

**APEC EGNRET 44 Meeting**

**Toward to RE Doubling Goal by  
2030**

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**APEC EGNRET 44 Meeting**

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**Asia-Pacific  
Economic Cooperation**

**EGNRET**

# Outline



APEC Energy Working Group

EXPERT GROUP ON NEW AND  
RENEWABLE ENERGY TECHNOLOGIES



Asia-Pacific  
Economic Cooperation

- **Background of RE Doubling Goal**
- **RE Doubling Discussion in EGNRET**
- **Renewable Energy in APEC**
- **Future Actions**

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

# Background of RE Doubling Goal



- The United Nations Secretary-General launched a pioneering new initiative, “**Sustainable Energy for All**” (SE4ALL), on 1 Nov 2011, to mobilize urgent global action: **Double the share of renewable energy in the global energy mix by 2030.**
- The International Renewable Energy Agency (IRENA) is the renewable energy hub of the SE4ALL initiative and supports SE4ALL partners, and thus can be a strategic partner.
- ***A doubling of the share of renewables worldwide does not mean a doubling in every country. (IRENA)***

# Background of RE Doubling Goal



## EWG 47 Summary: RE Doubling Goal

- The United States presented the proposed APEC aspirational **goal of doubling renewable energy by 2030**.
- **The EWG expressed broad support for the goal**, but noted that the goal is a collective target and requires refinements in the definition. The EWG will revisit the goal every five years up to 2035.
- The Lead Shepherd suggested development of a band of cost ranges for renewable energies to assess cost-competitiveness and track progress towards commercialization.
- The goal would need to work with other international agencies to make sure that APEC's viewpoints are expressed in the coming coordination of statistical definitions among international agencies such as IEA and IRENA.

Source: EWG 47 Summary (May 19-22, 2014 in Kuming, China)

# Background of RE Doubling Goal



## EMM 11 Declaration (Sep 2-3, 2014 in Beijing, China)

**We aspire to the goal of “doubling the share of renewables in the APEC energy mix, including in power generation, from 2010 levels by 2030.”**

To attain this target, member economies will enhance cooperation, promote innovation in renewable energy technologies, so as to reduce costs and improve the competitiveness and sustainability of renewable energy in the energy market.

## 2014 APEC Leaders' Declaration

(Nov 10-11, 2014 in Beijing, China)

We endorse the Energy Ministers' aspirational **goal to double the share of renewables including in power generation by 2030 in APEC's energy mix.**

# Background of RE Doubling Goal



## EGNRET 40 Summary (April 2-5, 2013 in Ha Noi, Viet Nam)

### Further Action for RE in APEC

- EGNRET suggests APERC and EGEDA consider to propose an APEC funded project to establish a **common definition of different types of renewable energy** incorporating with current classification of renewable energies developed by EGEDA, IRENA, and IEA.
- EGNRET also suggests KSP may be a platform for uploading member economies' renewable energy data as a reference for further policy making of renewable energy in APEC region.

# RE Doubling Discussion in EGNRET 43



## ■ EGNRET 43: Nov 10-14 , 2014 in Chiang Mai, Thailand

- Discussion on Role of EGNRET Toward the Doubling Renewable Energy Goal in APEC Region
- Major concern points from this discussion
  - 1) Definition (especially for traditional biomass and large hydro)
  - 2) Monitor system and report mechanism
  - 3) Exchange or share of best practices
  - 4) Financial mechanism
  - 5) Cooperation with EGEDA, EGEE&C, APERC
  - 6) Communicate with IRENA, ASEAN, IEA
  - 7) Priority field or topic for new proposal
  - 8) Regular review and modify for the RE doubling goal
  - 9) TPES or TFEC for the RE share calculation

## Summary of the Discussion

1. EGNRET members exchanged the view on the definition of different renewable energy especial for **traditional biomass** and **large hydro**. EGNRET understands that each Economy has the different environmental situation, and concerns about the employment of different type of renewable energy. It is a little difficulty to use the same definition to cover all the APEC Region.
2. EGNRET members discussed about the **denominator in RE share calculation**. EGNRET understands that either **Total Primary Energy Supply (TPES)** or **Total Final Energy Consumption (TFEC)** is possible for the calculation. This will depend on what is our major concern in the promotion of renewable energy.

