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**ASIA PACIFIC ECONOMIC COOPERATION (APEC)
NEW AND RENEWABLE ENERGY TECHNOLOGIES
EXPERT GROUP (EGNRET) MEETING**

FORTIETH MEETING

Ha Noi, Viet Nam
2 - 5 April, 2013

Draft

Tuesday, 2 April, 2013

EGNRET 40

Venue: Prestige Hotel, 17 Pham Dinh Ho, Ha Noi

08:30-09:00	Registration	
09:00-09:05	Official Welcome	Viet Nam
09:05-09:10	Introduction and Adoption of Agenda	Chair
09:10-09:50	Overview of Renewable Energy in Viet Nam	Viet Nam
09:50-10:30	Recent APEC Activities	Chair
10:30-11:00	Coffee Break	
11:00-11:15	Invited Presentation: Peer Review on Low-Carbon Energy Supply (PRLCE)	APERC
11:15-11:30	Invited Presentation: APEC Energy Demand and Supply Outlook (5th Ed.)	APERC
11:30-12:00	Invited Presentation: Overview of Low-Carbon Model Town (LCMT) Task Force Activities	LCMT TF
12:00-13:30	Lunch Break	
13:30-14:00	Invited Presentation: Observed New and Renewable Data in APEC and IEA	EGEDA
14:00-15:00	Member Economy Presentations: Integrating New and Renewable Energy into the Grid in the APEC Member Economies	
15:00-15:30	Coffee Break	

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15:30-17:00	Member Economy Presentations (cont'd)	
17:00-17:30	Discussion	Chair

Wednesday, 3 April, 2013

EGNRET 40

Venue: Prestige Hotel, 17 Pham Dinh Ho, Ha Noi

09:00-09:30	Invited Presentation: Establishing the REPAN - Renewable Energy Policy Advice Network	IRENA
09:30-10:10	Progress/Status of Current EGNRET Projects	Secretariat
	<i>P1. Prospects for Marine Current Energy Generation in APEC Region (S EWG 23 11A) (Russia)</i>	
	<i>P2. Best Practices in Energy Efficiency and Renewable Energy Technologies in the Industrial Sector in APEC Region (S EWG 19 11A) (Cooperated with EGEE&C) (Thailand)</i>	
	<i>P3. Urban Development Smart Grid Roadmap: Christchurch Recovery Project (EWG 08 2012) (Cooperated with EGEE&C) (New Zealand)</i>	
	<i>P4. Research on the Application of Physical Energy Storage Technology to Enhance the Deployment of Renewable Energy in an APEC Low Carbon Town (EWG 16 2012A) (China)</i>	
	<i>P.5 The Comprehensive Analysis and Research of Key Technologies and Commercial Model of Low Carbon Model Town Applied in Yujiapu CBD EWG (EWG 11/2012A) (China)</i>	
	<i>P6. APEC Peer Review on Low-carbon Energy Policies (PRLCE) Phase 2 (EWG 18 2012A) (Japan)</i>	
	<i>P7. APEC Workshop on Best Practices on Financing Renewable Energy (EWG 21 2012A) (Viet Nam)</i>	
	<i>P8. Promoting Stable and Consistent Renewable Energy Supply by Utilizing Suitable Energy Storage Systems (EWG 22 2012A) (China)</i>	
	<i>P9. Operation Technology of Solar Photovoltaic Power Station Roof and Policy Framework (EWG 24 2012A) (China)</i>	
	<i>P.10 Study on Measures to Reduce Energy Intensity in APEC Low Carbon Town (EWG 23/2012A) (China)</i>	
	<i>P.11 2013 APEC Workshop on Geothermal Technology (SF EWG 01/2013) (self-funded, Chinese Taipei)</i>	
10:10-10:30	Notes on APEC Project Submission Process	Secretariat
10:30-11:00	Coffee Break	

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11:00-11:20	Progress with APEC Energy Smart Communities Initiative (ESCI) and APEC Smart Grids Initiative (ASGI)	USA
11:20-11:40	Development of Project Proposal for Session 2, 2013 Funding	Chair
11:40-12:00	EGNRET Administration & Operations - Next Expert Group Meeting - Other Business	Chair
12:00	Adjourn	Chair
12:00	Lunch Break	

APEC Workshop on Small Hydro and Renewable Grid Integration

Ha Noi, Viet Nam

April 3-5, 2013

Tentative Agenda

Meeting Venue: Prestige Hotel, 17 Pham Dinh Ho, Ha Noi

April 3, 2013

13:30-14:00 Registration

Session 1: Plenary session

Chair: Mr. Le Tuan Phong,
Deputy Director General of General Directorate of Energy, Viet Nam

