia, Viet Nam, Indonesia or Mexico



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5-1. Objective and Progress of the APEC LCMT Project

Initiated by APEC Energy Ministers' 2010 Fukui Declaration

" To promote low-carbon town developments in order to manage rapidly growing energy consumption especially in urban areas of the APEC region.

The key activities are;

- Feasibility study will be conducted by qualified urban design consultants to encourage creation of low-carbon communities in urban development plans.
- to develop the "Concept of the Low-Carbon Town in the APEC".
 <Study Group A assisted by APERC>
- to assess real low carbon town development projects both technical and policy sides (Policy recommendation) <Study Group B assisted by APERC>

["] In 2012, the case for LCMT Phase 2 is **Samui Island, Thailand**.



5-2. Work Plan on LCMT Phase3

- **Da Nang, Viet Nam**, is endorsed by LCMT Task Force as the case for LCMT Phase 3.
- The proposal for LCMT Phase 3 was approved in principle for funding from APEC Support Fund in APEC BMC Session 3.
- The full proposal was submitted to APEC Secretariat and is waiting for the final approval.



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6. APEC Oil & Gas Security Exercises

• 2012 APEC Energy Ministers' meeting (Saint Petersburg, Russia, 24-25 June 2012)

St. Petersburg Declaration – Energy Security: Challenges and Strategic Choices

"We encourage the EWG and APERC to work in collaboration with the International Energy Agency (IEA) and the Association of Southeast Asian Nations (ASEAN) on activities to improve the response to oil and gas emergency situations in the APEC region, including emergency response workshops and exercises."

 This instruction by energy ministers was confirmed by 2012 APEC Leaders' Declaration Annex B – Strengthening APEC Energy Security (Vladivostok, Russia, 8-9 September 2012)





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T. Conclusion

- APERC's Cooperative Activities have been appreciated in facilitating APEC economies to develop energy efficiency and clean energy supply goals, for the achievement of the APEC-wide aspirational goal of a reduction in energy intensity and carbon emission, as instructed by APEC Ministers and Leaders.
- However, the projects in APERC's Cooperative Activities have been rapidly proliferated. This could lead to an increasing burden of work for APERC. APERC may have come to the turning point to reconsider the fair balance between research activities and cooperative projects, and the necessity of prioritizing and streamlining of its activities.



Thank you for your kind attention

http://www.ieej.or.jp/aperc/



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