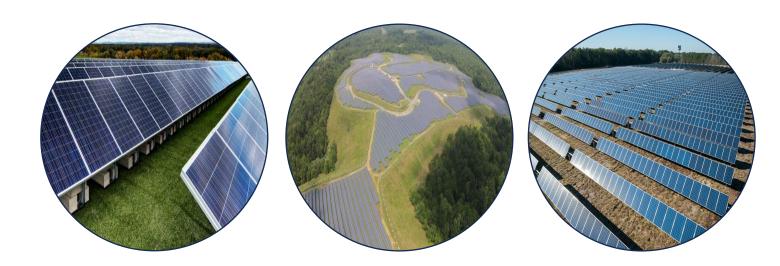


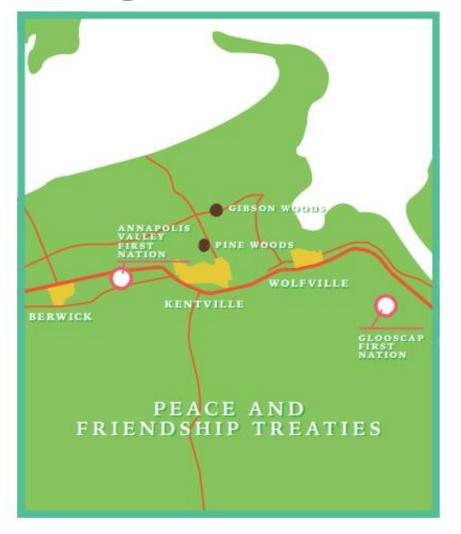
First Nation

Meadowview Solar Project "Brownfield to Brightfield"





Land Acknowledgement









Discussion Points

MUNICIPALITY of the COUNTY of KINGS

GLOOSCAP

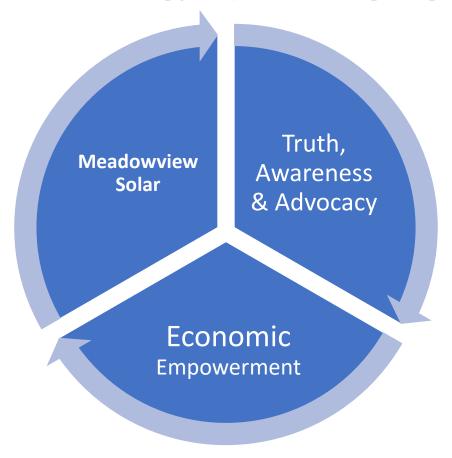
First Nation

- Introduction
- Background
- Technical Aspects
- Envisioned Provincial Program
- About the Partnership
- Next Steps
- Questions & Answers



Introduction:

The Project & Strategy of Belonging:



Introduction: Key Project Elements



- Located on a closed Municipal Landfill
- Requires a Provincial Program (late spring?)
- Assumed it will be a competitive and subscriber based Provincial program
- A lease of land from DND
- Significant construction \$ subsidy
- Ongoing Community Engagement



Background:

Community Origin of Project

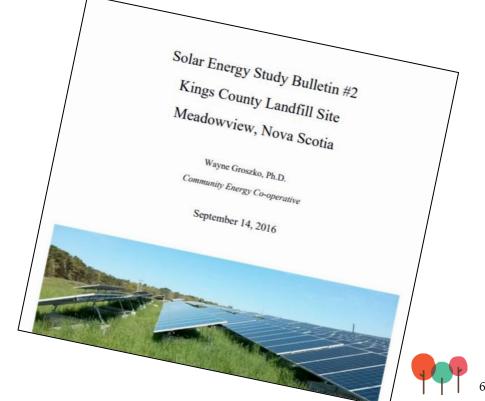




Meadowview Community Development

Association (MCDA)

• 2016 Report - NSCC



Background: Project Timeline



Significant Dates	Project Element Description
May 2016	Solar Energy Feasibility Study – Kings County Landfill Site (Energy Sustainability Engineering Technology Program, NSCC) - MCDA
February 2018	Proposal for Feasibility Study – Solar Electric Project (Municipality of the County of Kings)
November 2020	Preliminary Feasibility Report – Meadowview Solar Energy Project (Natural Forces Solar Inc.)
July 2022	Meadowview Solar – Phase 2 Feasibility Assessment (Natural Forces Solar Inc.)
October 2022	Project presentation to the Provincial Ministers of Natural Resources & Renewables & Municipal Affairs & Housing
Winter/Spring 2024	Community Solar Program anticipated to be open for applications

