

## **Overview of APERC Activities**

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## **APERC** establishment

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

Primary objective is to foster a common understanding of energy challenges facing APEC member economies.

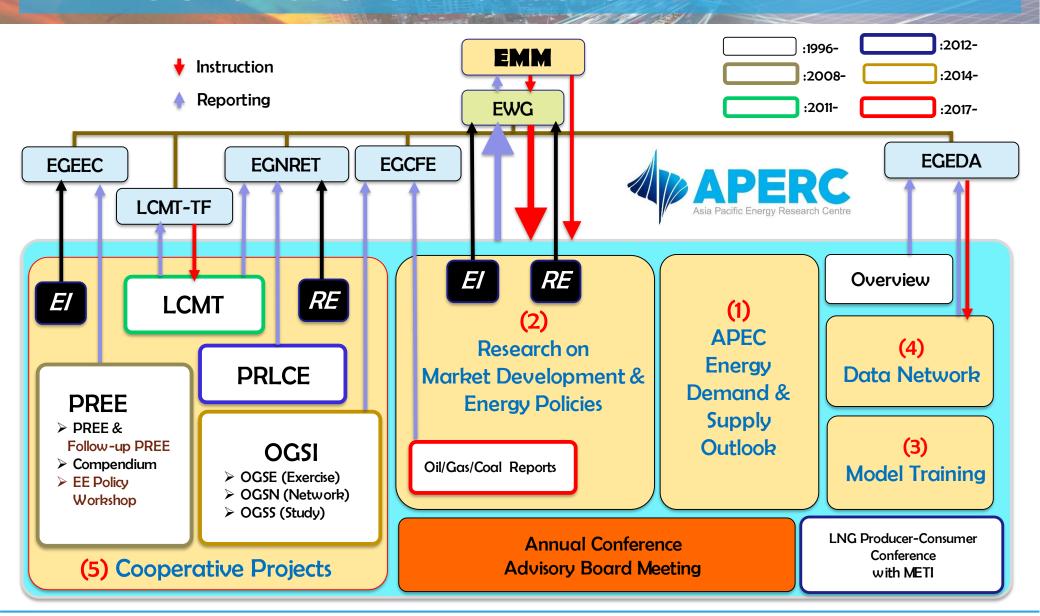
- Through analysis of the supply and demand outlook.
- The development of energy markets.
- Discussion of policy responses.



Image: Google Street View



## **APERC's functions and tasks**





## **APERC** activities

#### Research activities

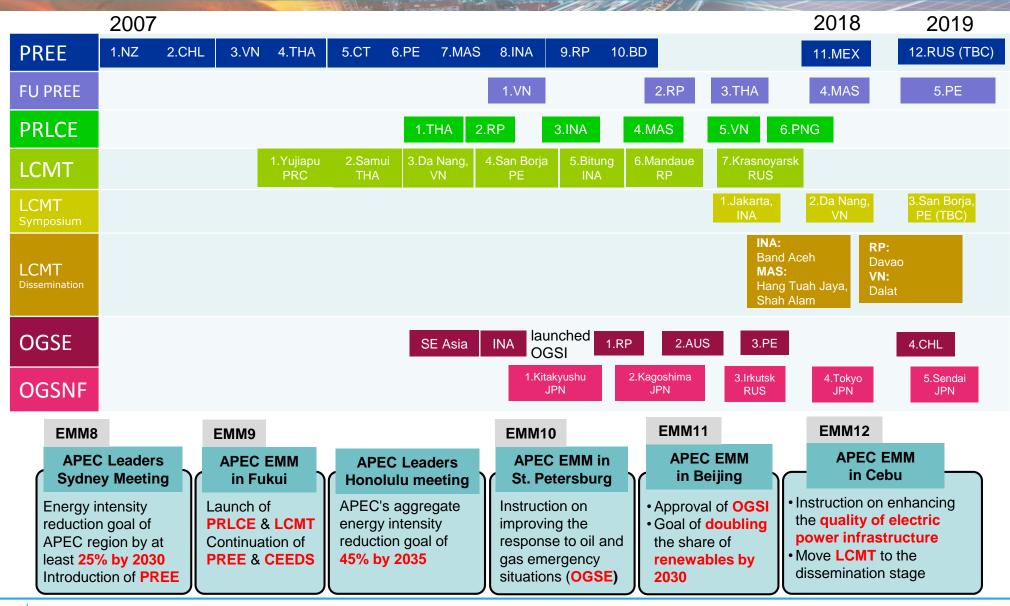
- APEC Energy Demand and Supply Outlook (EDSO)
- Yearly APEC Energy Overview
- APERC Oil/Gas/Coal Market Reports
- Topical studies

