

Meeting Notes April 27 Working Group Meeting Haida Gwaii Community Electricity Plan

Materials provided in advance

1. Summary report from public meetings
2. List of issues confirmed in public meetings
3. Growth scenarios (including BCHydro Base Case, Scenario 1 and Scenario 2 from Public meetings and CVCS Scenario)
4. Sample bundle of options (provided at meeting).

Agenda

Item	Time
1. Introduction of new members and designates	12:30- 12:45
2. Review and comments on Terms of Reference	12:45-1:00
3. Update on progress and status of plan	1:00-1:15
4. Overview of public meetings - attendance, communities, input	1:15-1:30
5. Review and discussion of possible scenarios to use in analysis - Decision: Ideally- approve one scenario for use in the analysis of bundles of options	1:30-2:30
Coffee	2:30-2:45
6. Review of list of issues from public meetings and process for developing criteria for evaluation from the issues - Decision: an approved list of issues to be used to develop criteria for evaluating bundles	2:45-3:15
7. Review of sample bundle	3:15-3:30
8. Proposed next steps - decision analysis on bundles of options in next face to face WG meeting - Decision: Agreement to participate in decision analysis workshop and set date	3:30-4:00

In Attendance

Old Massett Village Council	Elizabeth Moore Ed Davis
Skidegate Village Council	None

Village of Masset	Barry Pages Marlene Liddle
Village of Port Clements	Travis O'Brien
Village of Queen Charlotte	Greg Martin
Skeena / Queen Charlotte Regional District Area "D"	Travis Glassman
Skeena / Queen Charlotte Regional District Area "E"	Ian Hetman
Haida Hereditary Chiefs	None
BC Hydro	Andrea Estergaard
Council of the Haida Nation	Kevin Brown Bill Beldessi (until 1:30 PM)
Ex Officio	
Ministry of Energy, Mines and Petroleum Resources	Christina Ianiciello
Guests	Jacques Morin
From Sheltair	Angela Griffiths (facilitator) Innes Hood

Discussion

1. Terms of Reference
2. The issue of decision making by the group was raised by a member in relation to the role of technical resources/ guests. The wording from the last version of the Terms of Reference (TOR) is reproduced below:

Working Group Membership and Alternates

The Working Group is composed of elected officials from each of the Island communities:

- *Old Massett Village Council*
- *Skidegate Village Council*
- *Village of Masset*
- *Village of Port Clements*
- *Village of Queen Charlotte*
- *Skeena / Queen Charlotte Regional District Area "D"*
- *Skeena / Queen Charlotte Regional District Area "E"*

plus a representative from each of the following

- *Haida Hereditary Chiefs,*
- *BC Hydro, and*
- *the Council of the Haida Nation.*

A representative of the Ministry of Energy, Mines and Petroleum Resources sits as an ex-officio member.

Each organization participating in the Working Group appoints a regular member and an alternate. Alternates of regular Working Group members may attend meetings along with the regular member, if they wish. If an alternate is attending with the regular member, then an alternate does not sit at the meeting table and does not participate in discussion or consensus decision-making. If an alternate is attending instead of the regular member, then the alternate sits at the meeting table and participates fully in discussion and in consensus decision-making.

Regular members are responsible for keeping their alternates informed and up to date on the work of the Group. Regular members are also responsible for keeping themselves informed of Working Group discussions and decisions if they must miss a meeting. Once approved, Summary Notes of the Working Group meetings will be distributed to the alternates, as well as to the regular members.

Guests, Technical Resources and Ex-Officio Members

A member of the Working Group who wishes to invite a guest or technical or information resource to a Working Group meeting to address a particular agenda item or to hear the discussion of a particular agenda item can propose such an invitation via email to all the other regular Working Group members. If any one regular member objects to the addition, no invitation is issued.

Working Group and consultant team members wishing to invite a guest or technical / resource individual to a meeting of the Working Group will give other members a minimum of ten (10) days notice. Any member who objects to an individual being invited will respond to the member making the suggestion not less than five (5) days before the scheduled meeting.

The wording in the TOR is somewhat different than that used in the original meeting and is based on input received by Nancy Cooley (the facilitator) after the December 6th meeting. The new wording was sent to Working Group members in March and no specific objections by Working Group members were received. There was general agreement on April 27th that the current approach of requiring an invitation prior to the meeting for all non Working Group members was acceptable.

Jacques Morin suggested that a formal representative of the technical group could be a permanent part of the Working Group. There was some discussion about how the technical group might choose their representative- but no formal motion was put forward by a Working Group member to do this.

Moving forward, Working Group members are requested to let other members know in advance about whom they wish to invite to the next Working Group meeting.

