



PROJECT OVERVIEW

WEDGEPORT WIND FARM PROJECT

MARCH 2023

WEDGEPORT WIND - EXPERIENCED DEVELOPMENT TEAM WITH LOCAL CONNECTIONS

- The Wedgeport Wind Farm Project is being developed by Wedgeport Wind Farm LP, a partnership between Sipekne'katik First Nation, Elemental Energy, and Stevens Wind.
- The partners have extensive experience developing and operating renewable energy projects across Canada, including five Community Feed-In Tariff (COMFIT) wind energy projects in Nova Scotia and two utility scale wind energy projects in Newfoundland.
- Together we possess a diversity of project development experiences and extensive knowledge of Canadian renewable markets that incorporates local ownership and representation into successful community supported projects.



ELEMENTAL ENERGY PORTFOLIO



OPPORTUNITY FOR WEDGEPORT WIND

- In Spring 2022 Wedgeport Wind submitted a proposal to build an 80 MW wind energy project in response to the Nova Scotia's competitive Rate Based Procurement to source renewable energy for Nova Scotians.
- Purpose of the Rate Based Procurement call for power is to support Nova Scotia with its goal of achieving a 53% reduction in GHG emissions by 2030 and achieving net-zero GHG emissions by 2050.
- In August 2022 the Wedgeport Wind project was picked as a successful project and awarded a power purchase agreement (PPA) to feed renewable energy into Nova Scotia's Power's electricity grid.



WEDGEPORT WIND PROJECT OVERVIEW



Strong and proven wind resource

at Wedgeport makes this site an ideal location for a wind power project; located adjacent to Elemental's existing COMFIT Wedgeport wind turbine.



Grid connection

at NSPI's transmission line near Tusket, with available capacity to host new generation in area of grid where investment and generation is needed.



Environmental Assessment

previously completed in 2012, with surveys and studies being updated to inform and new environmental assessment to be registered in March 2023.



Mi'kmaq Ecological Knowledge Study (MEKS)

completed in 2012 by Membertou Geomatics. Indigenous Environmental Solutions to update MEKS.



