

Connecting The Arctic

Renewable energy. Broadband internet. The future of Nunavut.

SPRING 2024

Nukik Corporation is an Inuit owned company that was formed to lead major infrastructure projects in the Kivalliq region of Nunavut.

Its focus is the Kivalliq Hydro-Fibre Link (KHFL), a nation-building, first-of-its-kind power and fibre-optic project coming to Nunavut from Manitoba.



- KHFL will bring enough **renewable electricity** from Manitoba to support the Kivalliq region



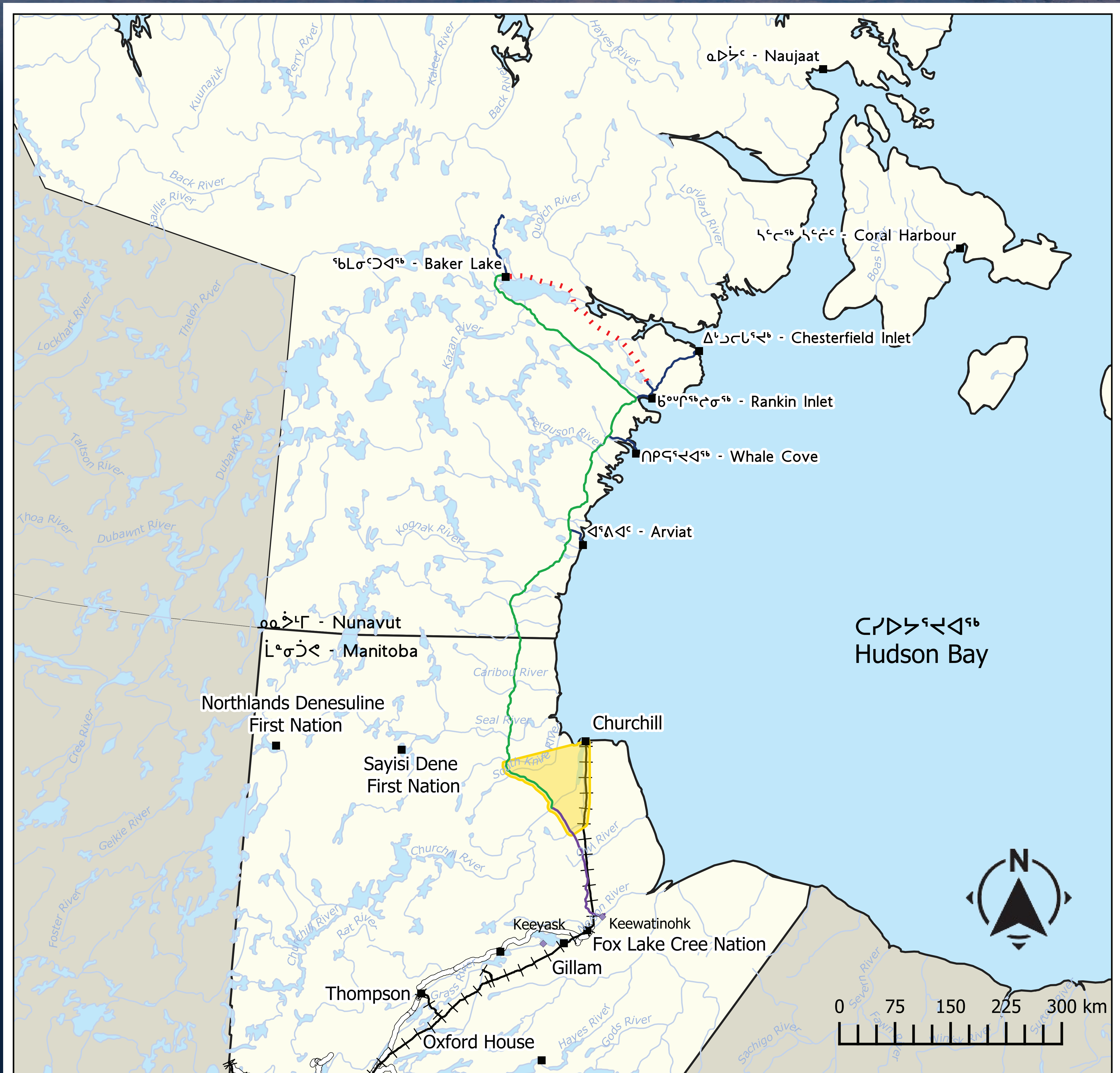
- KHFL will also bring **high-speed broadband internet and telecommunications** to the region



- This Inuit-led project will create new **business and training opportunities** for Inuit