### Cooperative Projects

- Peer Review on Energy Efficiency (PREE)
- Renewable Energy Projects (PRLCE, LCMT)
- Energy Security Projects (OGSI)
- Training and Data Collection
- Annual Conference and Advisory Board meeting
- Other activities/missions

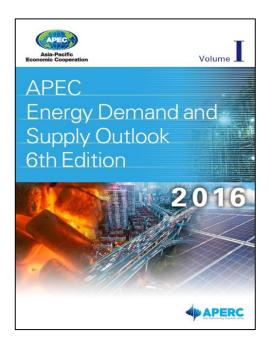


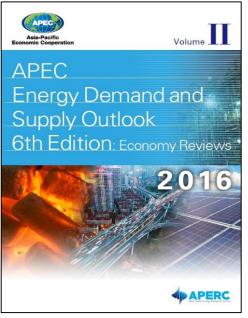
## **Cooperative activities**





## The APEC Energy Demand and Supply Outlook





- The 'APEC Energy Demand and Supply Outlook' project is a priority task, published every 3-4 years.
- Two volumes: APEC as a region and individual economy reviews.
- The 6th edition was released in May 2016.

The 7<sup>th</sup> edition will be presented to EWG in May. Similar in structure to the 6<sup>th</sup>, but with expanded modelling and new scenarios.



## **APEC Energy Overview 2018**



APEC ENERGY OVERVIEW
2017

Energy Overview focuses on supply, demand and policy

- Introduction
- Energy Supply and Demand
  - Primary Energy Supply
  - Final Energy Consumption
- Energy Intensity Analysis
- Policy Overview
  - Energy Policy Framework
  - Energy Markets
  - Energy Efficiency
  - Renewable Energy
  - Climate Change
- Notable Energy Developments
- References
- Useful Links

For more information visit: http://aperc.ieej.or.jp/publications/reports/energy\_overview.php



## **APEC Peer Review on Energy Efficiency (PREE)**

- focuses on the energy efficiency policies of a single economy
- the work is carried out by Review Team, which visits the economy and interviews a range of people knowledgeable on energy efficiency issues

#### **Sections of a Report**

- Overall / Institutional Context
- Energy Efficiency Goals, Targets and Strategy
- Energy Data Collection and monitoring
- Government and Buildings Sector
- Industrial Sector
- Transport Sector
- Electricity Sector
- · Appliances and Equipment

No.	Economy	Publ'd	Recom-s
1	New Zealand	Apr 2009	22
2	Chile	Apr 2009	21
3	Viet Nam	Dec 2009	40
4	Thailand	Mar 2010	34
5	Chinese Taipei	Nov 2010	35
6	Peru	May 2011	51
7	Malaysia	May 2011	41
8	Indonesia	Jun 2012	49
9	Viet Nam (*)	Nov 2012	13+15
10	The Philippines	Nov 2012	54
11	Brunei Darussalam	Nov 2013	47
12	The Philippines (*)	Feb 2015	34
13	Thailand (*)	Feb 2016	48
14	Mexico	Oct 2017	46
15	Malaysia (*)	Nov 2018	56
16	Peru (*) (Mar '19)		
17	Russia (TBC)		

## <u>https://aperc.ieej.or.jp/publications/reports/pree.php</u>

Note: (\*) - Follow-Up PREE Source: APERC website



## **APEC Low-Carbon Model Town (LCMT)**

- ✓ combines <u>energy-efficient buildings</u>, <u>transport</u> and <u>power systems</u> to affordably reduce energy use and carbon emissions while creating pleasant living conditions of APEC communities;
- ✓a part of APEC's Energy Smart Communities Initiative (ESCI);
- √ The new stage is LCMT Symposium

