

Facesheet

(Tick ✓ one) **Project seeking APEC funding** **Progress Report** **Evaluation Report**
 (Tick ✓ one) **Operational Account** **TILF Special Account** **Self-funded Project**

Project number: <i>(To be filled in by Secretariat)</i>		Date received by Secretariat:	Late / Not late <input type="checkbox"/> <input type="checkbox"/>
Name of Committee/Working Group: Energy Working Group Expert Group on New and Renewable Energy Technologies			
Title of Project: APEC 21 st Century Renewable Energy Development Initiative (Collaborative VI): Workshop on advances in electricity storage in support of distributed renewable energy based systems.			
Proposing APEC Member: Korea			
Co-sponsoring APEC Member(s): Australia, Canada, China, Hong Kong, Japan, Korea, Malaysia, Mexico, New Zealand, Chinese Taipei, USA			
Project Overseer: Name, Title and Organization (M/F) Jang Kwang-Sik Assistant Manager, New and Renewable Energy Department Korea Energy Management Corporation			
Postal address: 1157 Pungdukchun-2dong, Yongin Kyonggi-do, 449-994 Korea		Tel: +82-31-260-4196 Fax: +82-31-260-4215 Email: ksjang@kemco.or.kr	
Financial Information	Total cost of proposal (US\$): \$50,000	Amount being sought from APEC Central Fund (US\$): \$50,000	
Type of Project: <input type="checkbox"/> seminar/symposium <input type="checkbox"/> short-term training course <input checked="" type="checkbox"/> survey or analysis and research <input type="checkbox"/> database/website <input type="checkbox"/> others <i>(Please specify)</i>			
Project start date: 2/1/2003		Project end date: 12/1/2003	
Project Purpose: The purpose of this workshop is to present APEC representative with a review of recent advances in electricity storage as it supports the development of distributed renewable energy based systems. This workshop will directly address the growing need of energy planners to understand the costs and benefits of coupling advanced energy storage systems with distributed renewable energy systems.			
Signature of Project Overseer: <i>(Separate written confirmation acceptable for email submission)</i> Date:			
Signature of Committee Chair/WG Lead Shepherd: <i>(Separate written confirmation acceptable for email submission)</i> Date:			

ECOTECH Weightings Matrix
(Revised - November 2000)

[APEC 21st Century Renewable Energy Development Initiative (Collaborative VI): Workshop on advances in electricity storage in support of distributed renewable energy based systems.]

Criteria	Supporting Information <i>(indicate paragraph number if details are in the project proposal)</i>	Linkage (1 point for each)
Responds to a <u>specific</u> instruction from Leaders/Ministers ¹	4	1
Meets a core ECOTECH theme under the <i>Manila Declaration</i> ¹	1	1
Responds to the Common Policy Concepts, Activities and Dialogues identified in Part II of the <i>Osaka Action Agenda</i> ¹	4	1
Responds to a <u>specific</u> ECOTECH Initiative ²	Supports the Cleaner Production Strategy and the Emergency Preparedness initiatives	1
Improves skills, including in new technologies	4,6	1
Builds capacity and strengthens institutions	6	1
<u>Measurably</u> improves economic efficiency/performance ³	4	1
Is of <u>practical</u> benefit to the private/business sector; has private/business sector <u>participation</u> ; and/or <u>funding</u> ⁴	6	1
Assists economies attain sustainable growth and equitable development, while reducing economic disparities among APEC economies and improving economic and social well-being	4,6	1
Supports a TILF objective, as laid down in Part I of the <i>Osaka Action Agenda</i> ¹	N/A	0
Disseminates information including through seminars/websites/databases ⁵	18	0
Outline the <u>outcome</u> and how members will benefit ⁵	Member economies will gain expertise in the development of energy storage which will enable increased utilization of their renewable energy resources.	0
	Net Score	9

Footnote

- ¹ Identify which instruction/ECOTECH theme/OAA element.
² See <http://www.apecsec.org.sg/ecotech/index.html>
³ Policy outcomes that include development of energy efficiency guidelines, food safety standards etc
⁴ One point for each element up to a maximum of 3 points.
⁵ Not scored

Remarks (Please indicate if not applicable e.g., for TILF projects. Additional information in support of projects which do not score highly may also be provided here by the Lead Shepherd/Chair).

Format for Projects Seeking APEC Funding

This format should be completed with reference to the Guidebook on APEC Projects. It is recommended that the “Guide to Strengthening Project Management and Performance” would be a useful reference. Both Guides are available on the APEC Secretariat website at www.apecsec.org.sg

Please note that items followed by an asterisk () fall within the category of criteria which relate to “APEC values” in the **Criteria of Assessment of APEC projects** set out in Annex B.*

Please provide your answers in point form or as succinctly as possible below each paragraph heading.

