



Energy Working Group

Twentieth Meeting, Cusco, Peru 19-20 October 2000

Summary Record

The twentieth meeting of the APEC Energy Working Group (EWG) was held in Cusco, Peru on 19-20 October 2000. Australia and Peru co-chaired the meeting.

Delegates from Australia; Brunei Darussalam; Canada; Chile; the People's Republic of China; Hong Kong, China; Japan; the Republic of Korea; Mexico; New Zealand; Peru; Russia, Singapore; Chinese Taipei; Thailand; and the United States of America participated in the meeting. Representatives from the EWG and APEC Secretariats also attended. PECC and APERC were represented at the meeting. Bangladesh and Columbia attended as guests.

A list of participants is at [Attachment A](#).

1: Opening Address by Senor Ingeniero Jorge Chamot, Minister of Energy and Mines, addresses by the Co-Chairs of the meeting and the adoption of the Agenda

Senor Ingeniero Jorge Chamot, the Minister of Energy and Mines, Peru, presented an opening address which referred to the importance of adequate, affordable energy for sustainable development, the importance of all fuel types in meeting demand, the impact of energy on international competitiveness, and the importance of cooperation on alternative fuels, improved technology and energy conservation and efficiency. Delegates expressed their appreciation to the Minister for his address and the excellent meeting facilities provided by Peru.

The meeting adopted the agenda and agreed to changes in the order of items, as suggested by the co-Chair.

2: Report from the 4th Meeting of the EWG Business Network

Mr David Natusch, serving in the role of spokesman for the EWG Business Network (EBN) gave a report on the outcomes of the EBN's fourth meeting held in Phuket, Thailand, during August 2000. Members thanked Mr Natusch for his report and discussed the issues raised. Members deferred decisions to be made on EBN recommendations until agenda item 3.

3: Proposals arising from the 4th Meeting of the EWG Business Network

3.1: Discussion on APEC Economic Leaders' Conference in Brunei Darussalam and the Inclusion of Energy on the Agenda

Members agreed to postpone discussion on how to ensure that energy is on the agenda for the Economic Leaders meeting until agenda item 7.

3.2: Implementation Facilitation Assistance Team (IFAT) Update

The co-Chair invited Mr Natusch, a member of the IFAT, to present the team's report on the follow up visit to Thailand. Following the report by Mr Natusch, Thailand presented its report on the outcomes of the IFAT visit, which was considered to be highly successful by both Thailand and the IFAT.

There was a discussion on issues relating to IFAT visits including in respect of travel and accommodation costs for IFAT team members and team composition. These arose in response to a recommendation from the EWG-EBN that the "host" economy pay such expenses and EWG delegates questions on what had been agreed in terms of IFAT composition. Other issues relating to processes involved in IFAT visits were raised. Members agreed that arrangements may differ from economy to economy at the discretion of the individual economy, but requested that the EWG Secretariat develop a set of guidelines for the operation of IFAT teams, including costs, for consideration by members. These guidelines will draw upon decisions taken by the EWG. The general sentiment was that "host" economies should be prepared to fund the "out-of-pocket" expenses for IFAT members. However, how the "host" economy sourced such funds was a matter for that economy.

One economy pointed out that IFAT is just one of the many activities developed by APEC and that it should not be construed as the key format of advancing APEC energy initiatives. It was pointed out that, as stated in the San Diego Ministerial Declaration, IFAT were conceived as invited visits of experts to share experiences on EWG initiatives

Members agreed on the need for consistent involvement of other bodies in IFAT activities, such as expert groups and the ERF.

The United States advised that it is planning to invite an IFAT team on electricity markets during 2001.

Action Arising/Next Steps

- Taking into account decisions taken by the EWG the EWG Secretariat will prepare draft guidelines on conduct of the IFAT process for consideration by members

3.3: New and Renewable Energy

EWG members welcomed the interest of the EBN in technology transfer, but noted that there are many bodies involved in this area of activity. They also noted that technology transfer had importance much wider than renewable energy. Further, they agreed that the primary contribution that the EBN could make to technology transfer was in relation to their experience in respect of investment matters. Members agreed that these points ought be included in an issues paper to be prepared by the EWG Secretariat for the EBN for consideration at the next meeting of the EBN. It was noted that the technology transfer report being prepared under the *Environmentally Sound Infrastructure*

Project would provide a valuable resource. Further, it was agreed that the Secretariat's issues paper should seek clarification from the EBN on how it perceives its potential role in technology transfer.

