



Energy Working Group

Twenty-Fifth Meeting, Portland, USA, 19-20 June 2003

Summary Record of the 25th Energy Working Group Meeting

The twenty-fifth meeting of the APEC Energy Working Group (EWG) was held in Portland, USA on 19-20 June 2003. Australia and the United States co-chaired the meeting.

Delegates from Australia; Chile; the People's Republic of China; Hong Kong, China; Japan; Republic of Korea; Mexico; New Zealand; the Philippines; Russia; Singapore; Chinese Taipei; Thailand; and the United States participated in the meeting. Representatives from the EWG and APEC Secretariats also attended. The Asia Pacific Energy Research Centre (APEREC), the Expert Groups on Energy Data and Analysis (EGEDA), Minerals & Energy Exploration and Development (GEMEED), Clean Fossil Energy (EGCFE), New and Renewable Energy Technologies (EGNRET) and Energy Efficiency and Conservation (EGEE&C), and the Energy Business Network (EBN) were represented at the meeting.

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

1. Opening address by the Co-Chairs of the Meeting and the Adoption of the Agenda.

The EWG Lead Shepherd, Mr John Ryan, opened the meeting and invited his Co-Chair, Mr Robert Price, Director European and Asian Affairs, Department of Energy, USA, to make the opening address.

Mr Price warmly welcomed delegates to EWG25 and to Portland. He emphasised that the United States is committed to the EWG and achieving the APEC objectives of trade liberalisation and economic growth within the region and highlighted some of the EWG's achievements.

Mr John Ryan thanked Mr Price, on behalf of delegates attending EWG25, for his address and for the excellent meeting facilities provided by the United States. Mr Ryan also thanked Viet Nam for their offer to host EWG25 and expressed regret that the meeting could not take place as planned. The Chair welcomed the EBN Chair to the meeting. Mr Ryan commented that the EWG is recognised as an important multi-economy group by a range of observers. He then outlined the business for the meeting.

The agenda for the meeting was adopted.

2. Report from the Ninth Meeting of the Energy Working Group Business Network (EBN9)

The Chair of the EWG Business Network, Ms Lic. Angélica Fuentes Téllez, presented a report from EBN9, held on 17 June 2003 in Portland, USA.

In her report, Ms Fuentes thanked the EWG for inviting the EBN to participate fully in the EWG meeting and also thanked the United States EBN Member and the PECC Energy Forum for hosting EBN9. Ms Fuentes outlined the EBN proposal to hold public-private workshops to share knowledge and experiences on a range of issues of relevance to the EWG. She advised that workshops could be organised by government or business, and that they would complement the IFAT mechanism.

Ms Fuentes added that EBN Members recognised the importance of access to finance for investment in energy infrastructure, suggesting that the first public-private workshop address this issue and could be held in conjunction with EBN10. She reported that the EBN also recognises the importance of sustainable development and that activities to address this issue should be practical and project-based.

Ms Fuentes advised that the next EBN would be hosted in Hong Kong, China at a date that will allow EBN Members to also attend EWG26 in the Republic of Korea.

Members noted the report provided by Ms Fuentes and the *Summary of Decisions Taken* that was tabled at EWG25.

Action Arising/Next Steps

- Future EBN meetings will be held back-to-back with EWG meetings.
- EBN10 be held in Hong Kong, China at a time that allows EBN Members to attend EWG26 in the Republic of Korea.

3. Proposals Arising from the Ninth Meeting of the Energy Working Group Business Network (EBN9)

The EWG Secretariat provided an overview of the proposals arising from the EBN for consideration by the EWG.

Proposal to have Government-private sector workshops

EWG Members noted the EBN suggestion of holding workshops and its objective of facilitating the sharing of knowledge and experiences and that the workshops could be hosted by a government or business. Members agreed that given the importance of investment in energy infrastructure in the APEC region, the EBN should investigate the feasibility of holding a financial workshop in conjunction with EBN10.

The role of the business community in sustainable development

Members noted the EBN suggestion that the EWG's approach to sustainable development be practical and project based, and that public-private partnerships will be essential to its implementation.

Project proposals being considered by the EWG for funding in 2004

Members noted the EBN's support for the proposed project 'Carbon Dioxide Capture and Geological Sequestration Potential of the APEC Region', noting that it would build upon the current project that is being overseen by Canada and complement initiatives being undertaken by other fora.

