



New

$$\dot{D}^L L^S d N_{C_n}^e \Delta^b$$

Λαλτλ<sup>5b</sup>PLλ<sup>5b</sup>: DAkoak

QEC

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Iqaluit Nunavut X0A 0H0

Canada

▷<sup>9</sup>ḅ<sub>ḥ</sub>▷<sup>Ḥ</sup>: 8672224820, ḥḅḏ<sup>ḥ</sup>:

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$${}^{\epsilon}\mathfrak{b}_{\Delta}{}^{\zeta}\mathfrak{N}_{\sigma}{}^{\flat} \quad \wedge \text{ } \mathfrak{c}_{\mathfrak{L}}{}^{\flat}\mathfrak{b}{}^{\epsilon}\sigma{}^{\flat}\mathfrak{L}{}^{\flat}\mathfrak{L}{}^{\flat}\mathfrak{L}{}^{\flat}\sigma{}^{\flat}$$

٩٦٤٠٠٠٠٠: See documents section. Note: The personnel section above refers to the estimated number of construction workers during the construction period (which will span two summers). Once the plant has been commissioned and is operating, there will be two operators present (i.e. staff at the existing plant will simply move over to the new plant).

▷ΔΛΝϚ: See documents section.

$\Delta_{\mathcal{D}^b} \cap \mathcal{D}^c$ : See documents section.

Inuinnaqtun: See documents section.

## Personnel

Personnel on site: 30

Days on site: 360

Total Person days: 10800

Operations Phase: from 2025-04-05 to 2026-12-12

Operations Phase: from 2027-01-01 to 2067-12-12

Post-Closure Phase: from to

$$\Lambda \subset \mathbb{N} \triangleleft \mathbb{N} \xrightarrow{\sigma} \mathbb{N}^{\mathbb{N}} \supset \mathbb{C}$$

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Site for replacement power plant for Kugaaruk, next to PPD tank farm.	Other	Commissioners	Site is undeveloped.	Archaeology study has confirmed that no cultural-heritage sites are present.	Power plant is near the hamlet of Kugaaruk.

မေ့လျော့အောင်လုပ်နေတာတွေကို အသိပြုရန် အသိပေးအမိန့်

[illegible]

$\epsilon \Delta^{\alpha} j^{\beta} \wedge J^{\alpha} e^{\beta} \dot{D} \dot{n} \llcorner^{\alpha} r^{\beta} C D P L \downarrow^{\alpha}$

$a_1 r^0 r^2 \sigma^b$   $\Lambda_{C-} n d n^e \Delta D \sigma d^{fb} J^c$   $n n f^f \omega^c:$

## Kitikmeot

$\epsilon \Delta^{\frac{a}{2}} r^c \wedge J^{\frac{b}{2}} e^D \dot{n} \lrcorner R^{\frac{c}{2}} r^b C D P L \downarrow^c$

<p>                     ሲፈጠሩ የሚገቡት                      ልማት ስራዎች/ፕሮጀክቶች                      ለማሳካት የሚገቡት                      ሰነዶች                 </p>	<p>                     የሥራው ስራዎች                      ለማሳካት የሚገቡት                      ሰነዶች                 </p>	<p>                     ስራው ለማሳካት                      የሚገቡት ሰነዶች                 </p>	<p>                     የሥራው ስራዎች/ፕሮጀክቶች                      ለማሳካት የሚገቡት ሰነዶች                 </p>	<p>                     የሥራው ስራዎች                      ለማሳካት የሚገቡት ሰነዶች                 </p>
<p>                     Hamlets and                      Municipalities                 </p>	<p>                     Endorsement letter                      from Hamlet                 </p>	<p>                     Active                 </p>	<p>                     2021-03-11                 </p>	
<p>                     ለማሳካት የሚገቡት                      ሰነዶች                 </p>	<p>                     Aeronautical                      assessment approval                 </p>	<p>                     Active                 </p>	<p>                     2021-03-11                 </p>	

## Project transportation types

Transportation Type	Project Description	Length of Use
Land	Road access to site	

## Project accomodation types

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◀▷↳◀<sup>96</sup>▷<sup>96</sup>

