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Suncor Energy Products Inc.

By it's agent – NRG LandSolutions Inc.

Kettle River 82L008 – Investigation Plan

Section A – Project Overview

Project and Purpose

Suncor Energy Products Inc. (Suncor) intends on constructing approximately 50 to 100 megawatts (MW) of electrical power generating wind turbines and associated facilities upon unsurveyed Crown lands within Osoyoos Division Yale District situated approximately upon Midway Range, in the vicinity of District Lot 4252, Osoyoos Division Yale District (see area plan attached). Following initial desktop assessments, performed by Suncor and NRG LandSolutions Inc., it has been determined that this area has potential for wind power development in terms of both wind resource, access to transmission, and appropriate construction conditions. The purpose of this application is for an Investigative License in order to determine the feasibility and logistics of successfully completing this project.

Location, Size, Main Features

The Kettle River Wind Power Project is to be located upon unsurveyed Crown land within Osoyoos Division Yale District situated in the vicinity of District Lot 4252, Osoyoos Division Yale District, containing 4728.3 hectares, more or less. The centre of this project area is located at approximately 50°0'37" North, 118°29'5" West. Approximate boundaries are 8.4 km wide x 7.6 km tall. The intent is to ultimately erect 50 to 100 MW of power generating wind turbines, as well as access roads, cable rights-of-way, sub-station, staging area, required transmission lines, and associated facilities upon these lands.

Initially, Suncor intends to erect a single meteorological tower (met tower) to measure wind speed and direction. The results will then help determine the economic feasibility and equipment requirements for such a project. It is anticipated the required met towers will be supported by guy wires, which will be anchored to the bedrock or attached to concrete foundations, dependant on sub-surface conditions. From the desktop review, it appears the existing road infrastructure will be sufficient for accessing the met tower sites, however if helicopter assisted installation is required, Suncor is prepared to evaluate that situation further. The met towers will be positioned in such a manner as to minimize the impact on flora and fauna and is expected to take up a foot print of approximately two acres. Data will be collected for the full term of the Investigative License in order to collect and evaluate long term seasonal wind speeds; in turn, providing the most confident wind resource calculations possible. As the specific met tower location is not yet known, following the issuance of the Investigative License, an amendment will be made to the Investigative License to include this met tower. Drawings and information indicating the specific location for the met tower and access to the met tower, will be included in the amendment.

It is anticipated that this project will be tied into the existing BC Hydro Transmission System. Suncor will commission a feasibility study to determine the interconnection details during the term of the Investigative License.

Construction Schedule

The erection of the met tower will take place promptly following the approval of the Investigative License amendment, dependant on seasonal access. The timing of which may vary slightly dependant upon equipment and crew availability, and weather conditions. The construction of the final wind farm will be dependent on the terms of an executed Power Purchase Agreement (PPA) between BC Hydro and Suncor. Typical wind farm development timelines, including construction, are three to four years after PPA award.

Section B – Project Description

Activities to be Conducted

During the collection of meteorological data, Suncor intends on conducting environmental studies to determine the relevant impact of such a project on local wildlife, birds, bats, plants and waterways. Visual and noise impact studies will be conducted to minimize any impact on local residents, and geological studies will be performed to determine appropriate construction methods, access routes, and associated costs. Coinciding with these activities will be identification and consultation with any First Nations groups, which may be affected, as well as local Municipalities, affected tenure holders, residents, and the surrounding community. NRG LandSolutions Inc. (LandSolutions) has been contracted by Suncor to aid in the organization and execution of these activities, as they have assisted us in the development of multiple wind farms in other Provinces. Their expertise includes document preparation, public consultation, First Nations consultation, Environmental Planning, and appropriate dispute resolution.

Suncor Energy Inc. ("Suncor Parent") is an integrated energy company strategically focused on developing Canada's Athabasca oil sands. Suncor Energy Products Inc. ("Suncor"), a wholly owned subsidiary of Suncor Parent, is a Canadian pioneer in wind power with six wind farms in operation and other projects in the development and execution stages. These six farms have a generating capacity of 255 MW and reduce carbon dioxide emissions by approximately 480,000 tonnes each year. Suncor is eager to facilitate the expansion of a robust renewable energy market in British Columbia and hopes to be a significant contributor to the ultimate success of BC's environmental stewardship.

Completed this 1 day of August, 2012 by **NRG LandSolutions Inc.** on behalf of **Suncor Energy Products Inc.**

Suncor Energy Products Inc.

By it's agent:
NRG LandSolutions Inc.



Philip Nelson
Manager of Power & Renewable Energy
NRG LandSolutions Inc.