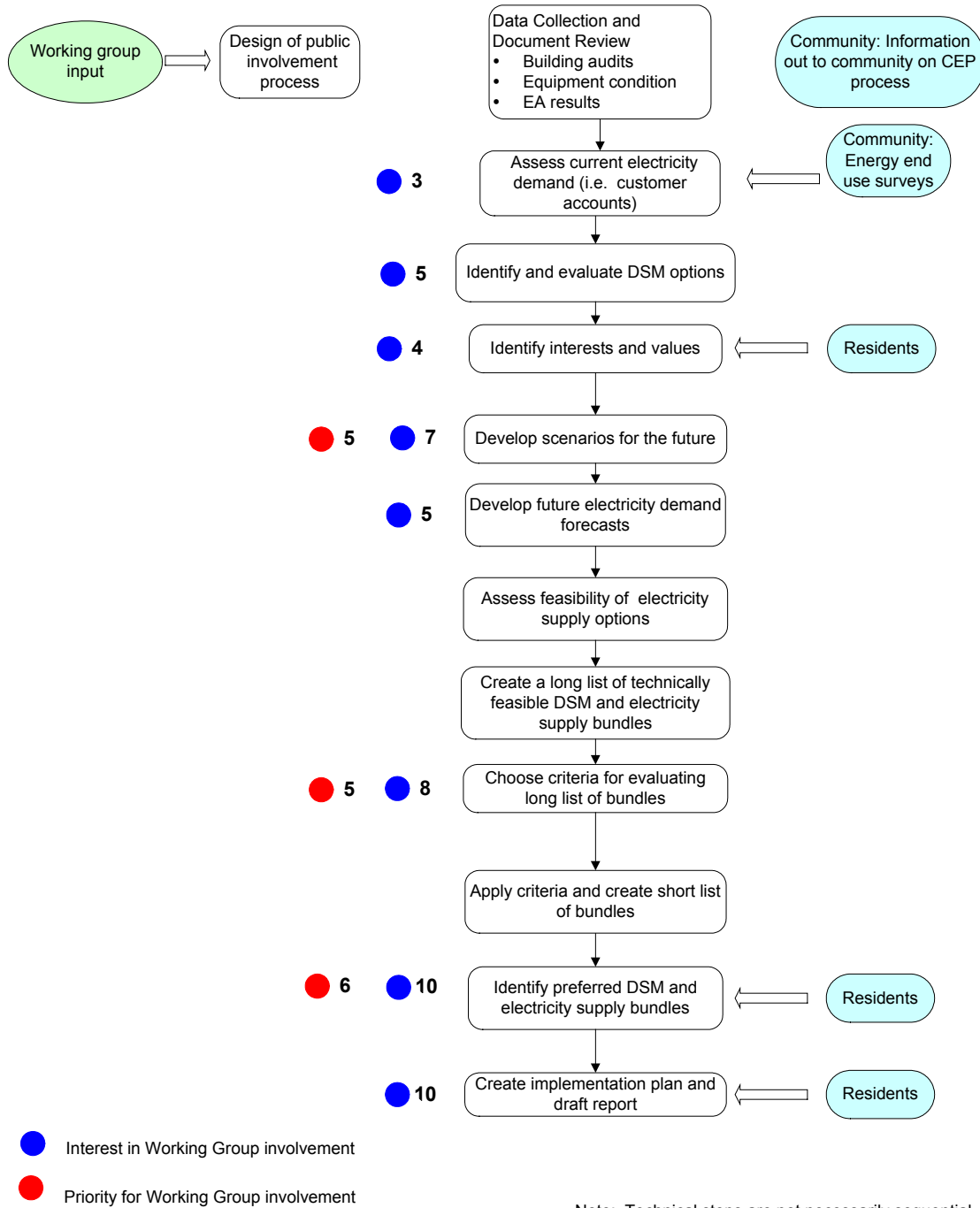


Community Electricity Plan Steps

The diagram below outlines how the key planning tasks will be undertaken during the development of the Community Electricity Plan. These tasks are described in more detail on the following pages. Note that these tasks are not necessarily sequential – some may occur concurrently.



Data Collection and Document Review

This task includes the collection and review of information on the island community. Background information will include description of locations, geography, population and demographics, governance, accessibility of services, and economy. The results of the EnerGuide Audits for Homes and BC Hydro's condition assessment report on their generation and distribution assets will also be included.

Assess Current Electricity Demand

In this task, the technical team will review current electricity use data provided by BC Hydro for residential, commercial and industrial accounts to develop a baseline of electricity consumption. The assessment will include information on consumption patterns and customer and utility generation costs.

Identify and Evaluate Demand-Side Management (DSM) Options

Potential demand reduction options will be identified and characterized by a series of attributes that may include, but are not limited to: cost effectiveness, energy savings, feasibility, and social and environmental impacts.

Identify Interests and Values

This step involves input from the broader community on their values and interests as it relates to electricity on Haida Gwaii. In particular, the consultant team is interested in learning about what the communities have planned in terms of future growth, economic development and also their opinions in terms of renewable energy.

Develop Scenarios for the Future

Based on the results from the Interest and Values Workshops and input from the Working Group, population projections and predicted economic development, the team will develop up to three scenarios that will be used in the next task. These scenarios will be snapshots of the Islands in the future and will describe things such as level of economic development, population, employment, etc.

Develop Future Electricity Demand Forecasts

Based on the three development scenarios, the team will forecast the long-term electricity consumption and capacity requirements to make these scenarios work.

Assess Feasibility of Electricity Supply Options

The team will identify and characterize feasible electricity supply options. The feasibility assessment will include analysis of costs, technology availability, availability of resources (e.g. biomass, wind, tidal), technical requirements, etc.

Create Long List of Technically Feasible DSM and Electricity Supply Bundles

The team will create demand reduction and electricity supply bundles that best meet the goals, objectives and values of the community with respect to electricity in Haida Gwaii (i.e., fulfill the needs of the scenarios).

Choose Criteria for Evaluating Long List of Bundles

Evaluation criteria which reflect the input from residents in the Interests and Values stage and input from the Working Group will be developed.

Evaluation criteria used in the past include estimated costs, associated local jobs, resiliency, capacity (i.e., the amount of generating equipment available to meet the demand for electricity), environmental impact, local ownership potential etc. The consultant team will provide a sample list of evaluation criteria to the Working Group and community and have them determine which ones they think are most relevant to the CEP for Haida Gwaii / Queen Charlotte Islands.

Apply Criteria and Create Short List of Bundles

In this task, the consultant team will prioritize the long list of bundles by rating them against the evaluation criteria identified in the previous task. We anticipate short-listing between 5-10 bundles with different mixes of demand reduction and alternative energy supply and other options.

Identify Preferred Demand Reduction and Electricity Supply Bundles

In this stage, the consultant team will prepare a package, outlining the short-listed bundles in terms of the evaluation criteria and broader community values and interests. A structured workshop will be conducted with residents and with the Working Group to prioritize the bundles in terms of preferred approaches.

Create Implementation Plan and Draft Report

Implementation of the CEP will involve a number of parties including local and First Nations' governments, the Provincial government, BC Hydro and independent power producers. The consultant team will create an implementation plan that outlines roles and responsibilities and at a high level, resource requirements (people and money) required for implementation. Further, this plan will identify short, medium and long-term actions. An evaluation and monitoring framework will also be suggested to ensure that the CEP is implemented successfully.

The CEP draft report will be presented to communities for final comment, before it is finalized.