

▷ᑭᓚ▷ᑎᑦ: (867) 391-1206, ᓕᑲᓯᑦᑭᑦ:

፳፱፻፳፱ ሰላም ላይ ለሚገኝ ሕገ-መንግሥቱ ስለሚገኝ

ᖃᓪᓗᓴᓂᓐᓂᓐ: The Kitikmeot Wind and Solar Resource Assessment Project (Hilamiut) is a regional initiative designed to accelerate the development of community-scale renewable energy projects in Kugluktuk, Cambridge Bay, Gjoa Haven, and Kugaaruk. The project will collect bankable-quality wind and solar resource data and support Inuit-led renewable energy development. This application relates specifically to the first phase of the project in Kugaaruk. It consists of the installation and operation of temporary wind resource measurement equipment from October 2026 to October 2028. The project is a scientific research and resource assessment initiative only; no permanent renewable energy infrastructure is proposed. The temporary monitoring station will be located at an unused site within Kugaaruk municipal boundaries and will have a footprint of approximately 45 metres by 35 metres. It will include a ground-based LiDAR system, two sea containers housing monitoring equipment and power systems, six solar photovoltaic panels, four micro wind turbines, a methanol fuel cell system, a lead-acid battery system, communications equipment, temporary anchoring systems, and associated cabling. Construction is planned for September 2026 and will use existing access routes to minimize disturbance. During operation, the station will function autonomously and require periodic inspections and maintenance by a trained local technician. Community feedback directly influenced the final site selection. The selected site avoids important drinking water sources, provides year-round access, minimizes interference with community activities, and is located outside known harvesting, archaeological, and culturally significant areas. Construction and operation are expected to result in only minor, temporary ground disturbance. No water withdrawals are required, and no wastewater will be generated. At the end of the measurement campaign, all temporary infrastructure and waste materials will be removed, disturbed areas will be stabilized, and the site will be restored as closely as practical to its pre-project condition.

▷ ΔΑΝΩΣ: N/A

[illegible]

Inuinnaqtun: N/A

Personnel

Personnel on site: 1

Days on site: 38

Total Person days: 38

Operations Phase: from 2026-09-15 to 2026-09-30

Operations Phase: from 2026-10-01 to 2028-10-01

Closure Phase: from 2028-10-01 to 2028-10-31

Post-Closure Phase: from to

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Project Site	Equipment installation	Municipal	The site is within the municipal boundaries and currently unused. Discussions with Hamlet staff did not identify any previous land use.	N/A	Project is located approximately 8 km away from the Hamlet of Kugaaruk and 7 km from the airport

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ᐅᓂᓐᓴᓐ	Matt O’Halloran	Hamlet of Kugaaruk	2026-08-19
ᐅᓂᓐᓴᓐ	Community wide engagement	Hamlet of Kugaaruk	2025-11-25
ᐅᓂᓐᓴᓐ	Pauli Illuitok	Hamlet of Kugaaruk	2024-05-29

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Kitikmeot

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ᐃᑦᑭᑦ	Hamlet Land Use Approval	Applied, Decision Pending		

Project transportation types

Transportation Type	ᐃᑦᑭᑦ ᐃᑦᑭᑦᑕᐃᑭᑦ	Length of Use
Air	Flight for 2 staff to Kugaaruk to install the equipment	
Land	Pick-up truck for transportation to the site during equipment installation. Use of ATV/truck/snowmobile for operation and maintenance.	

Project accomodation types

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[illegible]

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ΔL^{ϕb} ◁^{ϕb} C▷^{ϕb} L^{ϕb} ▷^{ϕb}

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0	No water required	No water required

$$\Delta^b C d \zeta \rho \Delta^c \sigma^{\zeta^b}$$

$\triangleleft \triangleleft \nabla \triangleright C \dot{\sigma}^C \tau^C \triangleleft^b \tau^{\zeta_b} C \triangleright \gamma L \zeta^C$

The temporary project footprint is approximately 45 m × 35 m. Construction and operation activities are expected to result in only minor, temporary ground disturbance. No water withdrawals are required. No wastewater will be generated. The project has been intentionally located away from community drinking water sources. Construction noise will be temporary and limited to installation activities. Operational noise from the micro wind turbines is expected to be minimal. The turbine design includes vibration-dampening features within the tail assembly to prevent tail vibration, which is a common source of noise in small wind turbines, thus minimizing potential acoustic effects on the surrounding environment. The project will utilize a methanol fuel cell with approximately 600 litres of fuel stored on site in sealed manufacturer-approved cartridges. Cartridges will be stored within a secondary containment system. Fuel handling procedures will follow the project Spill Prevention and Response Plan. The project will generate very little waste during operations. Construction waste will be removed from the site and disposed of at approved facilities. All temporary infrastructure will be removed at the end of the project. Empty fuel cartridges will be disposed of like regular plastic.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

[illegible]

Flat, rocky ground; away from water sources; broadly supported by stakeholders and community at large.

[illegible]

No significant wildlife, harvesting or known archaeological conflicts were identified for the site during the 2025 engagement

[illegible]

Site is located within municipal boundaries and has a small footprint. Several individuals have been identified in the community to support with routine operation and maintenance activity.

Miscellaneous Project Information

[illegible]

Community feedback directly influenced the final site selection. The selected site avoids important drinking water sources, provides year-round access, minimizes interference with community activities, and is located outside known harvesting, archaeological, and culturally significant areas.

Cumulative Effects

None expected

Impacts

$\mathbb{A}^b \mathbb{C} \triangleright \sigma^a \tau^c \triangleleft \mathbb{B} \Gamma \triangleright \mathbb{C} \dot{\sigma}^c \mathbb{D}^c \triangleleft \mathbb{D}^b \mathbb{C} \triangleright \tau^c \mathbb{L} \tau^c$

Physical																	
Designated environmental areas																	
Ground stability																	
Permafrost																	
Hydrology / Limnology																	
Water quality																	
Climate conditions																	
Eskers and other unique or fragile landscapes																	
Surface and bedrock geology																	
Sediment and soil quality																	
Tidal processes and bathymetry																	
Air quality																	
Noise levels																	
Biological																	
Vegetation																	
Wildlife, including habitat and migration patterns																	
Birds, including habitat and migration patterns																	
Aquatic species, incl. habitat and migration/spawning																	
Wildlife protected areas																	
Socio - Economic																	
Archaeological and cultural historic sites																	
Employment																	
Community wellness																	
Community infrastructure																	
Human health																	

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