

EGNRET Update

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Expert Group on
New and Renewable Energy Technologies

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Asia-Pacific
Economic Cooperation

EGNRET
EGEE&C
Joint
Meeting

EGNRET 36 *Washington, DC 28 February - 4 March, 2011*

Introduction to EGNRET



Mission of EGNRET

To facilitate an increase in the use of new and renewable energy technologies in the APEC region

Activities of EGNRET

Be directed towards meeting the energy challenges identified by APEC Leaders and Energy Ministers

Project Implement of EGNRET

Develop and implement projects that contribute to the EWG's objectives and strategic initiatives

Source: EGNRET Terms of Reference

EGNRET Meeting Themes

Support Information Dissemination



Meeting themes are chosen to align with current projects and EWG priorities

EGNRET 28 Japan 1/2007 : Best Practices in Energy Efficiency and Renewable Energy in Commercial Buildings

EGNRET 29 Thailand 10/2007 : Update on Economy Level New and Renewable Energy Technology Programs

EGNRET 30 Chinese Taipei 7/2008 : APEC Economy NRET Responses to Recent Increases in Fossil Fuel Prices

EGNRET 31 Mexico 10/2008 : Economy Specific Electric Utility based Financial Mechanisms that Support Renewable Energy and Energy Efficiency

EGNRET 32 Hawaii, US 4/2009 : Current New and Renewable Energy Priorities in APEC Member Economies

EGNRET 33 Chinese Taipei 10/2009 : Zero energy buildings

EGNRET 34 Malaysia 4/2010 : Current New and Renewable Energy Utilization in APEC Member Economies

EGNRET 35 Japan 10/2010 : Current Low-carbon Town activities in APEC Member Economies

EGNRET 36 US 2/2011 : New and Renewable Energies in Transportation (i.e., EVs and alternative fuels)

EGNRET's Renewable Energy Activities



Lead and Work with EWG Major Initiatives

- APEC 21st Century Renewable Energy Development Initiative (2000)
- EWG led Energy Security Initiative (2001)
- Ministerial Level Financing Initiative (2004)
- Ministerial Level Hydrogen Initiative (2004)
- Ministerial Level Biofuels Initiative (2006)
- Ministerial Level Smart Grids Initiative (2010)

Cooperation with Other Groups under Ministerial Instructions

- APEREC (e.g. Peer Review Related Programs)
- Biofuels Task Force
- Low-Carbon Town Task Force
- EGEE&C

Organize Workshops

Conduct Research Projects

56 projects have been completed since 1992

APEC 21st Century Renewable Energy Development Initiative



- Launched in May 2000 by the United States at EMM4
- Developed within the EGNRET
- A Multi-Year Work Program
- **Purpose:** To advance the use of renewable energy for sustainable economic development and growth of the APEC region
- **Implementation**
 - The initiative is a base to link its projects together by way of a series of collaborative efforts that specifically address the renewable energy-based needs and issues of individual APEC member economies.
 - Projects developed under the initiative take into consideration renewable energy infrastructure, development needs, training requirements, needs for analysis tools and methods, policy formulation, financing, joint-venture development, and the removal of trade barriers.

APEC 21st Century Renewable Energy Development Initiative



APEC 21st Century has 9 collaborative work areas:

I	Stakeholders Dialogues, Outreach Forums & Symposiums	USA
II	Micro-Business Development	USA
III	Renewable-Energy Training and Certification Network	Australia
IV	Renewable-Energy Standards	China
V	Distributed Resources	New Zealand
VI	Renewable-Energy Technology Applications	USA
VII	Web-Based Renewable Energy Information Dissemination	New Zealand
VIII	Financing	Mexico
IX	Alternative Transport Fuels	New Zealand

EGNRET Activities in 2010



- **EGNRET 34 - April 26-28, 2010, Kuala Lumpur, Malaysia**
 - Joint meeting of the APEC Biofuels Task Force
 - Workshop on Sustainable Biomass Production
 - Meeting theme: Current New and Renewable Energy Utilization in APEC Member Economies

- **EGNRET 35- October 12-15, 2010 in Tokyo, Japan**
 - Workshop on Addressing Grid-interconnection Issues in Order to Maximize the Utilization of New and Renewable Energy Resources
 - Meeting theme: Current Low-Carbon Town Activities in APEC Member Economies
 - Elections:
 - Chinese Taipei was elected to serve a two year term as Chair
 - Japan was elected to serve a two year term as Vice-Chair

EGNRET Project Update



■ Ongoing Projects

- Addressing Grid-interconnection Issues in Order to Maximize the Utilization of New and Renewable Energy Sources (EWG 02/2009)
- Using Smart Grids to Enhance the Use of Energy Efficiency and Renewable Energy Technologies (EWG 01/2009S)

EGNRET New Project Proposals for Funding in 2011



■ Project Concept Notes Submitted to EWG

1. APEC 21st Century Renewable Energy Development Initiative (Collaborative IX): The Status and Potential of Electric Vehicles in the APEC Region (New Zealand lead).
2. Addressing Challenges of AMI Deployment in Order to Enable Smart Grid Applications (Chinese Taipei lead).
3. 2011 APEC Conference on PV Policy and System Development (Chinese Taipei lead, Self funded).

EGNRET Contributions in Past Years



1. Guidelines for RE Standards and Policies in the APEC Region

- Guidelines for the Development of Biodiesel Standards
- Sourcebook of Hydrogen Codes and Standards
- Adoption of Renewable Energy Standards
- Alternative Transport Fuels Policy Options

2. Promoting RE Technology Application in the APEC Region

- Best Practices in NRE Technologies in Urban Areas
- Best Practices in EE and RE in Commercial Buildings
- Best Practices of Building Integrated EE and RE
- Ocean Thermal Energy Conversion (OTEC)
- Electricity Storage for Distributed RE based Systems
- Village Power Applications in Response to the Tsunami Recovery Effort
- Maximize Utilization of NRE Sources by Addressing Grid-interconnection
- Enhance Use of EE and RE Technologies by Using Smart Grids



3. Developing RE Business in the APEC Region

- APEC Guidebook for Financing New and Renewable Energy
- Bio-refineries for Energy and Trade
- Local Banks Training Program for Financing EE and RE Projects
- Successful Business Models for NRE Technology
- Operating Renewables-Related Energy-Service Company (RESCO)
- Financial Roadmap for the APEC Region
- Renewable Energy Products Database

4. Providing Training Programs in the APEC Region

- Accrediting Renewable Energy Training
- Solar Energy Training Program

5. Sharing RE Experiences in the APEC Region

- Member Economy Presentations Based on EGNRET Meeting Themes
- Workshops Associated with Projects

EGNRET Perspectives in 2011



- Enhance promotion of new and renewable energy utilization in the APEC region
- Work with EWG under EMMg instructions from Ministers
- Continue to carry out projects based on 21st Century Renewable Energy Development Initiative
- Cooperate with EGEE&C for joint projects
- Strengthen joint activities with
 - Biofuels Task Force
 - Low-Carbon Town Task Force
 - Peer Review on Policies to Promote Low-Carbon Energy Supply
 - Smart Grid Initiative

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' and 'EXPERT GROUP ON NEW AND RENEWABLE ENERGY TECHNOLOGIES'. A navigation menu lists: Home, Representatives, Projects, Meetings, Workshops, Reports, Publications, Reference. The main content area features a large 'WELCOME' text, a welcome message, and a description of the group's mission. Below this are three image-based sections: 'News' (water splash), 'Meetings' (wind turbines), and 'Contacts' (combine harvester). 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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