



**Hamlet of Sanirajak**

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March 23, 2023

To Whom It May Concern

**Support Letter – NNC-MET Site Recommendation**

Representatives of Nunavut Nukkiksautiit Corporation (NNC), who are exploring the potential for various renewable energy options for Sanirajak, discussed with the Council their proposed erection of a meteorological evaluation tower (MET) near the community at the Council meeting that was held on March 20, 2023. They propose that the MET will be equipped with sensors used to collect wind data such as wind speed and wind direction. The wind data will be collected for 12-18 months, and the collected data is essential in evaluating if a wind energy project is a feasible renewable energy solution for Sanirajak. At the conclusion of the project, the MET is to be disassembled.

With growing concerns over climate change, fossil fuel price volatility, and the need for energy security and sovereignty, the reduced dependence on diesel for electricity and its associated infrastructure is an admirable goal. Sanirajak's geographic location exaggerates the usage of fossil fuels that would be typical in most remote and off-grid Canadian communities. A minor shift away from diesel dependency will result in a significant impact and we fully support renewable energy projects.

We understand from NNC that they will be applying to the Nunavut Impact Review Board for project approval. I would like to inform NIRB that the Council fully supports this project including the site at which the MET is to be erected identified by NNC.

Should clarification or additional information on this matter be required, please contact either Chief Administrative Officer Louis Primeau or myself.

Yours truly,

  
Mayor Jaypetee Audlakiak

Attachments



## TECHNICAL MEMO – Sanirajak MET Site Recommendation

The information provided for this recommendation is based on the community feedback gathered from the Sanirajak Community Feast, hosted on November 23<sup>rd</sup>, 2022 and has since been updated following HTA and Hamlet Council meetings in March 2023. This recommendation is crucial as it will guide where to collect wind data, such as wind speed measurements and directions. This data is collected over a minimum of 12-18 months, and it is used to evaluate the average wind speed and direction over the course of the year.

It is important to note the meteorological survey equipment is different from the wind turbines, the equipment includes a meteorological evaluation tower (MET) equipped with wind speed and direction sensors. The construction of the wind turbines will follow only if there is approval of the wind site survey from the project team and community. **The MET is a temporary structure for the wind data collection and no turbines are being erected at this point in time.**

### Community Feast Feedback:

The feedback gathered from the feast was generally positive. The wind area locations were congruent with the community's interests and received no complaints. Two middle-aged community members supported the idea of renewable energy and were not concerned with the wind site locations if the equipment optimally functions. Generally, the community is welcoming the idea of renewable energy and is looking towards the completion of the projects and the opportunities it will bring to the community.

### Wind Site Community Feedback from Feasts:

Area No	Wind Feedback
Area 1	No comments
Area 2	Good idea, Best idea
Area 3	No comments

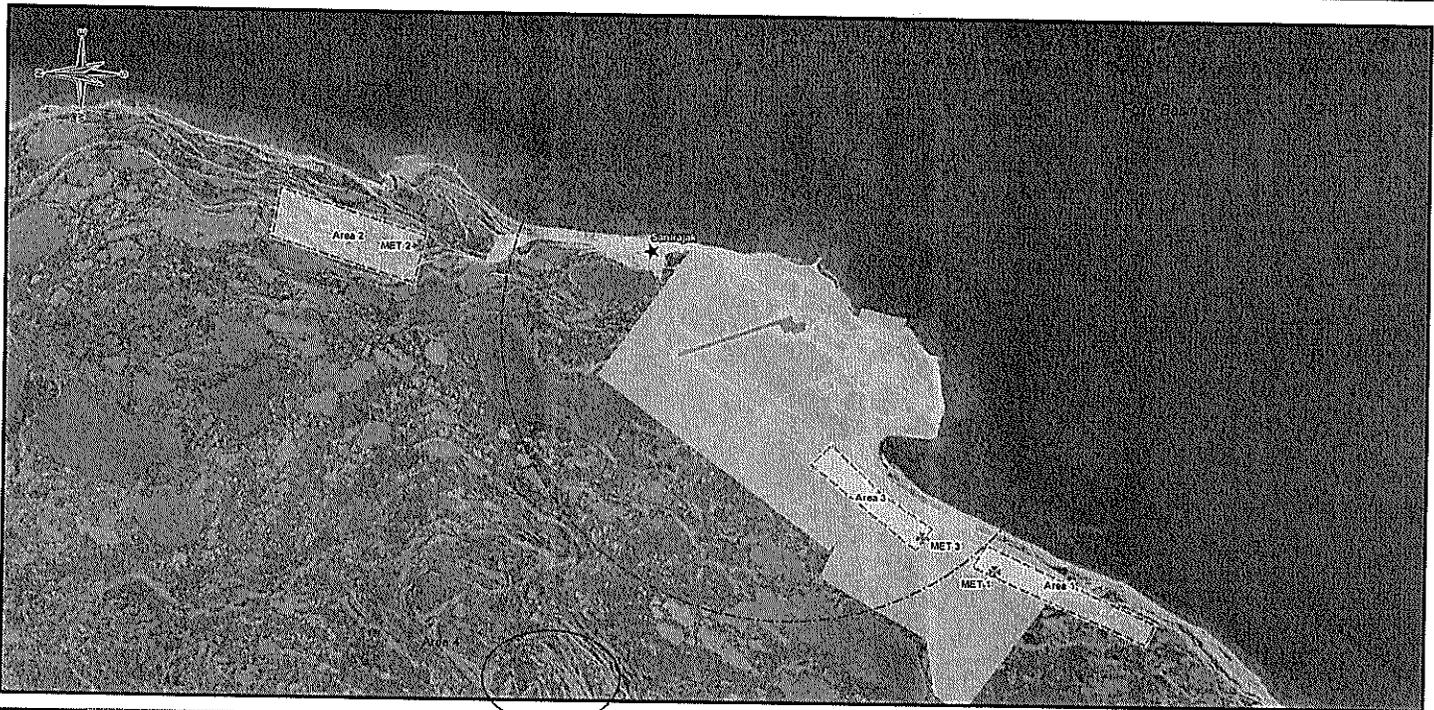
### Hamlet Council and HTA Meeting Feedback:

