



**Asia-Pacific  
Economic Cooperation**

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**2019/EWG58/010**  
Agenda Item: 5a

## **Asia Pacific Energy Research Centre President's Report - Presentation**

Purpose: Information  
Submitted by: APERC



**58<sup>th</sup> Energy Working Group Meeting**  
**Antofagasta, Chile**  
**16-17 October 2019**

# 5.a. APERC President's Report

The 58<sup>th</sup> Meeting of APEC Energy Working Group (EWG)  
Antofagasta, Chile; 16-17 October 2019

Kazutomo **IRIE**, PhD, President, APERC



# 5.a. (1) APERC Activities Overview

↓ Instruction

↑ Reporting

   :1996-  
   :2008-  
   :2011-  
   :2012-  
   :2014-  
   :2017-

EMM

EWG

EGEEC

EGNRET

EGCFE

EGEDA

LCMT-TF



LCMT

**PREE**

PRLCE

**OGSI**

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

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

(2) Topical Studies

Oil/Gas/Coal Reports

(1) APEC Energy Demand & Supply Outlook

(2) APEC Energy Overview

(4) Data Network

(3) Training

Annual Conference  
Advisory Board Meeting

LNG Producer-Consumer Conference with METI

(5) Cooperative Activities

## 5.a. (2) APERC Tasks and Activities in 2019

- Continue to meet the current acute needs of APEC member economies by choosing appropriate **research themes** including preparation for **the 8<sup>th</sup> Edition of APEC Demand and Supply (D/S) Outlook** <TOR (1)(2)>
- Explore win-win collaboration between APEC D/S Outlook exercise and **APEC energy data network** <TOR(4)>
- Accept **trainees and dispatch experts** through listening to real needs of each economy <TOR(3)>
- Directly assist APEC member economies with **Cooperative Activities** to achieve APEC's aggregate **energy intensity reduction goal of 45% by 2035** and **goal of doubling the share of renewables by 2030** <TOR(5)>
- Strengthen efforts into **oil and gas security** and continue to promote dissemination of **low-carbon town development** <TOR(5)>

# 5.a. (3) APEC Energy Demand & Supply Outlook

- The '**APEC Energy Demand and Supply Outlook**' project is a priority task for APERC under the APEC Energy Action Programme adopted by leaders in 1995.
- The Outlook provides quantitative analyses and policy insights on projected trends for energy demand and supply in APEC economies through 2050.
- The 7<sup>th</sup> Edition includes three scenarios: Business as Usual (current policies); APEC Target (combines Intensity Goal with Doubling RE Goal); and 2 Degree Celsius Scenario (consistent with Paris Accord goal to limit warming to 2°C).
- Outlook results are being disseminated to each economy during Roadshow events. APERC researchers have visited three-quarters of APEC economies since the report's release. The remaining economies will be visited by the end of 2019.
- Preparation for the 8<sup>th</sup> Edition Outlook is underway. Feedback from economies on scenarios, models, and data are contributing to the development.
- The 8<sup>th</sup> Edition Outlook will utilise APEC energy data, to underpin its analysis.

## 5.a. (4) Topical Studies

- Along with the Outlook, APERC has been conducting research on topics relevant to energy issues and policies in the APEC region.
- Studies focusing on coal, oil and natural gas to support the Expert Group on Clean Fossil Energy (EGCFE) since 2017.
  - Preparation for the next series of these three reports has already begun.
  - Publication of these reports will be in the first half of 2020
- APERC completed *“Challenges and perspectives on deployment of BEVs and FCEVs”* and its report has just been published.

## 5.a. (5) APEC Energy Overview

- The '**APEC Energy Overview**' series started in 2000 with the approval of EWG19, in order to help policymakers to share useful information and deepen understanding on energy issues in the APEC region.
- The Overview is an annual publication, which contains updated energy demand/supply data as well as descriptions of energy policy and '**Notable Energy Developments**'.
- Progress of **APEC goals on energy intensity and renewable share** has been tracked and analysed in each year.
- The **2018 Edition** was completed and published in August 2019. Preparation for the **2019 Edition** will start in November 2019.

