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Final Project Proposal

2015-11-02

**Howe Sound Wind Projections**

**Introduction**

Using historical wind data from the Squamish oceanfront, I plan on simulating wind turbine power generation data. Squamish, the wind surfing capitals of Canada has long been known to have a windy waterfront, especially in the summer. Using 7 years of wind data from this waterfront, this projects aims to simulate the potential for wind power generation.

(Carolin Mabel & Fernandez, 2008)

**Methods**

I plan to use wind turbine generation data combined with wind speed and direction data to simulate power output of wind turbines on the oceanfront.

(Laher et al., 2014)

**Expected Outcomes and Significance**

I expect to find fairly high wind outputs depending on the sizes and models of wind turbines simulated. If power output projections are high, this could be significant for potential future wind turbine installations in Squamish. This research could lead to future research of other locations in Squamish that may be even windier such us ridgetops.

(Thorarinsdottir & Gneiting, 2010)

**References**

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