Establishment of an APEC Renewable Energy Goal

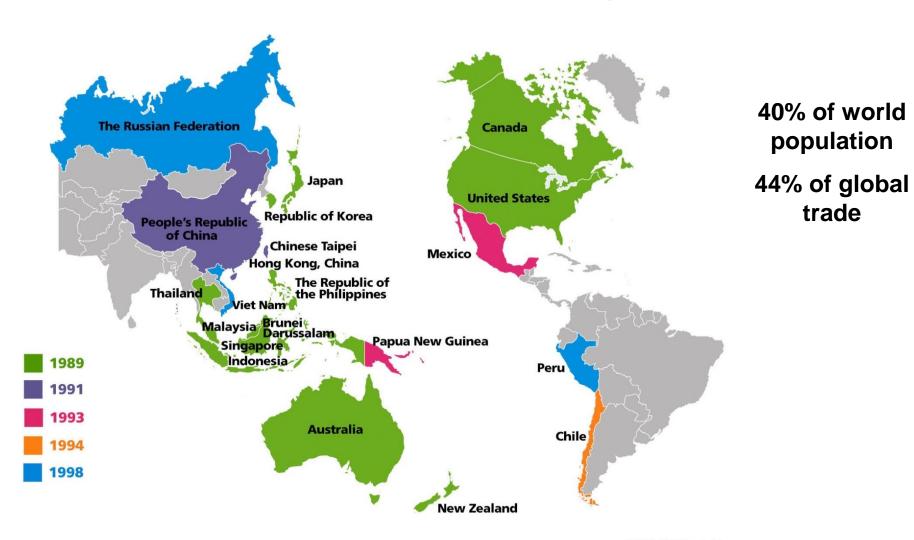
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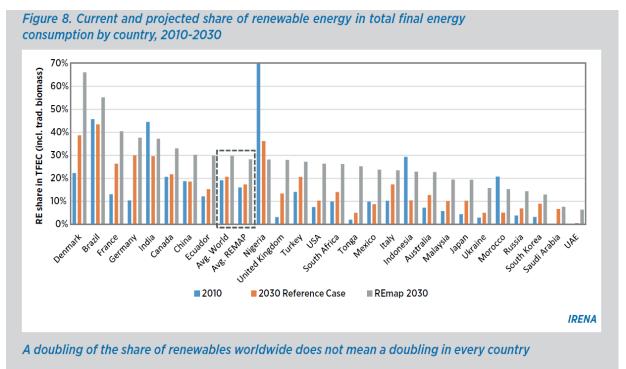
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APEC can set an example for the world in cooperation for renewable energy development



The UN has set a goal of doubling the share of renewable energy by 2030 (SE4ALL)

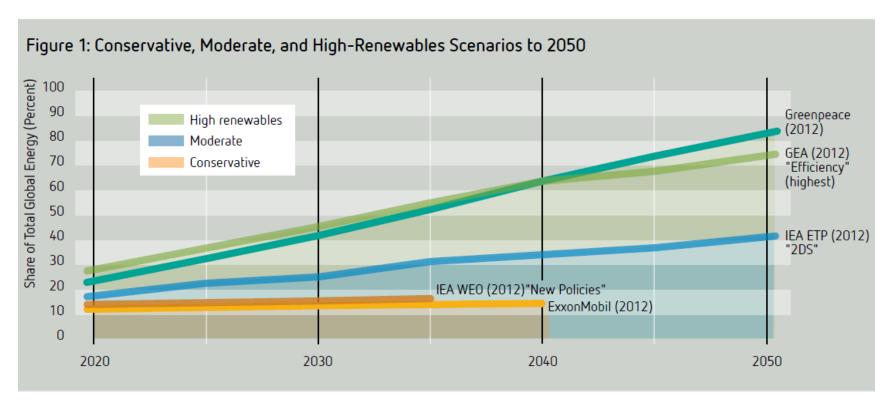


Note: The renewable energy shares for the 2030 Reference Case for France and the UK were assessed based on their 2020 renewable energy commitments according to their national renewable energy action plans (NREAP). No further deployment of renewable energy was included in their analysis of the Reference Case between 2020 and 2030, however any improvements in energy efficiency were taken into account.

RE = renewable energy; TFEC = total final energy consumption



There are wide variations in estimates of future global renewable energy use*



*Renewables Global Futures Report 2013

Renewables Energy Policy Network for the 21st Century (REN21). http://www.ren21.net

The future energy mix will always be uncertain

- Advanced biofuels could dramatically reduce petroleum use
- Advanced batteries could both change our automobiles and enable 24 hour use of renewable energy
- Houses are quickly moving towards net zero energy use
- Cost of renewable energy technologies will continue to decrease over time
- Financial systems are continuing to evolve that recognize the value of renewable energy in an economy's energy portfolio

Accelerating the deployment of renewable energy will be a shared goal among APEC economies

- In support of the UN Secretary-General's SE4ALL iniative, APEC eonomies will endeavor to double the share of renewables in the APEC energy mix, including power generation, by 2030
 - Since total energy use is critical, the renewable energy goal is linked to the existing energy efficiency goal of reducing aggregate energy intensity by 45% by 2035
- ►To provide direction, the U.S. proposes the establishment of regional cost tracking prices
- As a first step, we propose a workshop be held in 2015 to exchange best practices in setting and achieving government wide renewable energy consumption targets

International collaboration is important

- 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
- Synergies can be drawn from cooperative work with both ASEAN's Renewable Energy Support Program and the East Asia Summit's Renewable and Alternative Power Generation Workstream

APEC Energy Working Group Role

- The Expert Group for New and Renewable Energy Technology (EGNRET) would be tasked with developing a strategy to meet the renewable energy generation and cost goals
- The Expert Group on Energy Data and Analysis (EGEDA) would be tasked with collecting better, more granular data on APEC economy renewable energy production and consumption
- The Expert Group on Energy Efficiency and Conservation (EGEEC) would continue to provide linkages between the uptake of energy efficiency measures and the reduction of total energy consumption
- The Asia Pacific Economic Research Centre (APERC) would continue to provide baseline energy modeling support on APEC wide energy supply and demand
- The Expert Groups and APERC will be encouraged to develop projects that address the challenges of meeting the new goals

Cooperation towards the goal will be recognized on an annual basis

- The EWG will recognize examples of the best practices in moving towards the renewable goal which will be presented at the annual Leaders meeting
- The EWG will then track the adoption of the recognized best practices in subsequent years as we move towards 2030
- Replicability and cooperation will be important attributes of best practices

Initiative timeline

- ► EGNRET 42- Expert Group on New and Renewable Technologies members discuss the technical aspects of the renewable energy goal as well as the linkage with energy efficiency at a joint meeting with the Expert Group on Energy Efficiency and Conservation in Honolulu, April 7-11, 2014
- EWG 47- Energy Working Group approves the RE goal and 2015 workshop as a key component of its Five-Year Strategic Plan
- EMM 11- Energy Ministers endorse goals and Five-Year Strategic Plan
- AELM 22- Leaders endorse goals:
 "we endorse the Energy Ministers' aspirational goal to double the share of renewables including in power generation by 2030 in APEC's energy mix"

The path forward is more important than the numbers as APEC works together to lead the world in demonstrating that a sustainable energy future is truly a cooperative activity

Questions/Discussion