# RE Doubling Discussion in EGNRET 43



3. EGNRET will **expand the experience exchange or share of best practices** for each economy to access the enough technology to further promote the renewable energy.
4. More financial mechanisms are needed to be developed or provide for the private sector to make the contribution for the employment of RE.
5. The **monitor system and report mechanism** will be needed in the future.
6. EGNRET will continue work with **EGEDA, EGEE&C, and APERC** in the APEC Region.
7. EGNRET will also try to communicate with **IRENA, IEA, and ASEAN** to get the most useful information for push forward the doubling goal.

# RE Doubling Discussion in EGNRET 43

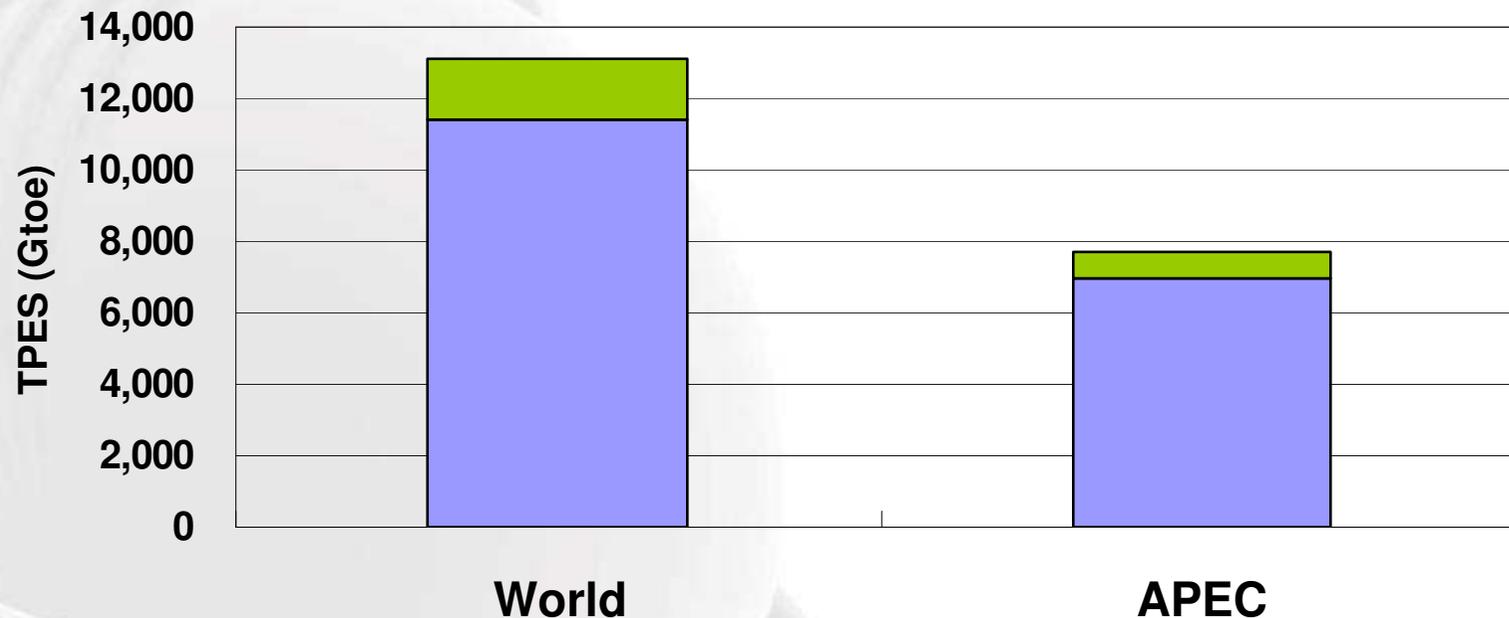


8. EGNRET will continue to discuss and look into the priority of different technology and/or strategy is required for all APEC Region or each Economy.
9. EGNRET also encourages each economy to submit the proposal based on the identified priority in order to remove the barrier and speed up the employment of renewable energy.
10. EGNRET understands the regular reviewing of this double goal is needed in order to make the necessary revise for the new technology development or variation of the environment.