Action Arising/Next Steps

- EWG Secretariat to prepare an issues paper for the EBN on how the EBN may be a catalyst for technology transfer and circulate to members for comment prior to forwarding to the EBN for consideration by the EBN at its next meeting.

4: Secretariat Reports

4.1: APEC Secretariat

Mr Yang Yafei of the APEC Secretariat presented a report to members on recent APEC developments. Members noted the APEC financial prospects for the coming few years and its implication for future EWG-APEC funded projects.

Action Arising/Next steps

- Nil

4.2 EWG Secretariat

The EWG Secretariat reported on some key issues within the EWG and gave a brief presentation on the APEC EWG web-site. Members noted the report of the EWG Secretary and welcomed the presentation.

Action Arising/next steps

- Nil

5: Notable Energy Developments in individual economies since EWG19 (April 2000)

The co-Chair, on behalf of the Secretariat, thanked those members who had submitted their statement on notable energy developments, namely Australia, Chile, Hong Kong, China, Japan, Korea, Mexico, New Zealand, Chinese Taipei, Singapore, and the United States of America. Members agreed to continue the practice of submitting these reports. The co-Chair encouraged members who had not submitted their statements on notable energy developments to forward them to the EWG Secretariat for subsequent circulation to members.

Members recognised that individual member presentations on notable developments within the meeting was an excellent way to share information so that a deeper understanding of energy issues by member economies is achieved but agreed that time constraints dictate that the existing arrangements of written reporting and questions rather than formal presentations should be maintained.

Action Arising/Next Steps

- Those members wishing to submit their statement on notable energy developments are invited to provide an electronic version to the EWG Secretariat by 31 October 2000.
- The EWG Secretariat is to circulate the additional documents to members by the end of November 2000.

6: Effectively addressing priority issues identified by Ministers

6.1: EWG Implementation Strategy

Members supported the reporting format developed by the EWG Secretariat, but expressed a concern that the reporting process could become unwieldy unless greater consolidation takes place. The EWG Secretariat undertook to examine the feasibility of condensing individual comments into consolidated paragraphs under each heading and would do this for the current report if time permitted.

The co-Chair noted that only seven economies had submitted reports and encouraged economies to provide written reports to the EWG Secretariat before October 31 to enable a more comprehensive report to Leaders to be developed.

Some delegates suggested changes to the entries relating to their economies and agreed to provide these in writing to the EWG Secretariat. It was agreed that the final draft report would be circulated to members for comment before submission.

Action Arising/Next Steps

- Economies seeking changes to their entries in the consolidated report to advise the EWG Secretariat before 31 October 2000.
- Those economies that have not done so are invited to provide a report to the EWG Secretariat before October 31, 2000.
- The EWG Secretariat is to prepare a consolidated report and circulate this to members for clearance before forwarding it to Leaders through normal APEC processes.

6.2: Earthquake Response Cooperation Initiative-Implementation Program

Chinese Taipei presented the implementation program for the Earthquake Response Cooperation Initiative.

Members thanked Chinese Taipei for their presentation and agreed to the proposal. Consistent with APEC protocols, members agreed that contact with non-APEC organisations be in accordance with APEC guidelines. A number of economies expressed a desire to be directly involved with implementation of the initiative. Chinese Taipei will contact those economies.

Action Arising/Next Steps

- Chinese Taipei will contact member economies seeking expressions of interest from those that wish to be directly involved in the Earthquake Response Initiative.
- Chinese Taipei is to keep Member Economies informed of progress on the initiative by periodic reports to the EWG.

6.3: 21st Century Renewable Energy Development Initiative

The co-Chair invited the United States to give a presentation on the revised *21st Century Renewable Energy Development Initiative*. Following the presentation, members discussed the revised proposal, sought clarification on some of its elements, agreed to it proceeding, and provided guidance to the Expert Group on New and Renewable Energy Technologies (NGRET). Members considered the proposal to be a valuable initiative and agreed that after the first event had been held, the Expert Group might analyse the effectiveness of the methodology to see if it could be improved. The review and lessons learned were to be advised to the EWG for consideration to facilitate more efficient replication in other APEC member economy localities.

The APEC Secretariat clarified that it was up to each economy to decide whom to include in its delegation, including nominated speakers.

It was agreed that the involvement of non-APEC organisations be further discussed.

