EWG35

Iquitos, Peru, 5–6 March 2008

EWG35 Summary Record

The 35th Meeting of the APEC Energy Working Group (EWG) was held in Iquitos, Peru, from 5–6 March 2008. Mr John Ryan, EWG Lead Shepherd chaired the meeting, and Mr Juan Valdivia Romero, Minister, Peruvian Minister of Energy and Mines, and Mr Pedro Gamio Aita, Peruvian Vice-Minister, Energy and Mines Co-Chaired the meeting.

Delegates from APEC economies Australia; Brunei Darussalam, Canada; Chile, People's Republic of China; Hong Kong, China; Indonesia, Japan; Republic of Korea; Malaysia; Mexico; New Zealand; Peru; Philippines; the Russian Federation; Singapore; Chinese Taipei; and the United States attended the meeting.

Representatives from the Asia Pacific Energy Research Centre (APERC); Energy Business Network (EBN); APEC and EWG Secretariats; Expert Groups on Energy Data and Analysis (EGEDA), New and Renewable Energy Technologies (EGNRET), Clean Fossil Energy (EGCFE), Energy Efficiency and Conservation (EGEEC); Chair of the APEC Biofuels Task Force (BFTF) and the Energy Efficiency and Renewable Energy (EE & RE) Financing Task Force; also participated in the meeting. A list of EWG35 participants is at **Attachment A**.

1. Opening Addresses and Adoption of the Agenda

The EWG Lead Shepherd welcomed delegates and thanked Peru for hosting EWG35 and associated meetings. The Lead Shepherd introduced members to the Co-Chair, Mr Juan Valdivia Romero, Minister for Energy and Mines, Peru and Mr Pedro Gamio Aita, Vice-Minister, Ministry of Energy and Mines.

The Co-Chair also welcomed EWG35 delegates to Peru noting the opportunity EWG35 provides to implement the instructions of APEC Energy Ministers from EMM8 in Darwin. The Co-Chair noted that Peru is committed to energy security, energy efficiency and the development of new renewable energy. He expressed his hope that the outcomes of this meeting will contribute to the further development of energy trade and investment in the region, and noted the importance of energy to sustainable development. The Co-Chair also noted the importance of environmental considerations in the EWG's work to mitigate global warming.

The Lead Shepherd thanked the Co-Chair for his welcome. The Lead Shepherd reminded members that the Darwin Declaration formed an important component of APEC Leader's consideration of clean development and climate change at their meeting in Sydney. Leaders subsequently called for specific action to improve energy efficiency and to accelerate the adoption and deployment of clean energy technologies including setting individual goals and action plans for improving energy efficiency.

7. Report of the 20th Meeting of EWG Expert Group & Task Force Chairs and APERC

The EWG Secretariat reported to members on the 20th Meeting of EWG Expert Group & Task Force Chairs and APERC, held on 3 March 2008, Iquitos, Peru.

The report of the EWG Secretariat and the Progress Reports of the Expert Groups and Task Forces will be available from the EWG website.

Actions Arising/Next Steps

- EWG Secretariat Report and Progress Report of the Expert Groups and Task Forces to be posted on the EWG website.

8. APERC President's Report

The APERC President, Mr Kimura, reported to members on progress of APERC's current activities since EWG34, including its following four research projects.

- Understanding Energy in China – Phase I.
- Energy Efficiency in the APEC region.
- Urban Transport Energy Use in the APEC Region – Phase II.
- Understanding International Energy Initiatives – Phase II.

APERC reported on its following recent activities.

- APERC Mid Year Workshop held 29-30 November 2007 in Tokyo.
- EGEDA meeting held 14-15 January 2008.
- APERC Annual Conference held 20-22 February 2008 in Tokyo.
- APERC Advisory Board Meeting held 22 February in Tokyo.

In addition, APERC outlined its proposed new research studies for 2008/09, specifically:

- APEC Energy Demand and Supply Outlook;
- Understanding Energy in China – Phase II; and
- APEC Peer Review on Energy Efficiency.

In regard to the PREE, APERC noted the need to undertake further work to develop Terms of Reference and guidelines for the conduct of the reviews. Japan's PREE proposal will form the basis of this work. Japan also requested that economies volunteer to undergo a Peer Review.

The Philippines noted that it did not receive an invitation to the last APERC Annual Conference and requested that APERC ensure it is invited to all APERC conferences. The Lead Shepherd suggested that APERC update its contact list to ensure current delegates are invited to APERC events. Australia noted its difficulty with timing and its inability to send a representative to the last APERC Annual Conference.

APERC requested that members provide data on installed power generation capacity by fuel (e.g. coal, natural gas) and by size.

