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Igluligaarjuk Midnight Sun

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New

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1/17/2019 10:07:51 AM

Period of operation:

from 0001-01-01 to 0001-01-01

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from 0001-01-01 to 0001-01-01

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Andrew Goslett

iSolara Solar Power

30 Capital Drive

Ottawa ON K2G 0E9

Canada

ᐱᓐᓂᓪᓐ: 613-738-2646, ᓄᓇᓂᓪᓐ: 613-738-9939

	<p>community support expressing that a motion had been passed by council committing to support the Igluligaarjuk Midnight Sun project. This letter also included mention of the Hamlet and iSolara's ongoing work to develop a community engagement plan, together. The letter also identified David Kattegatsiak, the Hamlet's Economic Development Officer, as the community champion for the project.</p>			
Hamlets and Municipalities	<p>Authorization to Act as Agent ----- Simeonie Sammurtok, Mayor of the Hamlet of Chesterfield Inlet, provided iSolara with a letter for Authorization to Act as Agent to contact the Quliq Energy Corporation. This letter was provided to allow iSolara to contact the QEC on behalf of the Hamlet in order to obtain information regarding the Hamlet's diesel generator's and load information.</p>	Active	2018-04-23	
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Equipment installation	ᐱᑦᑕᑦ ᐱᑦᑕᑦ ᐱᑦᑕᑦ ᐱᑦᑕᑦ	Dozens of skids	Wood and cardboard can be reused depending on condition, or burned for heat in the community.	Wooden skids, wooden framing/paneling, and cardboard from shipping materials can be reused depending on condition, or broken down to be burned for heat.
Equipment installation	ᐱᑦᑕᑦ ᐱᑦᑕᑦ ᐱᑦᑕᑦ ᐱᑦᑕᑦ	Up to approximately 100 garbage bags	To be reused or recycled locally if possible - otherwise sent to landfill	Small plastic materials, some wiring cuts, and other small plastic/metal materials may be reused or recycled locally if possible. Otherwise to be sent to landfill.
Camp	ᑦᑕᑦ ᐱᑦᑕᑦ ᐱᑦᑕᑦ	A few portable toilets over ~6 months	Contract local sewage disposal services to remove minor amounts of sewage from on-site portable toilets for crew of ~10-25 people over the course of 4-6 months.	Appropriate sewage treatment or disposal as per local standard

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In April 2018, QEC released the QEC Energy Framework which states that 55 million liters of diesel are consumed annually for electricity generation across the territory. Diesel generators will remain the primary source for generating electricity into the future. The proposed Chesterfield Inlet project would be capable of generating 720 MWh of electricity each year, offsetting over 200,000 litres of diesel fuel use in the community, accounting for almost one third of required fuel. This would eliminate 541 tonnes in carbon dioxide emissions, 24 tonnes of criteria air contaminants, and 180 kg of volatile organic compounds, improving the local air quality in and around the community. During the construction phases of the project, there may be impacts on the local environment at the equipment installation site, as incurred by typical construction projects. Such impacts may include degradation of ground conditions, disruption of local habitat, increased noise levels, etc. These impacts will all be thoroughly investigated in the preliminary stages of the project (see additional information regarding site & environmental assessments) so that mitigation tactics will be further developed to reduce these impacts. Some mitigation methods may include: choosing the least wildlife-impactful location, using a ballasted system to eliminate ground-penetrating anchors, holding and replacing backfill and other natural materials removed from the ground, etc.

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

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During preliminary project phases, an extensive site assessment will be conducted to investigate environmental factors affecting the project and potential impacts the project could have on the local environment including: geotechnical study, review of heritage data, wildlife and plant screening, local habitat conditions study, and any natural features that could be affected by the project. The community will also be engaged throughout each stage of the project, providing input to exact location of the project and opening discussions for any concerns they may have.

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During preliminary project phases, an extensive site assessment will be conducted to investigate environmental factors affecting the project and potential impacts the project could have on the local environment. In particular, local biology will be assessed including a screening of local significant wildlife and plants, migratory birds, rare species, species at risk, wildlife behaviour, water topography, and any other natural factors that may be affected by the project.

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The project is tentatively planned to be located on the outskirts of Chesterfield Inlet - approximately one kilometre from the community's heart (close enough for electrical grid connection). The location will be finalized with factors in mind to minimize interrupting future community development or infrastructure, like roadways, etc. The Hamlet has recently been surveying the community and surrounding areas for planning purposes and to identify areas of archaeological significance, and has been working with iSolara to identify appropriate areas for the project that will not affect any such archaeological sites.

Miscellaneous Project Information

A Pre-Feasibility report has been completed by iSolara including simulations of the community's energy system in order to identify the viability of the proposed system. This report evaluated the energy needs of the community and the potential for solar power generation, paired with battery storage, in order to identify the ideal system size for the project. For construction of the solar array, some minor