Action Arising/Next Steps

- The EGNRET will finalise its proposal at its November 2000 meeting, taking into account the guidance provided by the EWG.

6.4: Program on Best Practice in Energy Services

The United States presented a revised program on *Best Practice in Energy Services*. Members discussed the proposal and agreed that the following phrase would be deleted from text in the proposal: "...and identify how government policies and practices can be changed, removed, or made less restrictive." They also agreed that option one, as contained in the proposal, was the preferred delivery method.

It was reconfirmed that the outcomes of this group would not in any way prejudice activities underway in other fora.

Members were advised that PECC and the EBN would be drafting the agenda for the first workshop and facilitating proceedings. It was agreed that EWG delegates would be given an opportunity to input to the process.

Action Arising/Next Steps

- The PECC energy forum and the United States will prepare an outline for delivery of the first of the Energy Services workshops and circulate the draft agenda to EWG Members for comment out-of-session

6.5: Framework for Cooperation on Energy Efficiency Testing Standards

Members discussed the implementation of the recommendations of the Steering Group on Energy Standards. Members agreed that implementation would be up to individual economies. Members noted that there would be a requirement for those economies wishing to participate to cooperate closely with the work of the Standards Coordinator. The Coordinator would be commissioned as part of the Standards coordinator project recently approved as a TILF project for 2001 funding.

It was agreed that the activities associated with implementation would be within APEC member economies.

Action Arising/Next Steps

- The Standards Coordinator is to establish contact with each member economy to determine the appropriate points of contact for implementation.
- Members wishing to participate in the initiative are to provide appropriate cooperation with the Standards Coordinator as required in the delivery of the Standards coordinator project.

7: Responding to APEC Senior Officials on Energy Questions

There was wide ranging discussion on existing and new initiatives that the EWG might make in response to a request from APEC Senior Officials for the EWG to report to Leaders. A proposal "Energy Security Initiative: Petroleum Stocks as an Option to Respond to Oil Supply Disruptions", advanced by the United States, was agreed as per attachment D to this summary record of the meeting. It was agreed that the EWG should follow up on the Energy Ministers message to Leaders to encourage comprehensive recognition of the importance of energy to the economy and the region. Suggested texts for the energy elements for Leaders and APEC Ministers were also agreed as per attachments B and C respectively.

Members also agreed that a more detailed report to Senior Officials, for Ministers and Leaders, would be provided by 28 October, once the content has been revised consistent with comments made, and cleared out of session.

The co-Chair, recognising both the importance and urgency of the oil market situation raised the question of the submission of an urgent project proposal to execute this initiative. It was agreed that this be pursued.

Action Arising/Next Steps

- The report to be circulated to members by 27 October 2000.

8: Report of the meeting of the EG Chairs, ERF Facilitator and APERC

Members noted the progress reports prepared in advance of the meeting by each of the Expert Groups, and APERC, and the report by the Chair of the Expert Group on Energy Efficiency and Conservation provided at the meeting. Members also noted the report presented by the EWG Secretariat on the outcomes of the Meeting of Expert Group Chairs on 16 October in Cusco.

A number of issues of protocol were raised. The EWG Secretariat undertook to rectify the language in the draft reports (subsequently done).

A question was raised as to whether the EWG had agreed to the attendance of the EBN at Expert Group Chair meetings. It was agreed that the EWG Secretariat would check to see whether such an agreement had been made. If it had not, then this issue will be either resolved out of session by consensus or if detailed issues emerge would be put on the agenda for discussion at the next EWG meeting.

Members noted that the Terms of Reference for the Expert Group on Clean Fossil Energy have been amended and will be reviewed at the Expert Group's meeting in November 2000. Members endorsed the revised Terms of Reference for the Expert Group on New and Renewable Energy Technologies. Members endorsed the establishment of an ad-hoc team in the Expert Group on Energy Data and Analysis (EGEDA) to carry out an in-depth review of the research activities of the APERC. Members were asked to comment on the draft APERC Energy Overview posted to the APERC web-site. Those comments received will be reflected in the final document.

Action Arising/Next Steps

- The Expert Group on Clean Fossil Energy to finalise its Terms of Reference and submit these to the EWG for consideration.
- The EWG Secretariat to examine past decisions of the EWG in respect of attendance at meetings of Expert Group chairs and advise members out of session with a view to reaching consensus on the protocol before the next meeting.