Members also noted the EBN's support for the proposed project 'Best Practice in Cross-Border Interconnection of Gas Pipelines in APEC Member Economies', and agreed with their suggestion to extend its scope to include LNG.

Action Arising/Next Steps

- EBN Members will investigate holding a workshop on financing of infrastructure to be held in conjunction with EBN10.
- The project proposal, 'Best Practice in Cross-Border Interconnection of Gas Pipelines in APEC Member Economies', be extended in scope to include LNG.

4. APEC and EWG Secretariat Reports

Mr Tong Xianguo, Director (Program) APEC Secretariat and Mr Wayne Calder, Manager, EWG Secretariat, presented their respective Reports to Members.

Mr Tong outlined APEC priorities for 2003 and reported on the outcomes of SOM II and the meeting of the APEC Counter Terrorism Task Force (CTTF), including the endorsement of the CTTF action plan, the APEC response to SARS, reporting requirements of APEC for SOM, and the decision at SOM II to request that the EWG develop an implementation plan, with timeframes, for the APEC Energy Security Initiative, noting that this is a deliverable to the APEC Economic Leader's Meeting. He also advised of the deadline for submitting APEC project proposals for 2004.

Mr Calder emphasised the importance of maintaining an up to date contact list of EWG Members, requesting that the Secretariat be notified of and changes to contact details for EWG delegates. He also indicated that the EWG Secretariat can advise Members of the requirements for APEC projects, and that the EWG web site is being regularly updated and is an excellent source of information on EWG initiatives, activities and projects.

The EWG Lead Shepherd thanked Vicki Brown and the EWG Secretariat for the excellent work that Australia undertakes in support of the EWG.

Members noted the Secretariat Reports.

Action Arising/Next Steps

- EWG Secretariat to provide the list of prioritised projects to the APEC Secretariat by 30 June 2003, to enable them to be considered by the BMC.
- EWG Secretariat to provide the APEC Secretariat with a report on the EWG work plan for 2003, and its activities over the past year.

5. Implementation of Type 2 Initiative: *Energy for Sustainable Development*

EWG Members noted and discussed the report on implementation of the Type 2 Initiative, including the progress of activities being undertaken under the Initiative and proposals to further progress its implementation.

Members noted the proposals to incorporate sustainable development principles in EWG projects, increase emphasis on its practical implementation and human elements, strengthen its relationship with the Energy Security Initiative, and consider its relationship with other sustainable development initiatives.

Members agreed that sustainable development principles should be introduced in the consideration of EWG projects.

Members also agreed that the Type 2 Initiative should be closely linked with the Energy Security Initiative, citing a number of examples where projects address sustainable development and energy security. Members also discussed the importance of access to finance in achieving sustainable development objectives, and again considered the EBN proposal to conduct a financial workshop, agreeing that it would support the directive of APEC Energy Ministers to engage business participation in EWG activities.

Members noted that business involvement includes State run companies and that these companies should be encouraged to participate in EBN activities. APERC highlighted its expertise in this field and offered to provide input into the workshop based on research it has undertaken. EGNRET and EGEE&C also advised that they are undertaking projects addressing access to finance.

Action Arising/Next Step

- EWG Secretariat to further examine how sustainable development principles could be incorporated into the EWG project proposal process, and report to EWG26.
- Australia and the United States to assist the EBN in assessing the feasibility of holding a financial workshop in conjunction with EBN10.

6. Implementation of APEC Energy Security Initiative

Members noted the progress of the Energy Security Initiative, including that SOM II has directed the EWG to develop an implementation plan with appropriate timeframes, to be reported to SOM III. Given the short period time before SOM III, it

was agreed that the EWG Secretariat develop an implementation plan for the Energy Security Initiative and circulate to Members for comment and approval out of session.

Action Arising/Next Step

- EWG Secretariat develop an implementation plan for the Energy Security Initiative, with appropriate timeframes, and distribute to EWG Members for comment and approval out of session and prior to SOM III.

Members then discussed each of the initiatives under the Energy Security Initiative.