A. Project Design

Project

01. Name of project.

APEC 21st Century Renewable Energy Development Initiative (Collaborative VI): Workshop on advances in electricity storage in support of distributed renewable energy based systems

02. Name of the working group or committee taking responsibility for the project and the dissemination of its results.

Energy Working Group/Expert Group on New and Renewable Energy Technologies

Objectives

03. Describe briefly how you will measure your results (in the short and longer term) to know if your project has been successful. (You must provide detailed assessment measures in paragraph 19)

In the short term, high participation in the workshop by APEC representatives and the private sector will indicate a successful meeting. In the longer term, the implementation of advanced energy storage devices alongside renewable energy systems will demonstrate the ultimate value of the workshop.

04. How, briefly, this project responds to the priorities set by APEC Leaders and Ministers, as evidenced by parts of the APEC Action Agenda including Action Program, work plan, vision statement, and policy statement that relate to this project.

This workshop is compatible with several of the policies outlined in the APEC Action Agenda and the four themes of the Action Program: to facilitate economic growth, achieve energy security, and protect the environment through the use of renewable energy technologies.

The project responds directly several aspects of the Fifth Ministerial Meeting (1993) Declaration:

- (I) **STRENGTHENING ECONOMIC INFRASTRUCTURE:** The implementation of distributed energy systems directly strengthens economic infrastructure.
- (II) **HARNESSING TECHNOLOGIES OF THE FUTURE:** Advanced energy storage systems are clearly critical technology of the future.
- (III) **PROMOTING ENVIRONMENTALLY SUSTAINABLE GROWTH:** The coupling of advanced energy storage to renewable energy based systems directly provide for sustainable economic growth.
- (IV) **ENCOURAGING THE GROWTH OF SMALL AND MEDIUM ENTERPRISES:** Since many distributed renewable energy systems are small, the development will benefit small and medium enterprises.

This project responds to Part II of the Osaka Action Agenda (Implementation of the Bogor Declaration), by increasing the amount of clean renewable energy available, the project directly supports:

- Section B5c, Energy, Common Policy Concepts: “APEC economies will set policy priority on...reducing the environmental impact of the energy sector.”

05. For applications under the TILF Special Account: How briefly this project contributes to APEC Trade and Investment Liberalisation and Facilitation (e.g. relevance to specific parts of the Osaka Action Agenda).

Not applicable

Linkages

06. The kinds of institutions in member economies intended to benefit from the results of the project. Highlight the direct benefits to the institutions, the types of business in member economies which will benefit from the results of the project and what the direct benefits are.

This project will benefit the private sector, NGOs, and governments of APEC member economies who are considering, or actively involved, in implementing distributed renewable energy based systems.

07. How the participation of the business/private sector and non-governmental institutions has been sought or will be sought. Illustrate how the business/private sector has been involved in the planning and delivery of the project and whether any other APEC fora have been consulted. (*)

Participants in the project will include NGOs, the private sector, and government officials. All APEC member economies will be invited to participate in the forum.

08. How this project will add “APEC value” (as to the potential benefits of implementing projects) in the context of other work that might have been done elsewhere in the same field.
(*)

The forum’s activities will be tailored to fit the problems and issues associated with the development of energy storage systems in the APEC region.

09. An indication of how the project might contribute to related projects or activities in APEC or elsewhere.

The project will build directly upon the workshop on distributed generation, distribution, and efficiency sponsored jointly by the Expert Group on New and Renewable Energy Technologies and the Expert Group on Energy Efficiency and Conservation.

10. Describe the deliverables of the project and demonstrate how they will meet the needs of the targeted beneficiaries.

The proceedings of the workshop will be disseminated to APEC member economies through the Expert Group on New and Renewable Energy.

Methodology

11. A concise description of the project’s methodology by components, with its associated outputs clearly specified.

The Expert Group on New and Renewable Energy Technologies will sponsor a workshop on advances in electricity storage in support of distributed renewable energy based systems.

This proposal encompasses four activities:

1. *Review advances in energy storage.* The U.S. delegation will develop an initial summary of advances in electricity storage as it relates to the implementation of distributed renewable energy systems.
2. *Plan and organize the workshop.* The U.S. delegation will make arrangements for the workshop, including the following activities:
 - Select Host Economy. The criteria for selecting a member economy will be interest on the part of member economies in distributed generation.
 - Develop Workshop Agenda.. The U.S. delegation will develop an initial agenda and submit it for review by representatives from other APEC economies.
 - Identify Appropriate Speakers. The U.S. delegation will select session chairs and expert speakers on distributed generation.
3. *Conduct the Workshop.* The workshop will be conducted over a 2 1/2-day period with the following schedule of activities:
 - Day 1: presentation by invited speakers.
 - Day 2: presentation by invited speakers.

Day 3: agreement on an action plan for distributed generation.

4. *Follow up the workshop.* Relevant papers and overheads will be compiled and published as a Workshop Proceedings.

12. A timeline for circulation and submission of this project proposal with drafts circulated well in advance to fora to allow careful consideration.
 - (1) February 2002: Submission of project proposal to the Expert Group on New and Renewable Energy Technologies
 - (2) March 2002: Submission of project proposal to the Energy Working Group
 - (3) May 2002: Concurrence by EWG 23.