9: Report of the Energy Regulators' Meeting

A report on the eighth meeting of the ERF held in Cusco, Peru on 17-18 October 2000 was tabled.

Action Arising/Next Steps

- Members noted the report of the eighth meeting of the Energy Regulators Forum.

10: Progress on Other Key EWG Initiatives

10.1: Environmentally Sound Energy Infrastructure Project (Phase 1)

Canada gave a brief update on progress of phase one of this project and noted that two draft reports are currently being completed and will be circulated to EWG members out-of-session for consideration and endorsement. The proposal was strongly supported by members.

Action Arising/Next Steps

- Canada to provide draft reports to the EWG Secretariat for circulation to EWG members for comment.

10.2: Harmonising Economic and Environmental Objectives of Energy Policy (EWG 07/2001)

Members noted the importance of this initiative but did not endorse forwarding this proposal to the APEC budget and Management Committee as an “urgent proposal” as it failed to meet the APEC “urgent” criteria. EWG noted that the proposal was ranked the highest of those not funded in the last round and agreed to have the project put forward in the next project round.

Action Arising/Next Steps

- Australia to resubmit the proposal for the next budget round.

10.3: Strengthening Operational Aspects of APEC Energy Micro-Economic Reform Project (04/2000T)

The draft report of phase one of the project was noted and Korea advised that the language in the draft contained factual inaccuracies in respect of its economy and that as a result it considers that some conclusions are flawed. Korea will provide its comments in writing to the EWG Secretariat for these to be taken into account in finalising phase one of the project, prior to advancing to the next phase.

Members noted the project.

Action Arising/Next Steps

- The Republic of Korea will advise comments to the EWG Secretariat setting out its concerns regarding the factual accuracy of the report.
- The EWG Secretariat will take appropriate steps to address the concerns of the Republic of Korea in finalising stage one of the project and report back to the Republic of Korea on the steps taken to address those concerns.

11: Policy Dialogue (EWG Members only - No Observers or Guest Participants)

Members held a policy discussion on the topic “Renewable Energy - the dream and

reality". As previously agreed, no notes were taken on the discussions under this item, which was aimed at fostering an understanding amongst members of key policy issues and their implications.

The topic agreed for the next policy dialogue at EWG21 is energy efficiency.

12: Pledge and Review

Members noted the latest contribution to the voluntary pledge and review program received from Chile and the reports on the programs provided by Mexico and New Zealand.

Members agreed that this is an important initiative agreed by Energy Ministers and that it needed to be revitalised. The EWG Secretariat recommendations were agreed and Members agreed that the Expert Group on Energy Efficiency and Conservation could play a greater role in assisting member economies through appropriate studies. It was agreed that the EWG would review the pledges made to date to ascertain lessons learnt and seek assistance from the EGEE&C as appropriate.

Action Arising/Next Steps

- Member economies that have not submitted a pledge are encouraged to do so as soon as practical.
- The EWG Secretariat to implement the recommendations agreed and in consultation with EGEE&C, would develop a review document for consideration by the EWG.

13: Future Directions Paper

As agreed at EWG 19, the EWG Secretariat prepared a revised version of the Future Directions paper for members' review at EWG 20. The EWG Secretariat pointed out that the Future Directions paper does not adequately provide the EWG with a strategic framework or a clear vision for the future. The EWG Secretariat proposed a plan to develop a new document that contains a strategic framework and a vision for the future of the EWG for consideration by members. Members strongly supported the EWG Secretariats proposal.

The revised version of the Future Directions paper was noted. Members agreed that the revised paper needed no further consideration as the focus should be on the development of the new strategic framework document.

It was recognised that the final document would not be agreed at the workshop outlined in the EWG Secretariat's proposal. The final decision will be made by the EWG taking into consideration the recommendations stemming from the workshop. Because a decision is not going to be made at the workshop on a final document it would be appropriate to invite members of the Expert Groups, APERC, the ERF, and the EBN to attend the workshop.

The APEC Secretariat also noted that the SOM might be directed by APEC Ministers to review the Osaka Action Agenda. The APEC Secretariat noted that this may need

to be taken into account when Members are considering the future directions paper.

