

APEC Expert Group on
New and Renewable Energy Technologies

Welcome to EGNRET 38



Asia-Pacific
Economic Cooperation
EGNRET

EGNRET 38 *Wellington, New Zealand* 18 - 20 June, 2012

Recent APEC Activities

June 18, 2012 09:50-10:30

Tom, H. T. Lee, Dr Eng



Asia-Pacific
Economic Cooperation

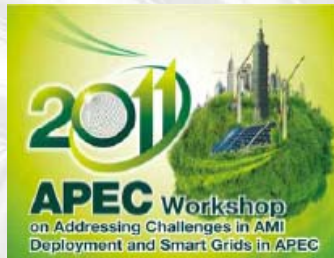
EGNRET

Review of EGNRET 37



- **EGNRET 37: August 22 to 26, 2011, Taipei, Chinese Taipei**
 - The APEC Workshop on Addressing Challenges in AMI Deployment and Smart Grid in APEC Region was held alongside the meeting.
 - Meeting Theme: Current New and Renewable Energy Priorities in APEC Member Economies
 - **EGNRET Project Status at EGNRET 37 (by 26 Aug, 2011)**
 - Completed Projects: **2**
 - On-going projects: **1**
 - Submission for Session 3/2011: **3**
 - Meeting presentations are available on the EGNRET website: <http://www.egnret.ewg.apec.org/meetings/engret37/index.html>

Review of EGNRET 37



The APEC Workshop on Addressing Challenges in AMI Deployment and Smart Grid in APEC Region

24-25 August 2011 in Chinese Taipei

- **16 speakers from 9 economies**
- **216 participants from 7 economies**
- **Workshop Scope**
 - AMI Deployment
 - System Integration
 - Maintenance and Service
 - The Policy and Strategy
 - AMI/AMR/Smart Grid in APEC
 - Market Trends and Opportunities
 - Technology on Smart Grid



APEC Activities Since EGNRET 37



2011.9.13	Transportation & Energy Ministerial Conference (TEMC)	USA
2011.10.17-21	EWG 42	Chinese Taipei
2011.11.12-13	19th Leaders' Meeting 2011	USA
2012.3.5-11	EWG 43	Malaysia
2012.6.24-25	10th Energy Ministerial Meeting (EMM 10)	Russia
2012.9.7-8	20th Leaders' Meeting 2012	Russia

TEMC's Action Agenda



APEC Transportation & Energy Ministerial Conference (TEMC)

Action Agenda to Move APEC toward an Energy Efficient, Sustainable, Low-carbon Transport Future

An Action Agenda was issued to guide follow-up work by the Energy Working Group, the Transportation Working Group, and interested APEC economies, including 4 catalogues, 17 items:

- 1. Transportation's Role in a Clean-energy Future**
- 2. Energy and Transport Systems for Livable Low-carbon Communities**
- 3. Powering Low-carbon Transport**
- 4. Greening the Supply Chain: Energy- Efficient Freight Transportation**

TEMC's Action Agenda



Action Agenda to Move APEC toward an Energy Efficient, Sustainable, Low-carbon Transport Future

Action Agenda Addresses Alternative Transport Fuels

- Identify and study appropriate strategies, approaches and best practices for promoting efficient and alternative-fueled vehicles (biofuel vehicles, natural gas vehicles and EVs) based on LCA.
- Development of harmonized approaches to addressing the safety of EVs in order to maintain consumer confidence in them.
- Consider and assess in 2nd-generation biofuels and employment potential that could practically be developed.
- Enhance APEC cooperation with international aviation organizations to strengthen the development of aviation biofuels and the modernization of aviation traffic management.

APEC Leaders' Declaration 2011



The Honolulu Declaration - *Toward a Seamless Regional Economy*

19th APEC Economic Leaders' Meeting Honolulu, Hawaii, USA Nov 12-13, 2011

■ Declaration Addresses **Promoting Green Growth**

- Aspire to reduce APEC's aggregate energy intensity by 45% by 2035
- Promote energy efficiency by taking specific steps related to transport, buildings, power grids, jobs, knowledge sharing, and education in support of energy-smart low-carbon communities
- Incorporate low-emissions development strategies into our economic growth plans and leverage APEC to push forward this agenda, including through the Low-Carbon Model Town and other projects

EWG 43 Concluding Business



Asia-Pacific
Economic Cooperation

- Mexico is scheduled to host EWG 44 in the second half year but has not yet confirmed its ability to do so.
- An observer from Colombia participated at EWG 43 as a guest.
- Economies were asked to volunteer to serve as EWG Lead Shepherd from 2013, given that the United States had volunteered to serve through 2012.