14:00-14:15 Official Welcome
Mr. Le Tuan Phong
Deputy Director General of General Directorate of Energy, Viet Nam

14:15-14:30 Workshop overview and expected outcomes
Mr. Pham Thanh Tung, Project Overseer (PO)
General Directorate of Energy, Viet Nam

14:30-14:50 Overview of EGNRET projects
Dr. Tom Lee
Industrial Technology Research Institute, Chinese Taipei, and Chair
APEC Expert Group on New and Renewable Energy Technologies

14:50-15:10 Current status and future plans on renewable energy electricity sources in Viet Nam
Mr. Nguyen Duc Cuong, Institute of Energy

15:10-15:30 Small hydro as part of a clean energy portfolio
Mr. Jeff Skeer
Senior Program Manager
International Renewable Energy Agency
Abu Dhabi, United Arab Emirates

15:30-16:00 Break

- 16:00-16:20 Renewable energy electricity generation outlook in the APEC region and related issues on Viet Nam
Dr. Tran Thanh Lien, Team Leader, Asia Pacific Energy Research Centre (APEREC)
- 16:20-16:40 Small hydro and smart grid integration
Mr. Dan Ton
Program Manager, Smart Grid Research & Development
Office of Electricity Delivery and Energy Reliability
U.S. Department of Energy
- 16:40-17:00 Current problems faced in Viet Nam associated with the integration of small hydro into electric grid Viet Nam
Mr. Trinh Quoc Vu, ERAV

April 4, 2013

Session 2: Current status and development plan for grid small hydro power in APEC Economies - *Identify potential, barriers and measures to overcome barriers in the future*

Chair: Dr. Cary Bloyd
Senior Staff Scientist
Pacific Northwest National Laboratory
USA

- 09:20-09:40 Viet Nam
Mr. Duong Manh Cuong
Expert of Planning Dept. GDE
- 09:40-10:00 Malaysia
Ms. Nurhafiza bt Mohamed Hasan
Head, Licencing Unit, Energy Commission Malaysia
- 10:00-10:20 Philippines
Mr. Winifredo W. Malabanan
Director of Renewable Energy Management Bureau, Department of Energy
- 10:20-10:50 Break
- 10:50-11:10 Indonesia
Mr. Rida Mulyana,
Director General of New Renewable Energy and Energy Conservation,
Ministry of Energy and Mineral Resources

11:10-11:30 Thailand
Ms. Krittiya Petsee
Plan and Policy Analyst, Work Plan Devision
Department of Alternative Energy Development and Efficiency (DEDE)

11:30-14:00 Lunch

Session 3: Issues on grid integration of small scale RE electricity APEC Economies - *Electric Utilities Perspective*

Chair: Dr. Tom Lee
Division Director
Industrial Technology Research Institute, Chinese Taipei
Chair, APEC Expert Group on New and Renewable Energy Technologies

14:00-14:20 Viet Nam
Dr. Tran Nam Trung, Technical and Productional Dept.
Electricity of Viet Nam

14:20-14:40 USA
Mr. Do Thien-Khoi
Global Government Affairs Manager - Product Safety UL LLC, USA

14:40-15:00 Malaysia
Mr. Saharuddin Sulaiman
Principal Engineer,
Asset Management Department,
Distribution Division, Tenaga Nasional Berhad,

15:00-15:30 Break

15:30-15:50 Indonesia
Mr. Suroso Isnandar
System Planning Engineer
Division of System Planning, PT PLN (Persero)

15:50-16:10 Thailand
Dr. Worajit Setthapun
Chiang Mai Rajabhat University

April 5, 2013

Session 3: Issues on grid integration of small scale RE electricity APEC Economies - Electric Utilities Perspective (*cont'd*)

Chair: Dr. Tom Lee
Division Director
Industrial Technology Research Institute, Chinese Taipei
Chair, APEC Expert Group on New and Renewable Energy Technologies

09:20-09:40 China
Mr. Wan Lin, Director
Beijing Energy Innovation Ltd.

09:40-10:00 USA
Mr. Dan Ton
Program Manager, Smart Grid Research & Development
Office of Electricity Delivery and Energy Reliability
U.S. Department of Energy

10:00-10:20 Chinese Taipei
Dr. Chung-Hsien Chen
Section Chief, Renewable Energy Section
Energy Technology Division
Bureau of Energy, Ministry of Economic Affairs

10:20-10:40 Break

Session 4: Roundtables on the development of a road map for small hydro Integration

Chair: Dr. Cary Bloyd
Senior Staff Scientist
Pacific Northwest National Laboratory
USA

10:40-11:20 All participants

11:20-11:30 Closing remark by Pham Thanh Tung, Project Overseer

11:30-13:30 Break

13:30-19:00 Technical site visit