

**APEC Expert Group on
New and Renewable Energy Technologies**

Welcome to EGNRET 45



**Asia-Pacific
Economic Cooperation
EGNRET**

Recent APEC Activities

November 16, 2015

Dr. Chang Chung Yang



Asia-Pacific
Economic Cooperation

EGNRET

EGNRET 44: Apr. 13-14, 2015 in Laoag, Ilocos Norte, Philippines

*Meeting Theme: Strategy and Roadmap for PV Systems in Each
APEC Economy*

- **Invited presentations:**

- **APEC Secretariat:** APEC Updates/APEC Project Approval Processes and Guidelines
- **APERC:** Attaining Doubling Goal by 2030 (Outlook 6th)
- **EGEDA:** Data Collection of New and Renewable Energy in APEC Energy Statistics
- **IRENA:** Accelerating the Growth of Renewable Energy
- **ICA:** ICA's Programs on Renewable Energy

Meeting presentations are available on the EGNRET website:

<http://www.egnret.ewg.apec.org/meetings/egnret44/index.html>

- **Representatives from 7 economies in EGNRET 44.**
- **Topics discussed in EGNRET 44 meeting:**
 - **The Trend of Renewables under Low Oil Price Circumstances**
 - IRENA - Renewable Power Generation Costs in 2014 : Future cost of reductions in Renewable Energy will be more challenging
 - **Toward RE Doubling Goal by 2030**
 - Sustainable Energy for All(SE4ALL) - Double the share of renewable energy in the global energy mix by 2030.
 - A doubling of the share of renewables worldwide does not mean a doubling in every country.
 - EGNRET 43: RE Definition - especial for traditional biomass and large hydro
 - How to fill the gap to reach the RE Doubling Goal
 - **Updated APEC Project Submission Process**
 - The updated Project Submission Process was announced in July 8, 2015.

Group photo of EGNRET 44 in Laoag, Ilocos Norte, Philippines



APEC-EGNRET 44th MEETING

Fort Ilocandia Resort Hotel

Laoag City, Ilocos Norte, Philippines

April 13-16, 2015

Media Press on APEC EGNRET 44th Meeting



Luzon News

Saturday, April 18, 2015

Luzon grid powered up - solon

By **CHARISSA M. LUCI**
and **FREDDIE G. LAZARO**

The House Committee on Energy is not anticipating brownouts until the end of April as the Luzon grid has an average of 1,500 megawatts (MW) power reserves, which can be tapped in the middle of the dry season.

"We are happy to announce that from March 15 up to the present (during the period of Malampaya shutdown), we have not experienced any brownouts," said Oriental Mindoro Rep. Reynaldo Umali, who chairs the committee.

"We are not yet talking of Interruptible Load Program which is close to ,000 MW. We have not spent a single centavo to address the impending power crisis," he added as he spoke at a forum earlier this week.

The House leader expressed confidence that there will be no power interruption this month, citing that a total of 2,600 megawatts are available in case there is power shortfall.

The ILP is tapped during a red alert status or minimal power reserve in the grid, according to Energy Regulatory Commission (ERC) protocols.

BANGUI WIND FARM — Delegates of the 44th meeting of the Expert Group on New Renewable Energy Technology (EGNRET) of the Asia-Pacific Economic Cooperation (APEC), chaired by Dr. Chung-Shien Chen (seventh from right) of Chinese Taipei and co-chaired by Director Mario Marasigan (ninth from right) of the Philippines, pose before the line-up turbines of the 52-megawatt capacity Bangui Wind Farm in Ilocos Norte last Thursday. (Freddie G. Lazaro)



Renewable energy outlook

Meanwhile in Ilocos Norte, energy experts were urged to share successful renewable energy (RE) development practices among the Asia-Pacific Economic Cooperation (APEC) member economies to attain the goal of doubling RE projects by 2030.

Director Mario Marasigan, of the Department of Energy's (DOE's) Renewable Energy Management Bureau who co-chairs the APEC Expert Group

on New Renewable Energy Technology (EGNRET), said it is important for member economies to share their RE roadmap for the members may learn or can replicate from their practices.