The Lead Shepherd noted that APERC would welcome financial contributions from member to assist APERC in conducting its work.

The Lead Shepherd acknowledged with appreciation the very important role that APERC and its research outcomes play in the APEC region. He commended APERC on its previous and planned work.

Members can access APERC publications from www.ieej.or.jp/aperc

Actions Arising/Next Steps

- The EWG Secretariat will work with Japan, consult with members to develop the practical arrangements for the conduct of the PREE.
- APERC to make formal approaches to economies (via email or letter) when requesting information and data input from APEC members.
- APERC to update its contact list to ensure that all EWG members are invited to APERC events.

9. Statements on Notable Energy Developments since EWG34

The Lead Shepherd thanked Australia; Hong Kong, China;, Indonesia, Japan, Republic of Korea, Mexico, New Zealand, Chinese Taipei and the United States for their Statements on Notable Energy Developments. Members who tabled statements at EWG35 were requested to e-mail electronic copies to the EWG Secretariat for posting on the EWG website by 30 March 2008.

Action Arising/Next Steps

- Members who tabled their statements at EWG35 to e-mail electronic versions to the EWG Secretariat by 30 March 2008.

10. Engagement with Other Fora

The Lead Shepherd stated that Energy Ministers have instructed the EWG to advance collaboration with other international fora to promote broader energy cooperation, enhance emergency preparedness, promote energy efficient transport and alternative transport fuels, improve energy efficiency and develop cleaner and more efficient energy technologies.

The Lead Shepherd stated that EWG Guests now included the International Energy Agency, the Renewable Energy and Energy Efficiency Partnership (REEEP) and the Energy Charter Secretariat (ECS).

Members were also advised that the Asia Pacific Partnership on Clean Development and Climate's Buildings and Appliances Task Force has been given guest status on the EWG Expert Group on Energy Efficiency and Conservation until 31 December 2009. The EGEEC noted that that the APP Buildings and Appliances Task Force has been invited to participate in their next meeting.

The Lead Shepherd noted that the EWG has been encouraged to collaborate on alternative fuels with the IEA and the Global Bioenergy Partnership and requested that the APEC Biofuels Task Force and EGNRET report to EWG36 on potential areas of cooperation.

Members were advised that the APEC Agricultural Technical Cooperation Working Group (ATCWG) had requested cooperation with the EWG on agricultural related bio-fuel projects and

that Brazil has been granted guest status on the APEC Biofuels Task Force and attended a meeting of the APEC Biofuels Task Force.

The Chair of the Biofuels Task Force reported to members on future cooperation between the EWG and the Global Bioenergy Partnership and advised that the Biofuels Task Force will present to the group in regard to sustainable development.

The Chair of the Biofuels Task Force also noted that he has been in contact with the ATCWG for the purpose of cross referencing project proposals to BMC and to coordinate requests to the BMC. It was also noted that a US-ASEAN meeting in Thailand is being organised to address the biodeisel standards work being undertaken under ASEAN and the East Asia Summit.

Japan noted that it would be beneficial to cooperate with the Energy Charter Secretariat (ECS) on energy trade and investment matters. Japan requested that the ECS be invited to attend the next meeting of the EWG to make a presentation. The Lead Shepherd noted that the ECS is also likely to be involved in the upcoming APEC Energy Trade and Investment Roundtable.

Russia noted the work of the International Energy Forum and linkages with the Joint Oil Data Initiative (JODI).

Actions Arising/Next Steps

- EWG Secretariat to contact the Energy Charter Secretariat to arrange a presentation at EWG36.
- Members to notify EWG Secretariat of engagement and outcome of cooperation activities when they are undertaken so that they may be included in agenda papers for the meeting.
- Japan to send a representative to the next APEC Transportation Working Group Maritime Security Sub-Group meeting in Manila, Philippines, 14 – 18 April 2008. EWG Secretariat to provide relevant briefing and presentation.

11. EWG Work Plan: 2007-2009

The Lead Shepherd advised members that the current EWG Work Program for 2007-2009 incorporates Ministers and Leaders instructions and provides a comprehensive overview of what is expected from the EWG. It was noted that the work plan will be updated for EWG36.

Actions Arising/Next Steps

- EWG Secretariat to post the agreed Work plan on the EWG website.
- EWG Secretariat to update the work plan for EWG36.

12. EWG Project Funding 2009 – Endorsement of Project Proposals

Members noted that 29 project proposals for 2009 had been submitted to EWG35 for consideration, endorsement and ranking by members. Members ranked the projects in accordance with the agreed EWG method.

