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***Future Shape of Peer Review on Energy Efficiency
(PREE) and Cooperative Energy Efficiency Design for
Sustainability (CEEDS)***

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Asia-Pacific
Economic Cooperation



Outline

- 1. Introduction**
- 2. Peer Review on Energy Efficiency
(PREE)**
- 3. Cooperative Energy Efficiency Design
for Sustainability (CEEDS)**
- 4. Conclusion**

Future Shape of CEEDS and PREE - 2/20




1-1. Introduction

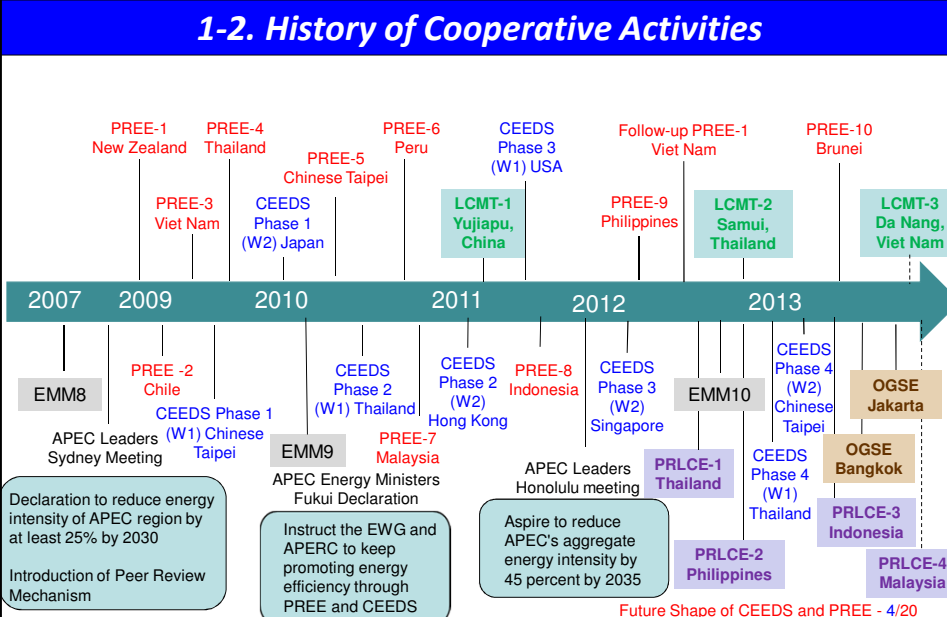
What are APERC's Cooperative Activities?

- APERC's Cooperative Activities can be defined as "Activities which directly cooperate with APEC member economies in solving their energy problems or improving their energy situation".
 - ⇔ APERC's APEC Energy Demand and Supply Outlook
- The major features of APERC's Cooperative Activities are expert **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.
 - Ex. Peer Review on Energy Efficiency (PREE)
 - **Workshops:** Experts from both within and outside of the APEC region, give presentations to delegates from APEC member economies and work with them to share information necessary for policy planning.
 - Ex. Cooperative Energy Efficiency Design for Sustainability (CEEDS)

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1-2. History of Cooperative Activities



The timeline illustrates the history of cooperative activities from 2007 to 2013. Key events include:

- 2007:** EMM8, APEC Leaders Sydney Meeting. Declaration to reduce energy intensity of APEC region by at least 25% by 2030. Introduction of Peer Review Mechanism.
- 2009:** PREE-1 (New Zealand), PREE-2 (Chile), PREE-3 (Viet Nam), CEEDS Phase 1 (W1) Chinese Taipei.
- 2010:** PREE-4 (Thailand), CEEDS Phase 1 (W2) Japan, EMM9, APEC Energy Ministers Fukui Declaration. Instruct the EWG and APERC to keep promoting energy efficiency through PREE and CEEDS.
- 2011:** PREE-5 (Chinese Taipei), PREE-6 (Peru), CEEDS Phase 2 (W1) Thailand, LCMT-1 (Yujiapu, China), CEEDS Phase 2 (W2) Hong Kong.
- 2012:** PREE-7 (Malaysia), PREE-8 (Indonesia), APEC Leaders Honolulu meeting. Aspire to reduce APEC's aggregate energy intensity by 45 percent by 2035. CEEDS Phase 3 (W2) Singapore, PREE-9 (Philippines), CEEDS Phase 3 (W1) USA, Follow-up PREE-1 (Viet Nam).
- 2013:** PREE-10 (Brunei), LCMT-2 (Samui, Thailand), LCMT-3 (Da Nang, Viet Nam), EMM10, CEEDS Phase 4 (W2) Chinese Taipei, OGSE (Jakarta), OGSE (Bangkok), PRLCE-1 (Thailand), CEEDS Phase 4 (W1) Thailand, PRLCE-2 (Philippines), PRLCE-3 (Indonesia), PRLCE-4 (Malaysia).