# Renewable Energy in APEC (2011)



## Total Primary Energy Supply (TPES)



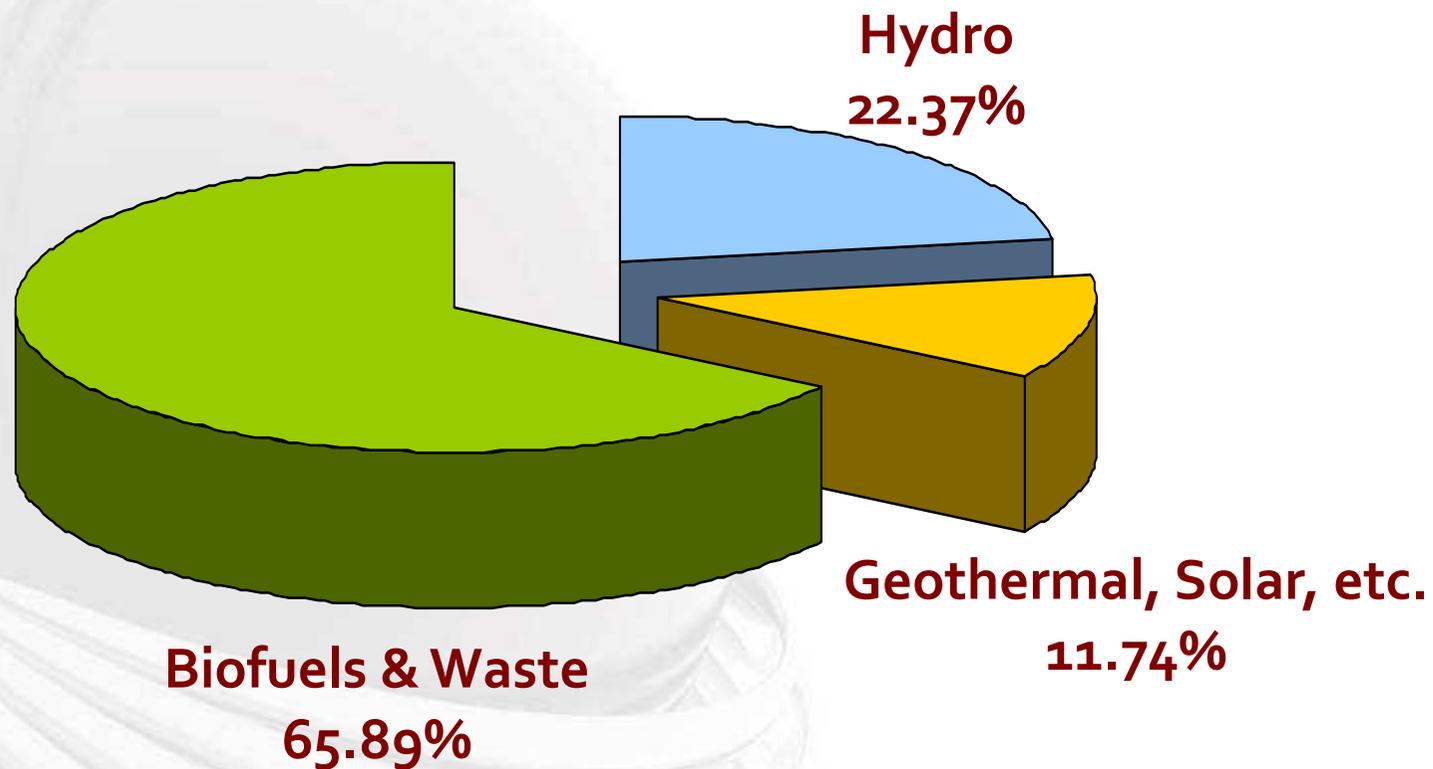
	World	APEC
Renewables	1,739.33 (13.26%)	708.33 (9.23%)
Total	13,113.38 Gtoe	7,671.51 Gtoe

Data source: IEA (2013)

