APERC Energy Efficiency Cooperative Activities
Update: Peer Review on Energy Efficiency

Purpose: Information
Submitted by: APERC

50th Expert Group on Energy Efficiency and Conservation Meeting
Moscow, Russia
6-7 October 2017
50th APEC Expert Group on Energy Efficiency and Conservation

APERC’s Energy Efficiency Cooperative

Activities Update:
Peer Review on Energy Efficiency

Martin Brown-Santirso
4-7 October 2017, Moscow, Russia
1. APERC background
APERC Background

APERC was established in Tokyo in 1996 after the Osaka APEC leaders meeting in 1995

- Primary Objectives is to foster a common understanding of energy challenges facing APEC member economies.
  - Through analysis of the supply and demand outlook,
  - The development of energy markets, and
  - Discussion of policy responses
Advisory body to EWG

EMM (Energy Ministers Meeting)

EWG (Energy Working Group)

APERC (Asia Pacific Energy Research Centre)

EGEEC (EG on Energy Efficiency & Conservation)

EGNRET (EG on New & Renewable Energy Technologies)

EGCFE (EG on Clean Fossil Energy)

EGEDA (EG on Energy Data & Analysis)

LCMT TF (Low-Carbon Model Town TF)

ERTF (Energy Resiliency TF)
2. PREE
Initiated by APEC Energy Ministers’ 2007 Darwin Declaration

- Broad review of energy efficiency policies and measure
- Provide recommendations on potential improvements
  - Peer review by visiting experts
- PREE has been hosted by 11 Economies
  - New Zealand, Chile, Viet Nam, Thailand, Chinese Taipei, Peru, Malaysia, Indonesia, Brunei Darussalam, and Mexico.
- Follow-up PREE hosted by 3 economies
  - Viet Nam, Philippines, Thailand.

http://aperc.ieej.or.jp/publications/reports/pree.php
• PREE also includes:
  - Energy Efficiency Policy Workshop (EEP)
    - One-day capacity building workshop
    - Topic selected in consultation with APEC economies
    - Three carried out to date
  - Energy Efficiency Policy Compendium
    - Repository for energy policies of APEC member economies.
    - Latest update from 2015 available from:
• PREE in Mexico:
  - 6 – 10 March 2017
  - Team of 11 international and APERC experts including: New Zealand, United States, Thailand, China, Chinese Taipei, Mexico, Philippines, and Japan.
  - Complete review of energy efficiency in the economy.
  - Some highlights include:
    - Mexico is implementing a significant energy reform to liberalize energy markets.
    - A growing and increasingly wealthy population is likely to increase energy demand significantly in coming years.
    - Efficiency can provide much needed relief from this growth.
  - Report will be available before the next EGEEC meeting.
PREE in Mexico
Energy Efficiency Policy Workshop (EEP)

• Held in Jeju Island, Korea
  ■ 27 March 2017
  ■ Hosted in conjunction with EGEEC 49
  ■ 30 Attendees from 15 economies
    ➢ China, Japan, Korea, Malaysia, Indonesia, Thailand, Philippines, United States, Hong Kong, Chinese Taipei, Mexico, Russia, Vietnam, Malaysia, and New Zealand.
    ■ Included international experts presenting best practice case studies.
    ■ The summary report will available from the APEC website.
Published in May 2016

- Compendium has been collected in a survey format requiring significant input from economies.
- Included responses from 18 economies (Only missing United States, Russia, and Papua New Guinea)
- Includes information on the existing policies, government departments in charged of policy, implementation, and existing programs.
- [http://aperc.ieej.or.jp/publications/reports/compendium.php](http://aperc.ieej.or.jp/publications/reports/compendium.php)
3. Next steps
• Preliminary agreement from Malaysia to host Follow up PREE
  - End of March 2018
  - Topics: Urban Transport and Thermal Efficiency.
• To be held alongside EGEE&C 51
  ◼ First half of 2018
  ◼ Economy feedback will be sought for topic selection. Proposed topics:
    ➢ Policy roadmap development
    ➢ EE in Industry – Implementation of BATs
    ➢ EE in Transport – Fuel economy regulations
    ➢ Behavioural economics – Influencing responses.
  ◼ Please consult with your economy representative and send feedback to: m.brown-santirso@aperc.ieej.or.jp
## Foundations for Energy Efficiency

### Enabling Frameworks
- Laws and Decrees
- Strategies and Action Plans
- Funding Mechanisms

### Institutional Arrangements
- Implementing Agencies
- Resourcing Requirements
- Role of Energy Providers
- Stakeholder Engagement
- Public-Private Cooperation
- International Assistance

### Co-ordination Mechanisms
- Governmental Co-ordination
- Targets
- Monitoring & Evaluation

### Financial Remediation
- Revolving Funds
- Contingent Financing

### Capacity Building
- Creation of ESCOs
- Training Programmes

### Fiscal Measures
- Grants, Subsidies, Tax Incentives
- Direct Procurement of EE

### Promotional / Market Transform
- Info Campaigns
- Labelling / Certification

### Pricing Mechanisms
- Tiered Tariffs

### Technical Development
- Research, Development & Demonstration

### Energy Efficiency Policies
- Regulations
  - MEPS
  - Energy Audits & Management
  - Utility Obligations
- Fiscal Measures
  - Grants, Subsidies, Tax Incentives
  - Direct Procurement of EE
- Promotion / Market Transform
  - Info Campaigns
  - Labelling / Certification
- Governmental Co-ordination
- Targets
- Monitoring & Evaluation
• Changes to the future of EE Compendium
  ■ APERC’s cooperative activities rely on the support of economies to provide quality outputs
    ➢ Data collection
    ➢ Results review and endorsement
    ➢ Workshop participation
  ■ In order to reduce the burden to economies APERC intends:
    ➢ Stop the annual Compendium survey update.
    ➢ Change the format to make it easier to review and update
• Compendium in 2017
  ■ Last major update of Compendium.
  ■ New format to display information more clearly and make it more user friendly.
  ■ The format more clearly displays the different sections of information, and focuses on short sharp descriptions.
  ■ The Compendium will include links to local sources when available to enable researchers access to greater information if needed.
Energy Efficiency Policy Compendium - Next

- **Timeline**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Schedule</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter drafting by APERC</td>
<td>From May 2017</td>
<td>Completed</td>
</tr>
<tr>
<td>Review and edit</td>
<td>July 2017</td>
<td>Completed</td>
</tr>
<tr>
<td>Economy review and endorsement</td>
<td>August 2017</td>
<td>Completed</td>
</tr>
<tr>
<td>Final editing</td>
<td>September 2017</td>
<td>Completed</td>
</tr>
<tr>
<td>EWG Endorsement and Publication</td>
<td>October 2017</td>
<td>In progress</td>
</tr>
<tr>
<td>Upkeep</td>
<td>As needed.</td>
<td>As needed</td>
</tr>
</tbody>
</table>

- 15 economy responses.
- Currently being endorsed by EWG prior to Publication
• Compendium from 2018 onwards:
  ■ Information will be updated through the APEC Overview process.
    ➢ Yearly energy overview of APEC economies
    ➢ Looks at supply, demand, policy, and major projects.
    ➢ Including energy efficiency
  ■ Ad-hoc updates for individual economies as needed
  ■ All the changes aim to provide a more useful output and lower the workload for economies
• Please provide feedback on topic of next EEP
  ■ Kindly send comments by email.
• Please provide feedback on the new Compendium format
  ■ Kindly send emails by email before the end of April.
  ■ M.brown-santirso@aperc.ieej.or.jp
Thank you for your kind attention

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