



MKI

www.mkince.ca  
+1 778.998.3684  
612 Lefevere Ave.  
Kelowna, BC V1W 5G7

Nov. 14, 2023

Ministry of Forests and  
Front Counter BC  
441 Columbia Street  
Kamloops, BC V2C 2T3

**Investigative Plan for Application for Crown Land Tenure,  
Cariboo Wind & Solar Project with potential Battery Storage and Green Hydrogen  
generation.**

## **1.0 Background**

MKI is a renewable energy Developer with over 20 years of experience in Wind Power development and consulting. MKI (and associated numbered BC companies) holds approximately 5 Crown Land Tenures in BC. This Investigative Plan is required to make application for Crown Land Tenure and follows the guidance template provided by Front Counter BC.

This Investigative plan is for a Wind Power and Solar Power Project including Battery Storage. The capacity of the generation could be as high as 400 MW. The project is located on Crown Land in the Cariboo area of interior BC close to 100 Mile House. The power generated is intended to be sold to BC Hydro under upcoming Clean Power Calls to meet the electricity demand of the province.

### **1.1 Project Overview**

---

The purpose of the Investigative License sought is to undertake a feasibility study to determine the viability of wind and solar power projects on the site. The site under consideration are expected to have strong winds and good solar potential, leading to a potential for renewable energy generation in the area. The potential for Battery Storage and Green Hydrogen production will also be explored. The project is located on Crown land south-east of 100 Mile House.

The size of the project could be between 150 to 250 megawatts in size for the wind generation component. Each turbine would have a tower height of approximately 100-140 metres and a blade radius of approximately 55-90 metres, giving a total height not exceeding 240 metres to the blade tip.

The solar component could be between 50 and 200 MW. Solar PV panels will be mounted on racking and will track the motion of the sun to maximize generation. There will be several independent solar arrays depending on geography and constructability.

The project would also include access roads to each turbine and solar array and overhead and/or underground electrical lines to the point of interconnection with the existing electricity lines in the area. Substations and an on-site office will be required. The estimated size of the project footprint is approximately 1500 hectares.

The feasibility of battery storage and Green Hydrogen generation will also be explored in the Investigative Phase.

Construction and commissioning of the project would take approximately three years, although the actual construction date is dependent on the successful completion of environmental assessment and public consultation requirements for the project. The life of the Project could be 40 years. At the end of the project all above ground infrastructure will be removed from the area in accordance with a decommissioning plan to be part of the Environmental Assessment Process.

The Investigative Phase of the project will entail primarily:

- on-site meteorological measurements,
- electrical interconnection feasibility studies,
- First Nations engagement,
- regulatory and ministry consultation.

No additional road access will be needed during the Investigative Phase as the area is already serviced by resource roads. Likewise, there is no need for any tree harvesting as much of the area has been recently harvested.

The Investigative Phase activities could include deployment of meteorological tower(s), LiDAR wind measurement instruments and solar resource measurement equipment.

The feasibility of Battery Storage and Green Hydrogen generation will be explored in the Investigative Phase using desk-top methods (ie no field work).

If the feasibility of the resource is positive, a full Environmental Assessment will be performed according to the BC EA Act.

## 1.2 Seasonal Expectations of Proposed Use

Activity	Brief Description	Season/ Timing	Comments
Meteorological studies	met tower, LiDAR	multi-year	
Arch. screening	when ground disturbance	summer	not expected/needed
EA screening	Previous to full EA	all season	mainly desk-top

## 1.3 Engagement with First Nations

The closest FN reserve lands to the Project is Tinmusket IR 5a located approximately 25 km from the proposed tenure areas. This reserve is part of the Stswecem'c Xgat'tem First Nation, formerly known as Canoe Creek Band/Dog Creek Indian Band. The Stswecem'c Xgat'tem First Nation is part of the Northern Secwepemc te Qelmucw (Tribal Council).

The Canim Lake Band (Secwepemc Nation) is located approximately 30 km north of the project. The Canim Lake Band is part of the Northern Secwepemc te Qelmucw (Tribal Council).

Discussions with these bands will be initiated once this application is submitted.

---

## 2.0 Location

A [General Location Map](#) and a Detailed Site Plan are shown below. These are also uploaded with the application along with GIS shapefiles in BC Albers projection.

