



WELCOME



**WJU'SNEWIKNAQ**  
*WIND STRENGTH*

# Welcome

Community Information Session



**WJU'SNEWIKNAQ**  
*WIND STRENGTH*



# LAND ACKNOWLEDGEMENT



## Recognition of the Mi'kmaq and their Ancestral Territory

We acknowledge the ancestral and unceded territory of the Mi'kmaq people. We also acknowledge the Mi'kmaq as the past, present, and future caretakers of this land, Mi'kmaki.

As a Membertou Company, Wind Strength is committed to meaningful engagement, collaboration, and accountability with all partners and Rightsholders in the advancement of social and economic reconciliation.

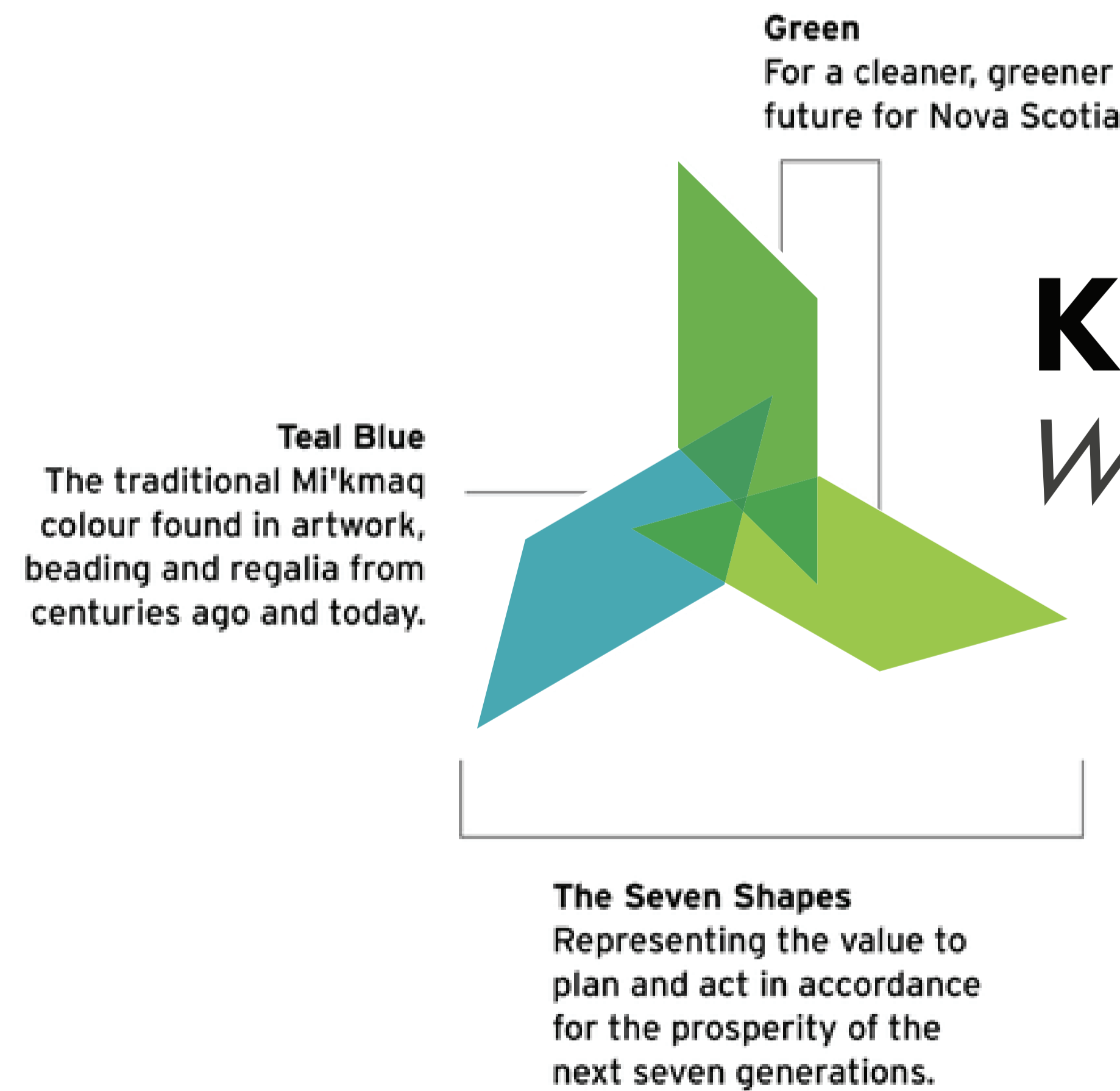


# ABOUT WIND STRENGTH

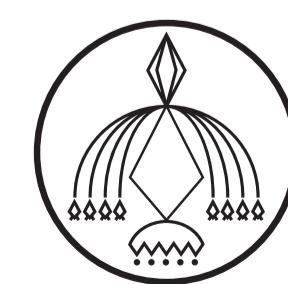


**WJU'SNEWIKNAQ**  
WIND STRENGTH

Wind Strength, a Membertou company, is planning to jointly develop Kmt nuk (Gah-Mit-Nook) Wind Power Project with EverWind Fuels and RES. Wind Strength is a translation of the Mi'kmaq word "Wju'snewiknaq" (Wu-jew-sin-eh-wee-ginn-ah), which embodies the strength, resiliency, and environmental stewardship of the Mi'kmaq people through green energy leadership. For generations, Mi'kmaw were prevented from participating in and benefiting from the development of Canada's natural resources. Today, as the past, present, and future caretakers of this land, we are proud to be at the forefront of building a cleaner future for Nova Scotia and the world.



