

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

**THIRTY-SEVENTH MEETING**  
Grand Hyatt Taipei, Taipei, Chinese Taipei  
(Meeting Room: Residence II)  
August 22- August 26, 2011

<b>Monday, 22 August, 2011</b> EGNRET 37
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09:00-09:30	Registration	
09:30-09:45	Official Welcome	Chinese Taipei
09:45-10:00	Introduction and Adoption of Agenda	Chair
10:00-10:30	Overview of Renewable Energy in Chinese Taipei	Chinese Taipei
10:30-11:00	Coffee Break	
11:00-11:30	Recent APEC Activities	Chair
11:30-12:00	Progress on APEC Peer Review on Low-Carbon Energy Supply (PRLCE) and PREE	APEREC
12:00-13:30	Lunch	
13:30-14:00	Overview of Low-Carbon Model Town (LCMT) Task Force Activities	LCMT TF
14:00-15:30	Member Economy Presentations: Current New and Renewable Energies Priority in APEC Member Economies	
15:30-16:00	Coffee Break	
16:00-17:00	Member Economy Presentations (cont'd)	

<b>Tuesday, 23 August, 2011</b> EGNRET 37
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09:00-10:00	Member Economy Presentations (cont'd)	
10:00-10:30	Invited Presentation: APEC Research Network for Advanced Biohydrogen Technology	Feng Chia University
10:30-11:00	Coffee Break	
11:00-12:00	Progress/Status of Current EGNRET Projects	Chair
11:00-11:30	- Using Smart Grids to Enhance Use of Energy Efficiency and Renewable Energy Technologies (EWG 01/2009S)	USA
11:30-12:00	- Addressing Challenges of AMI Deployment in APEC (EWG 07/2011A)	Chinese Taipei
12:00-13:30	Lunch	
13:30-14:00	Overview of APEC New Project Proposal Process	Chair
14:00-15:00	Discussion - EGRNET/EGEE&C Joint Project Opportunities - Potential Joint Activities - Biofuels Task Force (BTF) - Low-Carbon Model Town Task Force (LCMT TF) - Peer Review on Policies to Promote Low-Carbon Energy Supply (PRLCE) - APEC Smart Grid Initiative (ASGI) - Energy-Smart Communities Initiative (ESCI) - Cooperation with Other Fora/Organizations	Chair
15:00-15:30	Coffee Break	
15:30-16:30	Development of Project Proposal for 2011/2012 Funding	Chair
16:30-17:00	EGNRET Administration & Operations - Review of EGNRET Terms of Reference - Next Expert Group Meeting - Other Business	Chair
17:00	Adjourn	
18:30	Banquet ( <i>Shin Yeh 101 Ambiance</i> )	

**Wednesday & Thursday, 24 & 25 August, 2011**

2011 APEC Workshop on Addressing Challenges in AMI Deployment and Smart Grid in APEC Region

Venue: Room 201DEF, Taipei International Convention Center (TICC)

*(Detailed Program: Please see the next page.)*

**Wednesday, 24 August, 2011**

08:30-12:20	Day 1 - Morning Session	Invited Speakers
12:20-13:30	Lunch	
13:30-15:50	Day 1 - Afternoon Session	Invited Speakers
<b>15:50-16:50</b>	<b>The Policy and Strategy Overview of AMI/AMR in APEC Member Economies</b>	<b>EGNRET Delegates</b>
16:50-17:10	Panel Discussion (Q & A)	

**Thursday, 25 August, 2011**

08:30-12:00	Day 2 - Morning Session	Invited Speakers
12:00-13:00	Lunch	
13:00-16:30	Day 2 - Afternoon Session	Invited Speakers

**Friday, 26 August, 2011**

2011 International Workshop on Microalgal Biofuel Technology

Venue: Room 103, Taipei International Convention Center (TICC)

*(Detailed Program: Please see page 7.)*

08:45-11:45	Morning Session	Invited Speakers
11:45-13:00	Lunch	
13:30-16:50	Afternoon Session	Invited Speakers

**2011 APEC Workshop on  
Addressing Challenges in AMI Deployment and Smart Grids in APEC Region**

**Room 201DEF, Taipei International Convention Center (TICC)  
(Meeting:)  
Taipei, Chinese Taipei  
August 24-25, 2011**

<b>Wednesday, August 24th, 2011</b>		
<b>Time</b>	<b>Presentation Topic</b>	<b>Speaker</b>
8:30~9:00	Registration	
9:00~9:10	Opening Remarks	
<b>Session 1: The Challenge on Deployment Integration</b>		
9:10~9:30	Advanced Metering Infrastructure (AMI) Development in Chinese Taipei	Speaker: Morris Liang Division Director, Industrial Technology Research Institute (ITRI) Chinese Taipei
9:30~10:00	Introduction to the APEC Smart Grid Initiative (ASGI)	Speaker: Cary N. Bloyd Senior International Research Advisor, Pacific Northwest National Laboratory U.S.A.
10:00~10:40	Challenges and Benefits of Advanced Metering Infrastructure (AMI) Development in U.S.A.	Speaker: Brian K. Seal Technical Executive, Electric Power Research Institute U.S.A.
10:40~11:00	Tea Break	
11:00~11:40	AMI – Challenges and Benefits SmartMeter Experience at PG&E	Speaker: Lanyuen Belvin Louie Manager, Pacific Gas & Electric (PG&E) U.S.A.
11:40~12:20	AMI Development in Korea	Speaker: Jerry Yang Team Lead, Korea Smart Grid Institute (KSIGI) Korea
12:20~13:30	Lunch	
<b>Session 2: The Challenge on Maintenance and Service</b>		
13:30~14:10	The Construction and Future Development of Intellect Power in China	Speaker: Wei-Min Hao Committee Member, The Chinese Institute of Electrical Engineering