The expert group held its four-day EGNRET 44th Meeting on April 13-16 at the Fort Ilocandia Resort Hotel in Laoag City with an overview of the RE programs in the Philippines.

One of the presenters, the Asia Pacific Energy Research Center (APERC),

gave an outlook in doubling RE targets in the next 15 years.

Chrisnawan Andliya of APERC said RE share to total installed capacity would have increased from 22 percent in 2012 to 33 percent in 2030 and 38 percent in 2040.

China is said to provide the largest share with 45 percent in 2012, 63 percent in 2030, and 68 percent in 2040 to total APEC renewable energy capacity.

The APERC data also showed that the Philippines is among the top five economies along with the United States, Indonesia, New Zealand, and Mexico with total installed capacity of geothermal power by 2030.



National News

Wednesday, April 15, 2015



ASIA-PACIFIC'S RENEWABLE ENERGY EXPERTS — The 21 delegates of the 44th Meeting of the Expert Group on New Renewable Energy Technology (EGNRET) of the Asia Pacific Economic Cooperation (APEC), chaired by Dr. Chung Shien Chen (third from left) of Chinese Taipei pose with Ilocos Norte Gov. Imee Marcos in front of the UNESCO-recognized St. Augustine Church in Laoag town after their welcome dinner the other night. The four-day meeting hosted by the country in Fort Ilocandia, Laoag City until tomorrow aims to strengthen the programs and potentials for the use of renewable energy in the Asia-Pacific region ahead of the APEC Summit in the Philippines later this year. (Freddie G. Lazaro)

APEC Activities Since EGNRET 44



22 - 26 Jun 2015	49th Meeting of the Energy Working Group	Gyeongju, Korea
31 Aug - 3 Sep 2015	27th Meeting of APEC Expert Group on Energy Data and Analysis	Chinese Taipei
31 Aug - 3 Sep 2015	46th Experts Group on Energy Efficiency and Conservation Meetings	Cebu, Philippines
13 - 14 Oct 2015	12th APEC Energy Ministerial Meeting	Cebu, Philippines
16 - 20 Dec 2015	50th Energy Working Group Meeting	Honolulu, USA

EWG 49 in Gyeongju, Korea

- The EWG Secretariat, rolled out a new internal project proposal process.
 - Concept notes will be submitted first through the expert groups, and then reviewed by EWG membership and scored at EWG meetings.
 - Ensure that projects are aligned with the Ministers' and Leaders' goals and priorities and the EWG Strategic Plan.
- EGNRET operation progress was noted in the EWG 49
 - EGNRET plans to develop a roadmap in collaboration with other APEC subgroups, IRENA and other organizations to help fill the gaps for reaching the renewable goal.
 - The roadmap aims to help renewable energy promotion in APEC with different renewable energy capacities.

CEBU DECLARATION in Cebu, The Philippines

Theme: "Towards an Energy Resilient APEC Community."

- We affirm the importance of energy resiliency in promoting energy security and sustainable development and providing access to the people, especially under natural and man-made disasters.
- We affirm the importance of promoting energy trade and investment frameworks to regional energy security and to sustainable economic growth.
- We encourage members to improve the robustness of their energy infrastructure and policy, through capacity building, sharing of information, and promoting best-practices as appropriate. We also encourage to promote energy supply diversity and energy efficiency and to reduce barriers to energy trade and investment in advancing resilience of the energy sector.

CEBU DECLARATION in Cebu, The Philippines

- We commend the significant progress of the APEC Low-Carbon Model Town Project where the concept and the indicators for APEC Low-Carbon Town are being developed.
- We recognize the progress made by APEC Sustainable Energy Center (APSEC) in completing its institution building. We encourage APEC economies to support the work of this new institution.
- We will strive to attain APEC's aspirational goal of doubling the share of renewables in the APEC energy mix, including in power generation, from 2010 levels by 2030.

