



**Asia-Pacific
Economic Cooperation**

2018/EWG56/011a
Agenda Item: 5a

Asia Pacific Energy Research Centre President's Report

Purpose: Information
Submitted by: APERC



56th Energy Working Group Meeting
Lima, Peru
6-7 November 2018



The 56th Meeting of APEC Energy Working Group (EWG)
Lima, Peru, 6-7 November, 2018

5.a. APERC President's Report

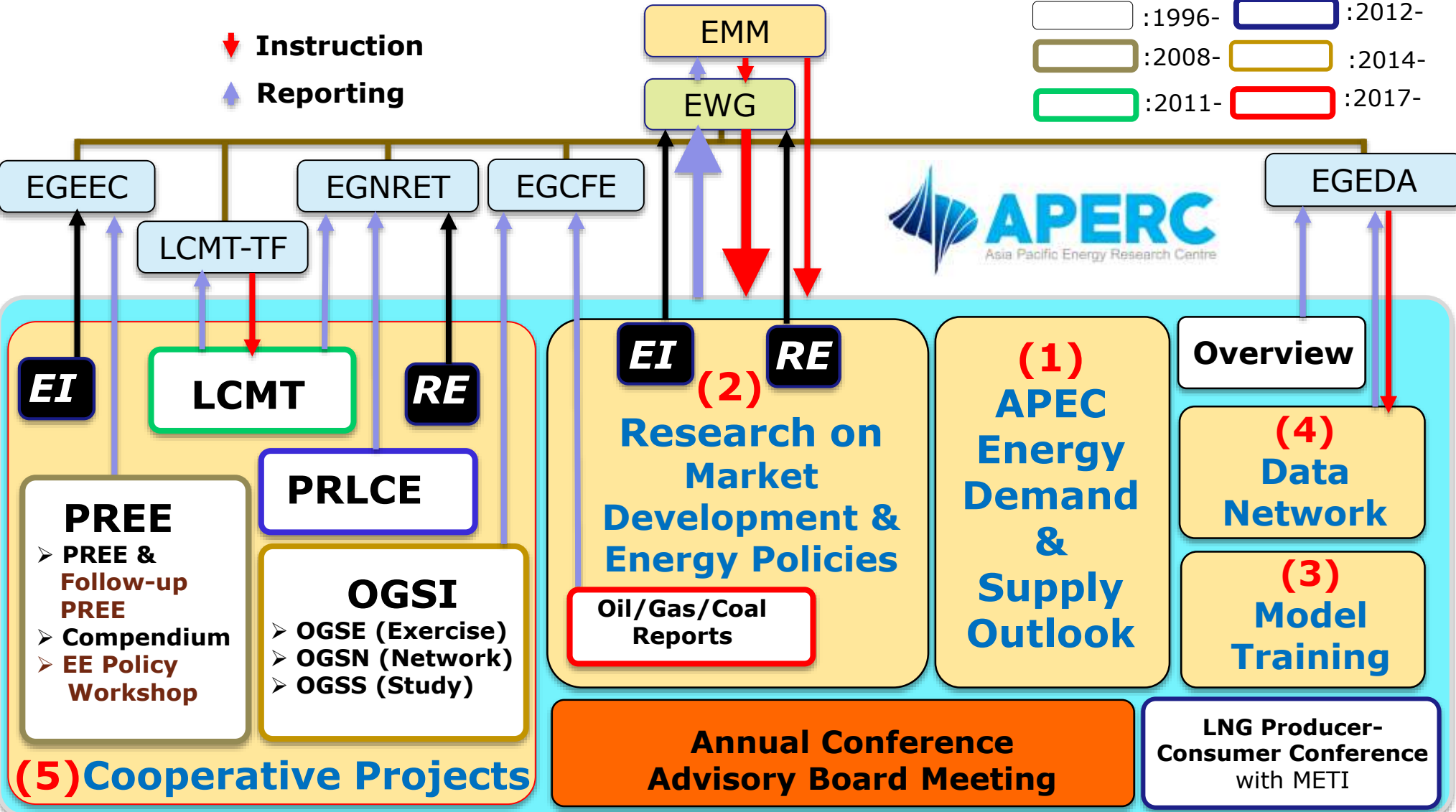
Kazutomo IRIE, Phd
President, APERC



5.a. (1) APERC Activities Overview

▼ **Instruction**
▲ **Reporting**

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



5.a. (2) APERC Tasks and Activities in 2018

- Continue to meet the current acute needs of APEC member economies by choosing appropriate research themes including preparation for the 7th 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 7th edition is underway and builds on enhanced engagement with energy experts in economies initiated during 6th edition Outlook roadshow.**
- **Economy input:** Valuable feedback received during preliminary results review will help to improve APERC analysis. Further feedback on text will be needed this year.
- **3 Scenarios :** Business as Usual (current policies); APEC Target (combines Intensity Goal with Doubling RE Goal); and 2 Degree Scenario (consistent with 2°C increase).
- **Timeline:** Aug-Sept 2018 draft version sent to EWG and experts for its review; April 2019 publication release at EWG 57.

5.a. (4) 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**'.
 - In 2014, "**Energy Intensity Analysis**" on year-on-year progress for each economy was included as agreed by EGEDA.
 - In response to the EGNRET request to monitor RE share development, "**RE Share Analysis**" was included in the Overview 2017 edition.
 - The APEC goals analyses were included in the Executive Summary
 - The 2017 Edition was published in June 2018 and is available at:
https://aperc.ieej.or.jp/file/2018/6/7/APEC_Energy_Overview_2017.pdf
- * APERC appreciates the contributions and assistance by EWG and EGEDA members.*

5.a. (5) Trainees and Experts

- **APERC accepts energy modelling trainees from developing economies.**
 - **A seminar in Tokyo will be held on 5-13 November 2018**
- **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.**