6.1 Report from the Oil Supply Emergency Response Workshop

Members noted the positive feedback from workshop participants and the 'Report on Workshop Outcomes' prepared by the EWG Secretariat, including its three recommendations:

1. That at each EWG meeting beginning with EWG26, one member economy make a presentation to the EWG on their energy emergency response arrangements. This would be voluntary and operate on a rotational basis;
2. That the EWG hold workshops to address specific issues regarding the development and implementation of energy emergency response plans; and
3. That Implementation Assistance Facilitation Teams (IFAT) be used as a mechanism for assisting member economies to develop and implement energy emergency response plans.

Members endorsed each recommendation, with the Republic of Korea offering to make a presentation at EWG26.

Members also discussed the International Energy Forum (IEF), agreeing that the EWG Lead Shepherd should approach the IEF to encourage increased interaction between the fora.

Action Arising/Next Step

- Republic of Korea to present on their energy emergency response arrangements at EWG26.
- The EWG Lead Shepherd to write to the Executive Director of the IEF in relation to increasing interaction.

6.2 Progress of the Monthly Oil Data Initiative

Members noted the report by Ms Karen Schneider, Vice-Chair of EGEDA, on the progress of the Joint Oil Data Initiative (JODI), which has been in permanent operation since late 2002. Members noted that timeliness and quality of data is essential to the success of the Initiative and although EWG member economies

are improving in this regard, there is room for further improvement with EGEDA offering to assist these efforts.

Members agreed that JODI is a valuable initiative and every effort should be made by economies to improve their data provision to EGEDA.

Action Arising/Next Step

- EWG Members to continue to support JODI and provide EGEDA with quality and timely data.

6.3 Real-time Emergency Information Sharing

Members considered the proposal developed by Japan, in consultation with Korea and the Philippines, for a real-time emergency information sharing system. Members noted the various functions of the system, which is intended to provide a more systematic and responsive mechanism for communication and data provision to improve crisis management during emergencies.

Members agreed that the EWG would have the capacity to undertake such an activity and that the system could be implemented once issues regarding the confidentiality of data and duplication with existing initiatives are addressed. Members also agreed that, as a first step, an appropriate contact point could be identified within each member economy.

Japan thanked Members for their comments and agreed to finalise the proposal and seek EWG endorsement out of session.

Action Arising/Next Step

- Japan to finalise the proposal and submit to EWG Members for approval out of session.
- EWG Members to advise Japan of an appropriate contact point within their economies.

6.4 Implementation of other measures.

Members noted progress towards the implementation of other measures under the Initiative, agreeing that efforts to diversify the energy mix is crucial to long term energy security. Members discussed several projects and initiatives, particularly for natural gas and hydrogen.

Members agreed that the EWG should continue efforts to promote energy diversity within member economies, for example through cross-border gas interconnection, including LNG, and a study into natural gas supply and demand. Members noted that these activities should recognise and build upon other work that has been undertaken, for example, for the World Gas Congress.

As a part of the longer-term objectives of the APEC Energy Security Initiative, the EWG discussed a proposal to collaborate on hydrogen and fuel cell development to spur the growth of hydrogen. Appropriate collaboration would be carried out as part of the APEC 21st Century Renewable Energy Development Initiative (under the APEC Expert Group on New and Renewable Energy) and would be coordinated with the activities of the APEC Expert Group on Clean Fossil Energy.

Members noted that at SOM II the United States advocated that the EWG should work towards the development of technology that can promote the usage of hydrogen. To facilitate further discussion of hydrogen in the SOM process, the United States distributed a concept paper on hydrogen collaboration for EWG representatives to take back to their SOM representative. Members noted that further information would be provided to progress hydrogen cooperation in the EWG. The EWG will look for further instructions on promoting hydrogen cooperation from the SOM.

Actions Arising/Next step

- The United States, with the assistance of the EWG Secretariat, to provide EWG Members, out of session, with further information regarding its approach to long term energy security.

7. Energy Literacy Initiative

Japan presented a report on Energy Literacy Initiative.

Members noted that the Initiative's first meeting took place in Bangkok on 27-28 March 2003, with the next meeting planned for late 2003. Members agreed that the Initiative would need to accommodate language and cultural differences between member economies, and Members were encouraged to support the Initiative.

Action Arising/Next Step

- Nil.