On March 15<sup>th</sup>, 2023, the Sanirajak Nukkiqsautiit Project team met with the Sanirajak HTA to discuss the preferred site, Area 2, based on the feedback received at the Sanirajak Community Feast in November 2022 and ask for their feedback and approval. It was identified that this site is a popular egg picking location, and as such a new location was recommended: an esker area west of town. The following week on March 20<sup>th</sup>, 2023, the Project team met with the Sanirajak Hamlet Council to discuss the updated MET location, answer questions, and receive feedback.

### Recommendation:

The initial wind site recommendation for the Sanirajak Nukkiqsautiit Project was Area 2. Based on the most recent feedback from the Sanirajak Hamlet Council and HTA, the new recommendation is Area 4. Area 4 is feasible as a wind project site because its location lies outside the 4km Airport Buffer zone and





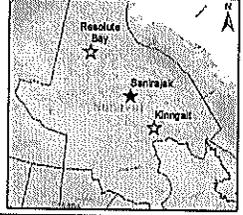
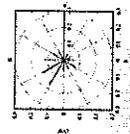
**LEGEND**

- ★ Community Location
- Community Outline
- ▬ Airport Runway
- 4km Airport Buffer Zone
- ✕ Proposed MET Tower
- ▭ Proposed Wind Array Site

- NOTES**
1. PROPOSED WIND ARRAY SITES ARE PRELIMINARY ALTERNATIVE LOCATIONS BASED ON DESKTOP REVIEW OF REGIONAL TOPOGRAPHY, WIND RESOURCE, PROXIMITY TO THE COMMUNITY, AND OFFSET FROM THE AIRPORT
  2. WIND ARRAY AREA ESTIMATES ARE BASED ON INSTALLATION OF 50M HUB HEIGHT, 24.4M ROTOR DIAMETER, 100 KW WTGS TO OFFSET 50% OF THE CURRENT DIESEL GENERATION
  3. PEAK LOAD AND ANNUAL ENERGY VALUES FOR THE COMMUNITY PROVIDED BY CEC
  4. WIND RESOURCE DATA AND WIND ROSE FROM THE CANADIAN WIND ATLAS (SOURCE: [HTTP://WWW.WINDATLAS.CA/MAPS-EN.PHP?FIELD=HUBHEIGHT&OS=50&SCR=AWN](http://www.windatlas.ca/maps-en.php?field=hubheight&os=50&scr=AWN))

POWER AND ENERGY	
Peak Load (Note 3)	723 kW
Annual Energy (Note 3)	3,539 MWh
Proposed WTG Configuration	9 x 103kW

STATUS: **READY FOR REVIEW**



<b>NUKKIQAUTIT PROJECT WIND POWER SCOPING STUDY</b>	
<b>COMMUNITY OF SANIRAJAK</b>	
PRODUCTION 551 9818001 0 500 1000 2000 Scale: 1:50,000 Meters	SYSTEM CSVD2510 CLIENT 
FILE NO. 1096-010_001.mxd OFFICE TFCPL Calgary	CLIENT 
DATE November 18, 2022	PROJECT NO. 1096-010 Map <b>SAN 1</b>