		China
14:10~14:50	Policy and Strategic Overview of AMI Application for France	Speaker: Antoine Garibal Vice President, Atos France
14:50~15:10	Tea Break	
15:10~15:50	Introduction of Kansai's "New Metering System" (AMI)	Speaker: Koji Maegawa Manager, Kansai Electric Power Company Japan
<b>Session 3: The Policy and Strategic Overview of AMI/AMR in APEC</b>		
15:50~16:50	The Policy and Strategy Overview of AMI/AMR in APEC Member Economies	APEC Delegates
16:50~17:10	Panel Discussion (Q&A)	Chair: Morris Liang Division Director, Industrial Technology Research Institute (ITRI) Chinese Taipei

<b>Thursday, August 25th, 2011</b>		
<b>Time</b>	<b>Presentation Topic</b>	<b>Speaker</b>
8:30~9:00	Registration	
<b>Session 4: Market Trends and Opportunities on Smart Grid</b>		
9:00~9:40	Trend and Market Overview of Global Smart Grid Development	Speaker: Debashis Tarafdar Head-Asia/Pacific, IDC Energy Insights U.S.A
9:40~10:20	Moving Beyond AMI deployment in Sweden and Realizing the Value of the Smart Grid	Speaker: Hakan Johansson Manager, ABB Sweden
10:20~10:40	Tea Break	
10:40~11:20	China Smart Grid Development Model and Industry Prospect	Speaker: Jian-Dong Wu Vice-chairman, China Wisdom Engineering Association China
11:20~12:00	Smart Grid Development in Japan	Speaker: Kazuyuki Takada Deputy Director, Smart Community Department NEDO Japan
12:00~13:00	Lunch	

<b>Session 5: Aspects of Technology on Smart Grid</b>		
13:00~13:40	Fast Automated Demand Response to Enable the Integration of Renewable Resources	Speaker: Dave Watson Program Manager, Lawrence Berkeley National Lab (LBNL) U.S.A.
13:40~14:20	Decentralized Energy Systems in Germany: Development and Research	Speaker: Maren Kuschke Research Assistant, Berlin University of Technology Germany
14:20~14:40	Tea Break	
14:40~15:20	JEJU Smart Grid Test Bed in Korea	Speaker: Dae Kyeong Kim Doctor, Korea Electrotechnology Research Institute (KERI) Korea
15:20~16:00	Advanced Control Architectures of Energy Microgrid Clusters: Towards the Smart Grid	Speaker: Josep M. Guerrero Professor, Aalborg University Denmark
16:00~16:30	Panel Discussion (Q&A) and Closing Remarks	Chair: Morris Liang Division Director, Industrial Technology Research Institute (ITRI) Chinese Taipei

**2011 International Workshop on Microalgal Biofuel Technology**  
**Room 103, Taipei International Convention Center (TICC), Taipei, Chinese Taipei**  
**Friday, 26 August, 2011**

<b>Time</b>	<b>Program</b>	<b>Speaker/Affiliation</b>	<b>Chair</b>
08:45-09:15	Registration		
09:15-09:30	Welcome & Opening Remarks		Dr. Chen-Pang Liu
09:30-10:00	Overview of Algal Biofuel Technology Development in Chinese Taipei	Dr. Hom-Ti Lee Green Energy and Environment Labs., Industrial Technology Research Institute, Chinese Taipei	Dr. Su-Fang Huang
10:00-10:30	Microalgae as a Feedstock for Biofuels Production and Biorefinery	Prof. Jo-Shu Chang National Cheng Kung University, Chinese Taipei	
10:30-10:45	Break		
10:45-11:45	Innovation in Algal Biofuels within the NAABB Consortium	Dr. Jose Olivares Los Alamos National Laboratory, USA	Dr. Hom-Ti Lee
11:45-13:00	Lunch		
13:00-13:30	Increased Storage Lipid Synthesis in Transgenic <i>Chlorella</i> by Overexpression of Kennedy Pathway Genes and Starch Synthetase Mutation	Dr. Hsin-Ju Hsieh Material and Chemical Labs., Industrial Technology Research Institute, Chinese Taipei	Prof. Jo-Shu Chang
13:30-14:30	Biorefinery of Microalgae	Prof.dr.ir. Rene H. Wijffels Wageningen University, Netherland	
14:30-14:45	Break		
14:45-15:45	Reproduction of Microalgae: Coming Down to the Basis	Dr. Su-Chiung Fang Academia Sinica, Chinese Taipei	Prof. Hong-Nong Chou
15:45-16:45	Current Status of Researches on Hydrocarbon-Producing Microalgae	Prof. Makoto M. Watanabe University of Tsukuba, Japan	
16:45-16:50	Closing Remarks	Dr. Hom-Ti Lee	