## **KMTNUK WIND** *WHERE THE MOUNTAIN IS*



**Membertou**  
WELCOMING THE WORLD!  
MAJORITY OWNER



**EVERWIND**  
FUELS  
MINORITY OWNER

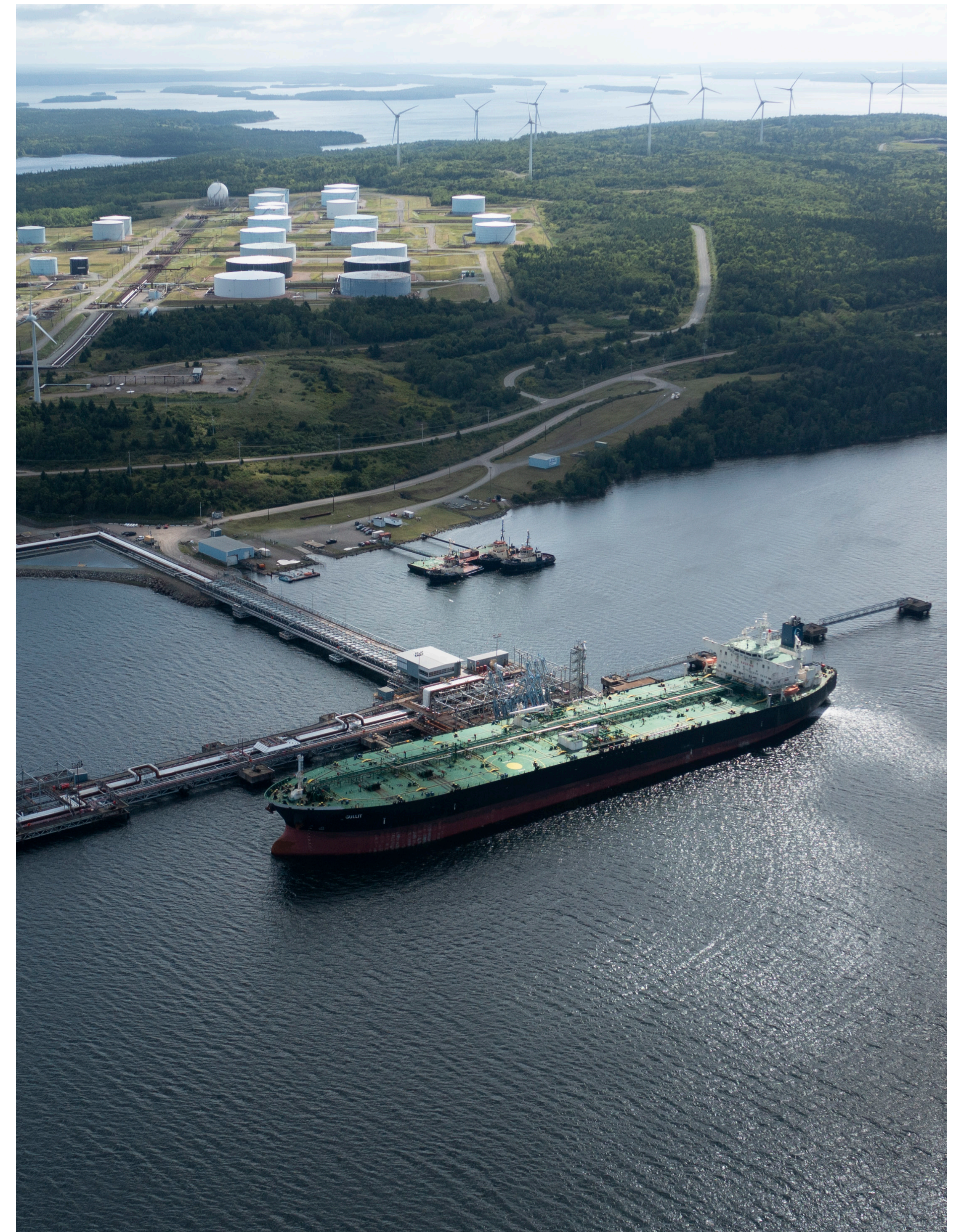




# ABOUT EVERWIND

EverWind Fuels LLC is a developer of green hydrogen and ammonia production, storage facilities, and associated transportation assets. The EverWind Fuels team is comprised of over 100 employees, mostly from the local community, who are further supported by full time contractors and consultants.

