





## Hulilukaarutit

| Inigiya                             | Hulilukaarut Qanurittuq | Nunangga Qanurittaakhaanik | Initurlinga qanuritpa  | Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga | Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna                 |
|-------------------------------------|-------------------------|----------------------------|--|---|---|
| Rankin Inlet Met Tower Location     | Other                   | Municipal                  | This site has not had any development prior to NEC acquiring the Land Use permit. A meteorological tower has been erected to asses the wind resources of the proposed site. Wind turbines constructed in the future will provide power to the community. | None Identified.  | This area is North-West of the Hamlet of Rankin Inlet, within the municipal boundaries. |
| Rankin Inlet: Potential Access Road | Access Road             | Municipal                  | This area has limited development. The construction of the wind farms will require an access road be developed. These needs will be addressed in the engineering phase with significant input from the community.  | None Identified.  | This area is North-West of the Hamlet of Rankin Inlet, within the municipal boundaries. |
| Baker Lake: Potential Access Road   | Access Road             | Municipal                  | This area has limited development. The construction of the wind farms will require an access road be developed. These needs will be addressed in the engineering phase with significant input from the community.  | None Identified.  | This area is North of Baker Lake, within the municipal boundaries.                      |
| Baker Lake Project Site             | Other                   | Municipal                  | This site has not had any development prior to NEC acquiring the Land Use permit. A meteorological tower has been erected to asses   | None Identified.  | North of Baker Lake, within the municipal boundaries.                                   |

|  |  |  |   |  |  |
|--|--|--|---|--|--|
|  |  |  | the wind resources of the proposed site. Wind turbines constructed in the future will provide power to the community. |  |  |
|--|--|--|---|--|--|

**Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun**

| <b>Nunauyuq</b> | <b>Atia</b>       | <b>Timiuyuq</b>               | <b>Upluani Uqaqatigiyaungmata</b> |
|-----------------|-------------------|-------------------------------|-----------------------------------|
| Qamaniittuaq    | Sheldon Dorey     | Baker Lake Hamlet Council     | 2018-10-01                        |
| Kangirliniq     | Martha Lenio      | WWF Canada                    | 2018-05-15                        |
| Kangirliniq     | Kevin Sanguin     | Sakku Development Corporation | 2017-09-15                        |
| Kangirliniq     | David Kakuktinniq | Sakku Development Corporation | 2018-06-20                        |

# Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Kivalliq

## Angiuttauvaktunik

| Munariniqmut<br>Ayuittiaqtuq   | Angirutinga<br>Qanurittuq   | Tadja<br>Qanurittaakhaanik | Ublua<br>Tuniyauyuq/Uuktuqtuq | Umikvikhaa Ublua |
|--|---|----------------------------|-------------------------------|------------------|
| Tingmiliqiyiitkut<br>Kaanatami   | Authorization to erect the Meteorological Tower in Baker Lake.  | Active                     | 2018-11-21                    |                  |
| Alaanut  | NAVCAN:<br>Authorization to erect the Meteorological Tower in Baker Lake.   | Active                     | 2019-01-06                    |                  |
| Tingmiliqiyiitkut<br>Kaanatami   | Authorization to erect the Meteorological Tower in Rankin Inlet   | Active                     | 2018-05-14                    |                  |
| Alaanut  | NAVCAN:<br>Authorization to erect the Meteorological Tower in Rankin Inlet  | Active                     | 2018-04-30                    |                  |
| Nunavut Kavamanga,<br>Nunalingni<br>Kavamatkunnilu<br>Pivikhaqautikkut | Land Use Permit for Rankin Inlet Site   | Active                     | 2018-06-14                    |                  |
| Nunavut Kavamanga,<br>Nunalingni<br>Kavamatkunnilu<br>Pivikhaqautikkut | Land Use Permit for Baker Lake Site   | Active                     | 2019-04-01                    | 2021-03-31       |
| Alaanut  | With the go ahead to proceed with the clean energy project, authorization from NavCan will be required for erection of the wind turbines.                         | Not Yet Applied            |                               |                  |
| Nunavut Kavamanga,<br>Nunalingni<br>Kavamatkunnilu<br>Pivikhaqautikkut | With the go ahead to proceed with the clean energy projects, extension of the Rankin Inlet and Baker Lake land use permit will be required.                       | Not Yet Applied            |                               |                  |
| Tingmiliqiyiitkut<br>Kaanatami   | With the go ahead to proceed with the clean energy project, authorization from Transport Canada will be required for erection of the wind turbines at both sites. | Not Yet Applied            |                               |                  |
| Alaanut  | There are several other permits and authorizations that will be needed for this project to proceed.   | Not Yet Applied            |                               |                  |