Members agreed to submit to the BMC the following 2009 project proposals:

- 10 Operational Account projects;

- 6 Trade and Investment Facilitation Account projects; and
- 12 APEC Support Fund projects.

There was 1 self funded project submitted for the information of EWG members.

Members ranked the projects in the following order in accordance with the agreed EWG method.

Operational Account and APEC Support Fund Projects

Operational Account and APEC Support Fund Projects total $US1,356,970

ASF & OPERATIONAL PROJECTS 2009

PROJECT TITLE	EG Chair/ Overseer	Project No.	Budget	APEC US$	Total Value	Final Rank	Accumulated Total
APEC Peer Review on Energy Efficiency(APEC/PREE)	Kotaro Kimura, Japan	A12	$3,500,000	$50,000	116	**1**	
Operation of APEC Energy Database and Analysis	Kenichi Matsui, EGEDA	O5	$145,000	$30,000	125	**2**	**80,000**
Addressing Grid-interconnection Issues in Order to Maximize the Utilization of New and Renewable Energy Sources	Koichi Inoue, EGNRET	O1	$75,000	$50,000	126	**3**	**130,000**
Resource Potential of Algae for Biodiesel Production	Dr Tom Beer, BTF	A6	$97,500	$50,000	159	**4**	**180,000**
Implementation of CO2 Emission Reduction Technologies and Methods for Fossil Fuel Installations	Scott Smouse, EGCFE	O4	$160,000	$80,000	162	**5**	**260,000**
Overview of APEC Energy Working Group Projects - Stage 3	Jan McCallum-Johnston, Australia	O10	$50,000	$50,000	164	**6**	**310,000**
Capacity Development Workshop - Facilitation of International Harmonization of Standards for Energy Management in APEC	Li Tienan, EGEEC	O2	$85,000	$55,000	165	**7**	**365,000**
Sustainable Biofuels Development Practices	Jeffrey Skeer, BTF	A9	$120,000	$80,000	176	**8**	**445,000**
APEC 21st Century Renewable Energy Development Initiative (Collaborative I): Survey of Best Practices of Building integrated Energy Efficiency and Renewable Energy in APEC Economies	Harvey Major, EGNRET	A2	$150,000	$100,000	178	**9**	**545,000**
Fossil Power Plant Efficiency and CO2 Emissions Monitoring and Reporting in Developing Asian APEC Economies	Scott Smouse, EGCFE	O3	$120,000	$80,000	197	**10**	**625,000**

Overview of Energy Diversification Policies in APEC to Mitigate Long Term Energy Security Risks	Francisco Acosta Arredondo, EGCFE	A11	$130,000	$50,000	199	**11**	**675,000**
Potential for Biomass-to-Liquids (BTL) production and trading throughout the APEC region	Nichola Bennett, EGNRET	O6	$112,500	$75,000	203	**12**	**750,000**
Carbon footprints associated with New and Renewable Energy production and use in APEC economies	Nichola Bennett, EGNRET	O7	$138,000	$92,000	208	**13**	**842,000**
Biofuel Feedstock Costs, Technology & Economics	Jeffrey Skeer, BTF	A7	$75,000	$50,000	216	**14**	**892,000**
Case Studies of Public Education and Information Campaigns in APEC economies, and Development of Best Practice Guidelines	Scott Smouse, EGCFE	A10	$160,000	$80,000	239	**15**	**972,000**
Renewable electricity and electric vehicles - status and potential in APEC economies	Nichola Bennett, EGNRET	O8	$112,500	$75,000	240	**16**	**1,047,000**
Workshop on Opportunities for Marine Energy development in APEC economies.	Nichola Bennett, EGNRET	O9	$75,000	$50,000	253	**17**	**1,097,000**
Carbon Capturing Biofuels Resource Potential	Jeffrey Skeer, BTF	A5	$90,000	$60,000	260	**18**	**1,157,000**
APEC 21st Century Renewable Energy Development Initiative (Collaborative V I): Workshop on the use of renewable energy technologies in disaster response	Harvey Major, EGNRET	A8	$75,000	$50,000	268	**19**	**1,207,000**
Energy-Saving Doors and Windows: Survey of Policies and Programs to Promote Advanced Fenestration Technologies in APEC Economies	Jeffrey Skeer, EGEEC	A4	$100,000	$50,000	272	**20**	**1,257,000**
Survey of Cool Roofs in APEC Economies: Experience, Best Practices and Potential Benefits	Jeffrey Skeer, EGEEC	A3	$100,000	$50,000	276	**21**	**1,307,000**
Energy and Water Efficiency in Water Supply: Practical Training on Proven Approaches	Jeffrey Skeer, EGEEC	A1	$49,970	$49,970	295	**22**	**1,356,970**