 - **In FY 2018, 2 workshops were held in Chinese Taipei and Indonesia**
 - **A cooperation course on "Energy Issues in the Asia-Pacific Region" at Waseda University in Japan is now in its third year.**



5.a. (6) APEC Energy Data Management Networks [⇒ 9.a.]

- The 6th Meeting of Heads of JODI Partner Organizations was held in New Delhi, India on 10 April 2018.
- The EGEDA Training Program on Energy Statistics is now on its fifth year.
 - Short-term training was held on 20-31 August 2018 with 11 trainees from 8 economies and the ASEAN Centre for Energy.
 - Middle-term training started on 20 August and finished on 12 October 2018.
- The 16th APEC Workshop on Energy Statistics was held in Tokyo on 10-12 July 2018 with participants from 16 member economies and 4 invited international organisations.
- The APEC Energy Statistics 2016 and the APEC Energy Handbook 2016 were published in October 2018.



(GECF)

5.a. (7) Cooperative Activities

2007

2018

2019

PREE	1.NZ	2.CHL	3.VN	4.THA	5.CT	6.PE	7.MAS	8.INA	9.RP	10.BD	11.MEX	12.RUS (TBC)
FU PREE							1.VN		2.RP	3.THA	4.MAS	5.PE (TBC)
PRLCE				1.THA	2.RP		3.INA	4.MAS	5.VN	6.PNG		
LCMT			1.Yujiapu PRC	2.Samui THA	3.Da Nang, VN	4.San Borja PE	5.Bitung INA	6.Mandaue RP	7.Krasnoyarsk RUS			
LCMT Symposium									1.Jakarta INA	2.Da Nang VN	3.San Borja PE (TBC)	
LCMT Dissemination									1.Band Aceh, INA	1.Hang Tuah Jaya, MAS	1.Shah Alam, MAS	
OGSE						SE Asia	INA	launched OGSI	1.RP	2.AUS	3.PE	4.CHL
OGSNF								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**

EMM9

**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) Cooperative Activities (cont'd)

Peer Review on Energy Efficiency (PREE) [⇒10.c.]

Phase 7

- **Follow-up PREE in Malaysia**

- **Date: 26-30 March 2018**
- **Focus: Land transportation and thermal energy use in industry**
- **Participants: 64 (incl. review team) from 6 Ministries, 8 government agencies and 8 industries association, etc.**
- **Final report to be published by the end of 2018.**



- **3rd EEP Workshop in USA**

- **Date: 10 April 2018**
- **Focus: Conformity assessment**
- **Participants: 29 from 11 economies**



5.a. (7) Cooperative Activities (cont'd)

Peer Review on Low Carbon Energy Policies (PRLCE) [⇒11.c.]

