

Coral Harbour Solar and Energy Storage Project

June 2022

Kivalliq Alternative Energy Ltd.

a partnership between

Sakku Investments Corporation

Northern Energy Capital



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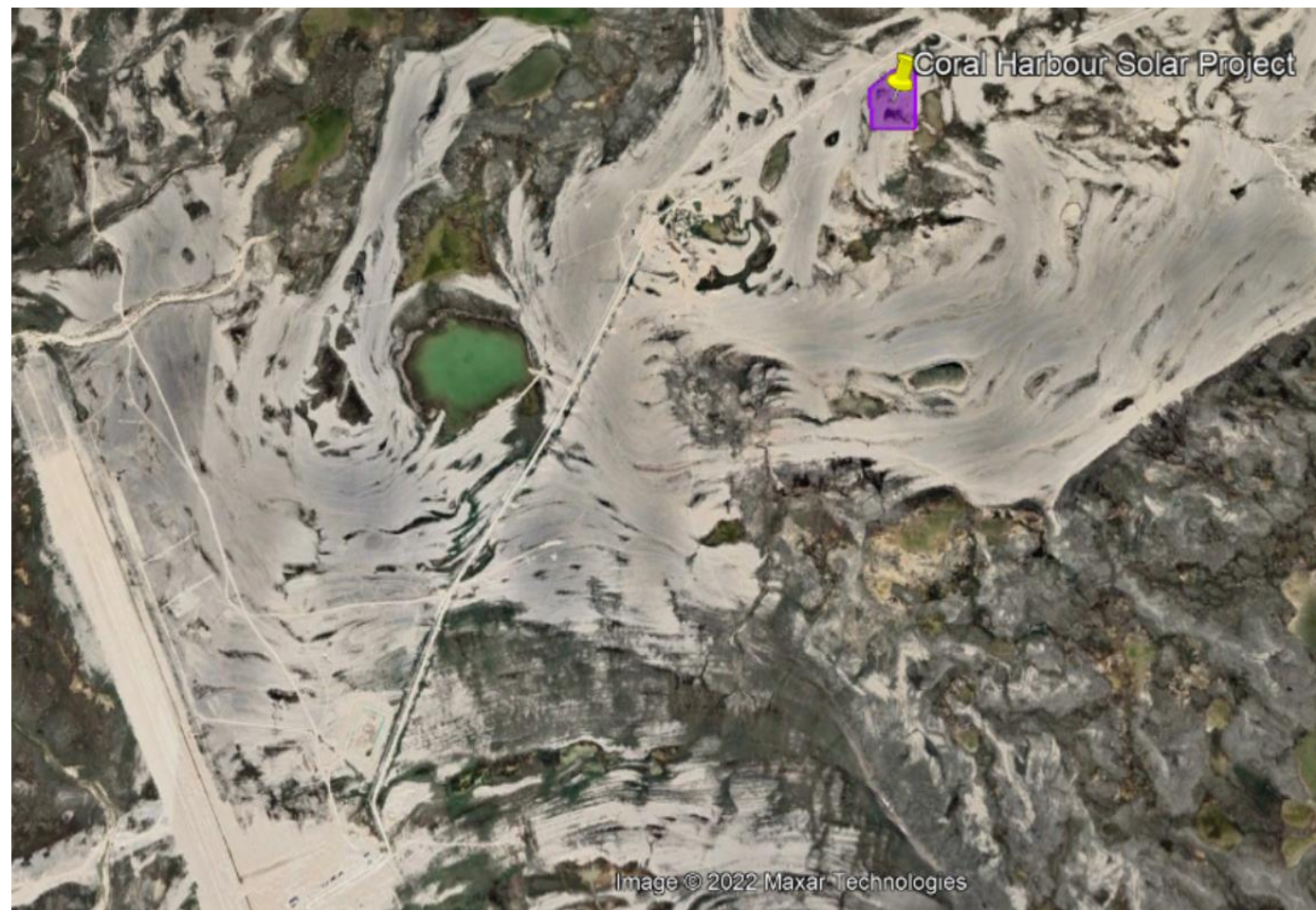
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Coral Harbour Project Overview

- 960 kW solar energy with 1MWh battery storage system
- Project specifications:
 - 2.5 ha (6.5 acre) project area
 - 10 rows of panels
 - 110m of new road
- Construction: 2024 - 2025
- Project lifetime: 30 years or more