# Renewable Energy in APEC (2011)

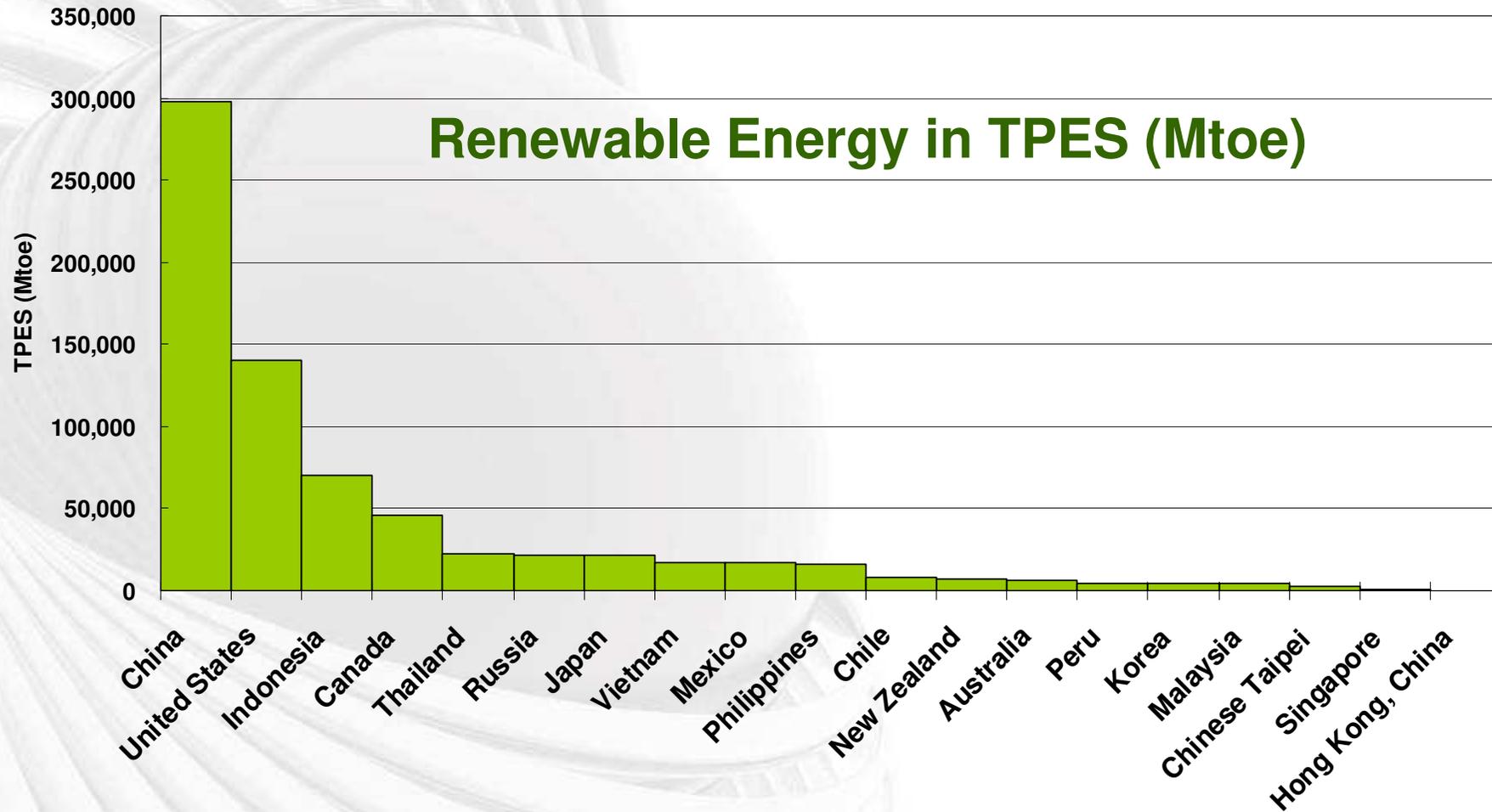


## APEC Renewable Energy in TPES



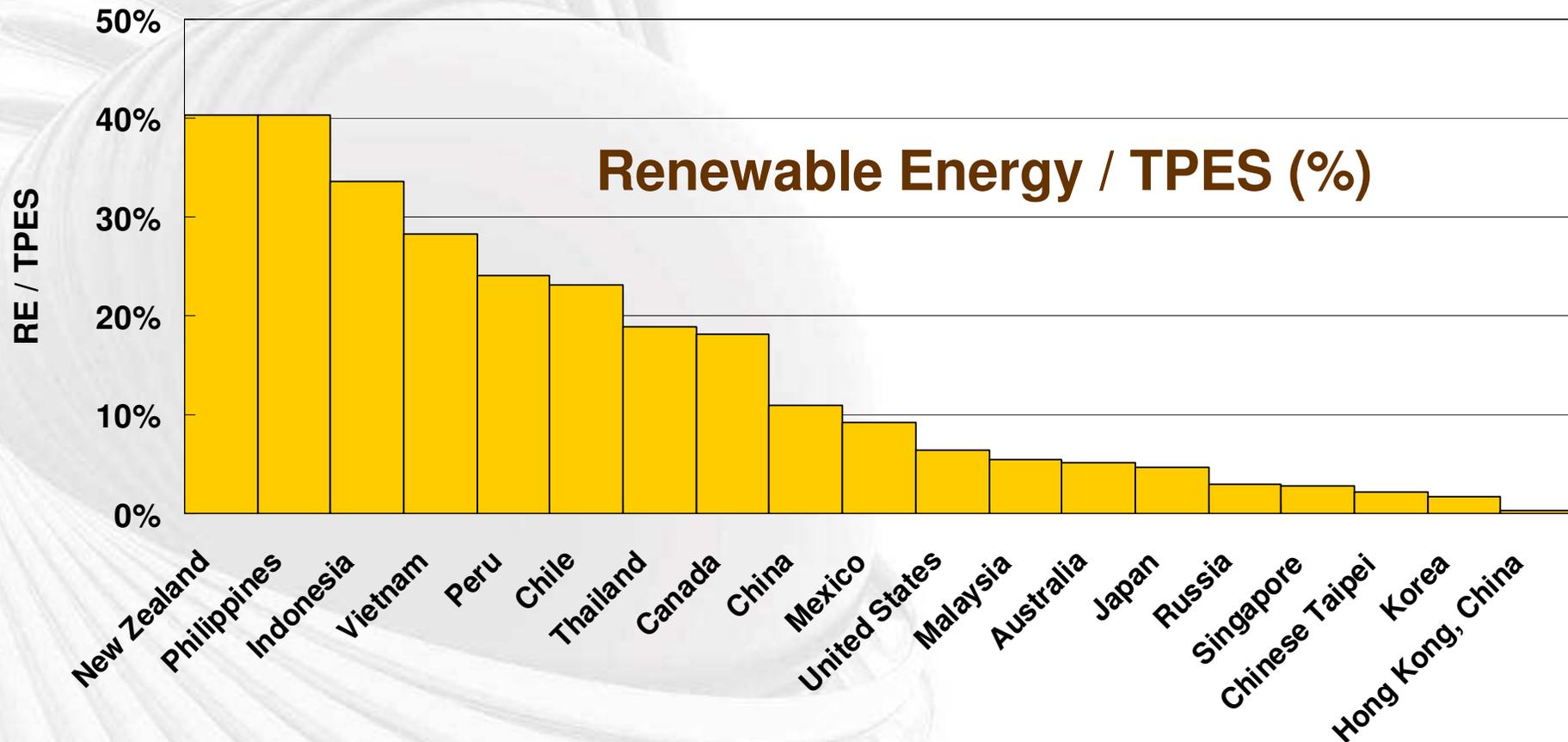
Data source: IEA (2013)

# Renewable Energy in APEC (2011)



Data source: IEA (2013)

# Renewable Energy in APEC (2011)



Data source: IEA (2013)

# Current FIT and RPS in Selected APEC Economies (2012)



Economy	FIT	RPS	Economy	FIT	RPS
Australia	•		Malaysia	•	•
Canada	•	•	Peru	•	
Chile		•	Philippines	•	•
China	•	•	Chinese Taipei	•	
Indonesia	•	•	Thailand	•	
Japan	•		United States	•	•
Korea		•			