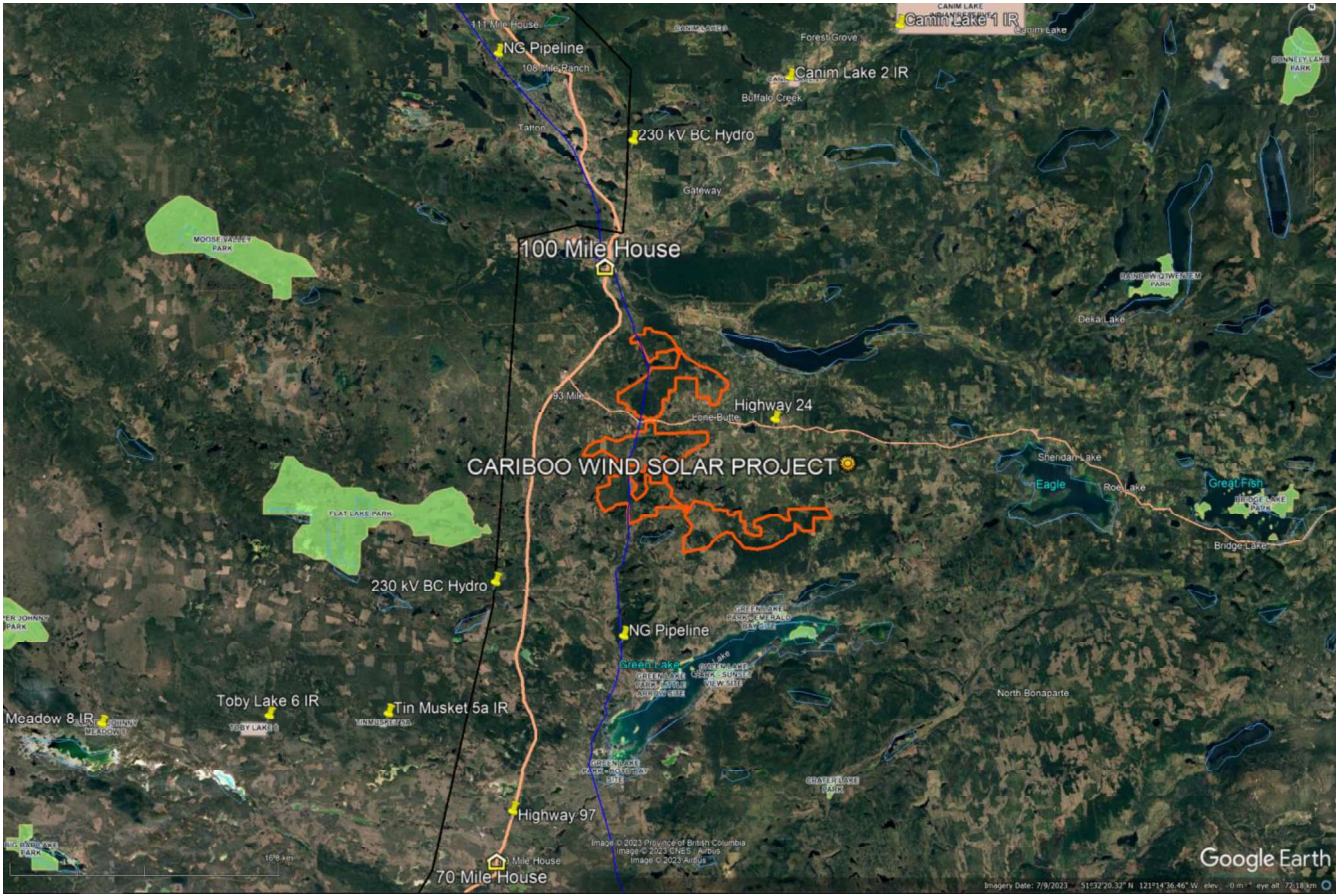


Fig 1. General Location Map. The Cariboo Wind & Solar Project is located south-east of the town of 100 Mile House in the Cariboo Regional District. This map shows the location of the Project in relation to the largest urban centre (100 Mile House) as well as Provincial Parks (green) and FN Indian Reserves (beige). The project is east of the Highway 97 and has other major linear infrastructure such as electricity transmission lines, pipelines and railroad running north-south close by.