\* *APERC appreciates the contributions and assistance by EWG and EGEDA members.*

# 5.a. (6) History of Cooperative Activities

2007

2018

2019

<b>PREE</b>	1.NZ	2.CHL	3.VN	4.THA	5.CT	6.PE	7.MAS	8.INA	9.RP	10.BD		11.MEX		
<b>FU PREE</b>								1.VN			2.RP	3.THA	4.MAS	5.PE
<b>PRLCE</b>						1.THA	2.RP	3.INA	4.MAS	5.VN	6.PNG			
<b>LCMT</b>			1.Yujiapu PRC	2.Samui THA	3.Da Nang, VN	4.San Borja PE	5.Bitung INA	6.Mandaue RP	7.Krasnoyarsk RUS					
<b>LCMT Symposium</b>										1.Jakarta INA	2.Da Nang VN		3.San Borja PE	
<b>LCMT Dissemination</b>											1.Band Aceh, INA			1.Davao, RP
											1.Hang Tuah Jaya, MAS			2.Da Lat, VN
											1.Shah Alam, MAS			
<b>OGSE</b>						SE Asia	INA	launched OGSI	1.RP	2.AUS	3.PE			4.CHL
<b>OGSNF</b>								1.Kitakyushu JPN	2.Kagoshima JPN	3.Irkutsk RUS	4.Tokyo JPN			5.Sendai JPN

EMM8

**APEC Leaders  
Sydney Meeting**

Energy intensity  
reduction goal of  
APEC region by at  
least **25% by 2030**  
Introduction of **PREE**

EMM

**APEC EMM  
in Fukui**

Launch of  
**PRLCE & LCMT**  
Continuation of  
**PREE & CEEDS**

**APEC Leaders  
Honolulu meeting**

APEC's aggregate  
energy intensity  
reduction goal of  
**45% by 2035**

EMM10

**APEC EMM in  
St. Petersburg**

Instruction on  
improving the  
response to oil and  
gas emergency  
situations (**OGSE**)

EMM11

**APEC EMM  
in Beijing**

- Approval of **OGSI**
- Goal of **doubling**  
the share of  
**renewables by  
2030**

EMM12

**APEC EMM  
in Cebu**

- Instruction on enhancing  
the **quality of electric  
power infrastructure**
- Move **LCMT** to the  
dissemination stage

# 5.a. (7) PREE [⇒11.b.]

## Peer Review on Energy Efficiency (PREE)

### Phase 8

- 4<sup>th</sup> **EEP Workshop** was held in Hong Kong, China on 18 March 2019 with 41 participants from 9 economies and was focused on transport fuel economy regulations;
  - Final report was endorsed by the EWG.



### Phase 9

- Follow-up PREE** in Peru was held on 18-22 March 2019;
  - Final report was submitted to the Peruvian government.



### Phase 10

- Follow-up PREE in Indonesia is scheduled to be held in the first half of 2020.

## 5.a. (8) PRLCE [⇒12.b.] & LCMT [⇒6.b.]

**Peer Review on Low Carbon Energy Policies (PRLCE)** APERC welcomes eligible economies to volunteer hosting future **PRLCE**.

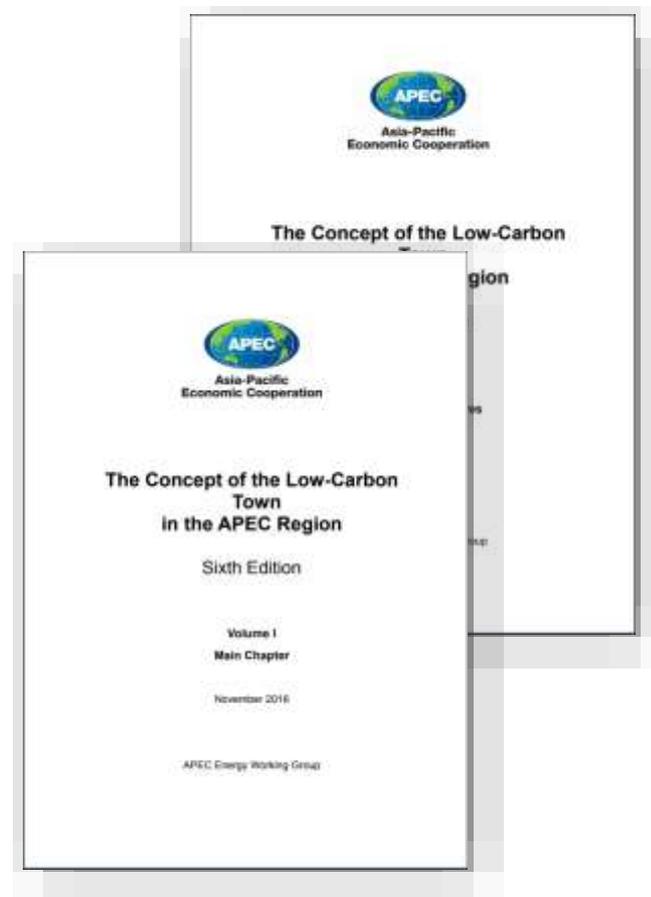
### Low-Carbon Model Town (LCMT)