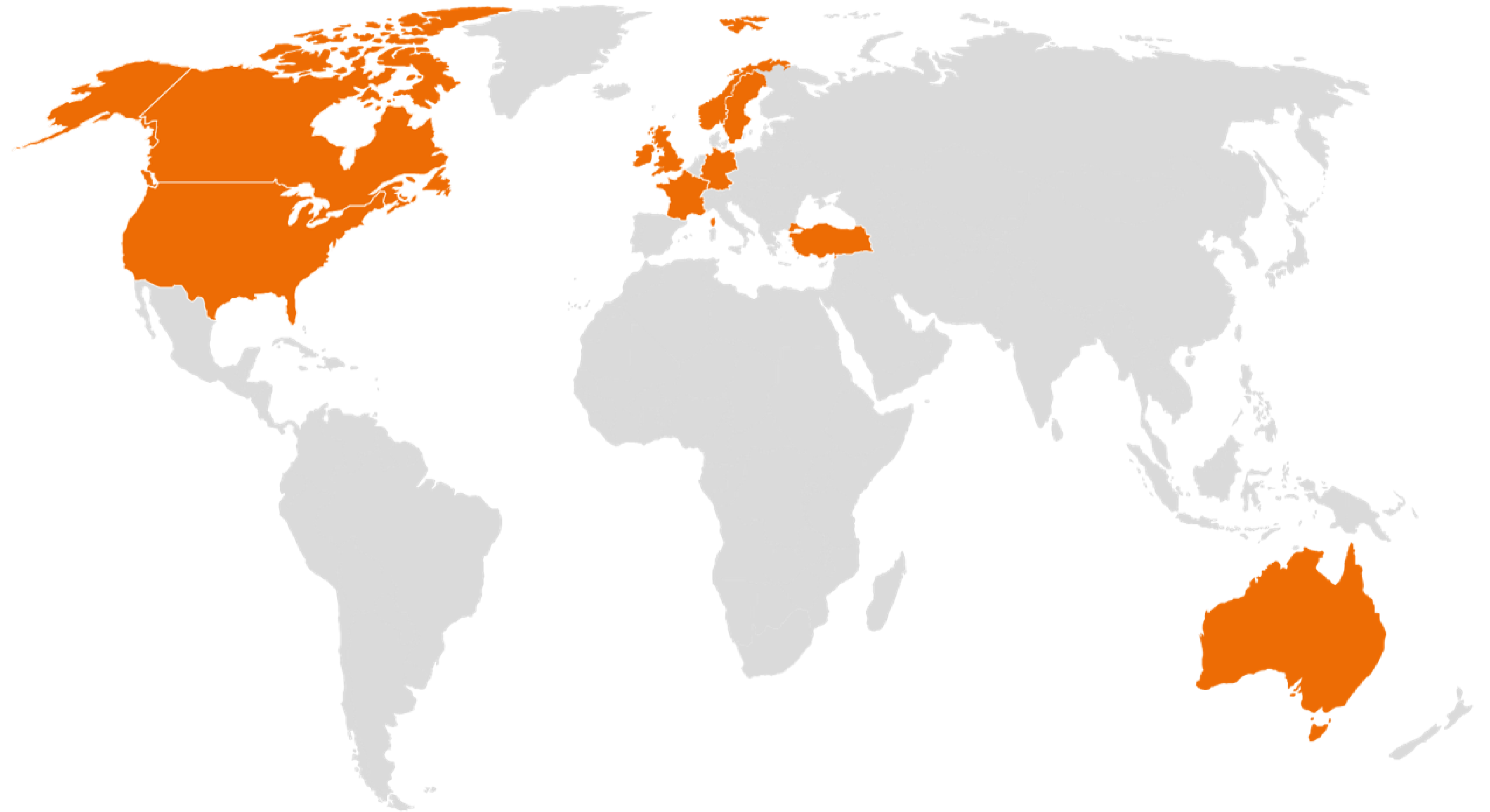
We are developers, owners, and managers with experience in almost every infrastructure sub-category in North America, and a track record of success and delivering socially and environmentally responsible developments for all of our stakeholders.





# RES EXPERIENCE

RES is the world's largest independent renewable energy company. At the forefront of the industry for 40 years, RES has delivered more than 22GW of renewable energy projects across the globe and supports an operational asset portfolio exceeding 9GW worldwide for a large client base. RES employs more than 2,000 people and is active in 11 countries working across onshore and offshore wind, solar, energy storage and transmission and distribution.



**23** GW PORTFOLIO

**40** YEARS OF EXPERIENCE

**12** GW ASSETS



WIND



SOLAR



STORAGE



T&D

**res**<sup>®</sup>  
power for good<sup>®</sup>



# ENVIRONMENTAL ASSESSMENT



WJU'SNEWIKNAQ  
WIND STRENGTH

The project is submitting to the province's rigorous **Environmental Assessment (EA) process**, which includes a comprehensive analysis of the potential environmental impacts of the project.

