



Demande de la CNER faisant l'objet d'un examen préalable #126496

Hilamiut: Wind and Solar Resource Assessment Project - Kugaaruk

Type de demande : New

Type de projet: Scientific Research

Date de la demande : Thursday, September 17, 2026

Period of operation: from 2026-10-01 to 2028-10-01

Promoteur du projet: Tom Rutherfordale
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Nunavut
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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

Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
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

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Kugaarjuk	Matt O'Halloran	Hamlet of Kugaaruk	2026-08-19
Kugaarjuk	Community wide engagement	Hamlet of Kugaaruk	2025-11-25
Kugaarjuk	Pauli Illuitok	Hamlet of Kugaaruk	2024-05-29

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Kitikmeot

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Autre	Hamlet Land Use Approval	Applied, Decision Pending		
Institut de recherche du Nunavut	Research license from NRI	Not Yet Applied		

Project transportation types

Transportation Type	Utilisation proposée	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

Collectivité

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
LiDAR Unit	1	0.9 m × 0.9 m	Light Detection and Ranging system to collect high-quality wind resource data for renewable energy planning. The system uses a Class 1 eye-safe laser to remotely measure wind speed and direction at multiple heights ranging from approximately 10 metres to 300 metres above ground level.
Solar Panels	6	2.4x1.1 m	Solar photovoltaic (PV) panels will form part of the power supply system for the monitoring station.
Micro Wind Turbine	4	2 m	The micro wind turbines will form part of the power supply system for the monitoring station.
Sea Containers	2	20 feet	Two temporary sea containers will be installed on site to house electrical and communications equipment and the power supply systems
Galvanized steel platform	1	1 m high	Support for LiDAR equipment

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
Other	fuel	10	60	600	Liters	Methanol fuel cells
Gasoline	fuel	1	60	60	Liters	Snowmobile/ATV/Truck to and from site

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0	No water required	No water required

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Researching	Other, General waste	10 empty fuel cartridges	Disposed of like regular plastic	None
Equipment installation	Other, General Construction waste	Negligible	Waste will be disposed of in a manner that complies with local regulatory guidelines.	All temporary infrastructure will be removed at the end of the project

Répercussions environnementales :

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

Description de l'environnement existant : Environnement physique

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

Description de l'environnement existant : Environnement biologique

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

Description de l'environnement existant : Environnement socio-économique

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

Identification des répercussions et mesures d'atténuation proposées

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.

Répercussions cumulatives

None expected

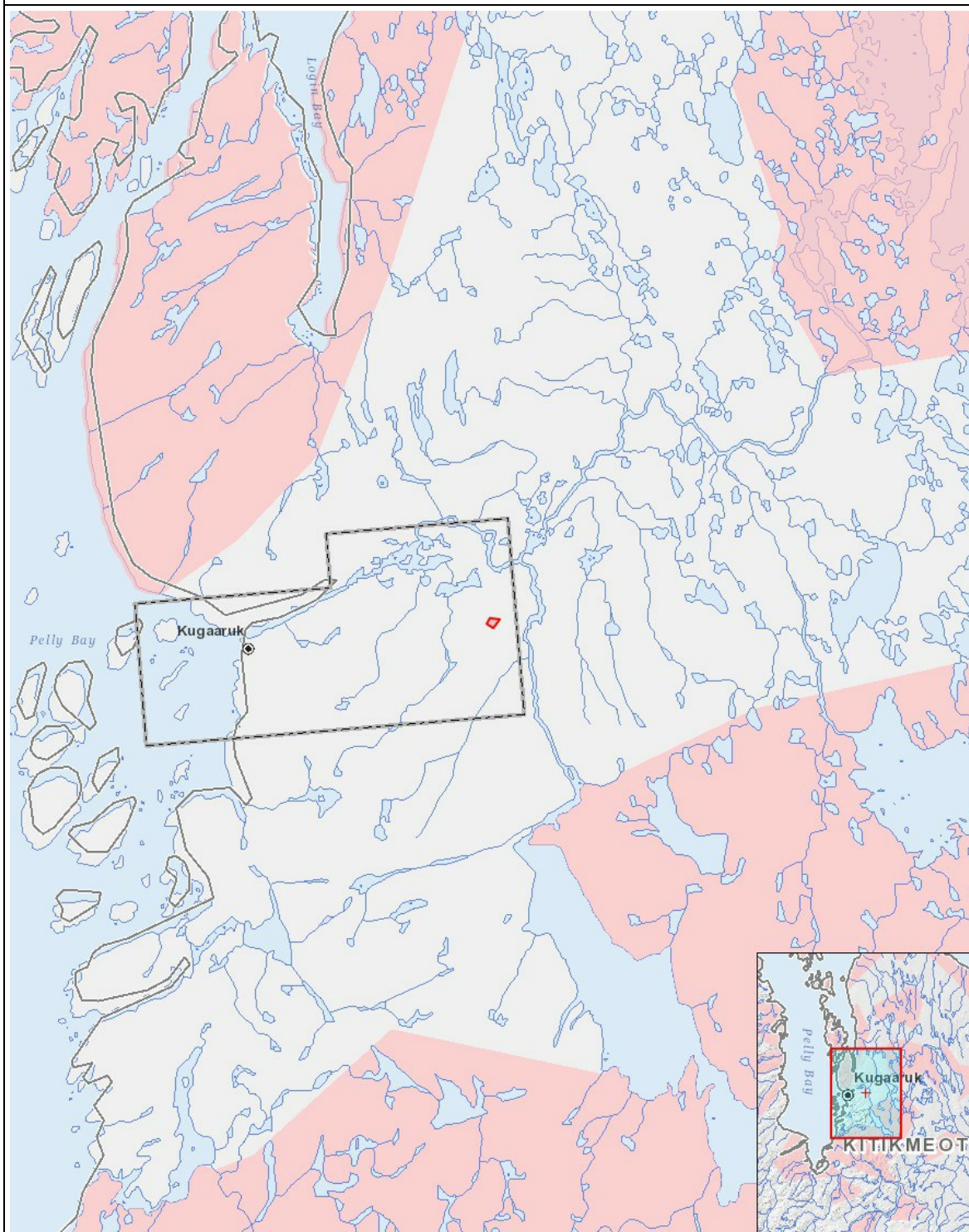
Impacts

Identification des répercussions environnementales

	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
Construction																									
Equipment installation	-	-	-	-	-	-	-	-	M	-	-	-	M	M	-	-	-	-	-	-	-	P	-	P	-
Exploitation																									
Equipment installation	-	-	-	-	-	-	-	-	-	-	-	-	M	-	-	-	-	-	-	-	-	P	-	P	-
Désaffectation																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Site du projet



Liste des géométries de projet

1	polygon	Project Site
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