



Asia-Pacific  
Economic Cooperation

**Recent EGNRET Activities**  
**Cary Bloyd**  
**Pacific Northwest National Laboratory**

**EGEEEC-38**  
**Seoul, Korea**  
**November 8-9, 2011**



# EGNRET Summary

- EGNRET Chair is Dr. Tom Lee, Chinese Taipei
- EGNRET-37 was held August 22-26, 2011 in Taipei, Chinese Taipei
  - Member Economy Presentations: Current New and Renewable Energies Priority in APEC Member Economies
- EGNRET-37 included two associated workshops
  - Workshop on Addressing Challenges of AMI Deployment in APEC (EWG 07/2011A) was held August 24-25, 2011
  - 2011 International Workshop on Microalgal Biofuel Technology was held August 26, 2011

Information at: [www.egnret.ewg.apec.org](http://www.egnret.ewg.apec.org)



# Project update

- Fifty-two project have been completed since 1992
- One project was completed in 2011
- Two projects are ongoing
- Three projects were submitted for APEC support at EWG-42

# Completed EGNRET Project

## Using Smart Grids to Enhance the Use of Energy Efficiency and Renewable Energy Technologies (EWG 01/2009S)

- This US self-funded project examined the status and potential within APEC economies of smart grid technologies to enhance the use of renewable energy and energy efficient buildings, appliances and equipment. Information was gathered from three sources
  - A survey of APEC members
  - A review of APEC member smart grid domestic and international activities
  - A review of broader efforts (beyond APEC)

Final report is at: <http://www.egnret.ewg.apec.org/reports>

# The study identified challenges facing smart grid deployment

- Two broad challenges are:
  - There is a need to increase the awareness of smart grid capabilities and their benefits for advancing energy-efficiency and renewable-resource integration policies
  - The speed with which new ideas and deployment strategies are being generated can challenge decision-making as there is pressure to revisit project definitions and approaches
- Other challenges were summarized according to technical, business and financial, and societal
- Ten areas for further study were identified



# Ongoing projects

- Addressing Challenges of AMI Deployment in APEC (EWG 07/2011A)
  - The APEC AMI workshop was held August 24-25 in Chinese Taipei and attended by 216 participants from 7 APEC economies
  - The final project report is being prepared
- Stock-take of Electric Vehicle Interface with Electricity and Smart Grids Across APEC Economies and the Potential for Harmonization (EWG 11/2011)
  - The project RFP has been issued



## Projects proposed at EWG-42

- **Best Practices in Energy Efficiency and Renewable Energy Technologies in the Industrial Sector in APEC Region** (Thailand lead, US\$75,000 total/ US\$50,000 APEC)
- **Piloting Smart/micro Grid Projects for Insular and Remote Localities in APEC Economies** (Russia lead, US\$162,000 total/US\$ 82,000 APEC)
- **Prospects for Marine Current Energy Generation in APEC Region** (Russia lead, US\$188,000 total/US\$ 90,000 APEC)