**FIT: Feed-in Tariff**

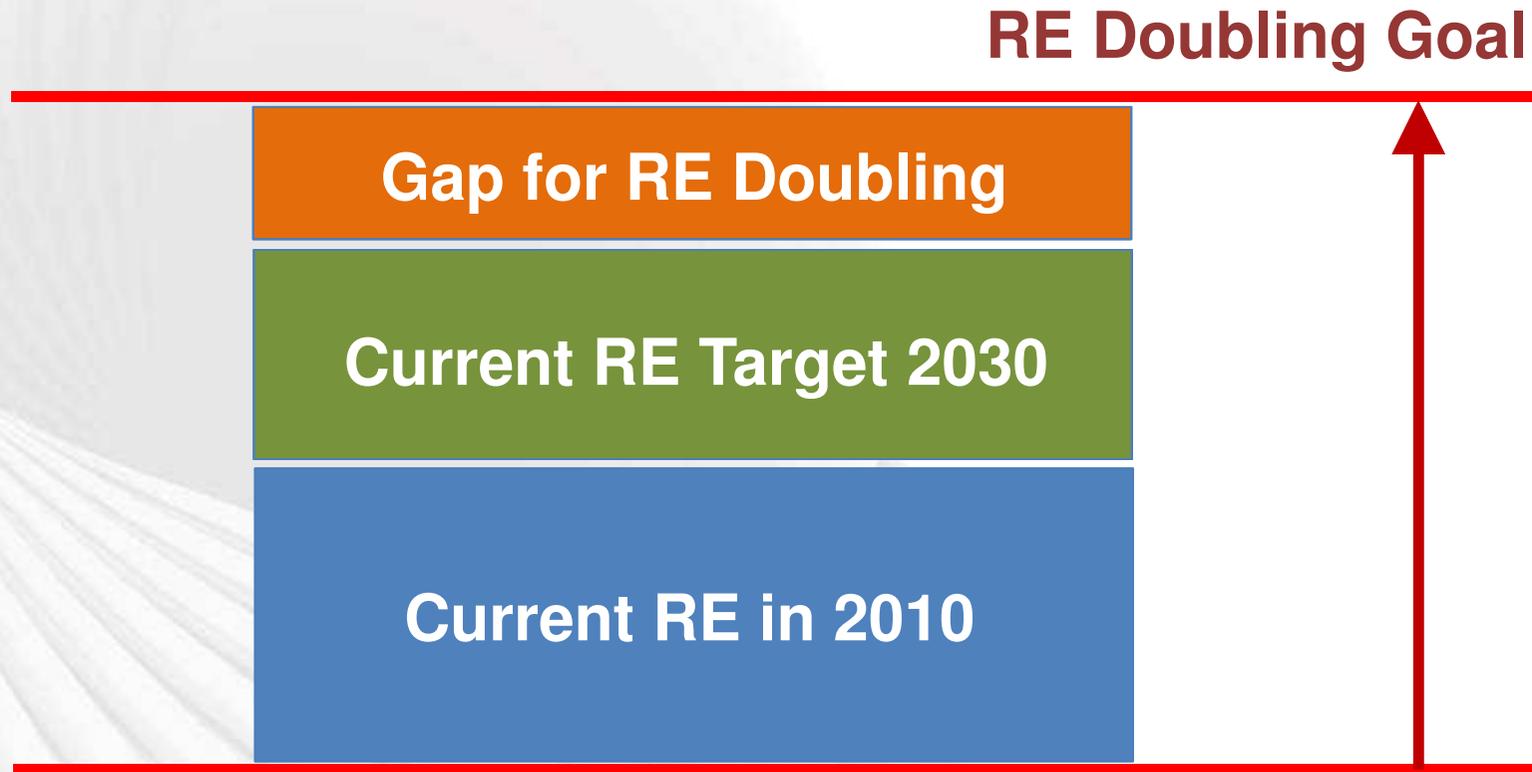
**RPS: Renewable Portfolio Standards**

## Proposed APEC-IRENA Work Plan

1. Planning for the global energy transition
2. Gateway to knowledge on renewable energy
3. Enabling investment and growth
4. Renewable energy access for sustainable livelihoods
5. Islands: lighthouses for renewable energy deployment
6. Regional action agenda

## Filling the Gap to Reach the RE Doubling Goal

EGNRET proposes a multi year project through EWG collaborated with IRENA.



# Thank you for your attention!



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

A screenshot of the EGNRET website homepage. The header includes the APEC logo and the text 'APEC Energy Working Group EXPERT GROUP ON NEW AND RENEWABLE ENERGY TECHNOLOGIES'. A navigation menu lists 'Home', 'Representatives', 'Projects', 'Meetings', 'Workshops', 'Reports', 'Publications', and 'Reference'. The main content area features a 'WELCOME' message, a description of the group's mission, and three image-based buttons for 'News', 'Meetings', and 'Contacts'. The footer contains copyright information and acknowledgments to the Industrial Technology Research Institute and the Bureau of Energy, Ministry of Economic Affairs, Chinese Taipei.

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

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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