13. A timetable for the accomplishment of each component in (11).

This project is scheduled to be completed by December 2003. The dates for completion of the activities are:

- a.5/2003: Develop initial background material.
 - b.5/2003 –8/2003: Plan workshop and invite participants.
 - c.9/2003: Hold workshop.
 - d.12/2003 –Prepare and distribute forum proceedings.
14. The number of APEC member economies that will participate in this project. Please indicate the names of member economies participating in each component of the project as set out in (11). (*)

The US will lead this project and all APEC economies can participate.

Budget

15. An itemized budget for the project, including provision for any publication and dissemination of project results, in the prescribed format. Applications under the Operational Account should use the format at *Annex A1*. Applications under the TILF Special Account should use the format at *Annex A2*. The budget should illustrate the assumptions adopted (e.g. unit costs) for the computations.

An itemized budget for this project is included.

16. A timetable for the drawdown of APEC funding requested for the project, including details of any advance payment or instalment payment requested and justifications for such requests.

About 75% of APEC funds will be utilized by October 2003
100% of APEC funds will be utilized by December 2003.

17. Details of any request for waiver or exception from the normal APEC financial rules with justifications.

Not applicable

Dissemination of Project Output

18. A plan for the publication and dissemination of the results of the project, including:
- a. the nature of the target audience, and, based on that audience;
 - b. the form and content;
 - c. format (e.g. hard copies, floppy discs, internet uploading);
 - d. number of copies for the publication;
 - e. accessibility of results for the targeted audience;
 - f. a publicity plan for:
 - i) briefing the general or specialist media about key components of the project;
 - ii) the promotion of sales or other dissemination of the final product; and
 - iii) budget for publication and dissemination, to form part of the itemized budget

The final product will be a written document that will include all presentation and background material developed for the workshop. The format will be an electronic document which distributed to each of the APEC member economies and made available electronically on the APEC website, with links to it from other energy-related organizations (e.g., U.S. Department of Energy, United Nations Development Programme, World Bank, and others). Approximately \$4400 of the total budget will be utilized in the preparation of the conference summary and its conversion to electronic format.

Assessment of Project

19. With reference to your objectives stated in paragraph 3, provide detailed criteria (quantitative and qualitative) for how you will measure your results in the short and long term to know if your project has been successful. State your current benchmarks for measurement, your target results from the project for each measurement criterion and the range of acceptable results both in numerical and percentage terms, where possible.

In the short term, the success of this workshop can be measured by the number of attendees and the level of their participation in its activities. In the longer term, the success of the workshop can be measured by adoption of advanced energy storage systems in APEC member economies.

Gender Criteria for Formulation and Evaluation of Projects

Objectives

1. Show how the objectives of the project provide benefits for women, where appropriate. APEC Ministers have indicated (*Framework for the Integration of Women in APEC*) that benefits might include: increased involvement of women; taking account of the differences in women's and men's lives (gender analysis); and collection/use of sex-disaggregated data.

Women will directly benefit from this study, since the development and implementation of clean energy systems will increase the overall quality of life and spear economic development in APEC member economies.

Linkages

2. Show how the participation of women has been/will be sought. Show how women are involved in the planning, management, allocation of resources, and implementation of the project.

It is anticipated that several women will be nominated to attend by Member Economies and women are expected to make up a significant percentage of the audience.

Methodology

3. Provide a brief description of the way women will be able to participate equitably in the development and implementation of the project.

Women's participation will actively be sought in the course of the development and implementation of the workshop.

4. Provide a brief description to show that the project will collect and use sex-disaggregated data (if available) to measure the project's effects on women.

The number of women attendees at the forum will be recorded.

Dissemination of project output

5. Does the plan for the publication and dissemination of the project's results include communication methods that are appropriate for women?
 - Questions that may be relevant include: Are women one of the target audiences? Does the plan take account of women with low literacy and women with low access to electronic media? Will the results be disseminated to women's organizations?

Although women are not a specific target audience of this project, it will be possible for women's organizations with Internet access from around the world to have access to the forum proceedings.

Budget

6. Are women involved in making decisions on the allocation of resources?

Not applicable

7. Where appropriate, provide details of the project's budget that are allocated to activities that address the specific needs of women.

Not applicable

Assessment of project

8. Provide details of how the project proponent will assess whether he/she has met the gender criteria for APEC projects and how he/she will measure the impact of the project on women.

Evaluation of the project with regard to its impact on women, will be done at the conclusion of the study.

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APEC Operational Account
Itemized Budget for Financial Year _____ 2003_¹

Items			APEC Funding (USD)	Self Financing (USD)
<i>Direct Labour</i>	No. of Hours	Rate		
- Speaker's Honorarium				
- Consultant (including Researcher) Fees				
- Consultant's Secretary Cost				
<i>Travel</i>				
- Per Diem (including accommodation and "additional payment")	12	\$200/day x 4 days	\$9600	
- Airfare	12	3000/ticket	\$36000	
	No. of Copies	Unit cost		
<i>Publication of report (including distribution)</i>	100	40 (including postage)	\$4000	
<i>Photocopying</i>				
<i>Communications (Phone/ Fax/ Mail/ Courier)</i>		400 (phone/fax)	\$400	
<i>Total</i>			\$50,000	

¹ If project straddles more than one year, please indicate only the amount of funds required for the financial year in question.