

NWT Energy Corporation (03) Ltd.
#4 Capital Drive
Hay River, NT
X0E 1G2

October 29, 2018
File No. 989368-01

Gwich'in Land and Water Board
P.O.Box 2018
105 Veterans Way
Alex Moses-Greenland Building
Inuvik, NT X0E 0T0

Attention: Leonard DeBastien, Executive Director

Dear Mr. DeBastien

Re: Inuvik Wind Project application submission for preliminary screening

NWT Energy Corporation (03) Ltd. is proposing to construct a wind turbine at High Point to provide a source of renewable electricity for Inuvik. Attached is the application and background material to support the Gwich'in Land and Water Board in conducting a preliminary screening and subsequent permitting processes. To support your preliminary screening, a Table of Concordance is appended to this letter (and in Appendix M of the application) that indicates where the information required by the Board can be found in the application documentation.

Electricity from a wind turbine would reduce Inuvik's reliance on imported fossil fuels for electricity generation by offsetting some LNG/diesel with a source of renewable energy. External hydrocarbon sources of energy are expensive and can have negative effects to the environment resulting from greenhouse gas emissions and potential fuel spills. Energy produced from a wind turbine is clean, but wind turbines produce electricity between 70 and 90 per cent of the time and Inuvik will still need LNG/diesel generation to meet peak loads and when the wind is not blowing. Electricity from a wind turbine would help decrease the risk of more expensive electrical production if fuel prices go up. The wind turbine would continue to produce electricity at a consistent cost over the life of the project (25 years+).

The turbine would be located at High Point, about 12 km east of Inuvik, north of the Dempster Highway and west of Campbell Creek. We are proposing to install and operate one wind turbine (between 2-4 MW) with a 75 to 100 m hub height. An all-season access road would extend about 5 km south from the High Point site to the Dempster Highway. A transmission line would follow the access road to the airport electrical substation. The Project includes upgrades to electricity infrastructure at the airport, transmission to Inuvik and additional energy storage system at the Northwest Territories Power Corporation yard. The energy storage system (batteries) would help smooth out the wind energy production by compensating for fluctuations in the turbine's energy output, and it would store some of the excess energy produced by the turbine when production would exceed the ability of the local grid to accept it.

During our engagement activities we heard that many people were encouraged to see this project advancing after many years of preliminary discussions. Our application includes an Engagement Record of the recent discussions and an Engagement Plan that outlines our commitments to continue engagement should the Project proceed (Appendix J).

The impact assessment in our application is informed by a Traditional Knowledge/Traditional Land Use Workshop held in Inuvik (Appendix E) as well as real experience from wind turbines built across northern and western Canada. For this Project, we completed further baseline studies to help us understand potential Project impacts on values like migratory birds, vegetation, denning bears and heritage resources (Appendices B, C, F, G). The findings of these studies are described in the application and our impact assessment concludes that the Project will not result in significant impacts to the environment or resources. Our application further describes how we are committed to mitigating certain impacts.

We have appreciated the interaction with, and input from, your staff as we prepared to enter the preliminary screening process and look forward to working with you through assessment and permitting. If there is anything further you need from us, please do not hesitate to contact me or members of our technical consulting team.

Sincerely,



Jay K. Grewal
NTPC President & CEO
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