

Village of Queen Charlotte – Request for Proposals

Renewable Energy Feasibility Study

The Village of Queen Charlotte requests proposals from professional, qualified, experienced engineering companies to provide a renewable energy study for the Village of Queen Charlotte which will investigate and make recommendation on the best renewable energy option, or combination of options, which would allow us to reduce, and hopefully eliminate, dependence on diesel energy generation and offset greenhouse gas emissions.

The proposal should cover:

- Assessing the Village’s current electrical demand to determine the appropriate project(s) sizing
- Assessing typical generation profile for solar, wind and hydro within the Village of Queen Charlotte based upon system design and publicly available environmental data
- Make a recommendation for renewal energy project(s) that would minimize payback time for the investment and maximize renewable energy generation including commentary on the cost/benefits of using storage to extend renewable energy generation
- Screen available roof-top surfaces in the community and provide a chart which identifies the best roofs to consider for this type of generation and based on those identified, provide an aggregate system size that would be created.
- Review bodies of water within the Municipal boundaries to determine suitability for development of micro-hydro projects, including a high-level study of hydrological, environmental and topographical features.
- Identification of spot(s) within the Municipal boundaries suitable for ground-mount solar and wind projects.
- Provide preliminary design and energy expectations for four technology options
 - Roof top solar for the top-ranked buildings in Queen Charlotte
 - Designs for ground mount solar array
 - Designs for wind energy project
 - Designs for micro-hydro projects
- Provide information on any renewable energy projects not already mentioned for which they feel that the Village of Queen Charlotte may be suitable for
- Calculate greenhouse gas emission savings relative to diesel generation for the ideas presented in this report
- Estimate the levelized cost of energy (LCOE) for each of the options presented using general system costing and cost savings from reduced reliance on diesel generation
- Provide a professional opinion on the pragmatic viability of the options presented considering infrastructure costs, local expertise available, development cycle, suitability of the equipment for the Municipality and life expectancy
- Provide an overall Renewable Energy Plan for the Village of Queen Charlotte and the next steps

Proponents will be expected to consult with BC Hydro and the Village of Skidegate when determining their recommendations. The Village of Skidegate currently has Renewable Energy projects in place and is developing more. A plan which capitalized on, or expanded on, what is already being done in Skidegate to the benefit of both communities would be optimal.

The Proponents are to provide a price outlining costs, including travel costs, with separate lines for GST and PST. Proposals are to be sent in a sealed envelope labeled "Renewable Energy Feasibility Study" with the company name clearly identified to The Village of Queen Charlotte, PO Box 580, Queen Charlotte, BC V0T 1S0. All Bids to be received no later than June 7, 2019 at 4:00 pm.

The lowest priced proposal will not necessarily be accepted. The Village of Queen Charlotte reserves the right to accept or reject any or all proposals, accept a proposal deemed to be in the best interests of the community, or cancel this RFP at any time. The Village of Queen Charlotte will not be responsible for any costs incurred by proponents in preparing a submission.

The proposals will be evaluated based on the following:

- Cost
- Relevant experience of organization
- Quality of proposal
- Time line for Completion
- Added Value
- Location of proponent (all things being equal, higher points will be awarded to local proponents)

Please note that there is no air mail delivery to Haida Gwaii. We are dependent on BC Ferries for the delivery of our mail. Therefore, please allow sufficient time for your submission to reach us - preferably 8-10 days. If you need assistance getting your package to us, you can contact Haida Gwaii Accounting and Income Tax Ltd. At 250 559 7756 or hga.office@haidagwaii.ca as they offer color printing and delivery services for a fee, provided that enough notice is given, ie: 72 hours excluding weekends.

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Issue Date: April 29, 2019

Closing Date: June 7, 2019 at 4:00 pm