

Facesheet

(Tick ✓ one) **Project seeking APEC funding** **Progress Report** **Evaluation Report**
 (Tick ✓ one) () **Operational Account** () **TILF Special Account** (X) **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: Expert Group on New and Renewable Energy Technologies/Energy Working Group			
Title of Project: APEC 21 st Century Renewable Energy Development Initiative (Collaborative VIII): Demonstration of the feasibility of operating a renewables-related energy-service company (RESCO) in the hydro-electric field.			
Proposing APEC Member: USA			
Co-sponsoring APEC Member(s): Australia, Canada, PRC, Hong Kong- China, Japan, Korea, Malaysia, New Zealand, Chinese Taipei			
Project Overseer: Name, Title and Organization		(M/F)	
Mr. Andre van Rest APEC Program Manage US Department of Energy			
Postal address: 1000 Independence Avenue, SW Washington, DC 20585 USA		Tel: +1 (202) 586-9793 Fax: +1 (202) 586 1605 Email: andre.vanrest@hq.doe.gov	
Financial Information	Total cost of proposal (US\$): \$50,000	Amount being sought from APEC Central Fund (US\$): 0	
Type of Project: <input type="checkbox"/> seminar/symposium <input type="checkbox"/> short-term training course (X) survey or analysis and research <input type="checkbox"/> database/website <input type="checkbox"/> others <i>(Please specify)</i>			
Project start date: January 2002		Project end date: January 2003	
Project Purpose: This project is intended to demonstrate the feasibility of operating a renewables-related energy-services company (RESCO) in the hydro-electric field. Specifically, this project is to identify and prioritize hydro-power generation facilities possessing optimization project opportunities in APEC-member economies. Two other projects will focus on developing optimization-related power purchase contracts and actually implementing hydro-power optimization projects. Power generation optimization projects are defined as the modification of, or addition to, power generating equipment in existing facilities. Through the implementation of these power generation facility optimization projects, "latent capacity" is released from the existing power infrastructure without the need for new or greenfield power generation development. This release of "latent capacity" provides for additional power in a given locale with a lower cost and environmental impact per megawatt of capacity.			

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:

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 VIII): Demonstration of the feasibility of operating a renewables-related energy-service company (RESCO) in the hydro-electric field.
02. Name of the working group or committee taking responsibility for the project and the dissemination of its results.
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)

This self-funded project is being proposed as the first of a series of 3 projects under Collaborative VIII (Financing) of the APEC 21st Century Renewable Energy Development Initiative. These three projects are intended to demonstrate the feasibility of operating a renewables-related energy-services company (RESCO) in the hydro-electric field. The purpose of this project is to identify and prioritize hydro-power generation facilities possessing optimization project opportunities in APEC-member economies. Two other projects will focus on developing optimization-related power purchase contracts and implementing hydro-power optimization projects. Power generation optimization projects are defined as the modification of, or addition to,

power generating equipment in existing facilities. Through the implementation of these power generation facility optimization projects, “latent capacity” is released from the existing power infrastructure without the need for new or greenfield power generation development. This release of “latent capacity” provides for additional power in a given locale with a lower cost and environmental impact per megawatt of capacity. The short-term results will be based on the production of a list of facilities possessing identifiable optimization projects. The long-term results will be based upon the production of a list of facilities possessing identifiable optimization whose projects have been prioritized for their economic and environmental impact.

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 project supports the APEC Ministers and Leaders in their call for the development of new clean energy technologies and sustainable development. The project also specifically addresses key themes of the Manila Framework of 1996. Specifically, the overall economic infrastructure will be strengthened by development of domestic renewable energy resources; small and medium enterprises will be strengthened since they are the principle beneficiaries of the associated technology transfer; and environmentally sound growth will be promoted with the development of clean renewable energy based systems.

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 renewable energy technologies to reduce energy use and environmental problems. The project will have direct benefits in increasing the understanding of how to identify and finance efficient hydro-electric projects.

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 with significant hydro-electric development will be invited to participate in the project.

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 value to APEC will be to transfer successful project development methodologies which can be applied across all APEC economies.

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

By demonstrating the feasibility of the renewables-related energy-service company concept, all APEC member economies will benefit from the experience which can be applied to the development of both hydro and non-hydro renewable energy resources in their economies.

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

The completed project will consist of a report which documents the list of facilities within the APEC-member economies which have available hydro-power optimization projects. Such a list will assist APEC-member economies in identifying mechanisms for providing additional power quickly and in an environmentally sound manner. As most APEC-member economies are currently, or are rapidly approaching, a “net short” power position for their macro-economies, a prioritized list of facilities will identify those opportunities for an immediate impact.

Methodology

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

The methodology for the project is as follows:

- a. Identification of existing hydro-facilities in APEC-member economies. Through access to public databases and information sources, hydro-power generation facilities in APEC-member economies will be identified and classified according to their size, age, fuel source and locale.
- b. Initial screening of identified facilities. Utilizing a list of screening characteristics, the identified facilities will be segmented into those with potential for economically viable power optimization projects and those which may have optimization project potential, but which are unlikely to be economically viable.
- c. Orientation meetings in at least two APEC-member economies. After a culled list of identifiable facilities is prepared, in-country meetings will be held between personnel of the RESCO and local officials and asset owners.
- d. Site visits. With the assistance of local officials and power generation asset owners, the RESCO will arrange visits of the top potential facilities in at least two APEC-member economies. These site visits will include dialogues with facility operators and personnel to assess the current operations as well as explore the physical condition of the facility.

- e. Preparation of prioritized list of facilities. Upon completion of the site visits, the RESCO will prepare a list of facilities with potential power facility optimization projects prioritized by their economic and environmental viability.
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 July 2003. The dates for completion of the activities are:
- a. 6/2002: Identification of existing hydro-facilities in APEC-member economies.
 b. 6/2002 – 12/2002: Initial screening of identified facilities.
 c. 12/2002 – 6/2003: Orientation meetings and site visits in at least two APEC-member economies.
 d. 7/2003 – Preparation of prioritized list of facilities in at least two APEC-member economies.
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. This is a self-funded project.
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.
- Not applicable
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 the findings from the monitoring and assessment of the project. 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).

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.

The criteria for APEC projects will have been met if the project is structured so that the results are applicable and useful to all the APEC member economies. If it is possible to replicate the hydro-elect RESCO concept in other APEC economies, then the project will have proven positive results.

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 increase of clean affordable energy will increase the overall quality of life 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.

The participation of women will be sought in the development and implementation of the project.

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 this project through interviews, meetings and access to published material.

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.

Not applicable.

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 report and to seek guidance from APEC in renewable energy related RESCO development.

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	450	\$100/hour		45000
- Consultant's Secretary Cost				
<i>Travel</i>				
- Per Diem (including accommodation and "additional payment")				2000
- Airfare				3000
	No. of Copies	Unit cost		
<i>Publication of report (including distribution)</i>				
<i>Photocopying</i>				
<i>Communications (Phone/ Fax/ Mail/ Courier)</i>				
<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.