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1-2. History of Cooperative Activities

- **APEC Energy Ministers' 2007 Darwin Declaration (EMM8)**
 - Focus on **Energy Efficiency**
 - ⇒ Peer Review on Energy Efficiency (**PREE**) 2009-
 - ⇒ Cooperative Energy Efficiency Design for Sustainability (**CEEDS**) 2009-

- **APEC Energy Ministers' 2010 Fukui Declaration (EMM9)**
 - Focus on **Low-Carbon Energy Supply**
 - ⇒ Peer Review on Low-carbon Energy Policies (**PRLCE**) 2012-
 - ⇒ Low carbon Model Town Projects (**LCMT**) 2011-
 - *Also referred to **PREE** and **CEEDS**

- **APEC Energy Ministers' 2012 St. Petersburg Declaration (EMM10)**
 - Focus on **Supply Security of Oil and Gas**
 - ⇒ Oil & Gas Security Exercises (**OGSE**) 2013-

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2-1. Objectives of PREE

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**: Visits by experts from member economies to the volunteer economy in order to interview people and meet with stakeholders. A report of the findings and recommendations is provided.
 - **Compendium**: Compiles 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.


Future Shape of CEEDS and PREE - 6/20



2-2. Objective of Follow-up PREE

- 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 in order to ensure that the National Energy Efficiency Programs of Viet Nam are carried out in accordance with best practices currently employed in other economies worldwide.


Future Shape of CEEDS and PREE - 7/20



2-3. Work Plan on PREE Phase 4

- The proposal for PREE Phase 4 funding from the APEC Support Fund was approved in **APEC BMC Session 3 of 2012**.
- **Brunei** hosted the **10th PREE** in 10-14 June 2013.
- **Thailand** will host the **2nd Follow-up PREE** maybe in the 1st Quarter of 2014, focusing on transportation sector [TBC].

Future Shape of CEEDS and PREE - 8/20




2-4. PREE in the Future

- Will all 21 APEC Economies be reviewed in PREE?

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

*IEA member economy which is eligible for IEA peer reviews

Future Shape of CEEDS and PREE - 9/20



2-5. Future Shape of PREE


- Given the resource constraints of APERC, it is necessary to reduce the number of peer reviews per year.

One PREE **and** one Follow-up PREE (in total **two**) in 2012 and 2013

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One PREE **or** one Follow-up PREE (in total **one**) after 2014

Future Shape of CEEDS and PREE - 10/20



3-1. Objectives of CEEDS

Referred in APEC Energy Ministers' 2010 Fukui Declaration

- Promote **“high-performance” energy efficiency policy measures in developing economies** in the APEC region.
- Assist developing economies who wish to design and implement measures for achieving energy efficiency improvements in a **specified sector**.
- **Two workshops** are organized for each topic:
 - One is presentations by experts on opportunities for energy savings in participating developing APEC economies.
 - The other is focusing on how these measures might be implemented in developing APEC economies, with economy delegates being the main presenters.
- CEEDS considers policies and practices for **several developing economies on one topic** at a time.

Future Shape of CEEDS and PREE - 11/20



3-2. History of CEEDS

- **Phase 1: Appliance Energy Efficiency Standards and Labeling**
 - 1st Workshop: 19-21 October 2009, Taipei City, Chinese Taipei
 - 2nd Workshop: 1-2 March 2010, Tokyo, Japan
- **Phase 2: Building Energy Codes and Labeling**
 - 1st Workshop: 8-10 September 2010, Bangkok, Thailand
 - 2nd Workshop: 26-28 January 2011, Hong Kong, China
- **Phase 3: Energy Efficient Urban Passenger Transportation**
 - 1st Workshop: 14-16 September 2011, San Francisco, USA
 - 2nd Workshop: 17-19 January 2012, Singapore
- **Phase 4: Promotion of Energy Service Company (ESCO)**
 - 1st Workshop: 21-23 January 2013, Bangkok, Thailand
 - 2nd Workshop: 26-28 March 2013, Taipei, Chinese Taipei

Future Shape of CEEDS and PREE - 12/20



3-3. Result of CEEDS Phase 4

- Jyukankyo Research Institute Inc. of Japan was hired as a consultant.
- **Prominent experts** on ESCO issues were invited.