**Strum Consulting** is successfully guiding the process and conducting a series of detailed studies including:

- Watercourse and Wetland Surveys
- Vegetation and Habitat Surveys
- Bird and Bat Surveys
- Moose Surveys
- Sound and Visual Assessments
- Electromagnetic Assessments
- Archaeological Assessments
- Telecommunication Assessments



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CONSULTING





# ENVIRONMENTAL MONITORING

As part of the survey process, specialized equipment is used to help ensure we have comprehensive environmental information.



## Avian Radar

Radar systems are used to track biological targets (birds and bats) as they fly through the airspace. This data is used to help assess potential impacts on avifauna and to inform mitigation measures.

## Meteorological (MET) Tower

- MET Towers are temporary structures designed to collect Weather related information, such as wind speed, wind direction, and temperature.
- MET Towers are unassuming in the landscape. Each MET Tower requires just a 100m buffer. Any impact on the surrounding area is minimal.
- MET Towers have a concrete base with guy-wires for support. The wires typically extend 60 metres in 3-4 directions from the tower.
- Each MET Tower has a permit application approved by the Government of Nova Scotia

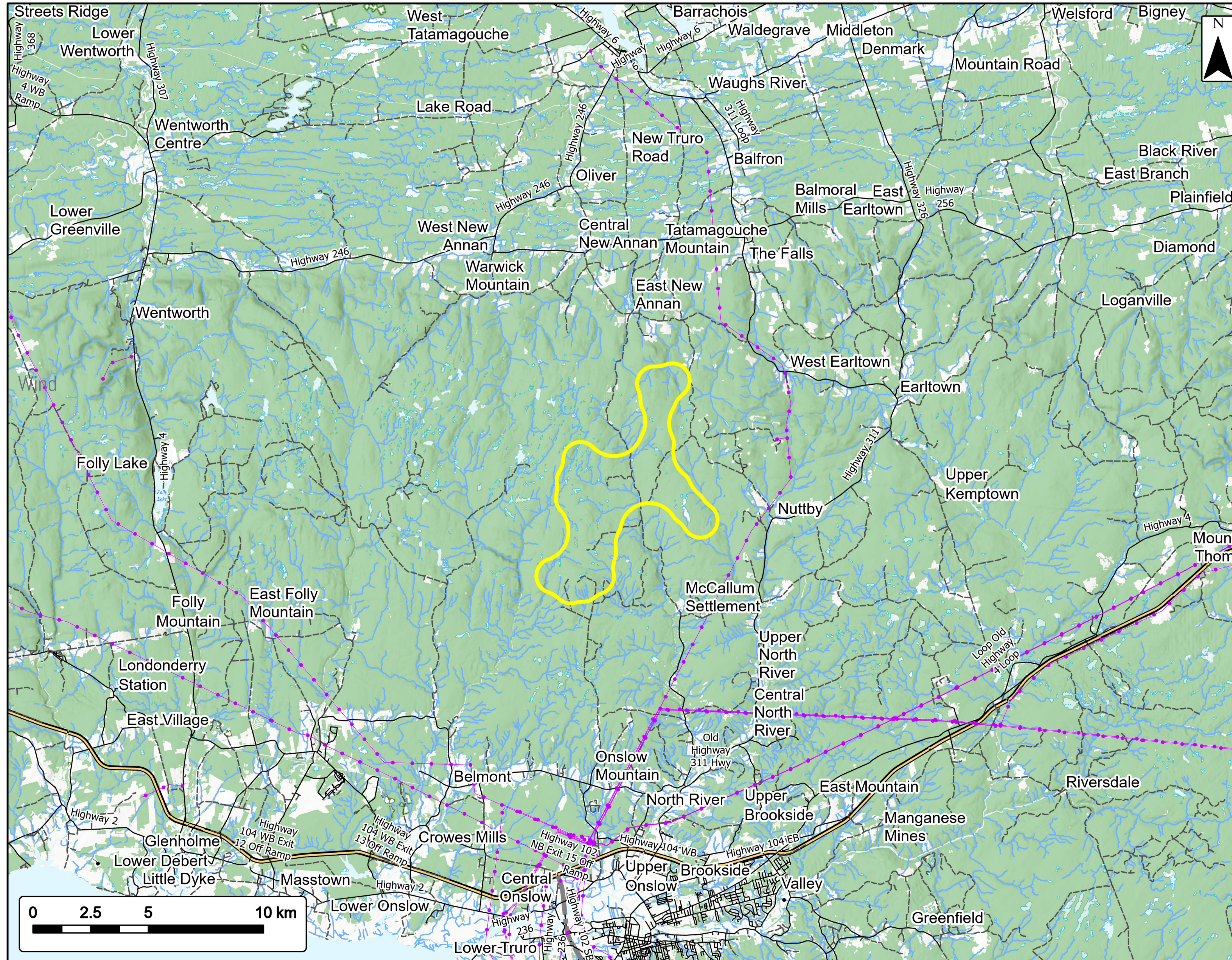




# KMTNUK WIND POWER PROJECT AREA



**WJU'SNEWIKNAQ**  
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**Kmtnuq Wind Power Project**  
Project Area

**WJU'SNEWIKNAQ**  
WIND STRENGTH

Area under consideration for wind development

**Transportation**

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road

**Utilities (line)**

- Existing Pipeline
- Existing Transmission Lines

**Water Features**

- Mapped Stream
- Mapped Indefinite Stream
- Mapped Lakes and Rivers
- Mapped Wet Area

