

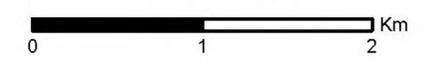
**EIGG MOUNTAIN WIND PROJECT  
PRELIMINARY PROJECT LAYOUT**

**LEGEND**

- Proposed Turbine Layout
- Proposed Access Road
- Proposed Electrical Circuit
- Proposed Project Substation
- Proposed Operations & Maintenance Building
- Proposed Project Temporary Laydown Yard
- Participating Land
- Towns
- Roads
- Highway
- 138 kV Line
- James River Wilderness Area
- Crown Land
- Watercourse
- Waterbody
- Municipality

Absolute Scale  
1:40,000

Coordinate System:  
NAD 1983 UTM Zone 20N



**RENEWABLE ENERGY SYSTEMS  
CANADA INC.**

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Data Sources:  
CanVec12, Altalis, ArcPRO Online  
Date: April 2025  
Layout 83  
Format: 11x17

Subject to change in response to community feedback and results of ongoing field studies



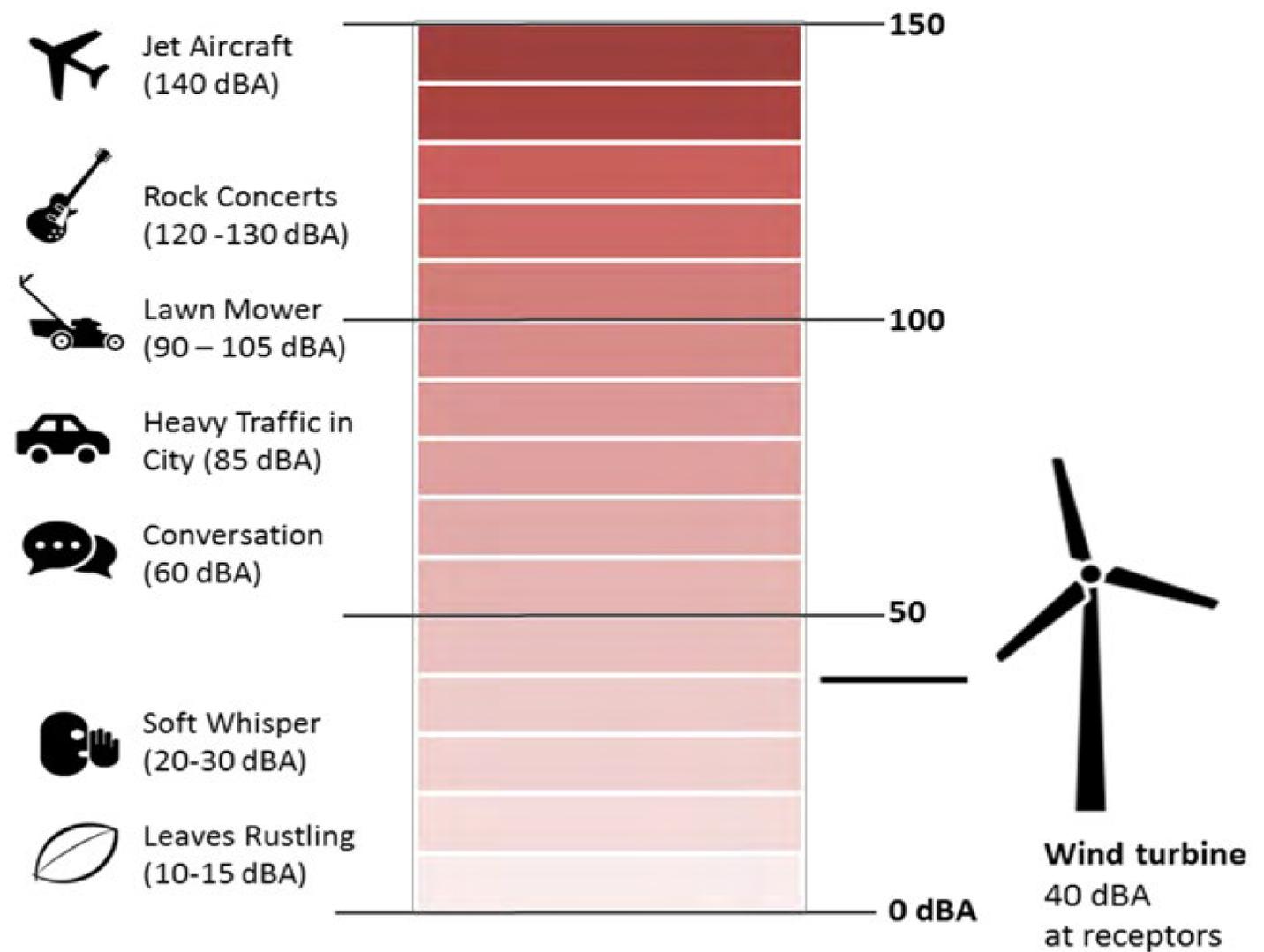
# NOISE CONTROL



## NOISE IMPACT ASSESSMENT

- Provincial regulations state that noise cannot exceed 40dBA at a residential dwelling (receptor)
- A noise assessment will be completed for all dwellings within 2 km of a turbine
- The noise assessment considers other operational projects and noise sources in the area
- Models will be prepared with 'worst-case' assumptions

**Preliminary results show Project is compliant at all receptors within 2 km of the project.**

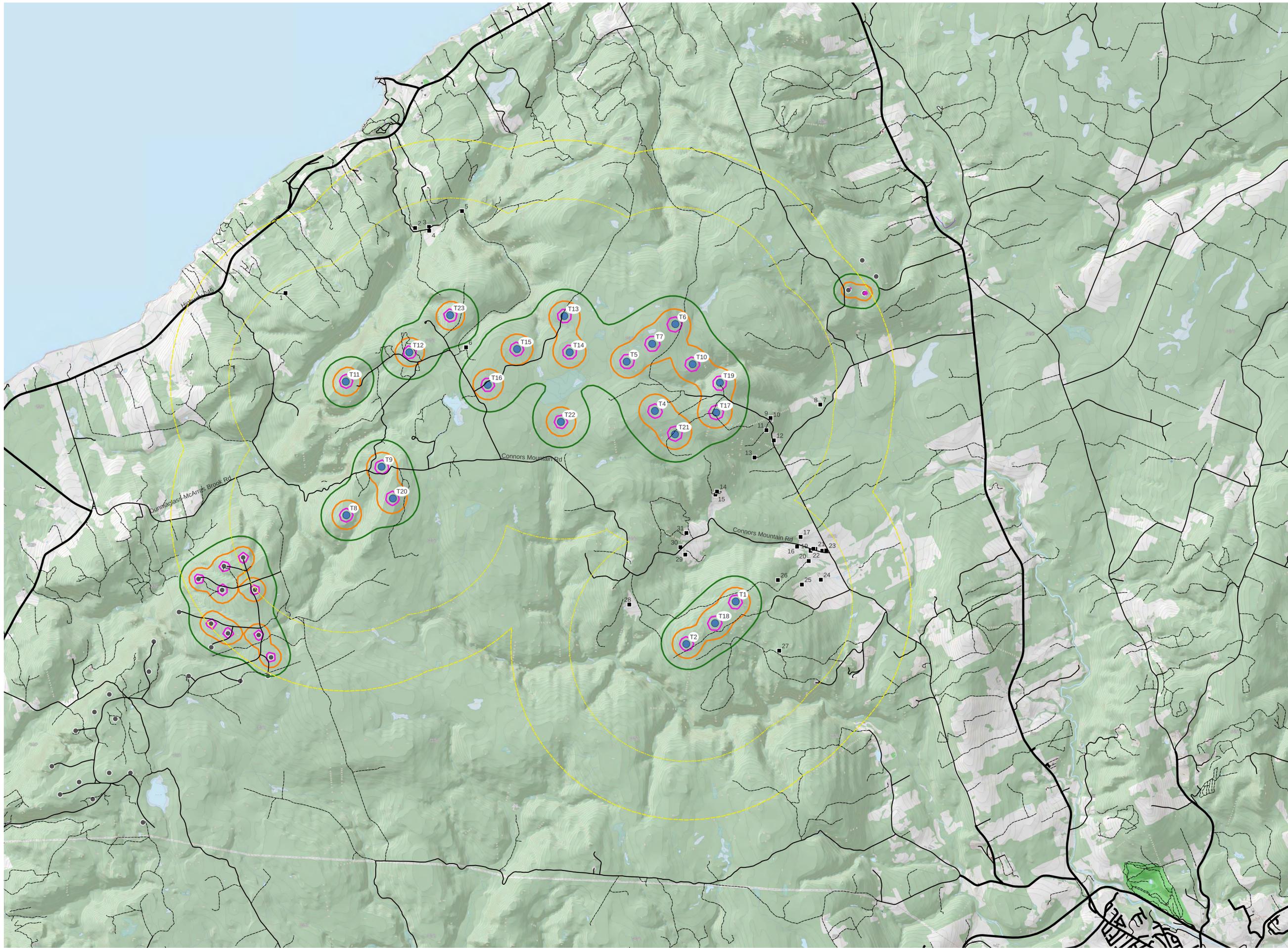
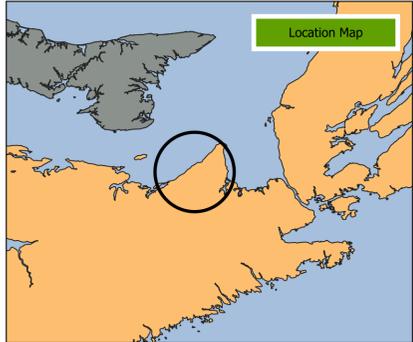