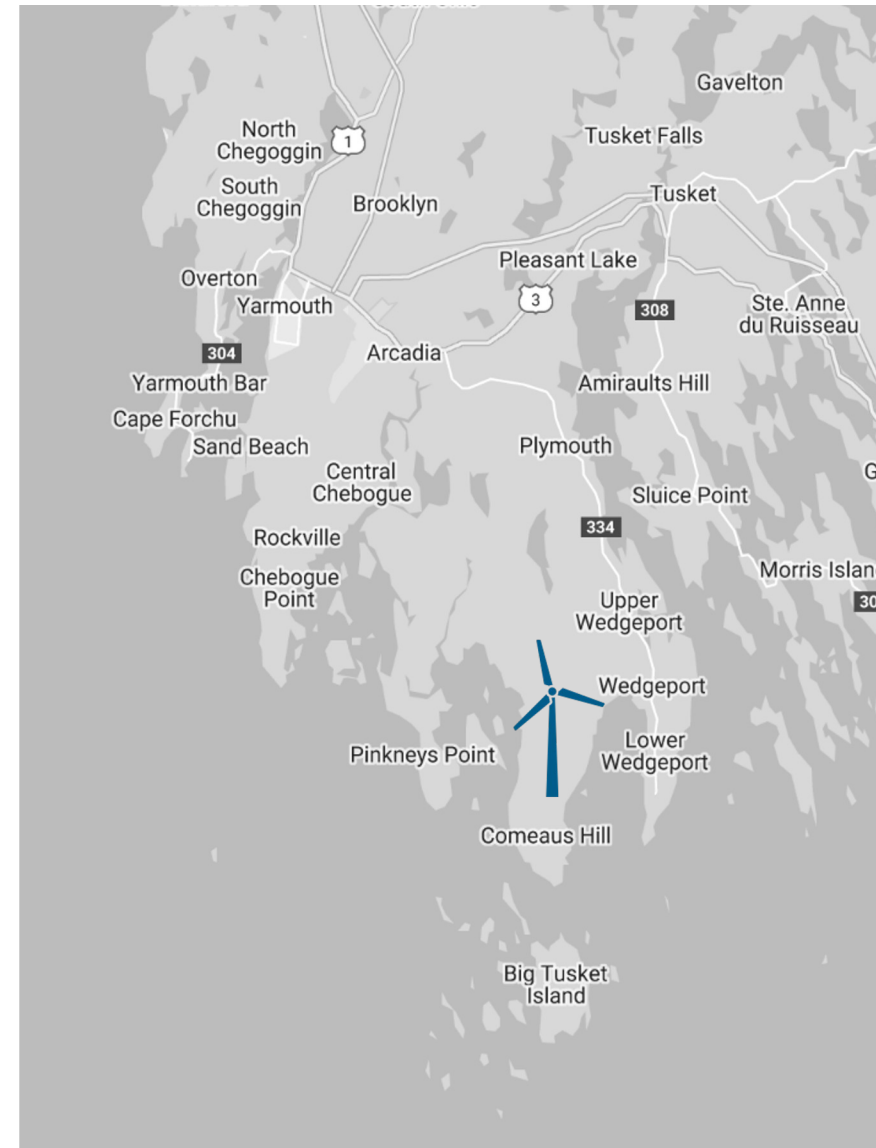
Private local landowners

interested in hosting wind turbines with signed option agreements.



Community support

from the Municipality of the District of Argyle and local landowners.



OPPORTUNITIES AND CONSTRAINTS

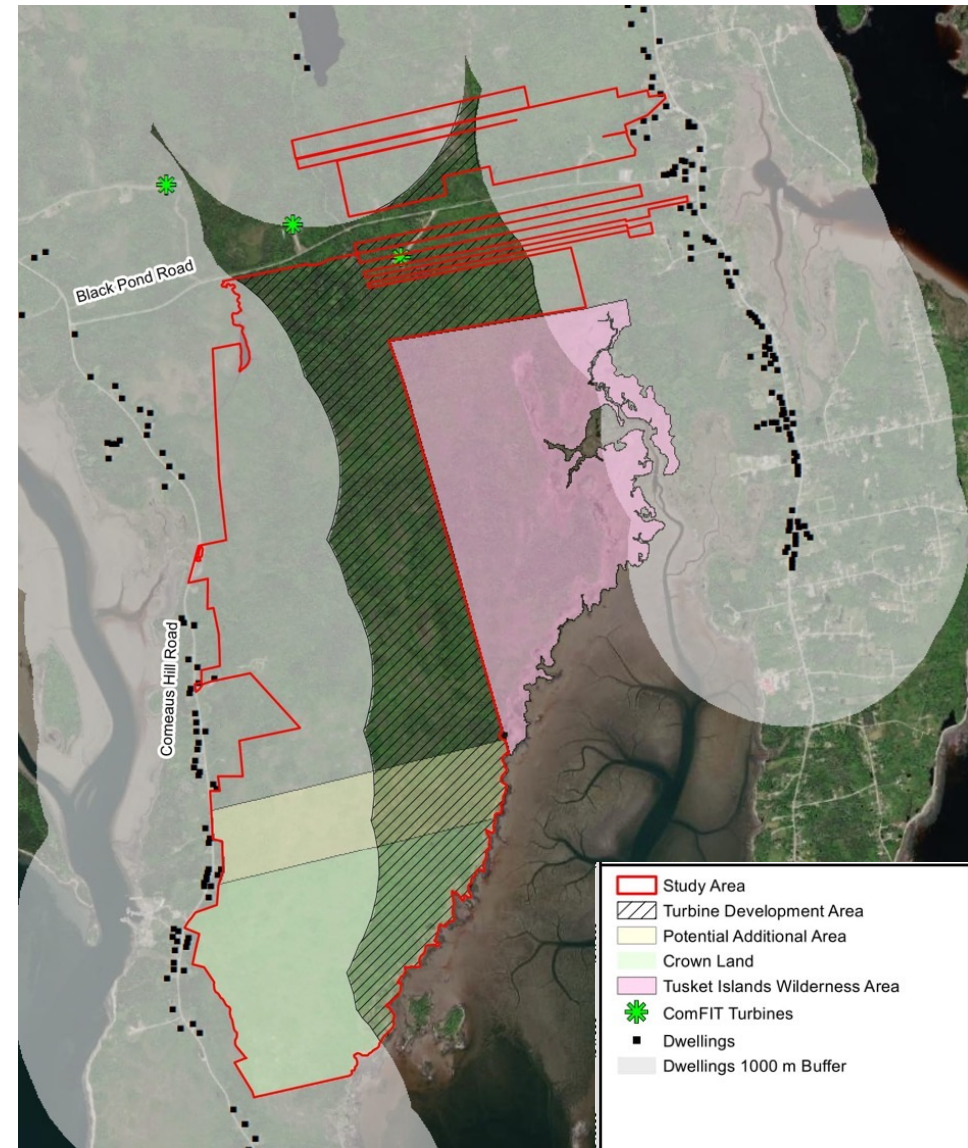
The Wedgeport Wind Project development opportunity was informed by project development area and turbine siting considerations.

