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APERC Activities Overview

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Asia Pacific Energy Research Centre (APERC)
1. APERC Overall Activities
1. Research activities
   a. APEC Energy Demand and Supply Outlook (EDSO)
   b. Topical studies
   c. Yearly APEC Energy Overview

2. Cooperative Projects
   a. Peer Review on Energy Efficiency (PREE)
   b. Low Carbon Energy Projects (PRLCE, LCMT)
   c. Energy Security Projects (OGSI)

3. Training

4. Annual Conference and Advisory Board Meeting

5. Other activities
APERC Activities (2)

- Instruction
- Reporting

EGCFE
EGNRET
EGEEC
EGEDA

LCMT-TF

Cooperative Projects

OGSI
- OGSE (Exercise)
- OGSN (Network)
- OGSS (Study)

PREE
- PREE & Follow-up PREE
- Compendium
- EE Policy Workshop

Topical Research

EMM
EWG

Outlook

Annual Conference
- LNG Producer-Consumer Conference with METI

Model Training

Data Network

Overview

APERC Activities

1996:
2008:
2012:
2. Recent achievements
The latest EDSO: 6th edition

- The ‘APEC Energy Demand and Supply Outlook’ project is a priority task, published every 3-4 years.
- Two volumes: APEC as a region and economy individually.

Roadshows to present the Outlook findings:

17 economies: Australia, Canada, Chile, China, Indonesia, Korea, Malaysia, New Zealand, PNG, Peru, the Philippines, Russia, Singapore, Chinese Taipei, Thailand, the United States and Viet Nam.
Energy Overview focuses on supply/demand, policy

1. Introduction

2. Energy Supply and Demand
   - Primary Energy Supply
   - Final Energy Consumption

3. Energy Intensity Analysis

4. Policy Overview
   - Energy Policy Framework
   - Energy Markets
   - Energy Efficiency
   - Renewable Energy
   - Climate Change

5. Notable Energy Developments

6. References

7. Useful Links
1. Review on Energy Efficiency and follow up
   - 6 phases, proposing Phase 7
   - 11 Economies: New Zealand, Chile, Viet Nam, Thailand, Chinese Taipei, Peru, Malaysia, Indonesia, Brunei Darussalam, and Mexico

2. Energy Efficiency Policy Workshop (EEP)
   - Was held on 27 March in Jeju, Korea

3. Energy Efficiency Policy Compendium
   - Latest publication: April 2016

Sample of the Compendium: Front Cover
For more information, visit http://aperc.ieej.or.jp/publications/reports/compendium.php
Topical Research in 2016

1. Natural gas utilization in APEC (Is Golden Age of Gas Still Possible?)

2. Development of nuclear energy in APEC

3. Impact of low oil price on energy security (OGSS)

4. Gas Security in APEC (OGSS)

5. Geopolitical implication of Iran nuclear agreement (OGSS)

6. Advantages of LPG in case of disaster (OGSS)

7. Energy Security Indexation for Oil and Gas in the APEC Region (OGSS)
3. Ongoing activities
3.1 EDSO 7th edition
Changes in modelling: from 6th edition

MAIN ASSUMPTIONS

DEMAND
- Macroeco. model
- Transport model
- Industry model
- Buildings model

SUPPLY
- GDP
- Electricity model
- Renewables model
- Supply assumptions
- Investment model

Business-as-usual (BAU)

IMPROVED EFFICIENCY

HIGH RENEWABLES

ALTERNATIVE POWER MIX

Alternative scenarios
• Reduce the number of alternative scenarios from three to two

• Extend the outlook period to 2050

• Integrate renewable energy analysis with the demand and Electricity models

• Enhance the supply model and add integrating module

• More collaboration with economies, for instance modelling assumptions review process
Current stage of the 7th edition

- Economy review of assumptions
- Demand model runs
- Power and supply model runs
- Economy review of model results
3.2 Other activities
(selected)
Progress of PRLCE

• Phase 1 (2012-2013): Thailand, the Philippines
• Phase 2 (2013-2014): Indonesia, Malaysia
• Phase 3 (2014-2016): Viet Nam
  - The Peer Review report is available at: http://aperc.ieej.or.jp/publications/reports/prlce.php
• Phase 4 (2017-2018): Papua New Guinea
  - The concept note was submitted to the project session 1, 2017;
  - Project proposal to be submitted upon approval in May 2017;
  - Implementation is planned in August 2017 (TBC).
Training activities: Trainees and Experts

- APERC accepts energy modelling trainees
- Dispatches experts to developing economies

PNG
- June 2016

Indonesia
- Aug 2016

Chile
- Oct 2016

Mexico
- Feb 2017

PNG
- Mar 2017

- A cooperation course on ‘Energy Issues in the Asia-Pacific Region’ at Waseda University (Japan) started April 2016.
Thank you for your kind attention!

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