**Egg Mountain Wind Project**

**Noise Analysis**

Coordinate System UTM, NAD83, Zone 20 November 21, 2025

Analysis By: Nortek Resource Solutions Inc.



- Legend:**
- Proposed Turbine
  - Existing Turbines
  - Receptors within 2.0 km Proposed Turbines
  - 2 km Project Buffer
  - 3 km Project Buffer
  - Predicted Noise Level (dBA)
  - 40
  - 45
  - 50

Turbine Model: N163 6.X 7000  
 Hub Height: 118 m  
 Rotor Diameter: 163 m  
 Rated power: 7,000 kW

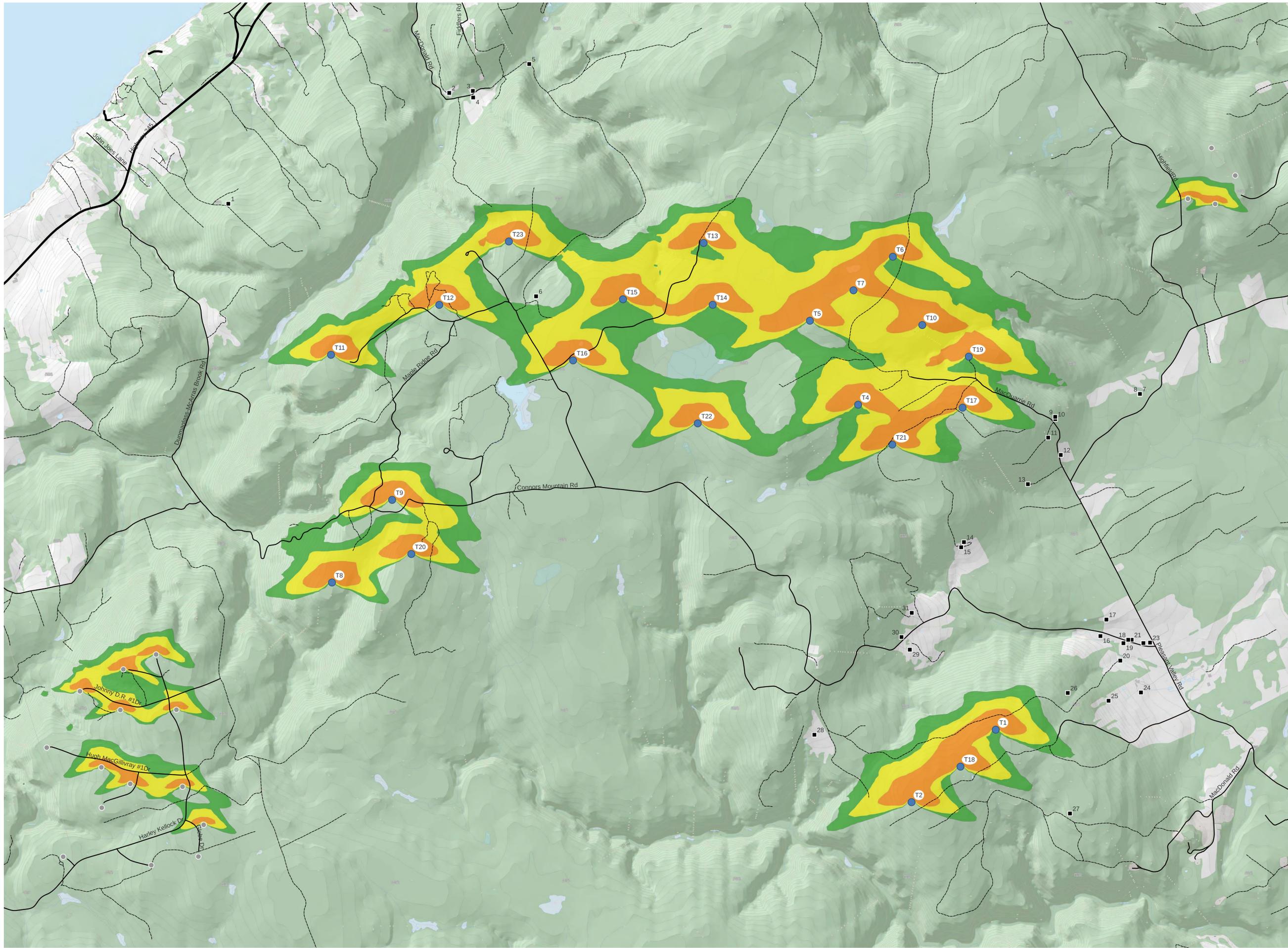
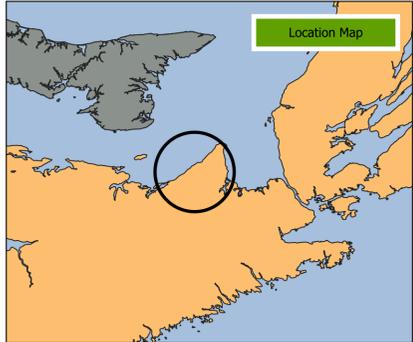
0 500 1,000 m



**Egg Mountain Wind Project**

**Shadow Flicker Analysis  
Realistic Case  
Maximum Shadow Hours per Year**

Coordinate System	UTM, NAD83, Zone 20	November 21, 2025
Analysis By: Nortek Resource Solutions Inc.		



**Legend:**

- Proposed Turbine
- Existing Turbines
- Receptors within 2.0 km Proposed Turbines

Shadow Hours/Yr - Real Case (hrs)

- 30 - 49
- 50 - 99
- > 100

Turbine Model: N163 6.X 7000  
 Hub Height: 118 m  
 Rotor Diameter: 163 m  
 Rated power: 7,000 kW



# ENVIRONMENTAL PROFILE



## Site Characteristics

- ✦ The proposed project is near the Eigg Mountain – James River Wilderness Area.
- ✦ Much of the site consists of hardwood forest, with areas of mixedwood forest and smaller patches of coniferous forest and wetlands. Many areas are managed for forestry, including plantations and harvested stands at various stages of regeneration.
- ✦ Habitats within the site are suitable for Mainland Moose. Rare flora may occur within the site, particularly in old growth and wetland habitats. Other Species at Risk that may occur within the site include birds, bats, and turtles.
- ✦ The site has an existing network of roads and off-highway vehicle routes.

## Environmental Assessment

- ✦ An environmental assessment is underway for the proposed Eigg Mountain Wind Project.
- ✦ An environmental assessment is a planning tool used to identify, predict, and evaluate potential environmental effects of the proposed project and inform responsible project design and decision-making.
- ✦ Baseline surveys will inform the placement of project infrastructure to mitigate and minimize potential impacts to wetlands, watercourses, Species at Risk, and other sensitive environmental features.