No.	Economy	Publ'd	Recom-s
1	Yujiapu CBD, Tianjin, China	Sep 2011	32
2	Koh Samui, Thailand	Jun 2013	82
3	Da Nang, Viet Nam	May 2014	75
4	San Borja, Lima, Peru	Jan 2016	50
5	Bitung, North Sulawesi, Indonesia	Jun 2016	64
6	Mandaue, Cebu, The Philippines	May 2017	52
7	Krasnoyarsk, Russia	Oct 2018	67

#### **Sections of the 7th Report**

- ✓ Town Structure
- √ Buildings
- ✓ Transportation
- ✓ Area Energy Systems & Multi-Energy Systems
- ✓ Untapped Energy
- ✓ Renewable Energy
- ✓ Building and Area Energy Management
- √ Greenery
- ✓ Water and Waste Management
- ✓ Pollution
- ✓ Policy Framework
- ✓ Education and Management

#### https://aperc.ieej.or.jp/pub lications/reports/lcmt.html

Source: APERC website



## Peer Review on Low Carbon Energy Policies (PRLCE)

- ✓ Built on information-sharing concept,
- ✓ Focuses on low carbon energy supply,
- ✓ Work is carried out by a Review Team, which:
  - visits the host economy and
  - ❖ interviews representatives of government ministries, research institutes, industry associations, energy companies, electricity and gas market regulators, consumer associations, local government, and other relevant stakeholders

No.	Economy	Published	Recom-s
1	Thailand	Nov 2012	45
2	Indonesia	Nov 2013	49
3	The Philippines	Nov 2013	45
4	Malaysia	May 2014	52
5	Viet Nam	Aug 2016	66
6	PNG	Nov 2017	44

#### **Sections of the 6th Report**

- ✓ Overarching Findings
- ✓ Institutional context
- ✓ Renewable Energy Goals, targets and Strategy
- ✓ Regulation and Infrastructure
- ✓ Bioenergy Biofuels, Biomass
- ✓ Hydropower and Ocean Energy
- ✓ Solar and PV
- ✓ Geothermal Energy
- ✓ Wind Energy
- ✓ Power Supply System, Smart Grid, Private Participation
- √ Greenhouse Gas Management

https://aperc.ieej.or.jp/publications/reports/price.php



Source: APERC website

## Training activities

APERC accepts energy modelling trainees from developing economies.

Seminar in Tokyo on 5-13 November 2018.

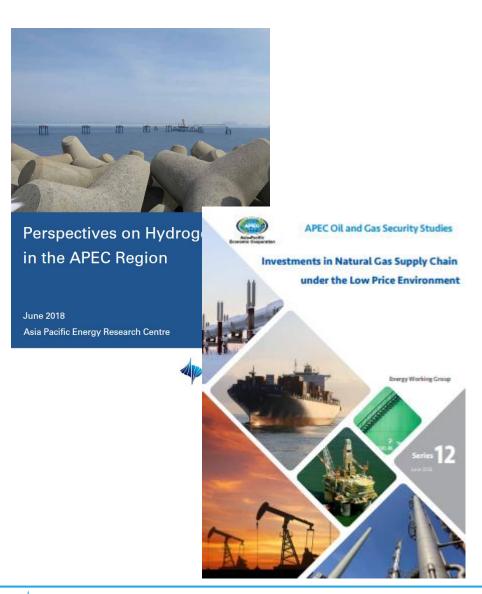
Also dispatch experts to develop energy data and modelling capacities around the region.

Workshops in FY 2017-19: Mexico, PNG, Peru,
 Indonesia (twice), Chinese Taipei and the Philippines.

A course on 'Energy Issues in the Asia-Pacific Region' at Waseda University (Tokyo) was conducted from April 2016 to 2019. Recently, extended for three more years.



## Topical research in 2017/8



- 1. Perspectives on Hydrogen in the APEC Region
- 2. Oil and Gas Security Indexation 2017 Update
- 3. Energy Security of APEC Economies and Changing Downstream Oil Environment
- 4. APEC Oil and Gas Security Exercise in Peru
- 5. APERC Gas Report 2018
- 6. APERC Oil Report 2018
- 7. Investments in Natural Gas
  Supply Chain under the Low Price
  Environment





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