



PREE Project update Phases 7, 8 and 9

The 54th Meeting of the Expert Group on Energy Efficiency and Conservation (EGEE&C)

Cebu, Philippines, 23th September

Hugh MARSHALL-TATE, Researcher



- 1. Background of Peer Review on Energy Efficiency (PREE)
- 2. APEC PREE Phase 7 (EWG 08 2017A)
- 3. APEC PREE Phase 8 (EWG 02 2018A)
- 4. APEC PREE Phase 9 (EWG 08 2018A)
- 5. Energy Efficiency Policy Workshop in Hong Kong



PREE introduction and background

- Initiated by APEC Energy Ministers' 2007 Darwin Declaration.
- Broad review of energy efficiency policies of a volunteer APEC economy carried out by a Review Team of experts to provide recommendations on potential improvements.
- PREE has been hosted by 11 economies:

 Chile, New Zealand, Viet Nam, Thailand, Chinese Taipei, Peru, Malaysia, Indonesia, The Philippines, Brunei Darussalam and Mexico.

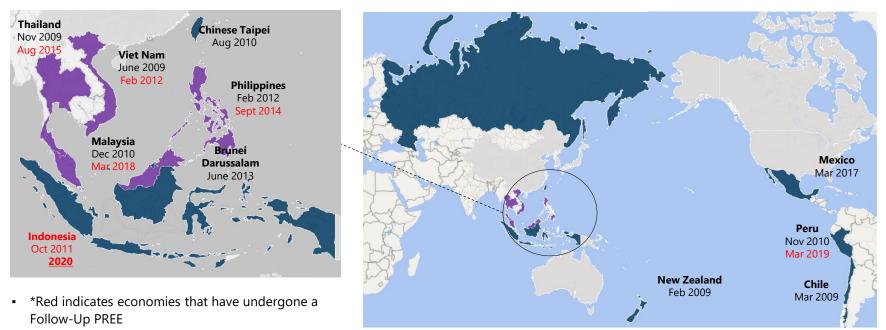
- Follow-up PREE hosted by five economies:
 - Viet Nam, The Philippines, Thailand, Malaysia and Peru.

http://aperc.ieej.or.jp/publications/reports/pree.php



PREE Background

Past PREE and Follow-Up PREE



 PREE is currently is in its 10th phase. So far, four Follow-Up PREE have been conducted, in Southeast Asia and one in Peru. The next PREE will be conducted in Indonesia [TBC].



Objectives of PREE

- Share information on energy efficiency energy performance as well as on policies and measures for improving and promoting energy efficiency in APEC economies;
- Provide opportunities for learning from the experiences of other economies and for broadening the network among energy efficiency policy experts;
- Explore how energy efficiency goals on an overall and/or sectoral basis and action plans could be effectively formulated in each economy under review...
- Monitor progress on attaining energy efficiency goals on an overall and/or sectoral basis and implementing action plans...
- **Provide recommendations** for voluntary implementation on how implementation of action plans could be improved with a view to achieving energy efficiency goals.



- 1. PREE Phase 7 in Malaysia (EWG 08 2017A)
 - Reported to EWG 55 and EGEEC 52
 - Final completion report submitted in April 2019
 - The report is available on APEC website
- 2. APEC PREE Phase 8 in Russia (EWG 02 2018A)
 - Canceled due to the restructuring in the Russian Government
 - Energy Efficiency Policy Workshop in Hong Kong





PREE Phase 9

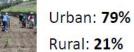


Basic information about Peru

- Capital City: Lima
- Area: 1,285,220 km² (19th)
- **Population:** 28,674,000 (43)
- Net gas exporter.
- Net crude oil and oil products importer.



Male: 49 % Female: 51%



Rural: 21%

Natural Gas Access: 30% (Lima)



GDP Percapita US\$ 6,599



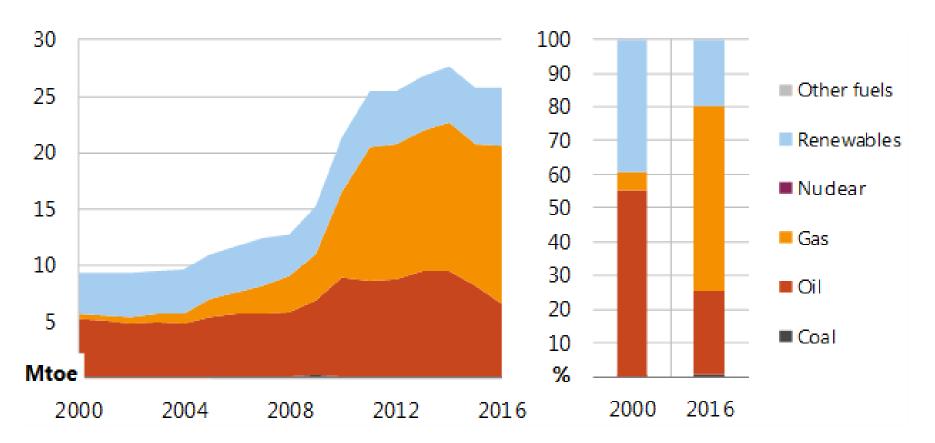
Buy: 3.25 Sell: 3.25



Electricity Access: 95 % (National)



Primary energy production more than doubled from 2005 to 2016 owing to the development of the Camisea field



Peru is a net gas exporter (all of it via LNG). Rapidly growing transport demand has driven oil products imports up, growing more than five-fold from 2005 to 2016.