Action Arising/Next Steps

- Members to provide the EWG Secretariat with their ideas for incorporation into the document as soon as possible preferably by 30 November 2000.
- Based on members' input, the EWG Secretariat is to prepare a new draft document to be used as a basis for an initial "virtual meeting" to be held at a time to be determined
- Following the virtual meeting Members are to consider a revised draft of the new documents at a one day workshop on the day immediately preceding either EWG 21 or 22.
- If as a result of discussion at this workshop, substantive agreement can be reached on the content of the document, it could be endorsed by members at the EWG meeting. Otherwise it could be revised for consideration at the following EWG meeting.
- The final document, once agreed could be submitted to APEC Energy Ministers for endorsement at a future Energy Ministers' meeting or out of session.

14: EWG Operational Plan for 2001

The co-Chair noted that the EWG Secretariat prepared a draft Operational Plan for 2001 and circulated it in advance of EWG 20, seeking input from EWG members and Expert Group Chairs. The comments received will be incorporated into the revised draft Operational Plan for 2001 and circulated for final approval of members.

The Chair invited comment on the operational plan. Members advised the Secretariat of additional comments to be incorporated into the plan.

Action Arising/Next Steps

- Secretariat will circulate the amended operational plan for final approval of members.

15: Other Business

15.1: E-Commerce in Energy

The delegate from the Republic of Korea made a presentation on the proposal to establish an E-Commerce Energy Task Force to address the issue of E-commerce as it relates to energy. Members considered and agreed to the proposal.

The task force is to report to the EWG and delegates stressed the need for the Task Force to liaise closely with the APEC wide E-commerce Task Force to avoid duplication. Members also agreed that the Task Force would liaise closely with those involved in the Energy Services project to achieve synergies where possible.

Action Arising/Next Steps

- Member economies to advise the Republic of Korea of their interest in being represented on the Task Force.
- The Republic of Korea to advise the EWG Secretariat of progress so that all EWG members can be kept informed.

The appropriate use of APEC Logo was raised in the context of a document circulated for the Energy Regulators Forum Workshop. It was agreed that documentation should not have the APEC logo unless cleared by the Working Group

Action Arising/Next Steps

- The co-Chair reminded Members of the appropriate use of the logo.

The Issue of the timely provision of agenda papers was raised. It was agreed that the timely provision of documentation is essential for the efficient conduct of EWG meetings. The EWG Secretariat drew attention to the fact that in a number of cases agenda papers could not be completed at an early date as input from Members was not received. The EWG Secretariat encouraged Members who are providing documentation to the Secretariat to do so as soon as possible in order to facilitate the timely preparation of agenda papers.

The APEC Secretariat representative raised the issue of limited attendance in terms of number of persons participating in some events organised under the auspices of the APEC EWG, relative to the funds required to stage the event. Members agreed that a practice of reporting on the attendance and outcomes of events by their sponsors would better enable the EWG to determine the relative merits of such activities in future.

The EWG Secretariat to write to the Chairs of all EWG sub-for a requesting that they analyse the cost-effectiveness of their events.

In addition there was a need to ensure that the most appropriate people within economies are informed of upcoming events.

The issue of the next Ministers Meeting was raised by the co-Chair. He noted that it had been six months since the last Energy Ministers meeting. He invited Members to volunteer to host the next Ministerial meeting. Peru announced that they would be honoured to host the next Ministerial Meeting of APEC Ministers noting that it may take up to one year to organise. The co-Chair and Members thanked Peru for their generous offer.

16: Date for Next Meeting

Members noted Malaysia' formal confirmation of their offer to host the next EWG, and associated meetings, in Kuala Lumpur 15-18 May 2001.

Action Arising/Next Steps

- Nil.

17: Document Access

Members agreed that the Summary Record and other documents from this meeting not classified as “Restricted-Draft” could be released to the public immediately after the meeting. The proposed text for Leaders and APEC Ministers will not be released to the public.

18: Summary Record of Twentieth Meeting

The Summary Record of the meeting was agreed.

Concluding Remarks

Members recorded their thanks to the Minister for Energy and Mines for attending the meeting and the Co-chairs for leading the members through a challenging agenda. Members also recorded their appreciation to the Peruvian hosts for the excellent meeting facilities and hospitality they enjoyed in Peru.