Trade and Investment Facilitation Special Account Projects

Trade and Investment Facilitation Special Account Projects total $US375,000

TILF PROJECTS 2009

PROJECT TITLE	EG Chair/ Overseer	Project No.	Budget	APEC US$	Total Value	Final Rank	Accumulated Total
Reducing barriers to trade through development of a common protocol for measuring the seasonal energy efficiency (SEER) of air conditioners	Robert Hu, EGEEC	T1	$250,000	$60,000	47	**1**	
Alignment of national standby power approaches	Rachael Clarke, EGEEC	T3	$50,000	$50,000	63	**2**	**110,000**
CFL Round-Robin Testing to Benchmark Regional Testing Laboratory Capacity	Melanie Slade, EGEEC	T4	$160,000	$80,000	64	**3**	**190,000**
Harmonization of methodologies to assess the impacts of energy efficiency standards in APEC economies	Juan Mata Sandoval, (M) EGEEC	T6	$120,000	$100,000	70	**4**	**290,000**
Survey on Best-practices in Promoting Efficient Lighting Products and Phasing out incandescent Bulbs in APEC Economies	Li Tienan, ECEEC	T5	$85,000	$55,000	71	**5**	**345,000**
Supporting APEC Energy Standards Information System (ESIS) System	Robert Tromop, EGEEC	T2	$60,000	$30,000	73	**6**	**375,000**

Self Funded Projects

SF	APEC 2008 Photovoltaic Conference	Chinese Taipei

Actions Arising/Next Steps

- Project proponents to develop full-length project proposals for submission to the EWG Secretariat by 4 September 2008.

13. Review of EWG Lead Shepherd and Secretariat Arrangements

The Lead Shepherd noted the APEC guidelines concerning the rotation system for the Lead Shepherd position. The Lead Shepherd invited nominations from members for the EWG Lead Shepherd and EWG Secretariat roles.

As no nominations were received, Australia announced that it will continue to provide the Lead Shepherd and EWG Secretariat. Members indicated their support and appreciation of Australia's role in providing these roles. At the same time, Australia noted that forthcoming budget cuts could affect its ability to perform these functions.

Actions Arising/Next Steps

- Australia will continue to undertake the responsibilities of the EWG Lead Shepherd and EWG Secretariat roles.
- The EWG Lead Shepherd and Secretariat arrangements will be reviewed at each EWG meeting when an economy exceeds the maximum permitted period.

14. Date for Next Meeting(s)

The Philippines advised members that it will host EWG36 during last week of November or the first week of December 2008 and agreed to provide further details out-of-session. The meeting will be held in Metro Manila. EWG36 will be held back to back with celebrations of the Philippines' National Energy Week.

Actions Arising/Next Steps

- EWG Secretariat to work with the Philippines to finalise the date for EWG36 and to make arrangements for the meeting.

15. Other Business

The high level of paper consumption at EWG meetings and it agreed that one copy of EWG meeting papers will be provided per delegation.

Actions Arising/Other Matters

- One copy of EWG meeting papers will be provided per delegation.

16. Document Access

Members decided on classification of documents from EWG35. Only project proposals that are approved for funding will be made available to the public.

Action Arising/Next Steps

- Members to provide the EWG Secretariat with electronic copies of all documents tabled at the meeting to enable the EWG Secretariat to post on the EWG website.

17. Summary Record

A draft Summary Record of EWG35 was prepared by the EWG Secretariat and made available electronically to members at the meeting. The draft will also be emailed to members for their comments within the coming two weeks.

Actions Arising/Next Steps

- Members to provide comments on the draft Summary Record by 21 March 2008.

The Lead Shepherd closed the meeting and thanked the hosts for their excellent organisation of the meeting and their kind hospitality.

The Co-Chair, Mr Pedro Gamio Aita, Vice-Minister, Ministry of Energy and Mining also provided his closing comments, thanking members for their participation, noting the importance of this forum for the development of best practices, the sharing of information, and the strengthening of international relationships. The co-chair thanked Iquitos for hosting the meeting and passed on the regards of Mr Juan Valdivia Romero, Minister, Peruvian Minister of Energy and Mines.

All relevant papers and presentations, including the Summary Record will be posted on the EWG website.

