

**Project Name**      **Renewable Energy Opportunities and Realities in the Central and North Coast – Initial Scoping Assessment**

**Program Area**      Human Well-Being  
**Project No.**        HWB03C

**Related Projects**    HW03A: Inventory Regional/Local Economic Initiatives  
                            HW03B: Benefit Sharing Models

**Start Date**         October 1, 2008  
**Completion Date**    January 31, 2009

### **Overview**

The EBM Working Group recently completed a strategic review of economic activities and initiatives being pursued in the Central/North Coast. Alternative and renewable energy (wind, run-of-river, wave, tidal and biomass energy) was identified as having significant potential that a coordinated approach to policy, infrastructure and project development could help to realize.

The purpose of this project is to complete a strategic, scoping analysis of renewable energy production and transmission opportunities in the Central and North Coast, with a view toward development of a regional renewable energy initiative that delivers economic opportunities and benefits to local communities.

The analysis will scope renewable energy issues and potential primarily in the Central and North Coast, but will incorporate existing source and transmission information related to Haida Gwaii.

### **Objectives**

The scoping analysis will seek to provide a comprehensive, strategic overview of:

- potential renewable energy sources (location and magnitude)
- transmission issues, costs and benefits (social and environmental).
- customer demand and regulatory issues, and
- constraints, risks and benefits (regional and local).

### **Expected Use/User/Benefits**

Overall, the project will inform strategic discussions between the Province and First Nations and local communities in the Central and North Coast regarding development and implementation of a regional, renewable energy initiative.

### **Key Tasks** (to be executed by contractor):

1. Environmental Scan of Potential Energy Sources and Magnitude
  - run of river, wave and tidal opportunities and values (\$\$ and employment)

- wind power – size, scope and timing (\$\$ and employment)
  - regulatory and financial scope issues
2. Overview of Transmission Issues, Costs and Potential Benefits
    - electrical grid—expansion, cost and timing (\$\$ and employment)
    - existing players and their plans—BC Hydro, Seabreeze Energy, others
    - proposed Transmission corridors and potential to link to communities
    - regulatory and financial scope issues
  3. Customer Demand and Regulatory Issue
    - markets—British Columbia, California, other USA
    - regulator Issues—BCUC, PGE, NEB, others
    - long term growth projections and relationships to benefits.
    - coastal communities;alternate energy opportunities – benefit vs cost (social and environmental).
  4. Conclusions
    - viability and timing
    - constraints and risks
    - benefits (\$\$, employment,social and environmental))

### **Milestones and Deliverables**

<u>Deliverable</u>	<u>End date</u>
Project Workplan	October 15, 2008
Draft report	December 31, 2008
Final report	January 31, 2009

### **Method of Implementation**

- Contract: Direct Award or RFP
- Expert Panel / Workshop
- Internal EBMWG Task

**Contractor qualifications:** (to be confirmed/recorded to project file by EBM WG Director):

- Knowledge of international, provincial and regional energy issues.
- Experience and familiarity with coastal issues.

### **Peer Review**

Draft copies of the report will be circulated to identified peer reviewers (Province, First Nations, Energy sector) the EBMWG members and project partners for review and comment.

## Budget

Item	Budget	Source
Consultant/contractor:	\$50,000	EBMWG