Energy Working Group

Twentieth Meeting, Cusco, Peru 19-20 October 2000

Attachment A

List of Participants

Chair/Co-Chair

Mr Tim Mackey	Dept. Industry, Science & Resources, Australia
Mr Gaston Miranda	Vice Minister of Energy, Peru

Australia

Mr Robert Alderson	Dept. Industry, Science & Resources
Ms Vicki Brown	Dept. Industry, Science & Resources

Brunei Darussalam

Mr Abd Shawal Bin YAMAN	Ministry of Development
Mr Pg Azlan Bin Pg TENGAH	Ministry of Foreign Affairs
Husaimée Ahmad Hussin	Ministry of Industry and Prime Resources

Canada

Dr Gil Winstanley	Natural Resources Canada
Mr Claude Gauvin	Natural Resources Canada

Chile

Mr Carlos Pina	National Energy Commission
Mr Tomas Astorga	Ministry of Mining
Mr Claudio Espinoza	National Energy Commission
Mr Matias Undurraga	Embassy of Chile

People's Republic of China

Mr Ren Liu	State Development Planning Commission
Mr Yuqing Zhang	State Development Planning Commission
Mr Yihui Wang	State Development Planning Commission

Hong Kong, China

Mr Lo-Tung Lee	Electrical & Mechanical Services Department
Mr Hon-Kwok Wong	Electrical & Mechanical Services Department

Japan

Dr Masaaki Mishiro	Agency of Natural Resources & Energy, MITI
Mr Hiroaki Kagawa	Agency of Natural Resources & Energy, MITI
Ms Midori Yoshizawa	International Trade Policy Bureau, MITI
Mr Hidenobu Sobashima	Ministry of Foreign Affairs
Mr Ryoji Iwama	Ministry of Foreign Affairs
Mr Kenichi Matsui	Institute of Energy Economics, Japan

Korea

Dr Jung-Sik Koh	Ministry of Commerce, Industry & Energy
Mr Eung-Kil Jeon	Ministry of Commerce, Industry & Energy
Dr Jae-Kyu Lim	Korea Energy Economics Institute
Dr Dae-Gyun Oh	Korea Energy Management Corporation
Mr Seok-Woo Shin	Korea National Oil Corporation

Mexico

Dr Lourdes Melgar	Secretariat of Energy
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New Zealand

Mr Peter Hodge	Ministry of Economic Development
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Peru

Mr Manuel Kiyari	Ministry of Energy & Mining, adviser
Mr Oscar Arrieta	Ministry of Energy & Mining, adviser
Mr Luis Nicho	Executive Director of Projects
Mr Carlos Centeno	Director General of Electricity
Mr Pedro Touset	Director General of Hydrocarbons
Mr Jorge Kawamura	Chairman of Petroperu
Mr Jubert Chavez	Chairman of Electroperu
Mr Edwin Quintanilla	Commission of Tariffs, Executive Secretary
Ms Martha Perea	Ministry of Foreign Affairs, Peru

Russia

Mr Dimitri Sorokin	Russian Embassy to Peru
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Singapore

Mr Siew Kwong Wong	Public Utilities Board
Ms Jeanette Lim	Public Utilities Board

Chinese Taipei

Dr Chao-Yih Chen	Energy Commission, Ministry of Economic Affairs
Mr Shih-Ming Chuang	Energy Commission, Ministry of Economic Affairs
Mr Chih-Hung Kao	Energy Commission, Ministry of Economic Affairs
Dr Jhy-Ming Lu	Industrial Technology Research Institute
Mr Shin-Chih Shih	Industrial Technology Research Institute

Thailand

Mr Sittichod Wantawin	National Energy Policy Office
Mr Chutintorn Gongsakdi	Ministry of Foreign Affairs

United States

Mr David Pumphrey	Department of Energy
Mr George Zeigler	Department of Energy
Dr Sun Chun	Department of Energy
Mr Andre van Rest	Department of Energy

EWG Secretariat

Mr John Butterfield	Dept. Industry, Science & Resources, Australia
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APEC Secretariat

Mr Yang Yafei	APEC Secretariat
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Pacific Economic Cooperation Council

Mr Jerry Pruzan	PECC Energy Forum
Mr David Natusch	PECC Energy Forum

Asia Pacific Energy Research Centre

Mr Keiichi Yokobori	APERC, Institute of Energy Economics, Japan
Dr Hassan Ibrahim	APERC, Institute of Energy Economics, Japan
Mr Ki-Joong Kim	APERC, Institute of Energy Economics, Japan

Bangladesh (Guest)

Mr Mizanur Rahman	Ministry of Energy & Mineral Resources
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Columbia

Mr Marcelo Castro	
Mr Flavio Barbosa	