

# APEC Concept Note

**Please submit through APEC Secretariat Program Director. Concept notes of more than 3 pages (including title page) or incomplete submissions will not be considered.**

<b>Project Title:</b>	Small Hydro and Renewables Grid Integration Workshop
<b>Source of funds (Select one):</b>	<input type="checkbox"/> Operational Account <input type="checkbox"/> TILF Special Account <input checked="" type="checkbox"/> APEC Support Fund
<b>Committee / WG / Sub-fora / Task-force:</b>	Energy Working Group/ Expert Group on New and Renewable Energy Technologies
<b>Proposing APEC economy:</b>	Vietnam
<b>Co-sponsoring economies:</b>	USA, Chinese Taipei, Thailand
<b>Expected start date:</b>	June 1, 2012
<b>Expected completion date:</b>	December 1, 2013
<b>Project summary:</b>  Describe the project in under <b>150 words</b> . Your summary should include the project topic, planned activities, timing and location:  <i>(Summary must be no longer than the box provided. Cover sheet must fit on one page)</i>	Small hydro-electric generation systems are being utilized as part of the economy energy mix across APEC member economies. They are of special importance in developing member economies where they often provide the only firm power available in rural areas. However, as economy wide grids are established, small hydro and other small scale renewable energy systems pose unique technical problems to the economy grid operators. This workshop will bring together both project developers, electric utility representatives, and government officials who are involved in small scale hydro and other small renewables development across the APEC economies. At the workshop they will share experiences on best practices as well as current problems being faced in their economies associated with the integration of small hydro and other renewable energy systems into their electric grid. Outcomes of the workshop will include a suggested road map for addressing current grid integration problems and suggested future APEC projects.
<b>Total cost of proposal: (APEC funding + self-funding)</b>  <b>USD 85,000</b>	<b>Total amount being sought from APEC (USD): 60,000</b>  <b>By category:</b> <i>Travel:</i> 42,000 <i>Labour costs:</i> 15,000  <i>Hosting:</i> 3,000 <i>Publication &amp; distribution:</i> <i>Other:</i>

**Project Proponent Information and Declaration:**

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I declare that this submission has been prepared in line with the **Guidebook on APEC Projects**. If approved, I agree to develop the project in line with APEC project requirements.

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*Name of Project Proponent*

Pham Thanh Tung

**Date:** 15 December 2011

## Project Synopsis

1. **Relevance:** Why should APEC undertake this project? What problem or opportunity will the project address and why is it important?

Demand for electricity is growing across the APEC region. Small hydro and other small scale renewable can play an important role in meeting this demand while supporting sustainable economic development, particularly in rural areas. Information that can be shared between the developed and developing APEC economies and ensure that the small hydro resources are developed to their full potential and take advantage of new smart grid technologies to mitigate technical operational issues associated with linking such systems to existing electrical grids.

2. **Objectives:** Describe the 2-3 key objectives of the project. (e.g. to... create a framework...; ensure participants will be able to...; share experiences...; enhance understanding...; develop recommendations...; build interest...; revise strategies... etc.)

This project will allow APEC member economies to share experiences on an important clean energy resource that is available in rural areas across the APEC region. A principal result will be a road map on the way forward to address problems that are arising with the integration of small scale hydro and other renewables into the modern electric grid.

3. **Alignment:** Describe how the project will help achieve APEC's key priorities and meet your forum's work-plan or medium-term plan.

This project proposal aligns exceedingly well with both EWG and APEC-wide priorities. This project directly supports the development of cost effective renewable energy technologies that was supported in the Manila Action in 1996 with a call for clean technologies that promote sustainable development. It also aligns directly with the APEC Leader's key ECOTECH priorities of Climate Change, Energy Security and Clean Development. The project also directly supports the EWG 2011 Work Plan by promoting sustainable growth combined with reduced energy intensity.

4. **Methodology:** How do you plan to implement the project? In this section, address:

- **Timeline:** Project timelines and dates for key activities and deliverables

The project will be carried out in the following four steps:

- 1.(three months after project approval) Develop a list of organizations and personnel associated with small hydro development from other APEC
- 2.(six months after project approval) Plan and organize the workshop. Vietnam will make arrangements for the workshop that will include the following activities:  
Venue identification. Identify the venue to correspond with a planned EGNRET meeting.  
Develop Workshop Agenda. Vietnam will develop an initial agenda and submit it for review by representatives from other APEC economies.  
Identify Appropriate Speakers. Chairs and expert speakers on the development of small hydro will be chosen from both the public and private sector.
- 3.(nine months after project approval) *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: Develop APEC action plan roadmap
- 4.(twelve months after project approval) Follow up the workshop. Relevant papers and overheads will be compiled and published as a Workshop Proceedings and roadmap on the way forward will be developed.

- **Stakeholders:** Beneficiaries and stakeholders (APEC & non-APEC) and how they will be engaged

Beneficiaries are both central and local governments as well the rural communities who will most benefit from small hydro development. Invited participants from both the public and private sectors will include representatives from APEC economies who have experience in successful small hydro development in their economies.

- ***Previous projects/activities: If and how this proposal builds on the findings or lessons learned from previous projects/activities, while avoiding duplication***

This is the first APEC project to concentrate on issues associated with the development and implementation of small scale hydro development since most APEC projects have concentrated on large scale renewable energy systems development. However, it will still build on some general small scale results from a previous EGNRET project on “Technical Workshop to Support Village Power Applications” (EWG 04/2004).

- ***Communication: How you plan to communicate the results or benefits of this project to others***

The workshop is planned to share the outcomes of this project among APEC member economies possibly in conjunction with the EWG/EGNRET meeting.

Materials from the workshop will be made available on the EGNRET website.