8. Engaging Financial Institutions in EWG Activities

Members considered the scoping paper provided by the EWG Secretariat outlining options for the EWG to engage financial institutions. Members agreed that the option for conducting a workshop with financial institutions was the most appropriate at this time.

Members had extended discussions regarding the challenges in attracting investment in the energy sector. Members agreed that this is an issue of enormous significance that it should be included on the agenda of the 6th Energy Minister's Meeting to be held in 2004.

Action Arising/Next Step

- That the issue of engaging financial institutions for investment in energy infrastructure be included on the agenda of the 6th Energy Minister's Meeting.

9. Pledge and Review

EWG Members noted the contributions to the voluntary Pledge and Review Program, and the Annual Reports submitted by Australia; Chile; Hong Kong, China; Japan; Mexico; Philippines; Singapore and Thailand. Annual Reports were tabled at EWG25 by Chinese Taipei and the Republic of Korea.

Members noted the *Fourth Report of the Energy Working Group on the Pledges and Review Program* prepared by the EWG Secretariat and member economies that had not yet submitted their Pledge and Review contributions were encouraged to do so as soon as possible.

Members discussed ways to reinvigorate the Pledge and Review Program and noted that while it is an important Initiative, its original focus appears to have moved and that it would be beneficial if the information shared was of more interest and relevance to other Members. The EWG Secretariat suggested that it could assist by asking targeted questions for the report and undertaking some analysis of the information submitted.

Action Arising/Next Steps

- APEC Member economies that have not done so are encouraged to submit their Pledge and Review contribution to the EWG Secretariat for circulation to EWG Members.
- The United States, Japan and the EWG Secretariat develop a scoping paper on ways to reinvigorate the program, for consideration at EWG26.

10. Policy Dialogue: Impediments to Energy Exploration and Development

EWG Members held a policy dialogue on the topic *Impediments to Energy Exploration and Development*. As previously agreed, no records of discussion were taken under this item. Members noted that the policy dialogue was enhanced through the attendance of the EBN.

Members noted the request to further discuss this issue within the EWG and agreed that for EWG26 the policy dialogue topic would be 'The Role of Energy Services in the APEC Region'.

Action Arising/Next Steps

- That the policy dialogue topic for EWG26 is 'The Role of Energy Services in the APEC Region'.

11. Framework for discussion of nuclear energy within the EWG

Members noted that there was broad acceptance of the importance of this issue and welcomed dialogue on this issue. Members thanked the Republic of Korea and Mexico for the paper on the framework for discussion of nuclear energy within the EWG. Members, in recognition of the sensitivities surrounding nuclear energy, agreed that they would provide comments out of session to finalise the framework paper on the way forward. The Republic of Korea thanked Members for their comments.

The Republic of Korea made a presentation on the Training Program for nuclear energy that it will host in the first half of 2004. Members supported the implementation of the training program to build capacity within interested member economies and thanked the Republic of Korea for its presentation.

Action Arising/Next Steps

- Members to provide comment to the EWG Secretariat on the proposed framework for the discussion of nuclear energy within the EWG.
- Members to encourage participation by interested economies in the Training Program for nuclear energy.

12. Report from the APERC President and discussion of EWG priorities.

Members noted the APERC President's report, which highlighted APERC's four research activities for 2002-03 and four proposed research activities for 2003-04.

Members congratulated APERC for their report and the work they are undertaking. Members indicated that the proposed research projects for 2003-04 appear consistent with EWG priorities and stressed that the EWG should continue to be the prime body guiding the APERC work program.

Members were advised that Japan is currently reviewing its contributions to APERC. Members noted the preliminary results of the questionnaire on APERC activities, including that the EWG highly values the APEC Supply and Demand Outlook and database on energy statistics and that, under certain circumstances, some economies would be willing to provide APERC with funding support. Members discussed the oversight arrangements for APERC and the relationship between APERC and EGEDA. Members agreed that the EWG Secretariat would report on the nature of the relationship at EWG26.

Members emphasised the importance of APERC's data collection, demand-supply outlook and analysis to energy policy development within APEC economies. Members also thanked Japan for the resources they had provided to APERC and suggested that member economies express their support for APERC directly to Japan.

Japan thanked Members for their positive comments and stated that funding or 'in-kind' support would be greatly appreciated, adding that there are no restrictions

regarding how APERC can be funded. Members were also advised that Japan will be preparing, for EWG consideration, a draft medium-term strategic plan for the support of APERC.

