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## Arviat Wind Energy Project

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Municipal and Industrial Development

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Period of operation: from 0001-01-01 to 0001-01-01

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Hamlet of Arviat SAO

Hamlet - Arviat

PO Box 150

Arviat Nunavut X0C 0E0

Canada

ᐅᓂᓴᓪᓴᓂᓪ: 8678572841, ᓂᓴᓪᓴᓂᓪ:



Total Person days: 720

Operations Phase: from 2020-04-05 to 2020-10-30

Operations Phase: from 2020-10-30 to 2045-10-30

Post-Closure Phase: from to













# **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**



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The socioeconomic impacts of the project are very positive. Currently all Hamlets in Nunavut rely 100% on block funding from the Government of Nunavut to run their operations. This funding is focused on specific core responsibilities such as water/sewer programs, road maintenance programs, waste management, and by-law operations. The current municipal funding formula has not been updated in 6 years and has a population cap of 2300 people, which means that Arviat has more than 700 people in the community that are unfunded by the Territorial Government. According to the Hamlet's estimates, only 60–65% of the community's core needs are funded, putting major strain on the most basic service levels. Funds are very limited for recreation programming, training programs, wellness programming, fire protection services, search and rescue services, and youth/elder programs. Many of these programs and services are currently funded from the community lottery license via bingos and external funding agencies. The Hamlet will secure a significant annual revenue stream for the operating life of the project, which will be transferred directly to Hamlet general revenue. This will provide the Mayor and Council reliable multi-year funding to start addressing the Hamlet's many infrastructure and program shortfalls. This project will drastically increase the quality of life for all residents by reducing the carbon footprint and giving the Hamlet a new reliable funding stream. The project will also allow the Hamlet to access funding necessary to build a modern community recreation centre. The Hamlet of Arviat is fully supportive of this project and the cohesive and beneficial project partnership with NRStor Remotes.

### Miscellaneous Project Information

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Wind turbines do not produce emissions or pollutants associated with their operation. The wind turbines that will be deployed for this project do not contain gearboxes and therefore do not contain large volumes of lubricating oils that could leak and pollute the soil. Wildlife studies will be conducted in spring and fall 2019. Those studies will determine whether there are any recommended mitigation measures. Other impacts can be studied and mitigated as required by NIRB.

### Cumulative Effects

Over 25 years of operation, the wind project is estimated to reduce diesel consumed for electricity production in Arviat by approximately 35 million litres (or 1.4 million litres per year). Over 25 years of operation, the wind project is estimated to reduce greenhouse gas emissions by eliminating nearly 190,000 tonnes of CO<sub>2</sub> production (over 7,500 tonnes reduced per year).