|   |   |                 |  |  |
|---|---|-----------------|--|--|
|   | Several of these, including blasting permits, will be assessed on an as-needed basis and applied for during the engineering phases. |                 |  |  |
| Nunavunmi Ihivriunqimut Timiqutigiyanga | Permit for the installation of the Met mast towers.   | Not Yet Applied |  |  |

**Project transportation types**

| <b>Transportation Type</b> | <b>Qanuq Atuqtauniarmangaa</b>  | <b>Length of Use</b> |
|----------------------------|---|----------------------|
| Water                      | Barge will be used to bring the wind turbines and other equipment to Rankin Inlet, and the same barge will be used to transport the equipment through Chesterfield Inlet to Baker Lake. |                      |
| Land                       | Overland transportation will be required to bring the turbines to their respective site locations.  |                      |

**Project accomodation types**

Nunauyuq

# Ihuaqutivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

| Hanalrutit Qanurittuq       | Qaffiuyut | Aktikkulaanga – Qanurittullu                        | Qanuq Atuqtauniarmangaa  |
|-----------------------------|-----------|---|--|
| Bulldozer                   | 1         | D8 or equivalent                                    | Road upgrading, site preparation                                 |
| Excavator                   | 2         | 300 series or smaller                               | site prep, road building, equipment handling                     |
| Dump truck                  | 2         | standard  | movement of material for access upgrading and site prep          |
| Grader                      | 1         | standard  | access upgrading and development                                 |
| Cement truck                | 2-4       | standard  | used to pour tower foundations                                   |
| Water truck                 | 1         | standard  | to supply water to rock drills from a municipal source           |
| rock drills                 | 1         | small   | to drill bedrock for blasting or direct anchor placement         |
| skid steer and/or boom lift | 1         | standard  | these will be used to move materials around at the laydown areas |
| Cranes                      | 2         | 250-400 tonne main crane and a 90 tonne small crane | used for wind tower assembly                                     |

## Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

| Qanurittuq urhuqyuaq hunavaluit aturninnga: | Urhuqyuaq Qanurittuq | Qaffiuyut qattaryut | Qattaryuk Aktikkulaanga | Atauttimut Qaffiuyut | Ilanga | Qanuq Atuqtauniarmangaa              |
|---|----------------------|---------------------|-------------------------|----------------------|--------|--------------------------------------|
| Diesel                                      | fuel                 | 1                   | 500                     | 500                  | Liters | Power equipment (Construction Phase) |
| Gasoline                                    | fuel                 | 1                   | 205                     | 205                  | Liters | Small gas powered equipment          |
| Propane                                     | fuel                 | 1                   | 100                     | 100                  | Lbs    | Propane heaters (if required)        |

## Imaqmik Aturninnga

| Ubluq qanuraaluk (m3) | Aturumayain imavaluin utiqittagaani qanuq  | Atulirumayain imavaluin utiqittagani humi |
|-----------------------|--|---|
| 0                     | Water needed by equipment will be sourced by our contractors through their regular channels. Water requirements are expected to be minimal. No other water will be required on site. |   |

# Iqqakuq

## Ikkakunik Munakgiyauyunik

| Havauhikhaq Hulilukaarut | Qanurittuq Iqqakut              | Ihumagiyauyuq Qanuraaluktut Atuqtait | Qanuq Iqqakuurniarmangaa  | Halummaqfirarnirutikhan piyutin |
|--------------------------|---------------------------------|--------------------------------------|---|---------------------------------|
| Equipment installation   | Ikulalimanngittun iqqakuuvaluin | 1 tonne maximum                      | General construction waste. No waste storage will occur on site. Waste will consist of general construction waste and will be disposed of at the local municipal waste facilities. No hazardous waste will be produced. | None.                           |

### Avatiliriniqmut Ayurhauingit:

No predicted negative environmental impacts. This project is anticipated to significantly reduce the amount of diesel combustion in the Kivalliq region, and will therefore limit the amount of possible fuel spills as well as the need to ship significant amounts of fuel. This will improve the overall environmental health of the region.