**Map of Nova Scotia**

Coordinate System: NAD83 UTM Zone 20N  
Sources: Esri Base Maps, GeoNOVA, SHSIS, NRCCan, NSNRR, ACCDC, IBA Canada

Date: Aug 2023	Project #: 23-9127
Scale: 1:160,000	Drawing #: 1
Drawn By: K. Wallace	<b>1</b>
Checked By: M. Savelle	

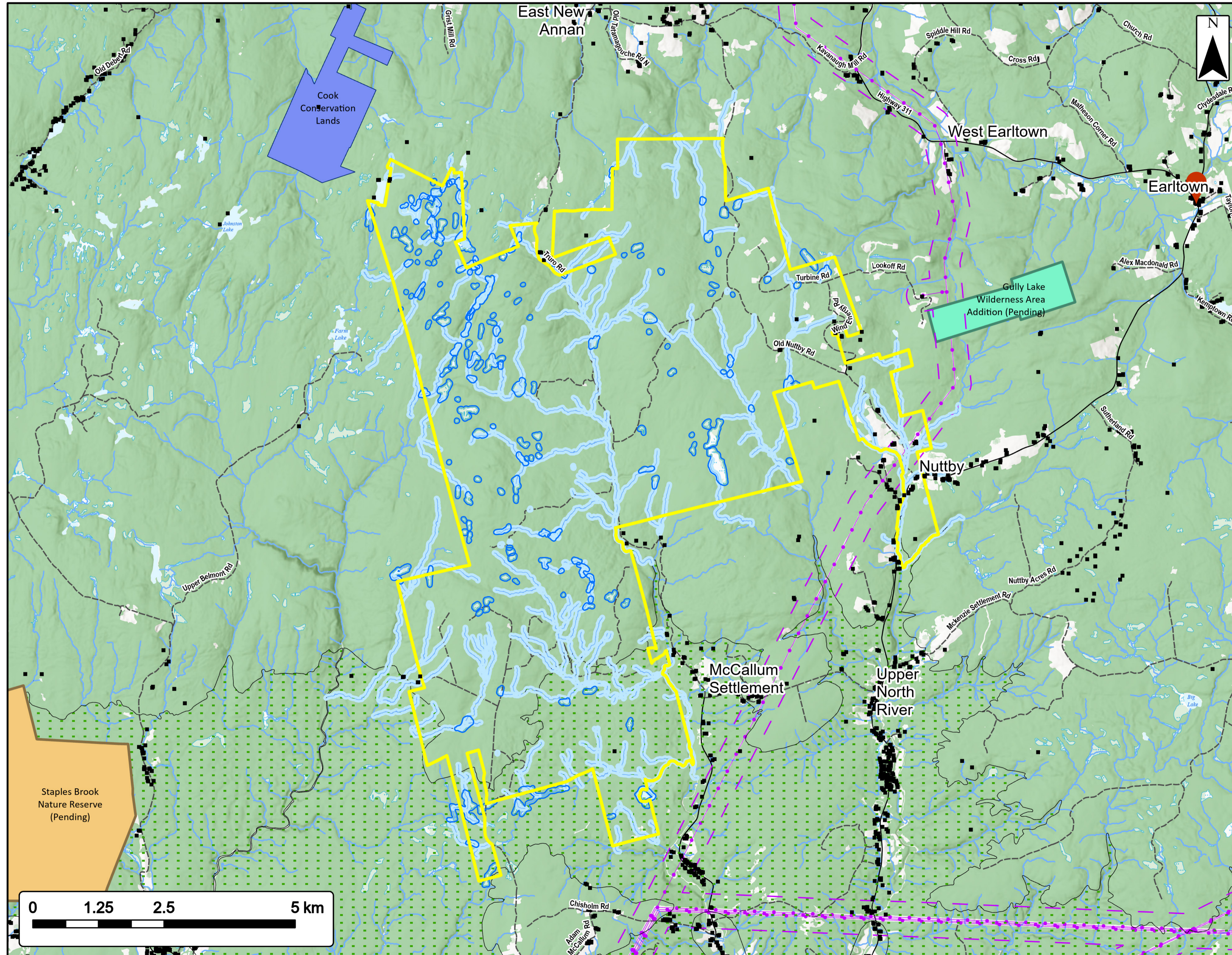
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# KMTNUK WIND POWER PROJECT CONSTRAINTS