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Attachment A

List of EWG35 Participants

EWG35 Co-Chairs

Minister Juan Valdivia Romero (Peru)	Ministry of Energy and Mines
Vice Minister Pedro Gamio Aita (Peru)	Ministry of Energy and Mines
John Ryan (Australia)	Department of Resources, Energy and Tourism

Australia

John Griffiths	Department of Resources, Energy and Tourism

Brunei Darrusalam

Mohammad Anas Abdul Latrif	Prime Ministers Office
Hj Alidi Mahmud	Prime Ministers Office
Ahmad Haji Mohamad	Prime Ministers Office
Siti Hafsah Haji Abdul Hamid	Prime Ministers Office

Canada

Steve Dandzurovski	Natural Resources Canada

Chile

Carlos Pina	National Energy Commission

People's Republic of China

Xianguo Tong	Ministry of Foreign Affairs
Yihui Wang	National Development and Reform Commission
Ziming Xu	National Development and Reform Commission

Hong Kong, China

Mak Ka Chun	Electrical & Mechanical Services Department
Sit Wing Hang	Electrical & Mechanical Services Department

Indonesia

Sugeng Mujiyanto	Ministry of Energy & Mineral Resources
Maritje Hutapea	Ministry of Energy & Mineral Resources
Lydia Hardiani	Ministry of Energy and Mineral Resources
Ms Indarti	Ministry of Energy and Mineral Resources
Mr Madjeli	Ministry of Energy and Mineral Resources

Japan

Shigeru Kimura	Institute of Energy Economics Japan
Yukinori Seki	Ministry of Economy, Trade and Industry
Kiyoshi Mori	Ministry of Economy, Trade and Industry
Koichi Murakami	Ministry of Foreign Affairs

Korea

Gue Jae Jeong	Korea Energy Economics Institute
Youchon Oh	Ministry of Commerce, Industry and Energy
Dong Sik Shin	Korea Energy Management Corporation

(Korea cont.)

Young Soo Lee	Korea Gas Corporation
Seung Man Park	Korea National Oil Corporation

Malaysia

P Jayanthi Paramaguru	Ministry of Energy, Water and Communications
Somasundram Ramasamy	Ministry of Energy, Water and Communications

Mexico

Leydi Barcelo	Secretariat of Energy

New Zealand

Nicola Bennett	Ministry of Economic Development

Peru

Jorge Aguinaga Diaz	Ministry of Energy and Mines
Gustavo Navarro Valdivia	Ministry of Energy and Mines
Amadeo Prado Benitez	Ministry of Energy and Mines
José Robles Freire	Ministry of Energy and Mines
Humberto Armas Infante	Ministry of Energy and Mines
Luis Zavaleta Vargas	Ministry of Energy and Mines
Luis Vilchez Leon	Ministry of Energy and Mines
Julio Cesar Romani	Ministry of Energy and Mines
Ivan Llamas Montoya	Nuclear Energy Peruvian Institute
Verónica Rojas Montes	Ministry of Energy and Mines

The Philippines

William Quinto	Department of Energy

The Russian Federation

Igor Shcheulov	Ministry of Industry and Energy
Marina Mikaelyan	Ministry of Industry and Energy
Dmitry Piskunov	Ministry of Industry and Energy

Singapore

Latha Ganesh	Energy Market Authority
Siew Kwong Wong	Energy Market Authority
Shi Siam Poh	Energy Market Authority

Chinese Taipei

Jyuung-Shiauu Chern	Ministry of Economic Affairs
Huey-Ching Yeh	Bureau of Energy, Ministry of Economic Affairs
Yu-sin Wang	Taiwan Institute of Economic Research
Feng Shuo Yang	Taiwan Institute of Economic Research

United States of America

Jeff Skeer	Department of Energy
Marcos Mondojana	US Embassy, Lima, Peru
Joel Kopp	Department of State

APERC

Kotaro Kimura	Asia Pacific Energy Research Centre
Yonghun Jung	Asia Pacific Energy Research Centre
Naoko Doi	Asia Pacific Energy Research Centre
Shohei Okano	Asia Pacific Energy Research Centre

(APERC cont.)

Sau Yi Wan	Asia Pacific Energy Research Centre
Satoshi Nakanishi	Asia Pacific Energy Research Centre

EGEDA

Jane Melanie	Australian Bureau of Agricultural Resource Economics

EGEEC

Robert Tromop	Energy Efficiency and Conservation Authority

EGCFE

Scott Smouse	US Department of Energy

EGNRET

Dr David Natusch (Representing Dr Cary Bloyd)	Resource Development Ltd

EBN

Dr David Natusch	Resource Development Ltd
Jonathan Leuchs	US National Centre for APEC

APEC Secretariat

Sun Tao	Director (Program)

EWG Secretariat

Stacey Matthews	Department of Resources, Energy and Tourism
Andrew Scally	Department of Resources, Energy and Tourism
Jan McCallum-Johnston	Department of Resources, Energy and Tourism