



## The Knob Hill Wind Farm

The Knob Hill Wind Farm is the first wind farm that Sea Breeze is proposing to construct. The site is located on a high plateau approximately 8 km north of Holberg, and 35 km west of Port Hardy. Construction of the wind farm would take place over a period of two years.

The Knob Hill site is on an elevated plateau within the southern, very wet hypermaritime Coastal Western Hemlock biogeoclimatic zone. Due to its exposure to the open Pacific, the Knob Hill plateau has a very high average wind speed and good exposure to prevailing southerly and westerly winds.



The turbine towers will stand roughly 80m tall (~260 ft.), with three 50m (~160 ft.) long blades extending from a central hub. Each turbine will begin to provide power soon after being erected.

When complete, the Knob Hill wind farm will have 43-66 wind turbines and have an electrical capacity of 100 MWs. Sea Breeze estimates that Knob Hill will produce approximately 300,000 MWh of electricity, enough electricity to supply the annual needs of 30,000 island homes.

### Environmental Assessment Process

In 2004, Sea Breeze obtained an Environmental Assessment Certificate for the Knob Hill Wind Farm, issued by the Province under British Columbia's Environmental Assessment Act. Sea



Breeze conducted a thorough environmental impact assessment of the proposed Knob Hill wind farm which included studying local archaeology, wildlife, geology, and vegetation.

### Building strong community ties

Through consultation Sea Breeze Power has consistently demonstrated a desire to deliver enduring economic and social benefits to north Island communities and First Nations.

In turn, our community and First Nations stakeholders support the value of much needed economic diversification and job creation in the region through the development of clean, alternate energy generation.

### Milestones

- First wind energy project in British Columbia to receive an Environmental Assessment Certificate
- Protocol Agreements signed with the Quatsino and the Tlatlasikwala First Nations
- Over 5 years of wind data collected and analyzed



Renewable Energy for a New Generation





# Sea Breeze Energy

*'Unlocking British Columbia's Renewable Energy Potential'*

## **Investing in People**

During the years of planning and research Sea Breeze has invested in the region and employed local workers for meteorological work. Sea Breeze has also supported a regional library early childhood literacy program and has sponsored First Nation youths to attend the Educo Adventure School.



## **The Need for Renewable Energy in BC**

British Columbia's wind energy potential has been rated as some of the best in the world by Fortis Bank, the World Energy Council and the Petroleum Economist. Recognizing early on that the accelerating rate of climate change and the volatility of fossil fuel prices would drive an increased demand for 'green' energy, Sea Breeze had the foresight to stake a large number of properties throughout BC for wind energy analysis.

The wind resources on Vancouver Island are particularly substantial and can provide a secure source for the Island's long-term energy needs. As a clean, renewable source of electricity, wind energy is a valuable means of meeting growing energy demands while minimizing environmental impacts.



More than 80 jobs will be created during the year-long construction period and there will be at least another 10 permanent "green collar" jobs. In addition, the Wind Farm will require substantial support from local entrepreneurs providing goods and services during construction and ongoing operations.

### **WHY WIND?**

- A clean, vast and renewable resource*
- The simplest form of electric power generation*
- Helps reduce pollution and global warming*
- The fastest growing form of power generation worldwide*
- Driven by increasing demand for clean energy*
- Driven by local, regional and national mandates and incentives*



### **Sea Breeze Energy Inc.**

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