#### Dissemination Phase 2

- The 3<sup>rd</sup> LCMT Symposium will be held on October 21-22, 2019 in San Borja, Lima, Peru.
- Focused feasibility study (FFS) for **Davao (the Philippines)** and **Da Lat (Viet Nam)** are being conducted by IRSD/KMPG/NSRI.

#### Dissemination Phase 3: under proposal

- The **wrap-up LCMT Symposium** plans to summarise LCMT activities, to be held in **late 2020 in Japan**.
- Three volunteer towns of Dissemination Phase 2: **La Molina (Peru)**, **Khon Kaen (Thailand)**, **Phu Quoc (Viet Nam)** will be conducted FFS by a consulting agency.



# 5.a. (9) Oil and Gas Security Initiative [⇒ 9.b.]

## Oil and Gas Security Exercise (OGSE)

- The 4<sup>th</sup> **OGSE** was held in Santiago, Chile last 18-20 March 2019 hosted by the Ministry of Energy;
- A review team (7 experts and 4 APERC research staffs) was formed for this exercise; **The final report was submitted to the Chilean government.**
- **The 5<sup>th</sup> OGSE is scheduled to be hosted by Thailand in the first half of 2020.**



LNG regasification plant Quintero.

## Oil and Gas Security Studies (OGSS)

- **The latest two studies** were published in the second half of 2019.
  - *Emerging energy security risks in changing global energy landscape, and*
  - *Small-scale LNG in the Asia-Pacific region*

# 5.a. (9) Oil and Gas Security Initiative (Cont'd)

## Oil and Gas Security Network (OGSN)

- The **OGSN Forum** 2019 (5<sup>th</sup> OGSN Forum) was held in Sendai, Japan in 10-12 April 2019;
- 43 participants, including 29 delegates from 16 economies, 4 experts and 10 APERC staffs;
- The 6<sup>th</sup> OGSN Forum will be held in Japan in April 2020.
- Issued 29<sup>th</sup> **OGS Newsletter** as of August 2019. Preparation for the 30<sup>th</sup> issue is ongoing and will be published by the end of October 2019.



## 5.a. (10) Training

- APERC accepts energy modelling **trainees** from developing economies.
  - **A seminar** in Tokyo will be held on 23-31 October 2019.
- APERC also **dispatches experts** to help develop energy data and prepare energy demand and supply outlooks while enhancing 'energy literacy' of future leaders in the APEC region.
  - Aside from the regular trainings held in Tokyo, **three workshops** are scheduled to be held: **2-6 December 2019 in Indonesia, the Philippines (January or February 2020) and Thailand (tentatively in March 2020).**
- **A cooperation course on "Energy Issues in the Asia-Pacific Region"** at Waseda University in Japan is now in its 4<sup>th</sup> year.