Inverter Unit



Energy Production

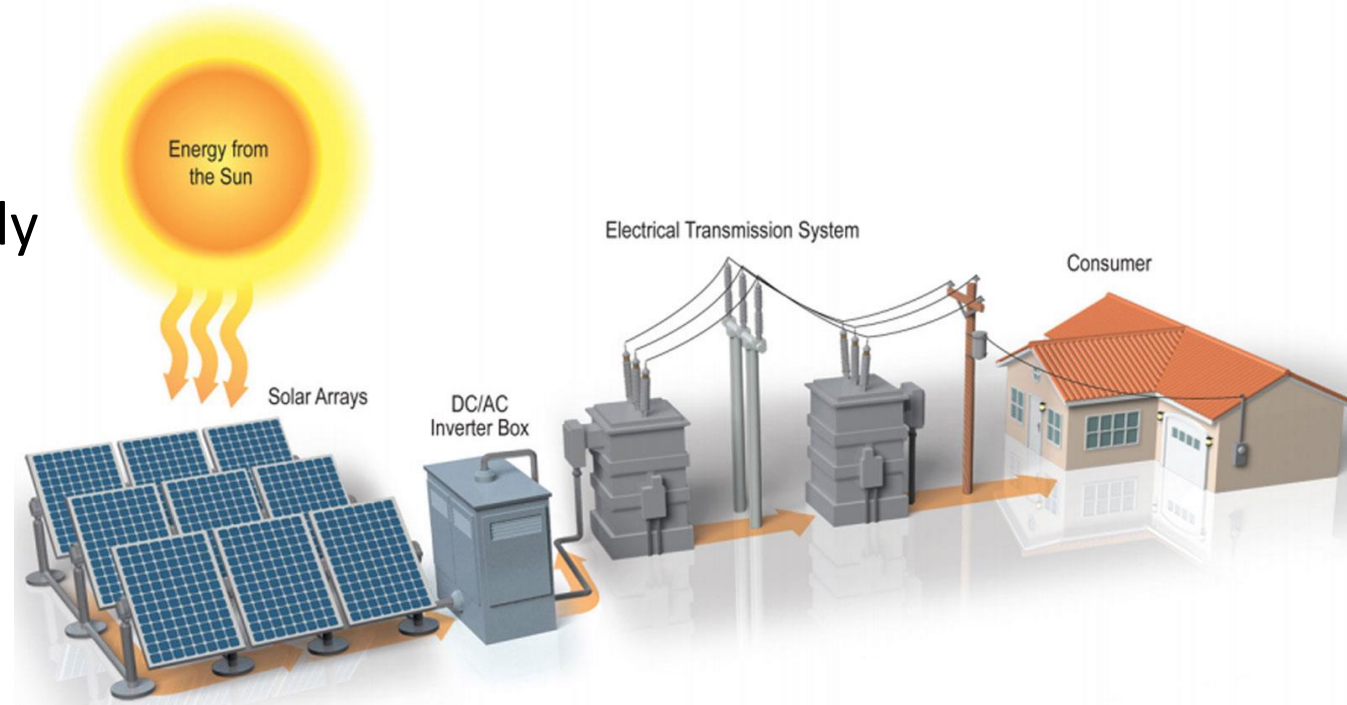
Solar energy from the sun to power homes & businesses

1596 MWh/year of electricity produced

- 31% of Coral Harbour total annual electricity demand
- Equivalent of about 200 homes/year

360,000 L of diesel displacement annually

- Over Project lifetime:
 - 10.8 Million L of diesel displacement
 - Over 28,000 tones of CO₂eq