Achievements of Biofuels Task Force



- Biofuels Task Force (BTF) was endorsed to be established by EMM 7 in 2005, and completed its activity at the end of 2011.
- 17 APEC economies participated, and APERC and EGNRET were also represented.
- BTF produced 8 technical reports on biofuel resources, economics, transportation infrastructure, employment potential, and sustainability measures.
- BTF Final Report to EWG 43 suggested that future studies on biofuel resource potential, costs, and trade issues may be conducted as needed under the auspices of EGNRET.
- EGNRET is considering a follow-up study on 2nd generation biofuels, responded by the Chair of EGNRET at EWG 43.

Status of EWG Projects



The detailed status of EWG projects of will be presented by EGNRET Secretariat in the morning Session on Tuesday, 19 June, 2012.

Morning, Tuesday, 19 June, 2012

09:40-10:10	Progress/Status of Current EGNRET Projects
10:10-10:30	Notes on APEC Project Submission Process

10th APEC ENERGY MINISTERIAL MEETING (2012)

St. Petersburg Declaration (draft)
Energy Security: Challenges and Strategic Choices

Declaration Addresses New and Renewable Energy

- Working to increase the share of natural gas in the energy mix, develop renewable energy sources, ensure the safe and secure use of nuclear energy in interested economies, and boost energy end-use efficiency.
- Promote a lower-carbon economy that strengthens energy security and generates new sources of economic growth, and helps achieve the aspirational goal to reduce aggregate energy intensity of APEC economies by 45% from 2005 levels by 2035.

10th APEC ENERGY MINISTERIAL MEETING (2012)

St. Petersburg Declaration (*draft*)
Energy Security: Challenges and Strategic Choices

INSTRUCTIONS (*Draft*) related to EGNRET

[No. 2] Request that the EWG, supported by APERC, EGEDA, EGEEC and EGNRET *conduct research to develop an Energy Intensity Action Agenda to help meet the aspirational goal to reduce aggregate energy intensity of APEC economies by 45% from 2005 levels by 2035.*

APEC Business Advisory Council (ABAC)

Letter to EMM 10



ABAC supports a multi-pronged approach to energy security, including the **(1) expansion of energy conservation efforts, (2) promotion of clean and renewable energy sources, (3) increase use of natural gas, (4) increase in energy productivity, and (5) cooperation on nuclear energy safety:**

- Expand the exchange of best practices, harmonize standards of measurements and evaluation, support technology transfers.
- Reduce barriers to cross-border energy investment and trade.
- Addressing market distorting policies is an important step to increase investor confidence and support energy diversification.
- Identify a list of goods and services that “directly and positively contribute to green growth and sustainable development objectives”.
- ABAC supports the proactive application of the *Living cities* principles and further demonstration projects which achieve this goal.
- Develop ways to increase the safe exploration, evaluation and production of unconventional gas.

Future Prospects of EGNRET



- The EGNRET will focus more on smart grid, AMI (advanced metering infrastructure), and Electric Vehicles (EVs), which are directly related to the APEC ASGI.
- The EGNRET will strengthen collaboration with APEC other fora, e.g., LCMT Task Force, EGEEC, Industrial Science and Technology Working Group (ISTWG), and some projects, e.g., PRLCE and PREE supported by APERC. Also EGNRET will enhance **collaboration** with other international organizations, e.g., ICA, IRENA, etc.
- Collaborated with EGEEC, a roadmap is expected to be established for the successful implementation of new and renewable energy and energy efficiency system in the industrial sector of the APEC region.
- Future studies on biofuel resource potential, costs, and trade issues may be conducted as needed under the auspices of EGNRET, according to the BTF Final Report to EWG 43.
- EGNRET will follow up EMM10's Instructions, and encourage members to conduct researches related to reduction of energy intensity in APEC region.

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 hosting details.

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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Review of EGNRET 37



The APEC Workshop on Addressing Challenges in AMI Deployment and Smart Grid in APEC Region

24-25 August 2011 in Chinese Taipei

Preliminary Conclusions of AMI Workshop

■ AMI Deployment Faces the Challenges:

1. **Public acceptance** – knowledge dissemination should be enhanced
2. **Product standardization** – more negotiations should be proceeded
3. **User's privacy** – more regulations for business models should be established

Workshop presentations are available on the EGNRET website:

<http://www.egnret.ewg.apec.org/workshops/AMIWorkshop/index.html>



APEC 2012 Priorities



The theme of Leaders' Meeting 2012 in Russia (2012.9.7-8)

Addressing Challenges. Expanding Possibilities.

> APEC 2012 Priorities <

- Expanding trade and investment liberalization, and expanding regional economic integration
- Strengthening food security
- Establishing reliable supply chains
- Fostering innovative growth