Action Arising/Next Steps

- EWG Members to have forwarded the completed APERC questionnaire to METI, and to advise Japan whether they would be able to make a financial or 'in-kind' contribution to APERC, by 31 July 2003.
- Japan to report its draft medium-term strategic plan for the support of APERC at EWG26.
- EWG Secretariat to report to EWG26 on the nature of the APERC-EGEDA relationship.

13. Report of the Meeting of the Chairs of the EWG Expert Groups

The EWG Secretariat presented a Report to Members on the outcome of the meeting of the EWG Expert Groups' Chairs held in Portland, USA on 18 June 2003. Members noted that Expert Groups had undertaken a range of activities since EWG25 and submitted several project proposals for EWG consideration. Members were advised of the Chairs' strong interest in the financial workshop proposed by the EBN and that Chairs had agreed to undertake measures to improve communication between Expert Groups and with the EWG. Members also noted that the next Expert Group Chairs' meeting will be held in conjunction with EWG26. Members were informed that EBN Members also attended the Expert Group Chairs meeting and expressed their support for the work of the Expert Groups.

An EWG member reported that the meeting was particularly productive, with a high level of interaction between Chairs and a strong commitment for Expert Groups to collaborate with each other and with APERC on areas of mutual interest.

Members were provided with a Summary Record of the meeting and the Progress Reports prepared by each of the Expert Groups.

Action Arising/Next Steps

- Nil.

14. EWG Project Proposals for 2004

Members noted that 31 project proposals had been submitted for the EWG consideration. Of these, 14 sought funds from the APEC Operational Account, 15 sought funds from the TILF Special Account, and 2 were self-funded.

Members endorsed all project proposals. Members amended the project "Best Practise in Cross-Border Interconnection of Gas Pipelines in APEC Member Economies", to include consideration of LNG.

Members ranked the projects in the following order in accordance with the agreed EWG method. Members agreed to submit all projects to the BMC.

Operational Account projects, in ranked order, endorsed by EWG25 for forwarding to the APEC Budget and Management Committee (BMC) to a total value of US\$800,000:

1. Operation of APEC Energy Database and Analysis – **Project 3** (US\$20,000)
2. Potential for growth of gas as a clean energy source in APEC developing economies – **Project 12** (US\$80,000)
3. Symposium on the implementation of government energy efficiency programs – **Project 11** (US\$50,000).
4. Workshop on improving energy efficiency in APEC mining industry – **Project 2** (US\$49,000).
5. APEC 21st Century Renewable Energy Initiative: Development & implementation of a system for accrediting renewable energy training – **Project 14** (US\$50,000).
6. APEC 21st Century Renewable Energy Development Initiative (Collaborative VI): Workshop on advances in clean transportation fuels – **Project 4** (US\$50,000).
7. Promoting energy efficiency and conservation in the public sector – **Project 10** (US\$50,000).
8. Workshop on development of APEC compatible disaggregated indicators for monitoring energy efficiency progress across APEC – **Project 9** (US\$50,000).
9. Life cycle impact assessment methodology for the mining industry in APEC economies – **Project 1** (US\$160,140).
10. Enhancing energy performance of district heating & hot water supply in APEC economies – **Project 8** (US\$50,000).
11. Workshop on sustainable energy development – **Project 7** (US\$50,000).
12. APEC 21st century renewable energy development initiative (Collaborative V) Overcoming barriers to the deployment of distributed energy resources – **Project 6** (US\$50,000).
13. Feasibility of supercritical technology for new coal fired power plants in APEC developing economies – **Project 13**. APEC funds sought US\$50,000.
14. Gender issues, lifestyles and values in economic development of indigenous rural populations: An integrated case study analysis – **Project 5** (US\$49,500).