# ENVIRONMENTAL ASSESSMENT



To inform the Environmental Assessment, the following studies have been completed or are ongoing:



**Terrestrial Wildlife:** Bats, Mainland Moose



**Birds:** Migration, Breeding, and Winter



**Flora:** Plants, Old Growth stands, Lichens



**Wetlands:** Delineation and Functional Assessments



**Aquatics:** Fish and Fish Habitat, Turtles, Water Quality



**Visual, Sound, and Shadow Flicker Assessments**



**Historical and Cultural Resources:** Archaeological, Mi'kmaq Ecological Knowledge Study



**Socioeconomic Assessment**



**Electromagnetic and Telecommunication Assessment**



**Geotechnical Investigation**



**Cumulative Effects Assessment**

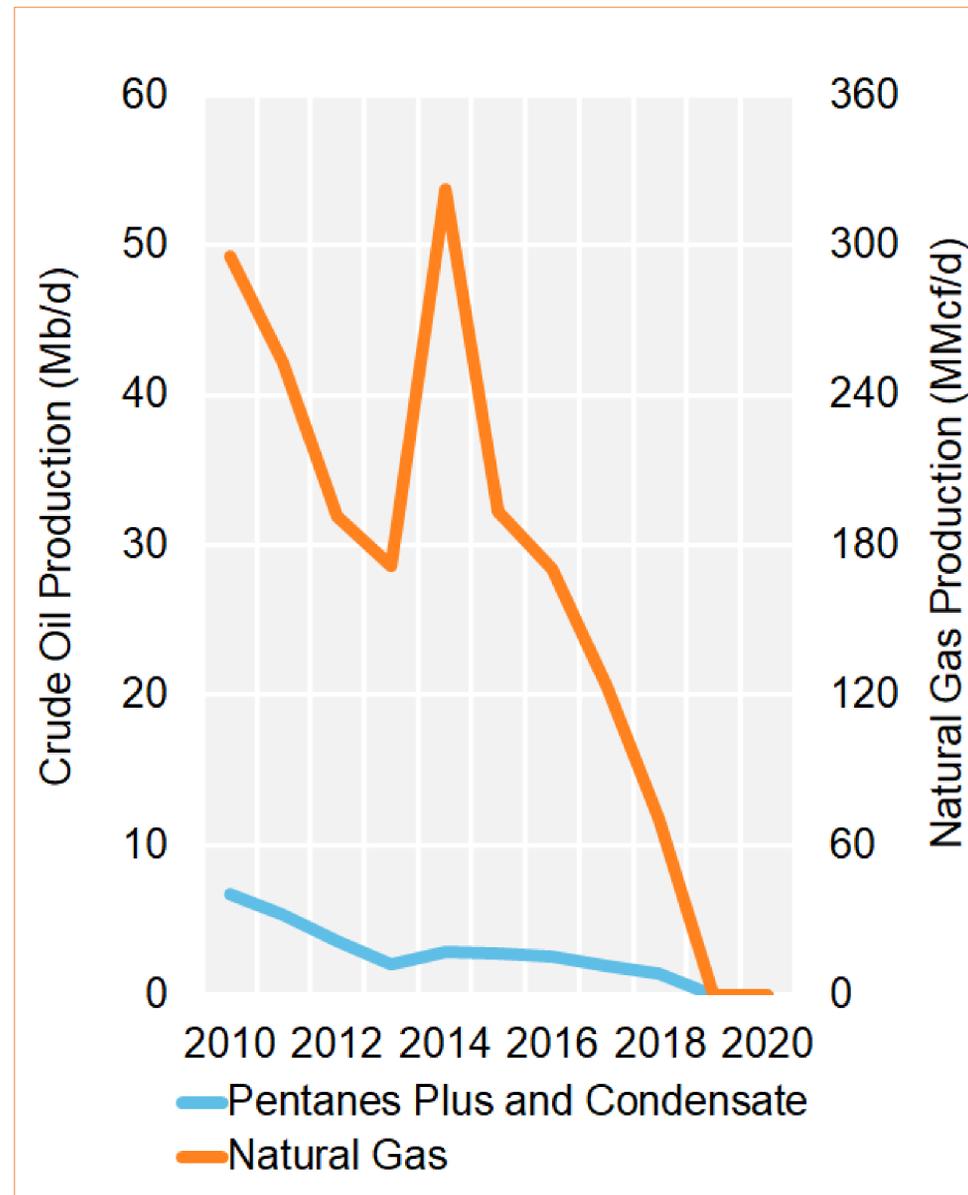
Study findings are directly shaping the turbine layout, access roads, and infrastructure planning to avoid sensitive features and reduce potential project impacts. Key design considerations include:

- Prioritizing use of existing roads and previously disturbed areas to reduce landscape fragmentation
- Avoiding Old Growth stands
- Minimizing impacts to wetlands and watercourses
- Minimizing new tree clearing
- Avoiding impacts to existing infrastructure and land uses

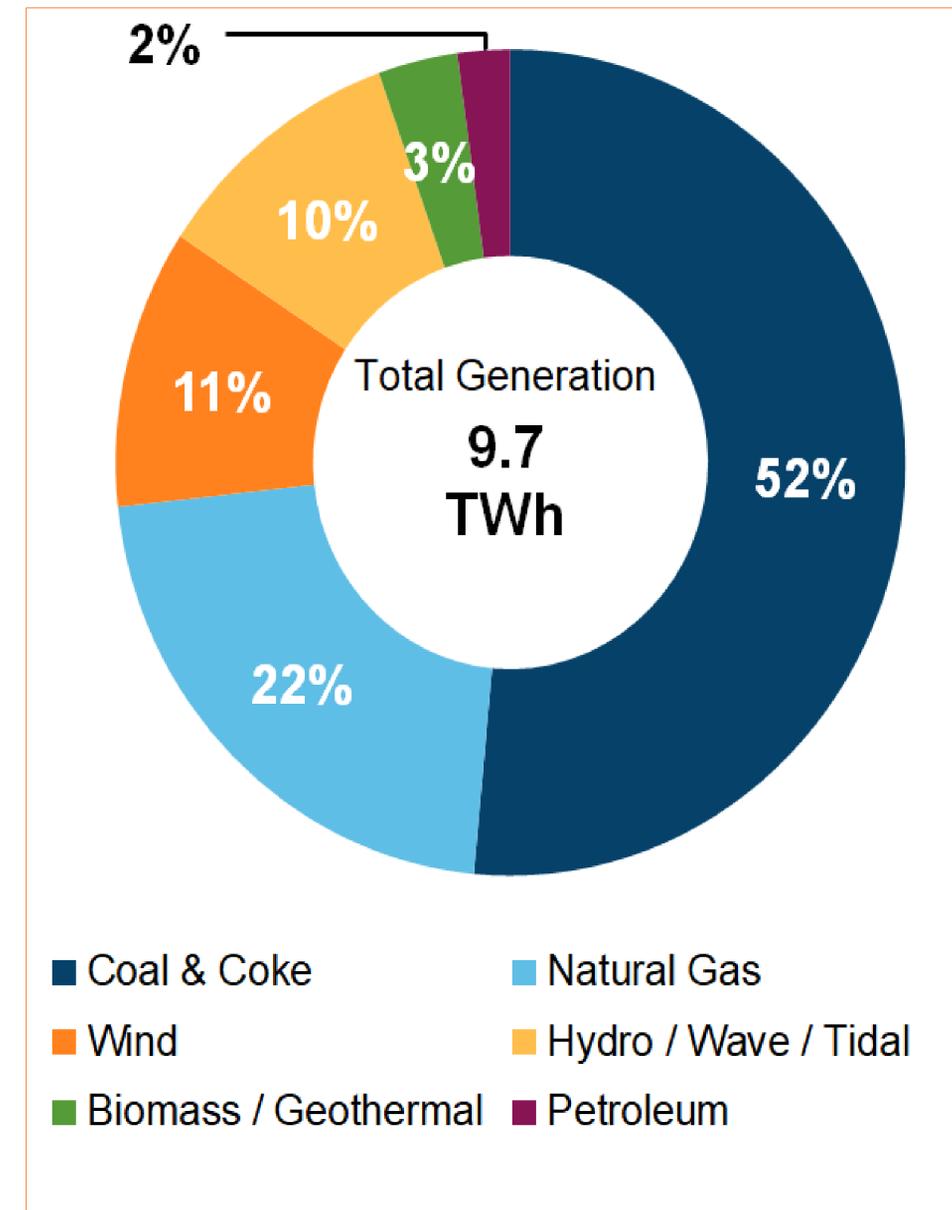
The Environmental Assessment registration is scheduled for submission Q1 2026.