Project Development Area Considerations:

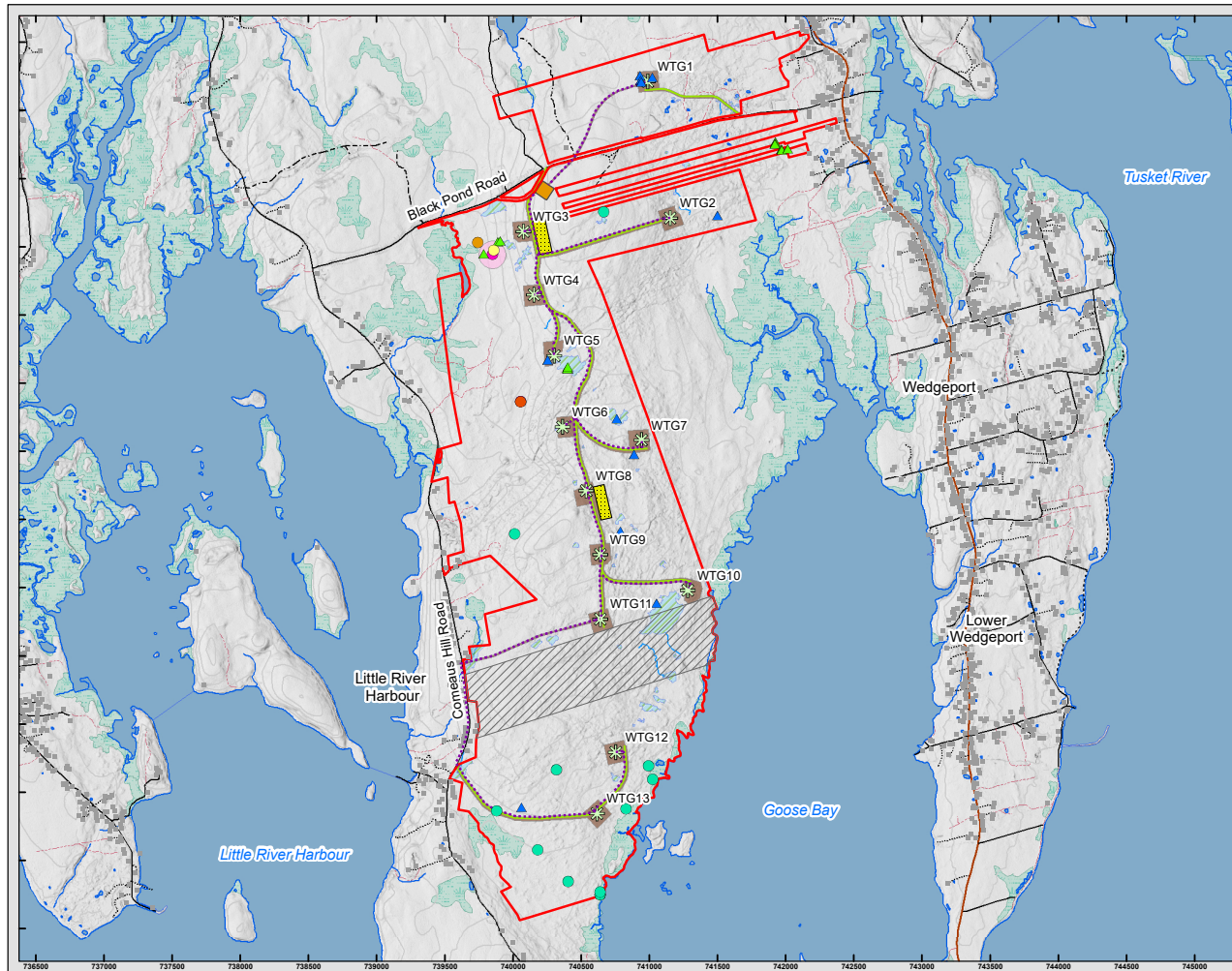
- Avoid project areas that include Old Growth Forest Policy, parks and protected areas, critical and core habitat as identified by Nova Scotia government
- Avoid siting project infrastructure within or adjacent to identified watercourses, wetlands and wetlands of special significance
- Avoid project interactions with Species at Risk, rare plants and lichens