Proposed Route



Proposed Route

— Main 230kV Line

— Medium Voltage Line

— Initial Proposed Interconnection & Route

● Mine Sites

■ Communities

◆ Converter Station

— Rail

— Roads

— Baker Lake North (under review)

Alternative Interconnection Study Area

Water

Created by: K. Ulrich Data: NRCan geopackage:R:\GIS\20Geodata\P906\Geopackage\KHFLP.gpkg?projectName=KHFLP_Letter%20size



InterGroup
CONSULTANTS



Hydro Power Generation and Transmission Lines



EXISTING MANITOBA GENERATING STATIONS

TRANSMISSION

- Typical suspension transmission tower
- Height is 55m/180ft
- Average of 400m or a quarter mile between towers



KIVALLIQ SUBSTATIONS

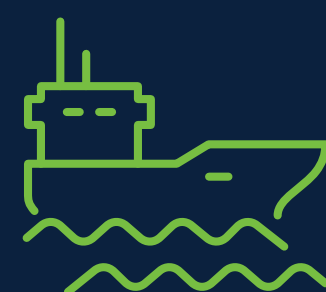


CURRENT COMMUNITY SYSTEMS



Why Is The KHFL Important?

Over 100 million litres of diesel fuel are shipped to Kivalliq communities each year



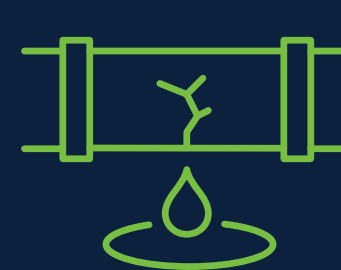
These fuel shipments **impact the waters** and threaten marine wildlife



This **fuel is burned** 365 days a year to power and heat all homes, businesses, and schools in the region



The transportation on land of all this fuel can lead to leaks and **impacts wildlife**



Pollutants from the diesel plants are affecting land, water, and wildlife each day



Emissions from burning diesel are the greatest contributor to greenhouse gas in Nunavut. The **Arctic is warming faster** than anywhere else on earth and action is needed

How Did The KHFL Begin?



Before the creation of Nunavut

Inuit Elders, Manitoba First Nations and government discuss connecting Nunavut to North America with a road and transmission line



1999-2000

Government studies potential of building a road to Manitoba



2018

Kivalliq Inuit Association decides to prioritize transmission line



2019-2021

Funding secured to advance planning of KHFL. Partnerships established



2022-2024

Nukik established to lead KHFL through development and financing



KIA Board meeting, Arviat 2020



Good for our **People**



100% Inuit-led company that will focus on issues that are important to the north and its people



New training opportunities in **energy and telecommunications**



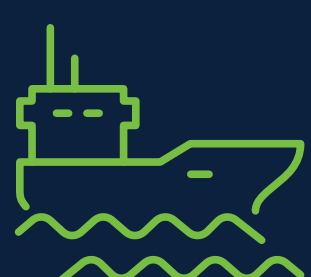
Create employment and business opportunities for Nunavummiut



Faster and more reliable internet will unlock new opportunities for **better healthcare and education**



Good for **Environment**



Protect arctic waters by **reducing diesel shipments**



Protect our land from spills transporting diesel and oils



Reduce diesel pollution affecting **land, water, and wildlife**



Help our climate by reducing greenhouse gas emissions



Good for **Economy**



Access to **reliable clean energy** and fibre-optic broadband will improve competitiveness of Kivalliq businesses



New business opportunities during construction and operation of the KHFL



Transmission line could make other renewable energy projects more viable and allow for electricity sales to the south