Λ<sup>9</sup>d<sup>c</sup> d<sup>a</sup>r<sup>z</sup><sup>9b</sup> d<sup>9b</sup>Cdσ<sup>b</sup>D<sup>4</sup>z<sup>9b</sup> Δ<sup>c</sup>b<sup>9</sup>p<sup>b</sup>N<sup>3</sup>r<sup>c</sup> ΔjCΔ<sup>c</sup>, Γ<sup>c</sup>→dP<sup>0</sup><sup>c</sup>, <sup>9b</sup>u<sup>a</sup>Lc<sup>j</sup><sup>9b</sup>, mep<sup>b</sup>D<sup>c</sup> d<sup>a</sup>r<sup>a</sup>r<sup>c</sup>→

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Construction Equipment	10	5	Standard pieces of construction equipment including excavators, backhoes, loaders, forklifts, boom cranes, telehandlers, graders, welders, concrete mixers, dump trucks, bulldozers, air compressors, and sundry other items.
Construction Equipment	10	5	Standard pieces of construction equipment including excavators, backhoes, loaders, forklifts, boom cranes, telehandlers, graders, welders, concrete mixers, dump trucks, bulldozers, air compressors, and sundry other items.
Construction Equipment	10	5	Standard pieces of construction equipment including excavators, backhoes, loaders, forklifts, boom cranes, telehandlers, graders, welders, concrete mixers, dump trucks, bulldozers, air compressors, and sundry other items.
Reciprocating Diesel-fueled Internal Combustion Engines, for power generation	5	8 metres	Power generation plant (once constructed). Includes four main generators and one backup generator (or black-start generator).

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ፖሊሮ ፕፕላስቲክ ፋኒክቶር	ፍጥነት ፕፕላስቲክ	ፍጥነት ፕፕላስቲክ	ፍጥነት ፕፕላስቲክ	ፍጥነት ፕፕላስቲክ	ፍጥነት ፕፕላስቲክ	ፍጥነት ፕፕላስቲክ
Diesel	fuel	2	90	180	Cubic Meters	Diesel fuel, initially to fuel construction machinery and then later to fuel

						the actual power plant (once construction has been concluded). The completed power plant will have two large 90-cubic-metre fuel tanks, double-walled and equipped with continuous electronic monitoring. There will also be small day tanks inside the power plant.
Glycol coolant	hazardous	5	205	1025	Liters	Engine coolant
Engine oil	hazardous	5	205	1025	Liters	Lubrication of engines

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D <sup>c</sup> ΔL <sup>9b</sup> 4D <sup>9b</sup> C D <sup>9b</sup> Δ <sup>9b</sup> Δ <sup>9b</sup>	9b Δ <sup>9b</sup> ΔΓ <sup>9b</sup> C <sup>9b</sup> C <sup>9b</sup> Δ <sup>9b</sup> Δ <sup>9b</sup>	ΔP <sup>c</sup> ΔΓ <sup>9b</sup> C <sup>9b</sup> C <sup>9b</sup> Δ <sup>9b</sup> Δ <sup>9b</sup>
0	Our only water use is domestic for the bathroom for the 2 plant operators.	Municipal trucked water to domestic water tank, same as standard household water tank.

$\triangleleft^b C d^c$ 
$$\Delta^b C d_{\sigma} \sim \Delta^a \sigma^a$$

Aḥ ṭāwāt l'at-tawālī	'ab Δ <sup>c</sup> j <sup>b</sup> d <sup>b</sup> c d <sup>j</sup>	'ab n r d <sup>b</sup> c d <sup>j</sup>	'ab j <sup>a</sup>	ʔl L <sup>b</sup> yd n b h <sup>b</sup> b <sup>a</sup> -sd-s-d <sup>b</sup> j <sup>c</sup>
Aḥ ṭāwāt sds d <sup>b</sup> j <sup>a</sup>		y <sup>b</sup> p ds d <sup>b</sup> j <sup>a</sup> t d <sup>j</sup>	d <sup>b</sup> C <sup>b</sup> c ds d <sup>b</sup> <	
Waste disposal	ΔLΔ <sup>c</sup> dy <sup>b</sup> cd t <sup>n</sup> h <sup>b</sup> r l r <sup>c</sup>	50 litres a day	Domestic from handwashing in bathroom. Municipal pump-out from tank.	Municipal lagoon
Other	Other, Waste glycol coolant	1000	Shipping South in drums for recycling.	(These fluids are the same as in ordinary cars.)
Waste disposal	Other, Office waste paper etc	1 bag a week	Municipal landfill	Standard municipal landfill
Waste disposal	Other, Waste Engine Oil	1000 litres a year	Will be shipped south via sealift for recycling at a refinery.	Will be recycled in south.
Waste disposal	s <sup>d</sup> h <sup>b</sup> C-ns <sup>b</sup>	12 litres per day	From flushing toilet into standard sewage tank.	Standard municipal sewage lagoon

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Please refer to the Project Description documents (provided in all four official languages) and also the Additional Information section.