TILF Special Account projects, in rank order, endorsed by EWG25 for forwarding to the APEC BMC:

1. Best practice in cross-border interconnection of gas pipelines in APEC member economies – **Project 11** (US\$167,760).
2. APEC 21st Century Renewable Energy Development Initiative (Collaborative IV): Adoption of Renewable Energy Standards Phase II – Final Groundwork – **Project 2** (US\$150,000).
3. Assessment of the carbon dioxide geological sequestration potential of the APEC region phase 2 (GESAPEC) – **Project 12** (US\$192,400 (2004), \$157,400 (2005)).
4. Energy security and petroleum specifications – The need for policy harmonization in APEC economies – **Project 1** (US\$166,230).
5. Alignment of testing procedures for air-conditioners and heat pumps – **Project 6** (US\$50,000).
6. Applicability of accounting and trading systems for CO2 emissions from the power sectors in APEC developing economies – **Project 8** (US\$60,000).
7. Alignment of standby loss requirements – **Project 7** (US\$50,000).
8. APEC 21st Century Renewable Energy Development Initiative (Collaborative VI): Development of a sourcebook of hydrogen codes and standards for APEC member economies – **Project 3** (US\$150,000).
9. Development of the geological metadata system and clearing house in Asia and Pacific region – **Project 4** (US\$167,100).
10. Identifying the extent and means to reduce cross-border trade in highly energy inefficient products – **Project 5** (US\$50,000).
11. 5th APEC coal trade and investment liberalization and facilitation workshop – **Project 9** (US\$100,000).
12. Energy efficiency standards for windows – **Project 10** (US\$150,000).
13. International Seminar on Technology Transfer for Rural Electrification of Isolated Communities Using Renewable Energy – **Project 13** (US\$65,600).
14. Training on Natural Gas Vehicle (NGV) Conversion, Service and Maintenance – **Project 15** (US\$23,258).
15. Familiarization Training Course on Technology Towns/Parks that Showcase New and Renewable Energy Systems – **Project 14** (US\$7,726).

Self-funded projects endorsed by EWG25:

1. Energy for sustainable communities program.

2. APEC Clean fossil energy technical & policy seminar (previously Joint Coal Flow/Clean Fossil Energy Technical Seminar).

Action Arising/Next Steps

- The EWG Secretariat will submit the Operational Account and TILF Special Account project proposals listed above to the APEC Secretariat for the consideration of the APEC Budget and Management Committee.

15. Sponsorship of APEC Activities

EWG Members considered the draft Sponsorship Agreement and 'How to Guide' prepared by the EWG Secretariat, noting that the documents are non-mandatory and designed to complement the APEC Sponsorship Policy Guidelines recently approved by APEC SOM and provide the EWG with practical assistance when seeking sponsorship.

Members made initial comments and agreed to provide the Secretariat with further feedback out-of-session.

Action Arising/Next Steps

- EWG Members to provide the EWG Secretariat with feedback on the draft sponsorship documents by 31 July 2003.
- EWG Secretariat to incorporate comments and finalise the documents for posting on the EWG website by 15 August 2003.

16. Statements on Notable Energy Developments since EWG24

The Chair thanked Australia; Chile; Hong Kong, China; Mexico; the Philippines; Singapore, Thailand and the United States for providing their Statements on Notable Energy Developments. At the meeting, Statements were tabled from the Republic of Korea, Japan, New Zealand, and Chinese Taipei. EWG Members who tabled their Statements at the meeting were encouraged to provide an electronic copy to the EWG Secretariat by 4 July 2003 for circulation to Members.

Members noted the Statements.

Action Arising/Next Steps

- EWG Members who tabled their Statement on Notable Energy Developments to provide an electronic version to the EWG Secretariat by 4 July 2003.
- EWG Secretariat to post these statements on the EWG web site by 11 July 2003.

17. Other Key EWG Initiatives for Noting by Members

17.1 Earthquake Response Cooperation Initiative

Chinese Taipei reported on the various activities being undertaken under the Initiative, including its series of annual workshops. Members noted that the next Workshop will be held in Taipei on 3 September 2003, with member economies encouraged to attend and propose speakers. Members also noted that the cooperative mechanism developed from the 2002 Workshop is being drafted and will be reported to EWG26.

EWG Members noted the Progress Report and thanked Chinese Taipei for their efforts to address what is a very important Initiative for member economies.

Action Arising/Next Steps

- Chinese Taipei to report on the Initiative's cooperative mechanism to EWG26.
- Members to suggest speakers for the annual Workshop, to be held on 3 September 2003.