**WJU'SNEWIKNAQ**  
WIND STRENGTH



## Kmtnuq Wind Power Project Constraints



- Study Area** Study Area
- County Boundary** County Boundary
- You are here** You are here
- Receptors** Receptors
- Type of Pending or Proposed Protection**
  - Nature Reserve
  - Wilderness Area
  - Land Trust or Conservation Easement
- Type of Existing Protection**
  - Watercourse Setback (30m)
  - Wetland Setback (30m)
- Significant Species & Habitats (NSNRR)**
  - Deer Wintering
- Utilities (line)**
  - Existing Transmission Lines
  - Powerline Setback
- Transportation**
  - Road
  - Unpaved Road
- Water Features**
  - Mapped Stream
  - Mapped Indefinite Stream
  - Mapped Lakes and Rivers
  - Mapped Wet Area



Date: Aug 2023		Project #: 23-9127	
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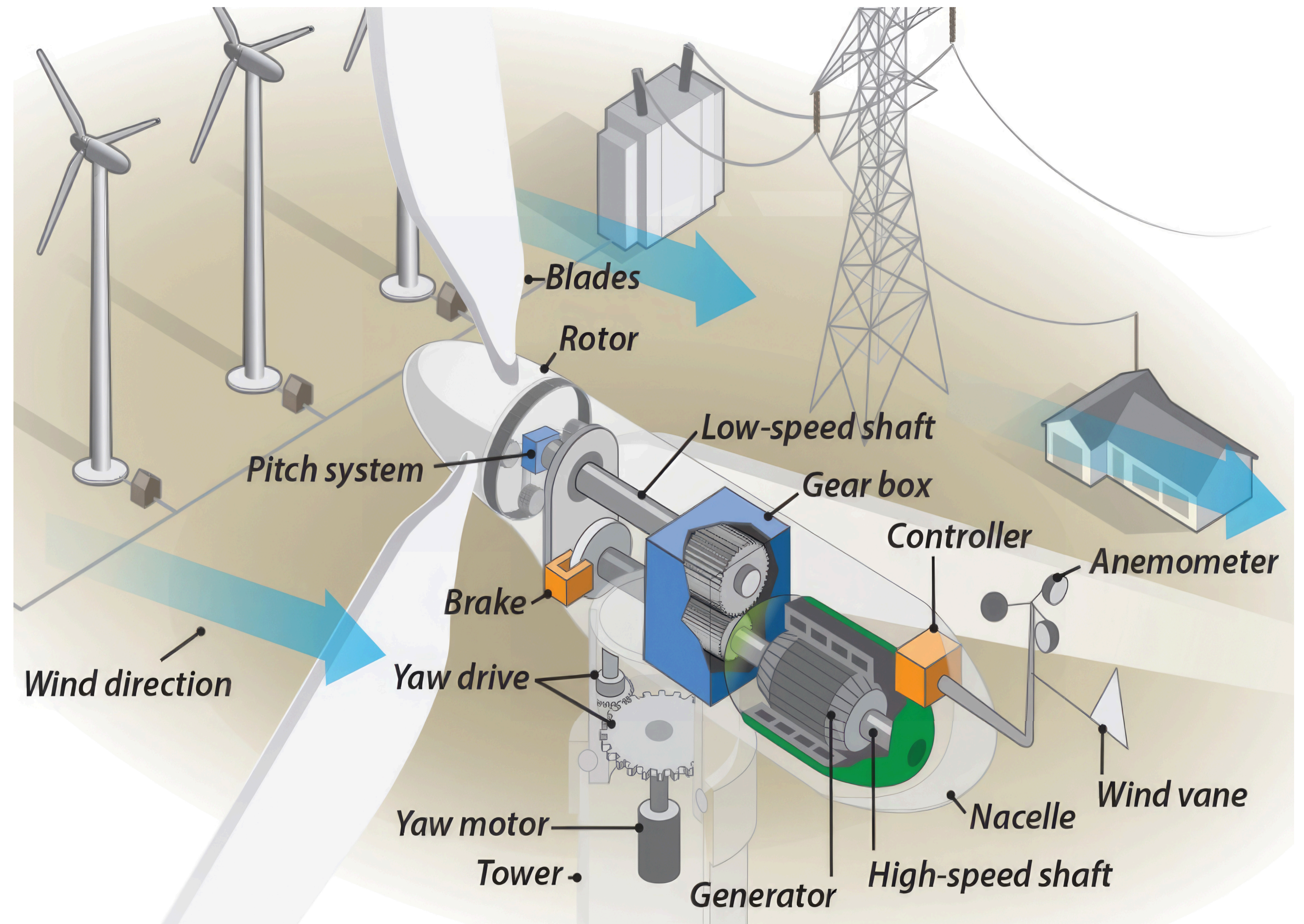


# HOW WIND POWER WORKS

Modern turbines have three main components: the tower, the nacelle (or generator) and the blades.

The blades rotate when the wind blows and are attached to a gearbox in the nacelle, which turns the generator and produces electricity.

Electricity is then converted to a medium voltage AC current, transmitted via cables and is collected at a substation before being transmitted by overhead lines to the main electrical grid.