# **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**

### **Qanurittuq Ittunik Avatinga: Avatingalluanga**

This section outlines the general condition of each site including existing infrastructure and physiological characteristics. Both the Rankin Inlet and Baker Lake sites exist within the local municipal boundaries for those respective communities and within pre-disturbed areas. Both sites consist of gently undulating shallow soils with little to no vegetation. Bedrock exists at or near ground surface at both sites.

### **Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga**

Described in part above.

### **Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga**

Community consultation is on-going. So far the feedback from both the Baker Lake and Rankin Inlet communities has been very positive. This project will grow and continue to employ two full-time workers at each site. The construction phase will also allow for additional employment, which will be sourced primarily from the Hamlets. Outside workers will require lodging and meals from the Hamlet during the construction phase and provide economic benefits during that time.

### **Miscellaneous Project Information**

#### **Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit**

The impacts from this project are largely positive. The positive impact of diversification of the communities energy generation will take some of the load off of the aging power plants. This project represents Nunavut's first big step into clean energy will be a landmark project for the territory. This project will reduce the reliance of diesel to generate electricity in these communities, reducing all the risks associated with shipping, storing, and burning large quantities of fossil fuels.

#### **Tamatkiumayunik Ihuikgutivaktunik**

The life of a wind farm is typically 25-30 years. Rankin Inlet and Baker Lake will benefit from this infrastructure for future generations.

