

# Coral Harbour Solar and Energy Storage Project – Executive Summary and Project Schedule

## Project Overview:

- 0.96 MW solar energy with 1MWh battery storage
- 1596 MWh/year of electricity produced
- Peak production from March – August, lowest production from November – January.
- Project lifetime: 30 years or more
- Project specifications:
  - Fixed tilt, south facing, bifacial arrays
  - 2064 modules, 10 rows, 3 inverters
  - 110m of new road
  - 2.5 ha (6.5 acre) project area
- Estimated construction start: 2024
- Estimated start of operations: 2025

## Project Budget and Funding

- Total Estimated Project Budget: \$11 million CAD
- Current Funders:
  - Indigenous Off-Diesel Initiative
- Funding Programs of Interest:
  - NRCan Smart Renewables and Electrification Pathways Program
  - ECCC Low Carbon Economy Challenge

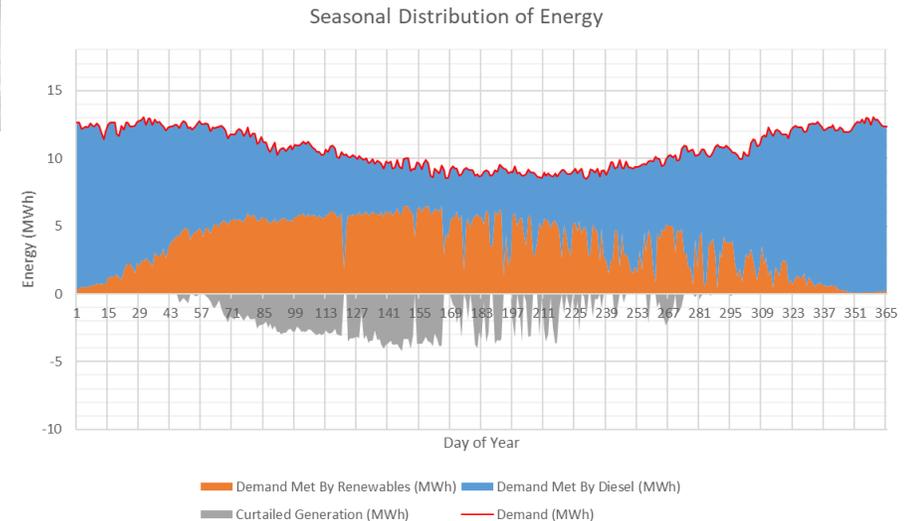
## Project Partners

- Kivalliq Alternative Energy
  - Sakku Investments Corporation
  - Northern Energy Capital



Above:  
Proposed  
project  
location

Below:  
Estimated  
proportion of local  
electricity demand  
that could be met  
by a solar energy  
project annually  
(orange area)



# Project Schedule and Planned Activities

1. Land Tenure
  - Obtain lease and land use permits
2. Environmental Assessment & Permitting
  - Conduct conformity determination with NPC, environmental assessment with NIRB
  - Other permits as required (eg. NAV CANADA, Transport Canada)
3. Data Collection at Site
  - Ground survey & geotechnical assessment
4. Interconnection Study with QEC
  - Pending release of their IPP program
5. Advanced Design and Engineering
  - Informed by results of survey and geotechnical work, and project conditions set by QEC
6. Procurement Negotiations
  - Solar Supply and Install
  - Local Contractors
7. Offtake Negotiations and Financial Close
  - Negotiate Power Purchase Agreement with QEC
  - Finalize all contracts and secure funding
8. Construction
  - Approximately one year duration
9. Operations & Maintenance
  - Beginning 2025
  - Training of local personnel

## Project Work Completed to Date

- Desktop review and feasibility studies
- Initial site visits to determine preferred candidate location
- Grant writing and research for project funding
- Creation of preliminary, high level project budget
- Early engagement with Hamlet, QEC, NPC, and GN