- APERC welcomes eligible economies to volunteer hosting future PRLCE.

Low-Carbon Model Town (LCMT) [⇒6.b.]

Phase 7

- Policy Review for Krasnoyarsk City, Russia was held on 5-7 December 2017. The Report was published on 28 September 2018.

Dissemination Phase 1

- The 2nd LCMT Symposium was held in September 2018 in Da Nang, Viet Nam.

Dissemination Phase 2

- The 3rd LCMT Symposium is planned to be held in 2019 in San Borja, Peru.



5.a. (7) Cooperative Activities (cont'd)

LCMT Policy Review team recommendations for Krasnoyarsk City, Russia

Town structure	Rec. 1: Introduce a network between multi-core strategic development zones
Buildings	Rec. 7: Work closely with federal/regional agencies to develop a mechanism to enhance compliance with building energy efficiency codes
Transportation	Rec. 15: Restructure and strengthen the public transport network
Area Energy Systems & Multi-energy Systems	Rec. 23: Implement research projects to improve understanding of energy use and efficiency for each activity and level of energy services (comfort, light, food preservation, entertainment, cooking etc.) provided, especially in non-industrial businesses and residential sector.
Untapped Energy	Rec. 30: Promote the use of waste heat in the industries
Renewable Energy	Rec. 33: Support renewable energy data collection
Building and Area Energy Management	Rec. 38: Establish capabilities in government, academia and businesses to track and model the evolution of energy... as well as their potential impacts on existing energy infrastructure and institutions, and societal costs and benefits of change.
Greenery	Rec. 46: Promote planting and permeable paving
Water and waste management	Rec. 50: Implement the water resource management system, establish the total water use control and water efficiency control
Pollution	Rec. 55: Develop the circular economy, realize the transformation from terminal management to source and process control
Policy framework	Rec. 62: Coordinate closely with relevant divisions within the Krasnoyarsk City
Education and management	Rec. 65: Enhance environmental education activities in compulsory education to build a common sense

Oil and Gas Security Exercise (OGSE) 2019 in Santiago, Chile

- **Date: 18-20 March 2019**
- **APERC is currently planning and assembling the APEC Expert Team for undertaking this exercise.**



Sunset in Santiago, Chile.



LNG regasification plant Quintero.



Elqui Valley, Chile.

APERC has 23 research staff

- Kazutomo Irie(President)
- James Michael Kendell (Senior Vice President)*
- Munehisa Yamashiro (Vice President)
- Melissa Christenberry Lott (Assistant Vice President) *
- Kaoru Yamaguchi
- Edito Barcelona
- Goichi Komori
- Elvira Torres Gelindon
- Takashi Otsuki
- Takako Hannon
- Ruengsak Thitiratsakul*
- Gigih Udi Atmo*
- **HyunJoo Song***
- Muhamad Izham ABD. Shukor*
- Alexey Kabalinskiy*
- Atikah Ismail*
- Fang-Chia Lee*
- Nguyen Linh Dan*
- Diego Rivera Rivota*
- Thomas Willcock*
- Juan Ignacio Alarcon Marambio*
- **Hugh Marshall-Tate ***
- **Jun Fang***

