



**Asia-Pacific
Economic Cooperation**

2017/EWG54/020

Agenda Item: 12b

Peer Review on Low-Carbon Energy Policies

Purpose: Information
Submitted by: APERC



**54th Energy Working Group Meeting
Wellington, New Zealand
22-23 November 2017**



The 54th Meeting of APEC Energy Working Group (EWG)
Wellington, New Zealand, 22-23 November, 2017

12.b. Peer Review on Low-Carbon Energy Policies (PRLCE)

Takato OJIMI
President, APERC



PRLCE is designed to:

- **promote low-carbon energy policies on supply side like PREE on demand side;**
- **promote low-emission power sources such as renewable energy, nuclear and fossil fuel with CCS; and**
- **provide recommendations for the host economy.**

12.b. (2) Progress of PRLCE

- **Phase 1 (2012-2013): Thailand, the Philippines**
- **Phase 2 (2013-2014): Indonesia, Malaysia**
- **Phase 3 (2014-2016): Viet Nam**
- **Phase 4 (2017-2018): Papua New Guinea**



The Peer Review Report is available at:

<http://aperc.ieej.or.jp/publications/reports/prlce.php>

12.b. (3) PRLCE in PNG

- Conducted on 1-4 August 2017 with focus on **hydropower** resources
 - **23 participants** from PNG (Dept. of Petroleum and Energy, Climate Change Development Authority, New Britain Palm Oil Ltd., PNG Power Ltd., World Bank, etc.) and **7 experts** attended.
 - Some of the highlights include:
 - PNG has set an ambitious renewable energy goal of **100% by 2050**; an intermediary target of serving all new load with renewable energy by 2030 and to enable **70%** of its population access to electricity by 2030;
 - PNG faces several challenges to achieve the goals; and
 - Reach in RE sources but mostly are still not developed.
- ❖ *Final draft report is still undergoing the usual EWG process of approval*

12.b. (3) PRLCE in PNG (cont'd)

- The peer review team came up with **44 recommendations** (TBC).
- The draft report was sent to the host for endorsement in October 2017.

	Peer-review Contents	Leading Review Expert	Number of Recommendations
	Review Team Leader	Mr. Takato Ojimi (APERC)	
1	Overarching Findings	Ms. Elvira Torres Gelindon (APERC)	7
2	Institutional Context	Dr. Kazutomo Irie (APERC) Ms. Lay Hui Teo (APERC)	6
3	Renewable Energy Goals, Targets and Strategy	Mr. Stephen C. Walls (USA)	3
4	Regulation and Infrastructure		4
5	Bioenergy - Biofuels, Biomass	Dr. Nuwong Chollacoop (THA)	1
6	Hydropower and Ocean Energy	Mr. Faisal Rahadian (INA) Mr. Andresito Ulgado (RP)	1
7	Solar PV	Dr. Fu-Ming Lin (CT)	2
8	Geothermal Energy	Mr. Andresito Ulgado (RP)	1
9	Wind Energy	Dr. Dennis Y.C. Leung (HKC)	6
10	Power Supply System, Smart Grid, Private Participation	Mr. David Rohan (NZ)	5
11	Greenhouse Gas Management	Dr. Dennis Y.C. Leung (HKC)	8
	Total		44

12.b. (3) PRLCE in PNG (cont'd)

Recommendations made by the peer review team are (TBC):

Overarching Findings	Recommendation 1: Conduct survey.
Institutional Context	Recommendation 8: Ensure sufficient human resources to drive energy policies.
Renewable Energy Goals, Targets and Strategy	Recommendation 14: PNG should focus attention and resources on a near-term action plan to develop the lowest cost renewable resource available near load centres.
Regulation and Infrastructure	Recommendation 17: PNG should rely on internationally-recognised standards when establishing new regulations covering the performance of technology.
Bioenergy - Biofuels, Biomass	Recommendation 21: Take best practices from other APEC economies regarding biofuel implementation.
Hydropower and Ocean Energy	Recommendation 22: Enact a law that provides policy direction and incentives on developing hydropower and ocean resources.
Solar PV	Recommendation 23: Establish solar energy demonstration projects at school campuses.
Geothermal Energy	Recommendation 25: Enact a law that provides policy direction and incentives on developing geothermal energy resources.
Wind Energy	Recommendation 26: Early planning of wind turbines installation
Power Supply System, Smart Grid, Private Participation	Recommendation 32: The investment focus should move from individual 'least-cost generation projects' to a 'least-cost generation portfolio' approach.
Greenhouse Gas Management	Recommendation 37: Expedite the implementation of National Climate Change Policy, and formulation of National Energy Policy (NEP).

12.b. (4) Future Plan of PRLCE

- The importance of PRLCE is increasing in relation to the **APEC's aspirational goal of doubling the share of renewables in the APEC energy mix.**
- **APEREC welcomes all eligible economies to volunteer hosting future PRLCE. If interested, please contact: master@aperc.ieej.or.jp.**



Thank you for your kind attention

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