17.2 21st Century Renewable Energy Development Initiative

EWG Members noted the Progress Report provided by the Chair of the Expert Group on New Renewable Energy Technology (EGNRET) and the detailed report on the 21st Century Initiative progress tabled at EWG25. EWG Members noted that the 21st Century Initiative was mentioned by Ministers at EMM5 and by APEC Leaders at their last meeting. An EBN Member provided a demonstration of the APEC-CPI, an Internet based information system.

The Chair of EGNRET thanked EWG Members and the EWG Secretariat for their assistance in getting the 21st Century Renewable project on to the agenda for EMM5 and the APEC Leader's Meeting.

Action Arising/Next Steps

- Nil.

17.3 Environmentally Sound Energy Infrastructure, Phase 2

Members noted that as Canada was unable to attend EWG25, this item would not be reported.

Action Arising/Next Steps

- Nil.

17.4 Strengthening Operational Aspects of APEC Energy Micro-Economic Reform, Phase 3

Members noted the progress towards completion of this project, including the outcomes of the workshop held in the Philippines in December 2002 and arrangements for a second workshop to be held in Singapore in late 2003.

Members were encouraged to identify suitable people within their economies to attend the workshop in Singapore on 23 August 2003.

Action Arising/Next Steps

- Nil.

17.5 Measuring the Impacts of New Economy Technologies on the Energy Sector in APEC Member Economies

Members noted that the scope of the project proposal was recently amended to now examine the impact of new technologies. Members noted that the amendment has been approved by the APEC Budget and Management Committee and that a revised Request for Tender has been developed and will be tendered in the near future.

Action Arising/Next Steps

- Nil.

17.6 Energy Standards and Labelling Cooperation Initiative

Members noted the progress of the Initiative, including the finalisation of the three-year work plan and the standards and labelling information and tools available through the APEC-ESIS website. Members were advised that for the Standards Notification Procedure, several member economies had not yet provided official contacts. Members were encouraged to facilitate this.

Action Arising/Next Steps

- Members to notify the Chair of the EGEE&C of their economy's contact for the Standards Notification Procedure.

18. Other Business

EWG Members noted the request by the IEA to attend EWG26 and present to Members on a range of issues relating to renewable energy. Members supported the proposal but requested that it be limited to making a presentation on the issues identified.

Members were advised that the EWG will not be presenting at the Sustainability Energy Expo in Singapore in November 2002, and noted that several issues on the

agenda will be relevant to the Type 2 Initiative and that presentations will be made by four APEC economies.

Action Arising/Next Steps

- That the IEA be invited to attend EWG26, with participation limited to making a short presentation to Members.

19. Review of the Lead Shepherd Position

Members discussed the arrangements regarding the positions of Lead Shepherd/Chair, and Deputy Lead Shepherd/Co-Chair and the EWG Secretariat, noting that the role of Deputy /Co-Chair is traditionally undertaken by the host of each meeting.

All economies personally thanked Australia for their excellent work as Lead Shepherd and Secretariat over a number of years and expressed a desire that they continue in this role.

Australia thanked Members for their comments and agreed to continue as EWG Lead Shepherd and Secretariat.

Action Arising/Next Steps

- Nil.

20. Date for Next Energy Working Group Meeting.

Members noted the offer by the Republic of Korea to host EWG26 in Seoul from 2-5 December 2003.

Members thanked the Republic of Korea for their offer but raised some concerns regarding the proposed date and sought clarification of the proposed meetings. Members agreed that the EWG Secretariat work with the Republic of Korea to identify a suitable date and meeting arrangements, and advise Members out of session.

Members also thanked China for their offer to host EWG27 in the first half of 2004.

Members thanked and accepted the Philippines for their very kind offer to host the 6th Energy Minister's Meeting in June 2004.

Action Arising/Next Steps

- The EWG Secretariat work with the Republic of Korea to confirm arrangements for EWG26 and advise EWG members out of session.

21. Document Access

EWG Members agreed that the Summary Record and other final documents from this meeting could be released to the public immediately after the meeting.

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 place all documentation on the EWG website.

22. Summary Record of the Twenty-Fifth Meeting

The Summary Record of the meeting was agreed.

Action Arising/Next Steps

- Nil.

Concluding Remarks .