<https://www.renewwisconsin.org/solarfarms/>



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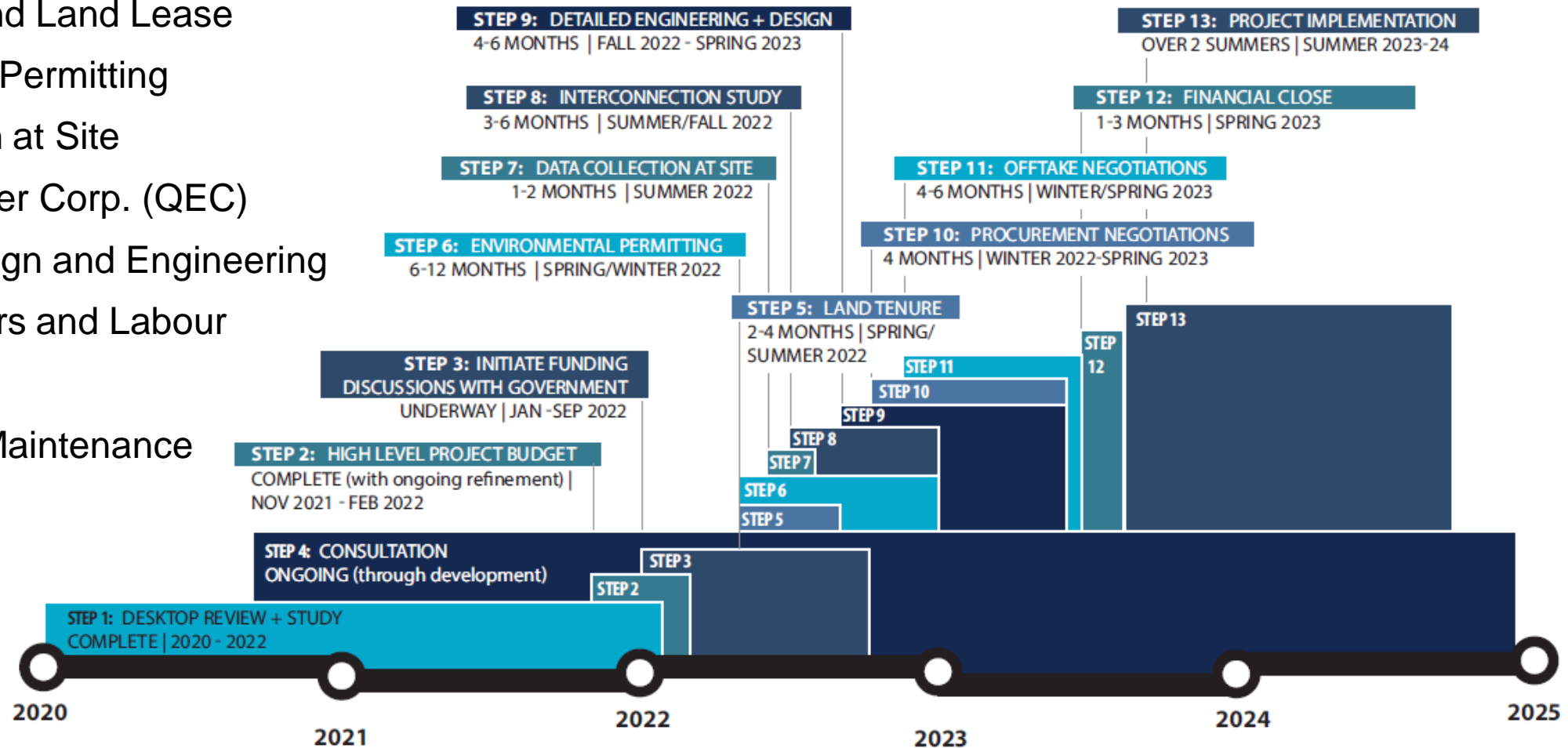
A photograph of a whale's tail breaching the surface of the ocean. The tail is dark and curved, emerging from the water. The background features a rugged, snow-covered mountain range under a cloudy sky. The water is dark, and the foreground shows some white foam or ice.

- Once built, solar energy creates no pollution or greenhouse gases
- Solar panels are low maintenance and have long lifespans
- By lowering fuel needed, there is less risk of fuel spills during transport and storage

- Solar energy requires a lot of space
- Land disturbance and fuel use during construction (excavation, foundation install, road building)

Project Schedule and Planned Activities

5. Finalize Site and Land Lease
6. Environmental Permitting
7. Data Collection at Site
8. Work with Power Corp. (QEC)
9. Advanced Design and Engineering
10. Find Contractors and Labour
11. Construction
12. Operations & Maintenance



Questions?



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Contact and Programs

Nunavut Housing Corporation – nunavuthousing.ca

Renewable Energy Homeowner Grant Program and Homeowner Renovation Program

homeownership@nunavuthousing.ca

Climate Change Secretariat – climatechangenunavut.ca

Renewable Energy Cabin Grant Program – renewableenergy@gov.nu.ca

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