# NOVA SCOTIA'S CURRENT ENERGY MIX



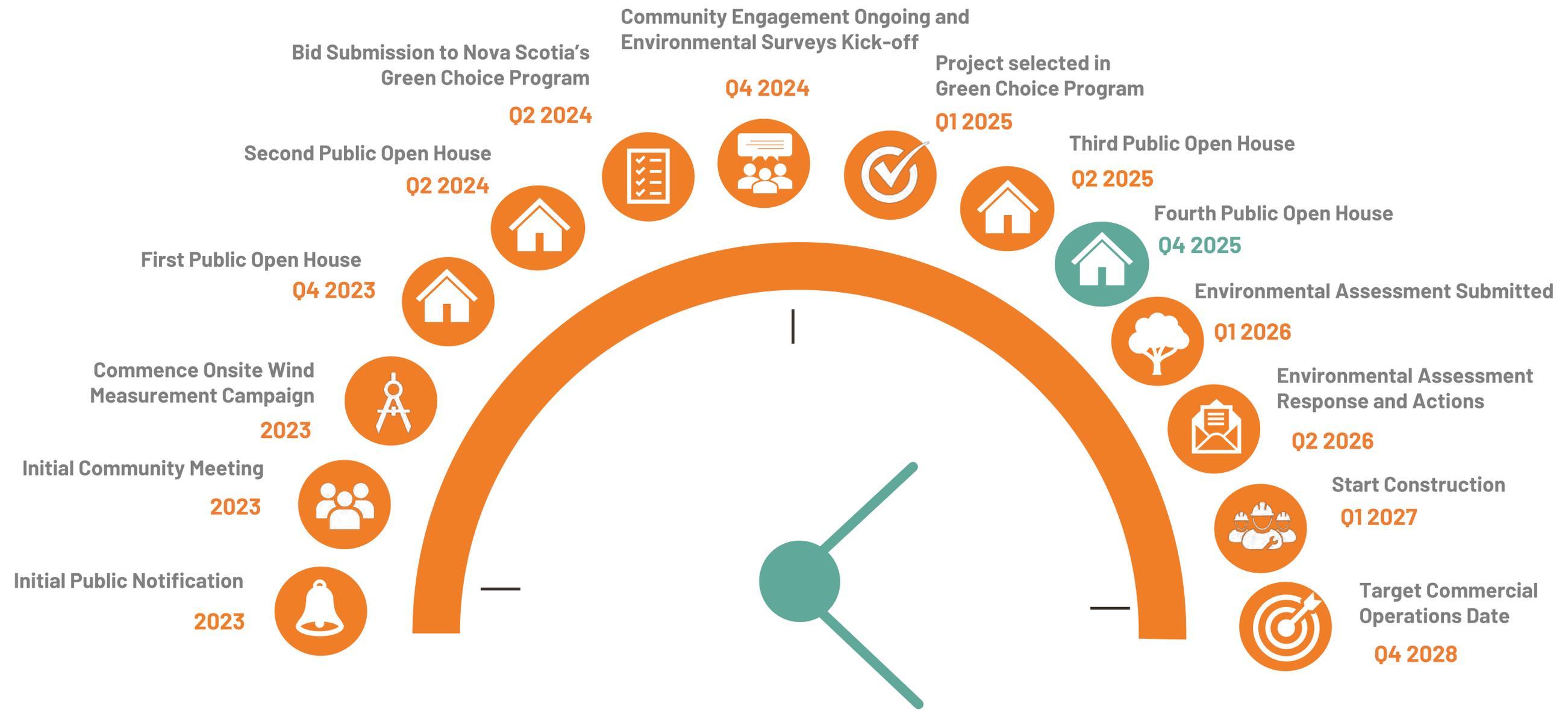
Limited Domestic Fossil Fuel Reserves



A HUGE Challenge – replacing majority of fossil fuel



# PROJECT TIMELINE



Engagement continues through the life of the project



# REGULATORY APPROVALS



RES will seek sign-off/approval from the following regulatory agencies and permitting bodies:



Défense nationale National Defence



Environment and Climate Change Canada



# EIGG Mountain Wind Farm – Geotechnical Engineering Services

The objectives of this detailed geotechnical investigation and analysis is to identify geological hazards and risks, define the subsurface conditions, generate detailed foundation design and construction recommendations using site-specific soil conditions and inform assumptions across the entirety of the project site.

## Borehole Drilling Program

Specific routes are planned and coordinated between WSP and RES to access the borehole locations in an efficient manner that minimizes the distance traveled on each parcel while also avoiding sensitive environmental areas, if any, such as wetlands. Existing site entrances are used when possible, and the routes are scouted prior to the drill rig mobilization.

Boreholes are drilled to a maximum depth of 15 metres (50 feet) utilizing hollow-stem augers, or mud rotary drilling technique to identify the subsurface conditions through observation of the recovered samples and drill cuttings. An example of the rig can be seen to the right. Borings are backfilled following completion of the drilling per local and provincial requirements. Coordinates of the boreholes are recorded using a hand-held GPS and confirmed with ArcGIS field maps, accurate to within approximately 3-5m

## Piezometers

Standpipe piezometers (2" to 3" PVC pipe) are placed in the boreholes after the geotechnical boring is complete to measure the groundwater. A reading will be taken at the time of installation, approximately one month after installation, and once in spring of 2026 to capture the highest groundwater level. The pipes will extend approximately 1m above the ground and flagged with a bright ribbon for visibility. The picture to the right is an example of a standpipe piezometer.

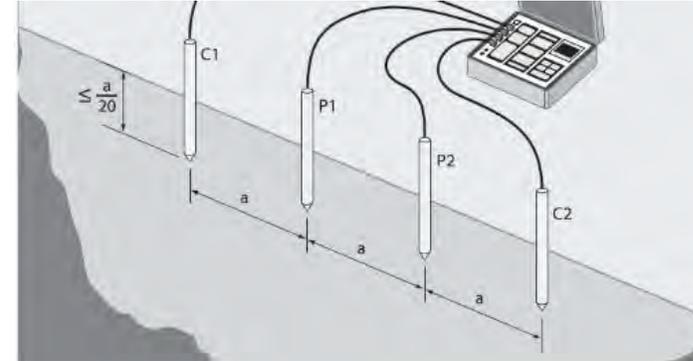




# EIGG Mountain Wind Farm – Geotechnical Engineering Services

## Electrical Resistivity Testing

This is a non-invasive test using very small metal pins that are inserted into the ground at a specified distance and connected via small wires to a device that measures the electrical resistivity properties of the ground. Testing will be conducted at all boring locations and span approximately 150m. The equipment will be installed and removed same day.



## Laboratory Testing:

Representative soil and bedrock samples from the field programs are placed in properly sealed containers and submitted to WSP's CSA accredited laboratory located in Dartmouth, NS for index testing. The required laboratory tests will be conducted fully in-house whenever possible. If WSP is not certified to perform a required test, it will be subcontracted to a certified vendor.

## WSP Contact

If you have any questions regarding the Geotechnical Program, please contact Clayton Rogers at (902) 478-6143.

Thank you from the WSP and RES team.





Locally owned Land Surveying and Engineering business located on James Street, Antigonish



Eight local employees supporting the rinks, daycares and farmers markets



Each day a new adventure for Field Technicians- moose, crisp Fall mornings and many kilometers exploring Connors Mountain and MacQuarrie Roads on foot and by vehicle



Establishing boundary lines and streamlining development on Eigg Mountain

**M. BERRIGAN**  
**LAND SURVEYING**

# THANK YOU!



We appreciate you taking the time to join us.  
RES would be happy to follow-up with you if you have any other  
questions about the Project.

**[EiggMountain.Wind@res-group.com](mailto:EiggMountain.Wind@res-group.com)**

**Please fill out a feedback form.**