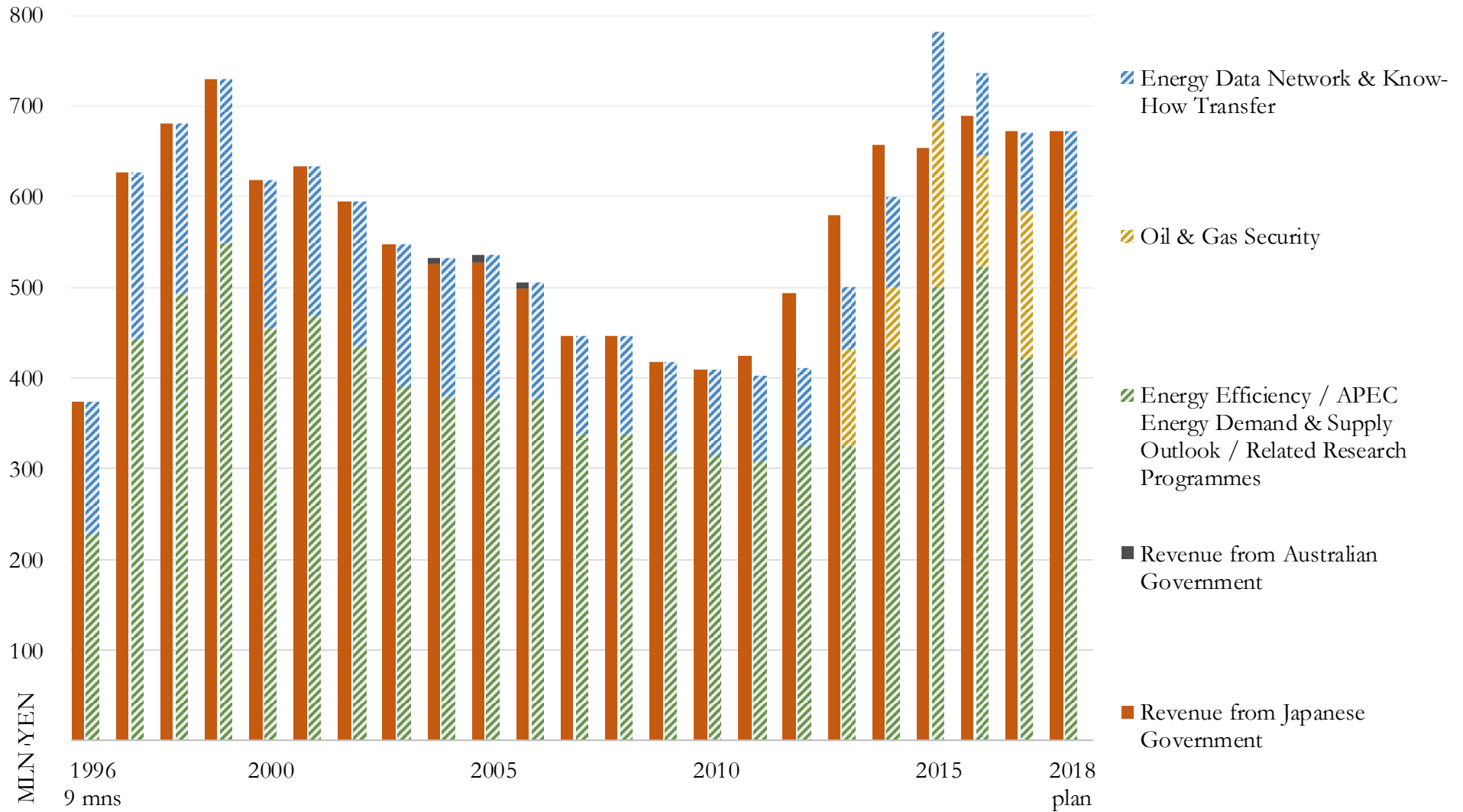
*15 visiting researchers

5.a. (10) APERC Budget

Unit: million yen

Fiscal Year	1996 9mns	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 (plan)
Revenue from:																							
Japanese Government	374	626	681	729	619	634	594	547	525	528	498	446	447	418	409	425	494	580	657	653	689	672	672
Australian Government									8	8	8												
Total of Revenue	374	626	681	729	619	634	594	547	533	536	506	446	447	418	409	425	494	580	657	653	689	672	672
Expenses:																							
Energy Efficiency/APEC Energy Demand & Supply Outlook/ Related Research Programmes	227	443	494	550	455	469	434	390	379	377	377	338	339	318	315	308	325	325	432	501	522	423	423
Oil & Gas Security																		107	68	183	124	161	163
Energy Data Network & Know-How Transfer	147	183	187	179	164	165	160	157	154	159	129	108	107	100	94	94	86	68	100	97	91	86	86
Total of Expenses	374	626	681	729	619	634	594	547	533	536	506	446	447	418	409	402	411	500	600	781	737	670	672

5.a. (10) APERC Budget





Thank you for your kind attention

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