Facilitators Note: The Group agreed to participate in a decision analysis on June 1st, 2007. For this analysis- only Working Group members would participate (i.e. no guests or ex-officio members, or alternates in attendance with the primary designate). These others could participate in discussion, but not in the actual exercise.

3. Progress and status of plan

AG gave an overview of the plan to WG members, pointing out areas where the plan is evolving to accommodate Working Group members' interests in participating. An updated Public Involvement Plan will be prepared by Sheltair and submitted to the Working Group.

Sheltair has subcontracted with Compass Resource Management to provide decision analysis support. Compass has extensive experience with decision analysis, particularly in the electricity sector. Compass staff Graham Long and Michael Harstone will be facilitating the next WG meeting proposed for June 1 in Queen Charlotte.

It was requested by WG members that a "parking lot" be created for opportunities that are indirectly related to the CEP, but not directly related to the mandate of BC Hydro.

Parking lot issues identified in this meeting include:

- The role of managing the systems in terms of reliability
- How to include capacity building into the plan- i.e. to give schools a heads up in terms of what types of training or jobs might be needed

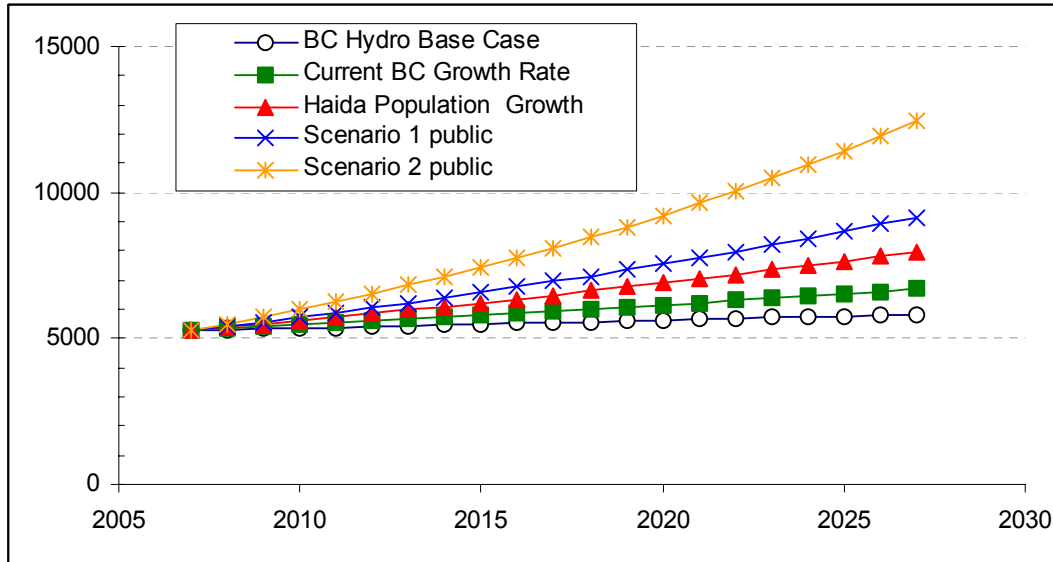
4. Public Meetings

AG reviewed the public meetings in terms of general response to the process and explained how the information that the project team required for the CEP was obtained. A full report on the public meetings is available on the website www.sheltair.com//haidagwaii

5. Scenarios

In the public meetings, community members were asked to envision the ideal future for the Islands in terms of the population, housing and associated services and infrastructure, in 20 years. Responses were grouped into two scenarios; Scenario 1 (high growth) and Scenario 2 (higher growth). AG presented a slide (See below) that showed population growth on the Islands under several scenarios;

- BC Hydro forecast
- BC provincial average growth statistics
- Growth rates of the Haida population extrapolated to the Islands as a whole
- The two scenarios derived from input at the public meetings.



AG asked the group to choose one scenario for proceeding with the analysis and development of the plan.

Discussion focused on what was realistic and achievable – but also acknowledged increased potential for growth given global and local economic changes which could benefit the Islands. The WG chose to move forward with Scenario 2 obtained at the public meetings - the highest growth scenario. The WG recommended that the plan include incremental steps that would meet the projected growth in an incremental fashion, to minimize risk.

6. Sample Bundles

The CEP will result in the identification of bundles of technology supply and demand side management options that are preferred by the Islands community. The Plan will not be considering specific projects. The bundles will be ranked by the WG against the issues/ criteria developed during this meeting.

Sample bundles were presented – but not discussed in detail due to time constraints. Sheltair will be developing additional bundles in association with Compass Resource Management for presentation to the WG on June 1.

The bundles in the table below were outlined at the meeting. They represent difference proportions of wind, tidal, small hydro and diesel. Both bundles include demand side management to meet the BC Energy Plan objectives.