<The first Bangkok Workshop>

- Dr Prasert Sinsukparsert, Director of Planning Division, Department of Alternative Energy Development, Ministry of Energy, Thailand
- Mr. Thomas K. Dreessen, Chairman and CEO, EPS Capital Corp. USA
- Mr. Teng-Yaw Yu, Chairman of the Taiwan Association of Energy Service Companies (TAESCO) and CEO of the Taiwan Green Productivity Foundation, Chinese Taipei
- Mr. Pierre Baillargeon, Vice President, Econoler, Canada
- Ms. Ming Zhao, Vice Director/Secretary General, EMCA, China
- Mr. Mek Meksarikul, Vice President, Head of Corporate Credit Solution Management, Corporate Credit Product Management Department, Kasikorn Bank, Thailand
- Mr. Sarat Prakobchart, Senior Engineer, Department of Alternative Energy Development, Ministry of Energy, Thailand
- Dr. Watcharee Jornjumrus, Technical Advisor, Energy for Environment Foundation, Thailand
- Dr. Chiharu Murakoshi, Jyukankyo Research Institute, Japan

Future Shape of CEEDS and PREE - 13/20




3-3. Result of CEEDS Phase 4

<The second Taipei Workshop>

- Dr. Hidetoshi Nakagami, Jyukankyo Research Institute, Japan
- Dr. Nicola Labanca, Senior Researcher, EC Joint Research Center
- Mr. Kentaro Horisaka, Manager, Overseas Business Development, Energy Advance, Japan
- Mr. Pierre Baillargeon, Vice President, Econoler, Canada
- Mr. Teng-Yaw Yu, Chairman, TAESCO, Chinese Taipei
- Mr. Takuya Yamamoto, Auditor, JAESCO, Japan
- Dr. Chiharu Murakoshi, Jyukankyo Research Institute, Japan

- Nevertheless, while **Chile, China, Malaysia** and **Thailand** sent the **delegates** to the first Workshop, only **Malaysia** and **Thailand** sent the **delegates** to the more important second Workshop.

Future Shape of CEEDS and PREE - 14/20



3-4. CEEDS in the Future


- CEEDS is a very complicated project which is arranged into two workshops in two different economies, with the same participating delegates and expert speakers for both workshops.
- Given the resource constraints of APERC, it is necessary to simplify the scope of the project.

Two workshops only for the **several** participating economies, inviting **several** experts **twice**

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One workshop open to the **all** APEC economies, inviting **fewer** experts **at once**

Future Shape of CEEDS and PREE - 15/20



3-5. Future Shape of CEEDS

- The topics of the workshop will be selected from the key issues highlighted in the previous PREEs. Future workshop will be **integrated into PREE (i.e. no longer an independent project)** and be called a **"PREE Policy Workshop"**.
- The PREE Policy Workshop may be held in conjunction with **one of the two bi-annual meetings of EGEE&C** (Expert Group of Energy Efficiency and Conservation).
- The Policy Workshop will be **a half day event** led and chaired by an APERC researcher.


Future Shape of CEEDS and PREE - 16/20



3-5. Future Shape of CEEDS

- As a part of the PREE project, the expenses for the PREE Policy Workshop will be covered by the APEC Fund and APERC budget. **The host economy** of the EGEE&C meeting will be expected to **assist with logistic arrangement**, but will incur **no financial burden**.
- The host economy of EGEE&C meeting can **offer its preferred topic** to the PREE Policy Workshop. APERC will pay due attention to the offered topic, since APERC can invite not only the EGEE&C delegates but also **other experts and stakeholders from the host economy** as audience of PREE Policy Workshop.


Future Shape of CEEDS and PREE - 17/20



4. Conclusion

- APERC's **Cooperative Activities**, including **PREE** and **CEEDS**, have become **too burdensome**.
- APERC must maintain a **fair balance between research activities and cooperative projects**, and thus must **prioritize** and **streamline** its cooperative projects.

Future Shape of CEEDS and PREE - 18/20



4. Conclusion

- **PREE** needs to **slow down** in speed.
- **CEEDS** needs **integration with PREE**.
- In order to make this streamlining possible, we acknowledge that **the support and cooperation of EGEE&C** is indispensable.
- APERC would like to request the support and cooperation of EGEE&C, especially for the realization of the **PREE Policy Workshop**, as the successor of **CEEDS**.

Future Shape of CEEDS and PREE - 19/20



Thank you for your kind attention

<http://aperc.ieej.or.jp>



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