Turbine Siting Considerations:

- Site turbines at a distance greater than 1000 m away from permanent residences
- Noise from operating turbines must demonstrate it does not exceed 40 dBA at receptor locations
- Shadow flicker modelling must demonstrate compliance with provincial / international guidelines at receptor locations
- Site turbines to avoid interference with communication towers, air traffic, and remote sensing instrumentation such as weather / marine radar



WEDGEPORT WIND PROJECT LAYOUT – MARCH 2023



Wedgeport Wind Project Layout and Assessment Area

Little River Harbour, NS

- | | |
|---|--|
| ■ Buildings | ● Salted Shell Lichen (<i>Coccocarpia palmicola</i> , S3S4) |
| — NSTDB Contour line (5 m) | ● a lichen (<i>Fuscopannaria sorediata</i> , S2S3) |
| — NSTDB Mapped Watercourse | ● Fringe Lichen (<i>Heterodermia neglecta</i> , S3S4) |
| — Field Delineated Watercourse | ● Powdered Ruffle Lichen (<i>Parmotrema perlatum</i> , S3S4) |
| ■ NSTDB Open Water | ● Blue Felt Lichen (<i>Pectenia plumbea</i> , SARA & COSEWIC Special Concern, NSESA Vulnerable, ACCDC-S3) |
| ■ Field Delineated Wetland | ● Eastern Skunk Cabbage (<i>Symplocarpus foetidus</i> , S3S4) |
| ■ NSECC Mapped Wetlands | ● Red Beard Lichen (<i>Usnea rubicunda</i> , S2S3) |
| ■ Blue Felt Lichen SMP 100m Buffer | ● Highbush Blueberry (<i>Vaccinium corymbosum</i> , S3S4) |
| ⊗ Wind Turbine Generator (WTG) | |
| — Access Roads | |
| — Collector Line | |
| ■ Project Footprint | |
| ■ Laydown Area | |
| ■ Substation | |
| ▨ PID 90024985 Excluded from Project Area | |
| ■ Project Area | |



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



RESPONSIVE TO COMMUNITY INTERESTS AND VALUES

Community engagement is informing project design strategies for Wedgeport Wind

- Residents of surrounding communities engaged through the April 2022 Open House. Areas of interest include:
 - Potential impacts to birds and wildlife from construction and wind project operations.
 - Potential noise and shadow flicker impacts from operating wind turbines.
 - Potential impacts to property values for properties adjacent to operating wind energy projects.
 - Interested in required municipal wind turbine setbacks from existing residences.
 - Interested in community benefits from the Wedgeport Wind Farm Project.