# COMMUNITY BENEFITS



**We believe our projects are net positives for the local communities in which we work.**

## Benefits Include:

- ✓ Local tax revenues throughout the life of the project
- ✓ Project to provide employment through a committee
- ✓ First Nation Partners to maximize contracting and employment opportunities
- ✓ Contracting opportunities for First Nations & community businesses
- ✓ Construction and operations jobs and support services during construction and throughout the life of the project
- ✓ Increased local spending on goods and services during the project's development, construction and operational phases
- ✓ Electricity subsidy fund – **Homeowners** within proximity of the project will be eligible to receive a yearly subsidy.
- ✓ Community vibrancy fund – Will support **community** organizations near projects.
- ✓ Bursary fund – Will support **local** community members to train in the renewable energy industry.



## Kmtnuk Wind Power Project Details

- Total installed capacity of up to 98 MW
- Comprises no more than 20 turbine locations
- Turbines with a generation capacity of around 5.2 to 6.6 MW each
- Will include a substation, operations and maintenance building and a temporary laydown yard
- Will include temporary wind measurement tower, and likely one long-term wind measurement tower to assess and monitor wind resource plus additional mid-term wind measurement devices.

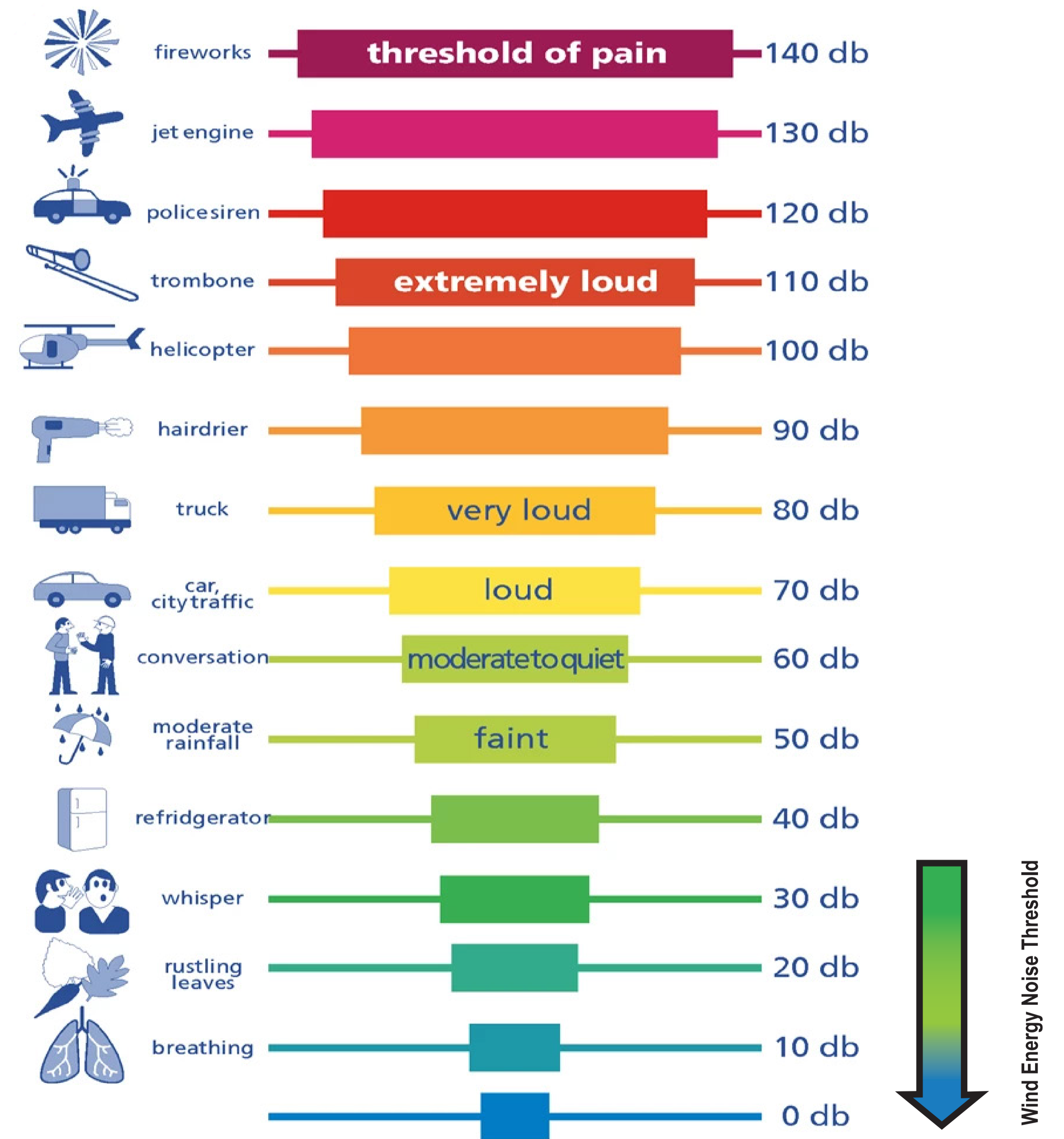
\*Although Turbine selection has not yet been made, turbine hub height is typically between 95 m to 120 m and blades can measure up to 85 m long



# NOISE CONTROL

## KMTNUK NOISE IMPACT ASSESSMENT

- Nova Scotia's EA Guidelines for wind power projects regulates that wind farm design and turbine siting must not cause sound levels to exceed **40 dBA** at the exterior of receptors (dwellings).
- The Municipality of the County of Colchester municipal bylaw regulates that turbines are not to exceed **36 dBA** at receptors (dwellings).
- A noise assessment will be completed by Strum Consulting. Noise modeling will consider other operational projects and noise sources in the area.