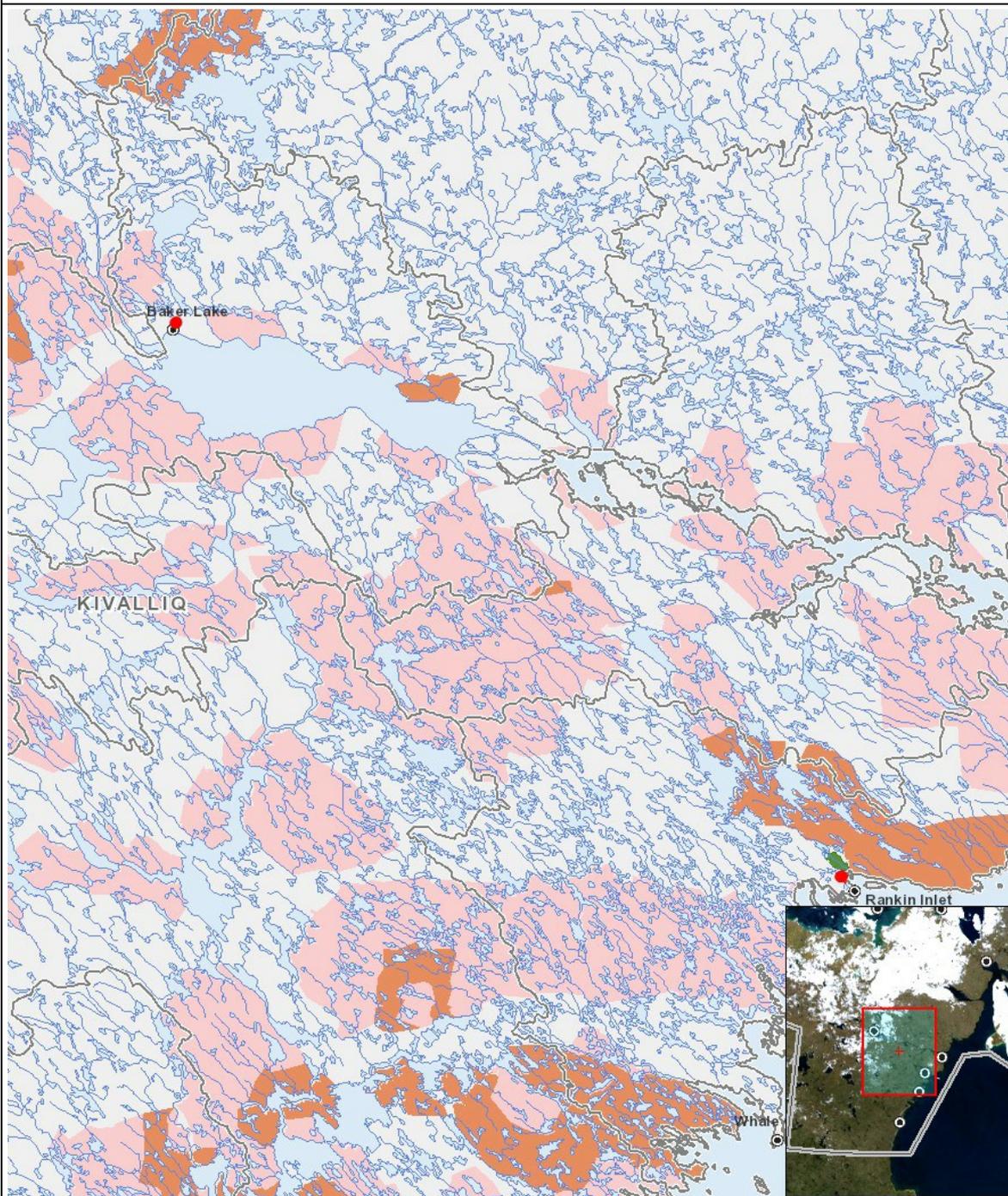
# Impacts

## Ilitariyauniq Avatiliriniqmut Ayurhautingit

|                       | 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 |
|-----------------------|----------|--------------------------------|------------------|------------|-----------------------|---------------|--------------------|---|-----------------------------|---------------------------|--------------------------------|-------------|--------------|------------|------------|--|---|---|--------------------------|----------------|--|------------|--------------------|--------------------------|--------------|
| <b>Havakvinga</b>     |          |                                |                  |            |                       |               |                    |   |                             |                           |                                |             |              |            |            |  |   |   |                          |                |  |            |                    |                          |              |
| Other                 | -        | -                              | -                | -          | -                     | -             | -                  | -   | -                           | -                         | -                              | -           | -            | -          | -          | N  | -   | -   | -                        | P              | -  | -          | -                  | -                        |              |
| <b>Aulapkaininnga</b> |          |                                |                  |            |                       |               |                    |   |                             |                           |                                |             |              |            |            |  |   |   |                          |                |  |            |                    |                          |              |
| Other                 | -        | -                              | -                | -          | -                     | -             | -                  | -   | -                           | -                         | P                              | M           | -            | -          | -          | -  | -   | -   | -                        | P              | -  | -          | -                  | -                        |              |
| <b>Piiqtauniq</b>     |          |                                |                  |            |                       |               |                    |   |                             |                           |                                |             |              |            |            |  |   |   |                          |                |  |            |                    |                          |              |
| -                     | -        | -                              | -                | -          | -                     | -             | -                  | -   | -                           | -                         | -                              | -           | -            | -          | -          | -  | -   | -   | -                        | -              | -  | -          | -                  | -                        |              |

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyayuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

|    |          |                                     |
|----|----------|-------------------------------------|
| 1  | polygon  | Baker Lake Project Site             |
| 2  | polygon  | Rankin Inlet Project Site           |
| 3  | polyline | BL: Proposed Transmission Line      |
| 4  | polyline | RI: Proposed Transmission Line      |
| 5  | polyline | Rankin Inlet: Potential Access Road |
| 6  | polyline | Baker Lake: Potential Access Road   |
| 7  | point    | Rankin Inlet Met Tower Location     |
| 8  | point    | BL: NW Corner                       |
| 9  | point    | BL: NE Corner                       |
| 10 | point    | BL: SE Corner                       |
| 11 | point    | BL: SW Corner                       |
| 12 | point    | RI: NW Corner                       |

|    |       |               |
|----|-------|---------------|
| 13 | point | RI: NE Corner |
| 14 | point | RI: SE Corner |
| 15 | point | RI: SW Corner |