Background: Study & Project Design



- Switch from a Behind the Meter sale to In Front of the Meter "grid supply"
- ➤ Building on the MCDA report
 - Engagement of subject matter experts
 - > Engineered design and financially modelled
 - ➤ Program input provided to the Province



Technical Aspects Due Diligence



- Advice from Subject Matter Experts:
 Geotechnical Investigations
 - Structural & Civil
 Engineered Design
 - Environmental
 - Solar Capture Studies
 - Grid Analysis





Technical Aspects Geotechnical Investigations





- Settling of landfill
- Existing waste-in-place & final cover of landfill cannot be disturbed
- Design considerations for roads





Technical Aspects

Solar Capture Studies & Financial Modelling

- Solar Capture study completed
- Modelling confirmed project is viable
- Construction, operating and rate of return estimates generated









Technical Aspects Structural / Civil Design



- Fixed-Tilt solar racking (best "Dollar per KW)
- Concrete ballast blocks for solar racking (not embedded into ground)





Technical Aspects Environmental



- Species at Risk (SAR) Study completed (2021)
- No amendments to Site Closure Plan



Technical Aspects Grid Analysis

Electrical grid
 & local substation
 capacity review =
 sufficient







Technical Aspects Power Generation & Capacity



- 7-Megawatt Project
- Energy production in Year 1 = ~ 11,000 Mega Watt Hours
- Equivalent energy = power for ~ 1,000 homes



Envisioned Provincial Program Grid Supply



- "Grid Supply" model
- e.g., energy fed onto existing electrical grid



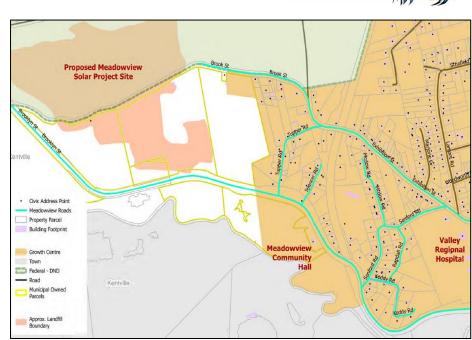


Envisioned Provincial Program





- Targeted Subscribers:
 - Moderate income homes
 - Virtual purchase of solar energy
- Energy Rate set at amount required for viability
- Project to be advanced under a Provincial program





Envisioned Provincial Program Grant Funding Needs



- Significant public (grant) funding required for construction
- Partnership of First Nations & Municipality = broader opportunities for public funding







About the Project Partnership



- ➤ Glooscap First Nation
- ➤ Annapolis Valley First Nation
- Municipality of the County of Kings



About the Project Partnership



- ➤ Is seen to be one means of acting upon truth and reconciliation
- ➤ Municipality benefits from First Nation experience in larger alternative energy projects
- ➤ Opens the project to broader range of public funding (programs tailored for partnerships)

Next Steps From the Province

MUNICIPALITY of the COUNTY of KINGS

GLOOSCAP
First Nation

- Community Solar Program (2024)
- Provide "roadmap" to NSP Power Purchase Agreement
- Establishes Energy Rate (\$/KWhr)
- Term of contract set, e.g., sale of energy over 25 years





Next Steps For Partnership



- Finalize technical aspects:
 - Prepare our application for competitive intake
 - Update cost estimate & project design
 - Ensure conformance of project to Provincial Community Solar Program

Next Steps For the Public



- Project partners produce "What We Heard Report" to summarize public input
- Report back to the community (anticipated for spring 2024)





Next Steps

Commitment to Report Back

COUNTY of KINGS **GLOOSCAP** First Nation

- Our commitment = to engage with you & keep you up-to-date
- Watch our Website for details!



https://www.countyofkings.ca/meadowviewsolar



Discussion



Questions and answers





Thank-you Special Thanks To:



- Meadowview Community Development Association
- Annapolis Valley First Nation
- Glooscap First Nation

For More Information, Please Visit Our Project Website at:

https://www.countyofkings.ca/meadowviewsolar