	Description	Bundle 1	Bundle 2
DSM	Mix of energy efficiency building measures & energy efficient technologies	18,500 MWh conserved (50%) - to meet BC Energy Plan objectives	18,500 MWh conserved (50%) - to meet BC Energy Plan objectives
Wind	3 MW turbines Capacity factor: 30%	7,000 MWh	
Tidal	5 MW installed capacity Capacity factor: 20%	8,000 MWh	
Small Hydro	2.2 MW installed capacity Capacity factor: 65% (based on Lignite Creek)		12,500 MWh
Diesel Gen Sets	For voltage stability and base load and back-up	4,000 MWh	6,000 MWh

Moving away from diesel as the sole supply option is understood to be an objective of the Islands community, however, participants noted that reliability and, in particular, brown-outs are an issue of concern with the current system and with any new supply developed. Participants' preferences for different types of technologies will be explored in more detail in the next WG meeting.

7. Review of Issues and Objectives

The issues presented in the table below were originally identified by the WG at the initial meeting on December 6, 2006 and the public, during the public meetings in February-March, 2007. Based on these issues, Sheltair drafted a set of objectives for review by the WG. The table below shows the original issues and the objectives which were supported by the WG at this meeting.

	Issues	Objectives (determined from April 27 meeting)
Technical		
	Resource Potential	<i>Will not include a particular technology if the resource potential is found to be inadequate</i>
	Technical Feasibility	<i>Will not include a particular technology if it is not considered to be technically feasible</i>
	Reliability (higher quality electricity)	Minimize frequency of brownouts and surges Minimize frequency of blackouts
	Dependable Capacity	<i>(see above – objectives related to reliability)</i>
	Annual Average Energy Production	<i>No specific objective</i>
	Unit Energy Cost (UEC)	<i>Minimize long-term cost of electricity service (not a strong objective for all WG members, but was an objective for the service provide, i.e. BC Hydro)</i>
	Technological Diversity	Optimize variety of technologies
	Time Frame	Ensure short-term measures are included in bundles and minimize the time frame required to develop these
	Adaptability	Maximize incrementality (ability of the system to incrementally add capacity) Minimize risk
Social Equity		
	Regional Diversity of Electricity Supply	<i>This is a factor of where supply can be sited- not a specific objective</i>
	Sustainability of Supply	<i>Linked to resource potential</i>
	Consistency with other Plans	<i>This relates to an objective of the plan as a whole- i.e. will affect all bundles</i>
	Regional Equity	<i>This is a factor of where supply can be sited- not a specific objective</i>
	Ownership of Supply	Maximize on-Islands ownership
	Innovation/Leadership	Sustainability- leadership (innovation)
	Quality of Life *	No visual impacts No noise impacts
	Impacts on Food Production/ Harvesting*	No impacts on food production/ harvesting

	Issues	Objectives (determined from April 27 meeting)
Environmental		
	Impacts to Air/Land/Water	Minimize impacts to air/land/water
	Impacts to Birds/Wildlife	Minimize impacts to birds/wildlife
Economic Sustainability		
	Employment – On-Island	Maximize the number of jobs held by Islanders (specific % to be set as a target) Maximize the number of permanent jobs Maximize Islanders' accessibility to jobs (i.e. skills-related objective)
	Funding Sources	<i>No specific objective developed at this time</i>

* Note: The group did not reach consensus on the objectives related to food harvesting and quality of life. Some members felt that some impact was inevitable and would accept “minimize impacts” or “no net impacts”. However, several members felt very strongly that they wanted “no impact” on food harvesting and issues related to quality of life. The consultant team agreed to explore how to incorporate an objective of “no impact” into the decision process and to test it at the decision analysis workshop in June.

Sheltair, Compass and BC Hydro will review the objectives identified by the WG and will translate these into evaluation criteria to be used for the decision analysis process at the June 1st, 2007 meeting.

8. Next steps (Action Items)

- Evaluation criteria to be developed, based on the objectives that were identified by the WG at this meeting; these criteria will also be used to evaluate the bundles of supply and the demand side management (DSM) options. **Sheltair, Compass and BC Hydro**
- Decision Analysis workshop to identify preferred supply and DSM bundles, **Working Group, full-day workshop Friday, June 1**
- Compilation of results of the Decision Analysis. **Compass and Sheltair**
- Hold a round of public sessions on the Islands in late June to test the results. **Sheltair**

Note: If public input at these sessions demonstrates a significantly different set of preferences than what the WG identifies, we suggest calling an additional WG meeting to discuss this further.

- Create an implementation plan based on the preferred resource options bundles and DSM options. The final report is expected to be completed in the Fall of 2007. **Sheltair**
- Note: The WG can request an additional meeting once they have received the draft implementation plan