# **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 11: Municipal Development

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•The area proposed for the power plant has been designated by the Hamlet as industrial land use and was the location previously identified by the Hamlet for the power plant. This implies that the Hamlet is interested in or is willing to consider some form of development in this area. •Surrounding development in this area is industrial in nature (e.g., PPD bulk fuel facility). •Given that the proposed power plant will be on an existing road and in close proximity to the PPD bulk fuel facility, community members or wildlife using this area will already be accustomed to traffic activity in the area. •The location selected for the power plant is generally flat terrain and is geologically amenable to construction. •Our plant does not entail any water-takings, nor in-stream works, nor any discharge of waste to these small water features. We note that our use of diesel generators uses radiators to air for cooling. Our domestic water usage the plant will entail a freshwater tank along with a sewage tank, both serviced via truck. Construction activities will also entail tanked water, with portable toilets for employees. The contractor will also be required to ensure that surface disturbance (e.g. disrupted soils) are not able to run off the site. For this purpose, standard silt fences are anticipated to be used. •There are no designated wildlife areas, marine protected areas, territorial or national parks or Inuit owned lands in conflict with the power plant location.

[illegible]

• There are no designated wildlife areas, marine protected areas, territorial or national parks or Inuit owned lands in conflict with the power plant location. The land is designated industrial and does not constitute special-value habitat for birds or other wildlife. That being said, it is acknowledged that terrestrial and marine wildlife may be observed in the general surrounding area, especially by observers equipped with tripod-mounted spotting scopes, high-powered telephoto lenses, and high-resolution digital single-lens-reflex cameras, or with other sophisticated optical imaging devices.

**L<sup>a</sup> d'OND<sup>e</sup> b'mΔ<sup>c</sup> c'nDσ<sup>b</sup>: Δm nσ<sup>j</sup> j<sup>b</sup>l d<sup>c</sup>-Λ<sup>d</sup> c'd l c nσ<sup>j</sup> j<sup>b</sup>l d<sup>c</sup>**

•The proposed power plant will be located about 1 kilometre from the centre of the hamlet, and it will also be downwind of the hamlet. This alleviates concerns regarding noise and emissions. Also, the design of the plant incorporates the latest emissions-control technology (particulate filters with dry oxidation catalysts) with modern diesel technology that minimizes fuel consumption and minimizes emissions. The exhaust systems will include mufflers (also known as silencers) that are of “hospital-grade” for the greatest possible attenuation of sound throughout the frequency range typical of reciprocating internal combustion engines of the compression-ignition type. •An archaeological impact assessment was carried out in the summer of 2022. No archaeological sites were found on the site nor within 200 metres of the site. •In the event that latent cultural or archaeological artifacts are encountered during the construction at the site, construction activity will stop and the Government of Nunavut Department of Culture and Heritage will be

### Miscellaneous Project Information

[illegible]