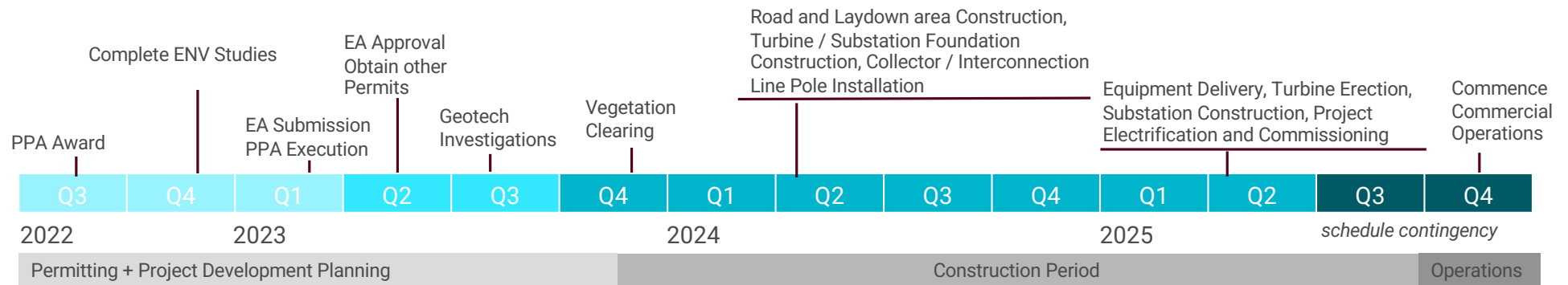
Sipekne'katik First Nation (SFN) engaged as project owner and development partner to advance the Wedgeport Wind project

- a Mi'kmaq Ecological Knowledge Study (MEKS) conducted by Indigenous Environmental Solutions is underway to inform Mi'kmaq interests and values associated with lands, waters and resources in and around the project area. A previous MEKS was completed by Membertou Geomatics in 2012.
- Wedgeport Wind to collaborate with SFN and other Mi'kmaq Nations on community engagement, skills training, employment, and contracting opportunities.
- Sipekne'katik and other Mi'kmaq Nation interests and values to be incorporated throughout project design.



PROJECT SCHEDULE + MILESTONES

- Secured land control under option to lease for the project.
- Open House held in April 2022. Environmental field work commences in Spring 2022
- Sipekne'katik joined Wedgeport Wind as a development partner in Q2 2022 and Wedgeport Wind submitted a project proposal to the Nova Scotia Rate Base Procurement in May 2022. Wedgeport Wind awarded 80 MW PPA in August 2022.
- Environmental field work completed in November 2022; project layout / design finalized for environmental assessment.
- Environmental Assessment registered in March 2023. Other permits and authorizations being prepared for Spring 2023 submission.
- Project construction slated to begin late 2023. Construction period will last two construction seasons (2024 – 2025)
- Project commissioning with commercial operations commencing in late 2025.



PROJECT BENEFITS



GHG REDUCTIONS

Offset **~105,00 tCO₂e/year** of coal-fired generation in Nova Scotia.



LOW-COST ELECTRICITY

Low-cost, fixed price clean electricity for the Province of Nova Scotia.



EMPLOYMENT

~85 jobs created during construction and **~10 full time jobs** throughout operations. Principals have experience and ability to train **permanent O&M technicians**.



LOCAL CONTRACTING

Project proponents have a track record of hiring local contractors.



TAX REVENUE

~600,000/year will go to the municipality in property taxes which escalates annually.



COMMUNITY INITIATIVES

Committed to establishing a **~\$80,000/year** community benefit fund.



CAPACITY BUILDING

Comprehensive capacity building plan with Sipekne'katik First Nation including employment, contracting, O&M jobs and business mentorship.



EDUCATION

Education and training events planned. Capacity building agreement includes annual bursaries to Sipekne'katik First Nation





Dan Eaton
Director of Project Development
Elemental Energy
deaton@elementalenergy.ca

Trent MacDonald
Project Manager
Elemental Energy
tmacdonald@elementalenergy.ca

Jon Turner
Development Consultant
Elemental Energy
jturner@elementalenergy.ca