Follow-Up PREE in Peru

- The Review Expert Team and 4 APERC research staff visited Peru on March 18-22, 2019.
- 3 days of workshop, 1 day of site visit and 1 day of recommendations, preparation and presentation to the Peruvian government.
- Around 40 participants and 26 presentations from the 12 of the most relevant stakeholders in energy efficiency in Peru.





The Review Expert Team was composed by 6 experts from 5 APEC economies

Dr. Terry Surles

California Institute for energy and environment at Berkeley University, USA Senior advisor

• Energy efficiency goals, targets and strategies

• Data collection and monitoring

Tali Trigg

German Corporation for International Development (GIZ) Consultant • Transport

Dr.Viritphol Vacharapanich

Professional Engineer Ministry of Energy, Thailand • Electricity

Pramesh Maharaj

Energy Efficiency and Conservation Authority (EECA), New Zealand Programme Manager-Industrial • Industry





Santiago Creuheras Diaz

Former Director General for Energy Efficiency at the Ministry of Energy, Mexico Independent consultant • Institutional and regulatory framework

Dr. William Chung

City University of Hong Kong, Hong Kong, China Associate professor • Labelling and standards

Follow-Up PREE in Peru

- The Review Expert Team gave 47 recommendations on 6 subsectors.
- APERC drafted the Follow-up PREE report and submitted it to the APEC Secretariat in September 2019.





Conclusion

- While Peru has made significant efforts in developing energy efficiency policies for the past 20 years, global and domestic trends in this field demand an acute and strategic modernisation.
- Some of the key policy recommendations include:
 - Revising the institutional framework on EE policy
 - Allocating more budgetary funds and finding alternative source of financing for EE projects.
 - Strengthening data collection, analysis and EE indicators.
 - Introduce labelling for vehicles, further integrating public transport systems in Lima and promoting electro-mobility.
 - Engaging industrial energy consumers, promoting energy management awards and recognition awards.
 - Develop performance certification standards for labelling.





Energy Efficiency Policy workshop (PREE 8)



APEC Energy Efficiency Policy Workshop

- Part of the PREE program and designed to complement PREE by focusing on one key aspect of Energy Efficiency policy.
- Run in conjunction with one of the biannual EGEEC meetings
- Lead by an external expert consultancy, with input from other domain experts
- Policy experiences and perspective from energy efficiency policy makers.
- Funding for participants from 6 travel-eligible economies
- Outcomes are published on the APEC website in a workshop report



Past EEP Workshops

- Current format started in 2014
- Previous topics have included
 - 2018-Conformity Assessment
 - 2017-Policy and Program Evaluation II
 - 2016- An introduction to Policy and Program Evaluation
 - 2015- Government and donor funding mechanisms



EEP Workshop on Fuel Economy Regulations

Held in in conjunction with EGEE&C 53 in Hong Kong, China

There were 41 participants in the Workshop from nine APEC economies and 19 Organisations

Delivered by Elizabeth Yeaman of Retyna

Key themes:

- » APEC Transport energy demand and GHG emissions
- » Vehicle fuel economy policy
- » Testing protocols
- » Policy drivers
- » Policies in APEC economies
- » Advanced Vehicles

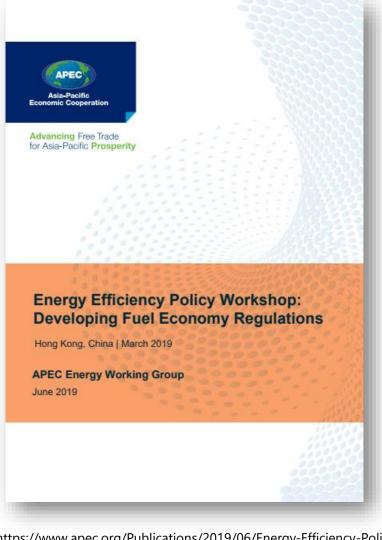
Workshop Agenda

Mr. Vy Ek Chin ,Hong Kong, China
Mr. Pengcheng Li, China
Hugh Marshall-Tate
Alexey Kabalinskiy
Elizabeth Yeaman
Luz Ubilla, Ministerio de Energía, Chile
Andrew Campbell
lr. Raymond CHOI, Hong Kong Power
Andrew Campbell
Elizabeth Yeaman



EEP Workshop Reports

A full summary of the Workshop is available in the workshop report published on the APEC website





https://www.apec.org/Publications/2019/06/Energy-Efficiency-Policy-Workshop

Economy feedback is being sought for topic selection.

To be held alongside EGEE&C 55 in the first half of 2020.

- Some topics proposed in the past include:
 - Policy roadmap development
 - EE in Industry implementation of BATs (Best Available Technologies)
 - Behavioural economics influencing responses.
- Any suggestions?
- If not, please consult with your economy representative and send feedback (as soon as possible) to: hugh.marshalltate@aperc.ieej.or.jp





Thank You

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