Energy Working Group Strategic Plan From 2014 to 2018



Develop Cleaner Energy Sources:

- EWG supports the UN Secretary General's SE4ALL initiative by endeavoring to double the share of renewables from 2010 levels in the APEC energy mix, including in power generation, by 2030 and increasing the number and type of renewable energy projects.
- Conduct renewable energy resource assessments to facilitate a thorough understanding of renewable energy resource availability in APEC Member Economies.
- Engage in clean energy technology assessment and related activities to demonstrate the cost-effectiveness of clean energy applications.
- Facilitate improved reliability and stability in the provision of clean energy supply to meet demand.

EWG Proposed Work Plan for 2015



- The EWG plans to accelerate efforts on renewable energy to help meet the new aspirational goal endorsed by the Leaders' in 2014 to double the share of renewable energy in APEC's energy mix by 2030.
- The EWG is developing projects and activities to promote innovation, reduce costs and improve sustainability of renewable energy to support this goal for the APEC region as a whole.
- Specific activities may include capacity building for equipment installers and auditors, helping policymakers set renewable targets and reach their goals, improving data gathering such as resource mapping, conducting a Peer Review on Low Carbon Energy Policies (PRLCE), and other areas to share lessons learned and develop best practices.
- The EWG will seek collaboration with international partners such as the International Renewable Energy Agency (IRENA) and ASEAN to implement a set of new projects.

Current Program Director for EWG



**Ms. Penelope Howarth,
Program Director, APEC Secretariat**

E-mail: ph15@apec.org

Effective 1 April 2015

Thank you for your attention!



EGNRET website: <http://www.egnret.ewg.apec.org/>

APEC Energy Working Group
EXPERT GROUP ON NEW AND RENEWABLE ENERGY TECHNOLOGIES



Asia-Pacific Economic Cooperation

Home Representatives Projects Meetings Workshops Reports Publications Reference

WELCOME

Welcome to the official website of the APEC Expert Group on New and Renewable Energy Technologies (EGNRET)

The EGNRET has been established by - and reports - to the APEC Energy Working Group (EWG)

The mission of the EGNRET is to facilitate an increase in the use of new and renewable energy technologies in the APEC region



News **Meetings** **Contacts**

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EGNRET website:

<http://www.egnret.ewg.apec.org/>



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EXPERT GROUP ON NEW AND RENEWABLE ENERGY TECHNOLOGIES



Asia-Pacific Economic Cooperation

[Home](#) [News](#) [Projects](#) [Meetings](#) [Workshops](#) [Reports](#) [Publications](#) [TOR](#) [Related Websites](#)

Meetings

Date	Meeting Number	Meeting Location	Documents
Nov. 12-13, 2014	EGNRET 43	Chiang Mai, Thailand	View documents
April 7-8, 2014	EGNRET 42	Hawaii, USA	View documents
October 14-19, 2013	EGNRET 41	Beijing, China	View documents
April 2-5, 2013	EGNRET 40	Ha Noi, Viet Nam	View documents
December 11-14, 2012	EGNRET 39	Shanghai, China	View documents
June 18-20, 2012	EGNRET 38	Wellington, New Zealand	View documents
August 22-26, 2011	EGNRET 37	Taipei, Chinese Taipei	View documents
February 28-March 4, 2011	EGNRET 36	Washington, DC, United States	View documents
October 13-15, 2010	EGNRET 35	Tokyo, Japan	View documents
April 26-28, 2010	EGNRET 34	Kuala Lumpur, Malaysia	View documents
October 5-6, 2009	EGNRET 33	Taipei, Chinese Taipei	View documents
April 01-03, 2009	EGNRET 32	Honolulu, Hawaii, USA	View documents
October 14-15, 2008	EGNRET 31	Mexico City, Mexico	View documents
July 14-15, 2008	EGNRET 30	Taipei, Chinese Taipei	View documents
October 22-23, 2007	EGNRET 29	Bangkok, Thailand	View documents
January 29-30, 2007	EGNRET 28	Tokyo, Japan	View documents
October 9-11, 2006	EGNRET 27	Zhuhai, China	View documents
April 3-5, 2006	EGNRET 26	Auckland, New Zealand	View documents
October 31 - November 2, 2005	EGNRET 25	Taipei, Chinese Taipei	View documents
May 17-19, 2005	EGNRET 24	Honolulu, Hawaii	View documents