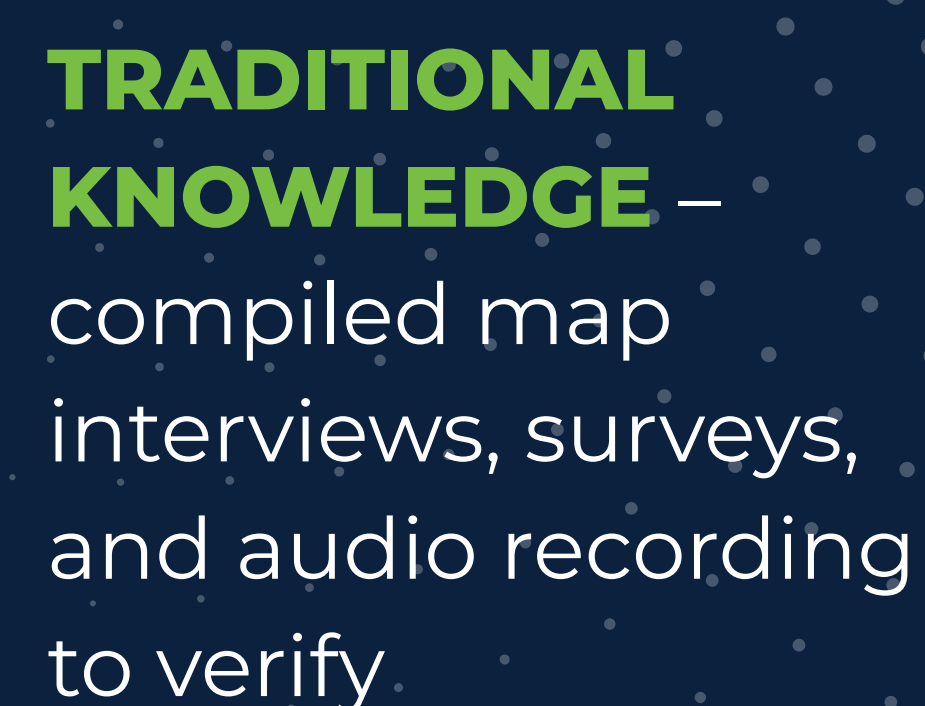
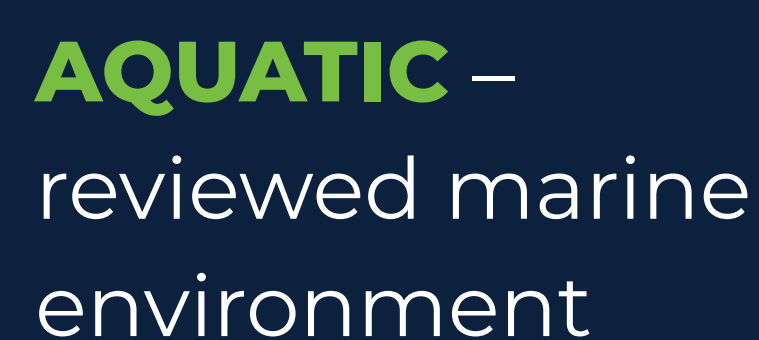
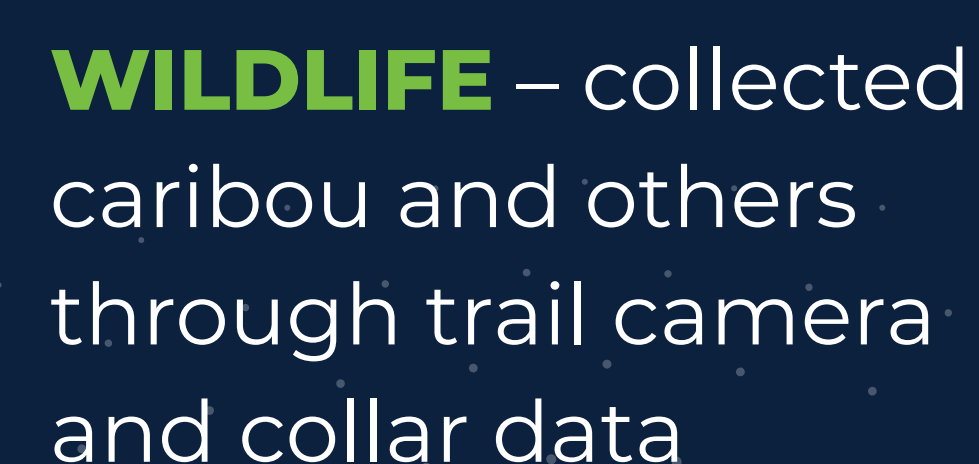
Nukik Corporation will provide the wholesale **power to Qulliq Energy Corporation**

Project Timeline

Opportunities to get information, provide feedback, and participate in the planning process:



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What We Heard

Last year, we gathered feedback from communities to better understand what was important for the project to focus on.

Key areas of interests for both Kivallirmiut and northern Manitobans



Employment and Training Opportunities



Wildlife and Wildlife Habitat



Land Based Activities, such as hunting, fishing, trapping, and sewing

Next Steps



Wildlife studies
on polar bears,
caribou, and birds



Heritage and geology
field studies



Marine
environment
studies



Community researchers
and a full-time intern will be
added to the project team



Human environment
studies like socio-economics
and Inuit Qaujimajatuqangit
will continue



Coming back
this fall to share
updates

Trail-Cam Images



We Want To Hear From You

Share your thoughts about the project

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Your feedback
is important

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