Members recorded their thanks to Mr Robert Price, Director European and Asian Affairs, Department of Energy, United States (Co-Chair) for attending the meeting and the Co-Chairs for leading the Members through a substantial agenda. Members also recorded their appreciation to the host economy for the excellent meeting facilities and hospitality they enjoyed in the United States.

LIST OF PARTICIPANTS

Chair/Co-Chair

Mr John Ryan

Department of Industry, Tourism & Resources,
Australia

Mr Robert Price

Department of Energy, USA

Australia

Ms Vicki Brown

Department of Industry, Tourism & Resources

Chile

Mr Carlos Piña

Comision Nacional de Energia

Mr Tomas Astorga

Ministerio de Minería

People's Republic of China

Mr Jun Tian

Chinese Embassy Counsellor

Hong Kong, China

Mr Kenneth She

Electrical and Mechanical Services Department

Japan

Mr Yasuo Tanabe

Agency for Natural Resources and Energy, METI

Mr Kazuyuki Katayama

Energy Resources Division, MOFA

Mr Masahiro Nagai

Agency for Natural Resources and Energy, METI

Mr Kazuo Kaneko

Trade Policy Bureau, METI

Mr Sohei Ohta

Energy Resources Division, MOFA

Mr Shigeru Kimura

Institute of Energy Economics, Japan

Republic of Korea

Mr Kyo-Hyoung Han

Ministry of Commerce, Industry & Energy

Dr Ki Joong Kim

Korea Energy Economics Institute

Mr Seok-Woo Shin

Korea National Oil Corporation

Mexico

Mr Mario Rodriguez-Montero

Secretaria de Energia

Ms Helena Gaytan-Fregoso

Secretaria de Energia

New Zealand

Ms Caroline Parlane

Ministry of Economic Development

Philippines

Mr JV Emmanuel A De Dios

Department of Energy

Ms Lilian C. Fernandez

Department of Energy

Russia

Mr Vitaly Egerov

Ministry of Foreign Affairs

Singapore

Mr Wong Siew Kwong

Energy Market Authority

Ms Josephine Tan

Energy Market Authority

Chinese Taipei

Dr Liang-Jyi Fang
Ms Shou Ling Chen
Dr Jyuung-Shiauu Chern

Energy Commission, MOEA
Energy Commission, MOEA
Energy Commission, MOEA

Thailand

Mr Sittichod Wantawin
Mr Poonpat Leesombatpiboon

Energy Policy and Planning Office
Energy Policy and Planning Office

United States of America

Ms Larisa Dobriansky
Mr George Zeigler
Mr David Young
Ms Jane Nakano
Ms Linda Gunter
Ms Helen Lee

Department of Energy
Department of Energy
Department of State
Department of Energy
Department of Energy
Department of State

EWG Secretariat

Mr Wayne Calder
Mr Aidan Storer

Department of Industry, Tourism & Resources
Department of Industry, Tourism & Resources

APEC Secretariat

Mr Tong Xianguo

Director (Program)

Expert Group Chairs

Mr Tomas Astorga
Mr Cary Bloyd
Ms Karen Schneider
Dr Fanghei Tsau

Chair, GEMEED – Ministry of Mining, Chile
NRET Secretariat – Argonne National Laboratory, USA
Vice Chair, EGEDA – ABARE, Australia
Chair, EGEEC – Industrial Technology Research
Institute, Chinese Taipei
Chair, EGCFE – Department of Energy, USA

Mr Scott M Smouse

Asia Pacific Energy Research Centre (APERC)

Mr Masaharu Fujitomi
Mr Yonghun Jung
Mr Shiro Konishi
Mr Jeffrey Skeer

President

Energy Working Group Business Network

Ms Lic. Angélica Fuentes Téllez
Mr Andrew Lloyd
Mr Thomas E Fisher
Ms Laura Hudson
Mr Barry Leay
Lic Leticia Ruiz
Ms Rosarino B Venturina

EBN Chair, Grupo Imperial Corporativo, Mexico
EBN Vice-Chair, Rio Tinto, Australia
UNOCAL Corporation, USA
UNOCAL Corporation, USA
Ecodyne, New Zealand
Grupo Imperial Corporativo, Mexico
Trans-Asia Power Generation, Philippines

PECC Energy Forum

Mr David Natush
Mr Jerry Pruzan

PECC Energy Forum, New Zealand
PECC Energy Forum, USA