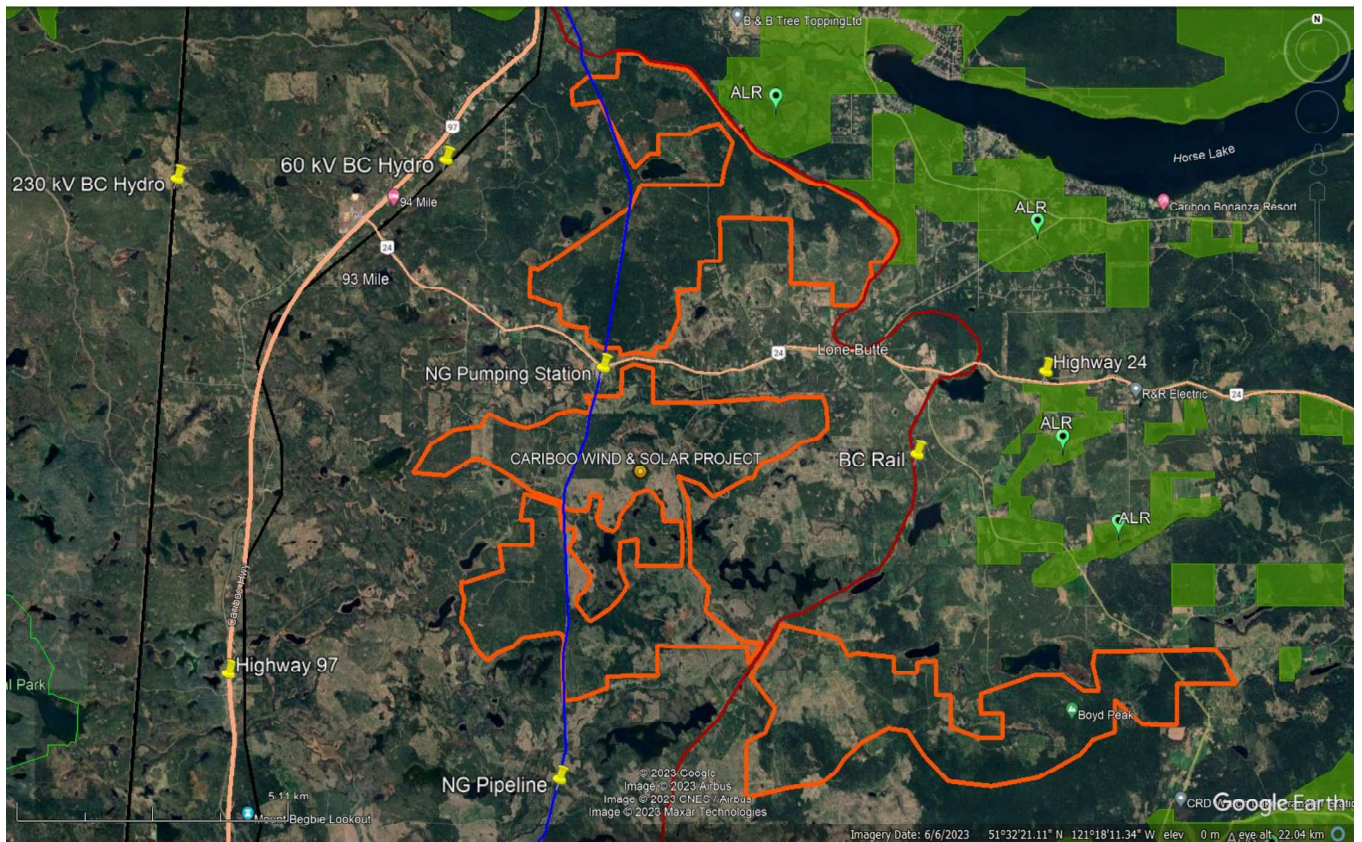


Fig 2. Detailed Site Plan. Showing boundaries of the requested crown land tenure (orange), Agricultural Land Reserve (green) and the existing linear infrastructure in the area.

## 2.1 Location Description

The major highway in the area is Highway 97 (Cariboo Highway) which runs north-south to the west of the project. A minor Highway (highway 24) runs east-west bisecting the proposed tenure area in the north.

Significant BC Hydro transmission lines exist in the area. Both a 230 kV and a 60 kV line parallel Highway 69 approximately 10 km and 15 km west of the project.

The Enbridge T4 south pipeline transfers natural gas from the Peace Region of BC to the interior and lower mainland and beyond. This pipeline runs through the proposed tenure areas. Compressor station #7 is immediately adjacent to the tenure area and could be an injection point for green hydrogen produced by the project.

BC Rail tracks and right of way is in some places bordering the tenure area and in other place cuts through the project tenure area. This track is not in use but appears capable of being restored to regular service.

## **2.2 Location Justification**

The proposed tenure area is suitable to the production of renewable energy, firstly due to the favourable topography, wind resources and solar resources, plus, the close proximity of transmission lines, highways, railroads and pipelines to provide ease of access/construction and to off-load the finish product whether it is electricity, green hydrogen or green ammonia.

## **2.3 Historical Use**

The land appears to be used for forestry purposes and has many areas recently harvested and in plantation.

---

# **3.0 Infrastructure and Improvements**

## **3.1 Facilities**

No facilities or improvements are required as part of the investigative phase. For a description of the proposed project see Section 1.1 above

## **3.2 Infrastructure/Access**

Access to the site during the investigative phase will be very simple. Highway 97 and Highway 24 provide access to a large number of site forest service roads that criss-cross the proposed tenure areas. During the investigative phase the roads will be used by nothing heavier than a regular pick-up truck.

These roads could easily be upgraded during construction to accommodate large sizes amounts of construction material. Forest Road Use Agreements will need to be negotiated with the existing permit holders. New roads will also need to be built.

Once the project is built, roads will be maintained to provide access to maintenance staff.

## **3.3 Utility Requirements and Sources**

During the investigative phase no access to utilities will be required. Any power requirements will be met by small portable, usually PV, systems.

## **3.4 Water Supply**

Water will not be required during the investigative phase.

---

If you have any questions or concerns, please contact me at your leisure.

Sincerely,

A handwritten signature in blue ink that reads "MK Ince". The letters are stylized and cursive.

Martin Ince, President  
M. K. Ince and Associates  
Ltd. (MKI)