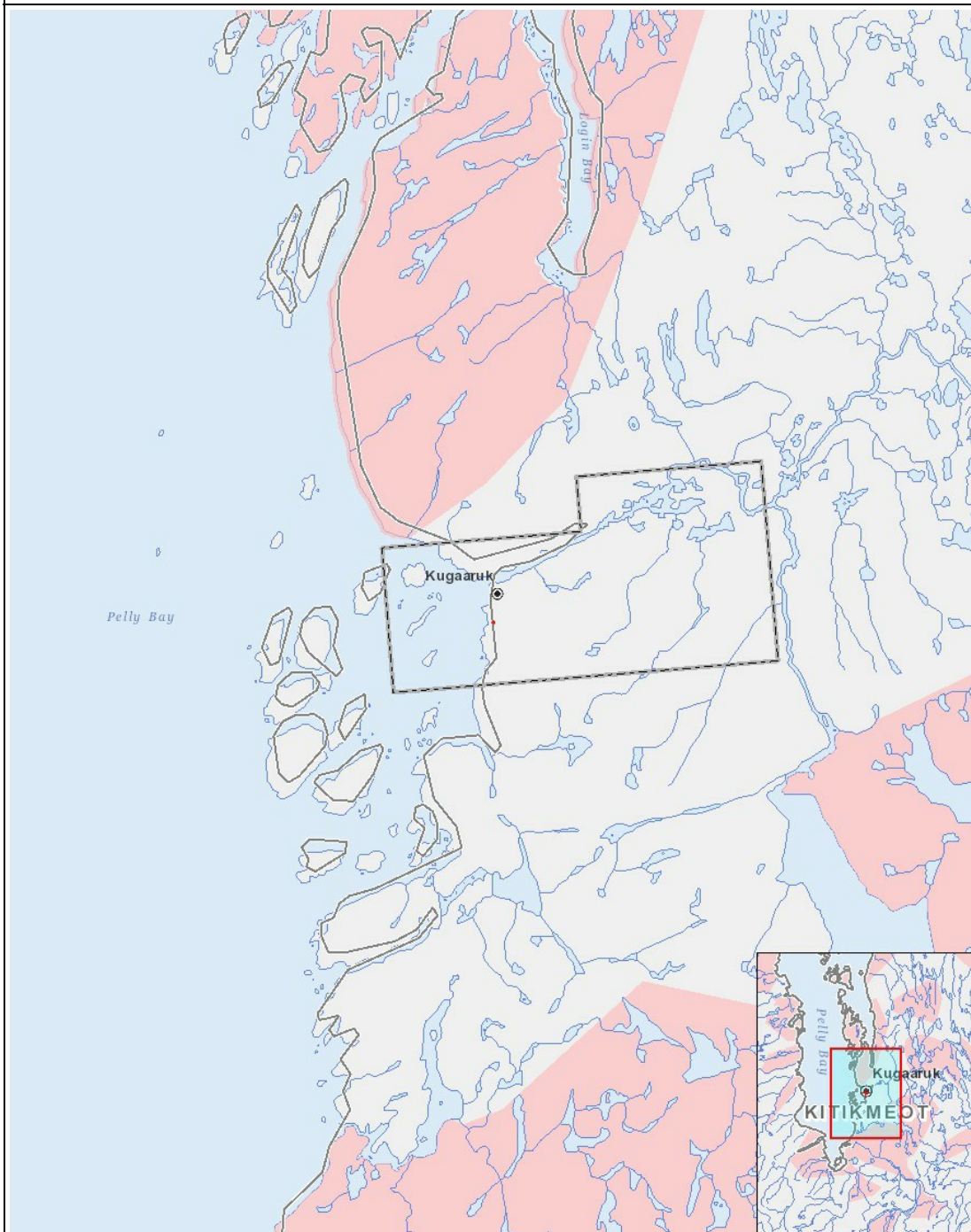
## Cumulative Effects

For all of the reasons described in the preceding sections, the cumulative effects of this power plant are expected to be smaller than those of the existing in-town power plant at Kugaaruk.

## Impacts

$\mathcal{L}(\mathcal{D}) = \mathcal{L}(\mathcal{D}^{\text{train}}) \cup \mathcal{L}(\mathcal{D}^{\text{test}})$

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$$(P = \langle \text{b d} \dot{\text{a}} \text{p} \text{n} \text{r}^{\text{a}} \text{e}^{\text{b}} \rangle^{\text{c}}, N = \langle \text{b d}^{\text{b}} \text{r}^{\text{r}} \text{r} \langle \text{d} \text{r}^{\text{a}} \text{e}^{\text{b}} \rangle^{\text{c}} \langle \text{e d} \text{r}^{\text{r}} \text{r}^{\text{b}} \rangle^{\text{b}} \langle \text{d} \text{r}^{\text{a}} \text{e}^{\text{b}} \text{r}^{\text{c}} \rangle^{\text{c}} \rangle, M = \langle \text{b d}^{\text{b}} \text{r}^{\text{r}} \text{r} \langle \text{d} \text{r}^{\text{a}} \text{e}^{\text{b}} \rangle^{\text{c}} \langle \text{e d} \text{r}^{\text{r}} \text{r}^{\text{b}} \rangle^{\text{b}} \langle \text{d} \text{r}^{\text{a}} \text{e}^{\text{b}} \rangle^{\text{c}} \rangle, U = \text{r}^{\text{b}} \text{d} \text{r} \text{L}^{\text{a}} \text{e}^{\text{b}} \text{r}^{\text{c}} \rangle^{\text{b}})$$



#### List of Project Geometries

1 polyline Site for replacement power plant for Kugaaruk, next to PPD tank farm.