# 5.a. (11) APEC Energy Data Management Networks [⇒ 10.a.]

- The EGEDA Training Program on Energy Statistics is now on its 6<sup>th</sup> year.
  - The Short-term training was held on 19-30 August 2019, participants were from Brunei Darussalam; China; Chile; Indonesia; Malaysia; the Philippines; PNG and Viet Nam
  - There were no nominations for the Middle-term training.
- The 17<sup>th</sup> APEC Workshop on Energy Statistics, a joint workshop with JODI was held in Tokyo on 11-13 June 2019. Participants were from 15 APEC members and JODI partners (IEA, IEF, GECF, OPEC and UNSD)



17<sup>th</sup> APEC Workshop on Energy Statistics



EGEDA Short-term training

# 5.a. (12) APERC Research Staff

## APERC has 21 research staff

- Kazutomo Irie (President)
- James Michael Kendell (Senior Vice President)\*
- Munehisa Yamashiro (Vice President)
- David Wogan (Assistant Vice President)\*
- Edito Barcelona
- Ruengsak Thitiratsakul\*
- Elvira Torres Gelindon
- Gigih Udi Atmo\*
- Alexey Kabalinskiy\*
- Fang-Chia Lee\*
- Nguyen Linh Dan\*
- Diego Rivera Rivota\*
- Juan Ignacio Alarcon Marambio\*
- Hugh Marshall-Tate\*
- Christopher James Doleman\*
- Junseon Mun\*
- Fifi Indarwati\*
- Zaharin Zulkifli\*
- Victor Martinez Aranza \*
- Nobuhiro Sawamura
- Takako Hannon

# 5.a. (13) APERC Budget

Unit: million yen

Fiscal Year	1996 9mns	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Revenue from: Japanese Government	374	626	681	729	619	634	594	547	525	528	498	446
Australian Government									8	8	8	
<b>Total of Revenue</b>	<b>374</b>	<b>626</b>	<b>681</b>	<b>729</b>	<b>619</b>	<b>634</b>	<b>594</b>	<b>547</b>	<b>533</b>	<b>536</b>	<b>506</b>	<b>446</b>
Expenses:												
Energy Efficiency/APEC Demand & Supply Outlook/ Related Research Programmes Oil & Gas Security	227	443	494	550	455	469	434	390	379	377	377	338
Energy Data Network & Know- How Transfer	147	183	187	179	164	165	160	157	154	159	129	108
<b>Total of Expenses</b>	<b>374</b>	<b>626</b>	<b>681</b>	<b>729</b>	<b>619</b>	<b>634</b>	<b>594</b>	<b>547</b>	<b>533</b>	<b>536</b>	<b>506</b>	<b>446</b>

Fiscal Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 (plan)
Revenue from: Japanese Government	447	418	409	425	494	580	657	653	689	672	672	672
<b>Total of Revenue</b>	<b>447</b>	<b>418</b>	<b>409</b>	<b>425</b>	<b>494</b>	<b>580</b>	<b>657</b>	<b>653</b>	<b>689</b>	<b>672</b>	<b>672</b>	<b>672</b>
Expenses:												
Energy Efficiency/APEC Demand & Supply Outlook/ Related Research Programmes Oil & Gas Security	339	318	315	308	325	325	432	501	522	423	388	423
Energy Data Network & Know- How Transfer	107	100	94	94	86	68	107	68	183	124	161	119
							100	97	91	86	73	86
<b>Total of Expenses</b>	<b>447</b>	<b>418</b>	<b>409</b>	<b>402</b>	<b>411</b>	<b>500</b>	<b>600</b>	<b>781</b>	<b>737</b>	<b>670</b>	<b>580</b>	<b>672</b>

# 5.a.(14) Legal Status of APERC

## Current Legal Status of APERC

- APERC was created in 1996.
- At that time, Japan's laws were strict on establishment of incorporated foundations, such as securing a substantial basic fund.
- So it was very difficult for APERC to be established as an independent incorporated foundation at that time.
- Therefore, APERC was established as an affiliate to the Institute of Energy Economics, Japan (IEEJ) which already existed as one of the incorporated foundations.

# 5.a.(14) Legal Status of APERC

## Future Legal Status of APERC

- However, Japan's laws on incorporated foundations were largely relaxed in 2008. With a small initial fund, a nonprofit organisation can become an incorporated foundation.
- Considering such changes, APERC decided to become independent from IEEJ by establishing new incorporated foundation.
- Legally speaking, IEEJ established a new incorporated foundation, "APERC", and will transfer its APERC activities to the new foundation on April 1, 2020, if the Japanese Government approves the transfer.
- Revision of the Terms of Reference (TOR) of APERC will be proposed when the Japanese Government approves the above-mentioned transfer.



**Thank you for your kind attention.**

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