# CONSTRUCTION



## Roads

We will use existing roads to minimize impact to land.

## Electrical

Collector lines will be over head and transmission lines will follow project roads.

## Turbine Footprint

Excavation of roughly half an acre is needed per turbine, reduced to less than a quarter acre after construction.



## Did you know?

Wind farms are designed to last at least 25 years, but they are likely to last longer and modern turbines require very little maintenance.

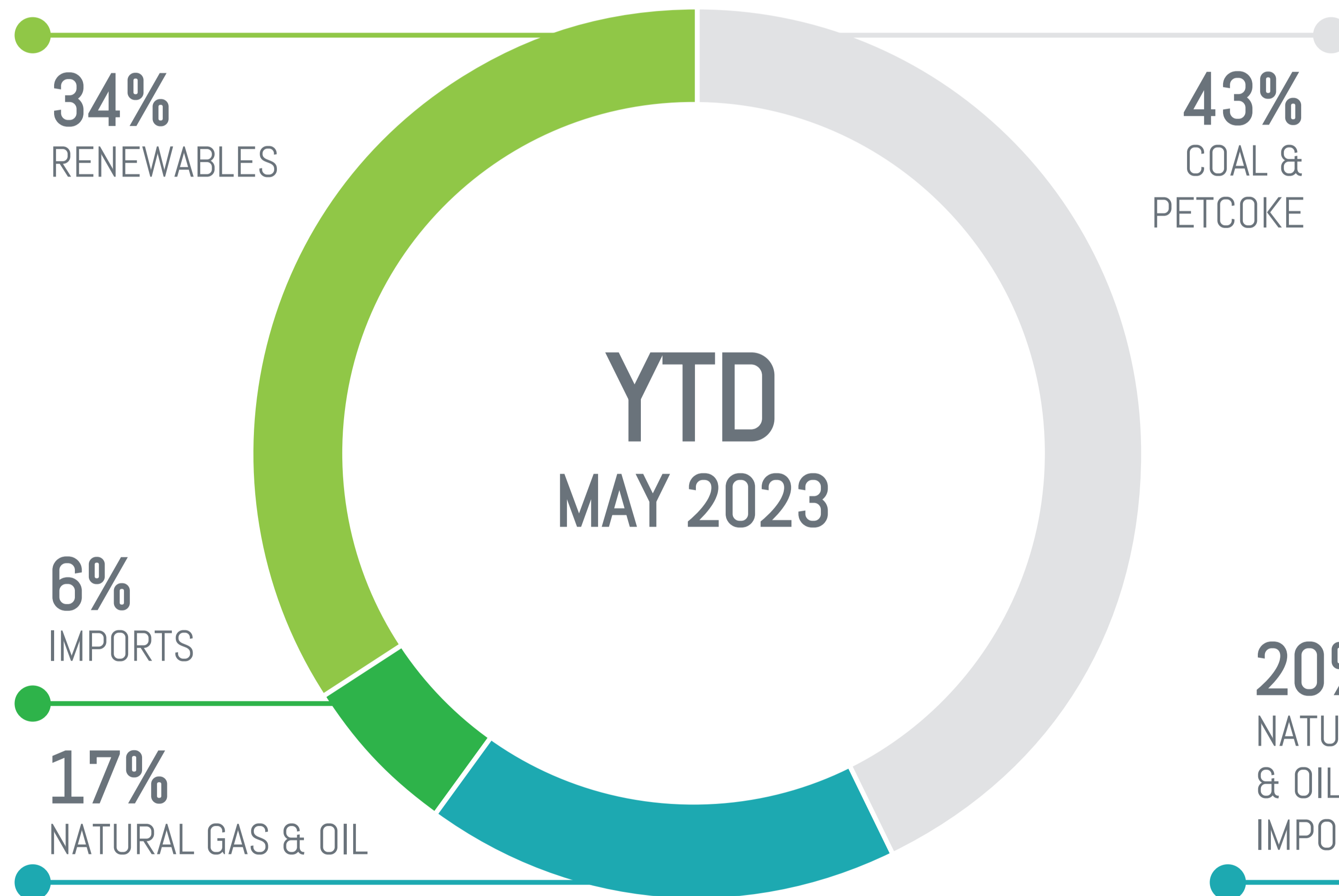
Various factors are considered during project development including:

- Wind resource
- Electrical infrastructure - transmission and distribution lines
- Environmental constraints – wetlands and water courses, wildlife
- Noise considerations and shadow flicker
- Archaeological and cultural features
- Mi'kmaq environmental knowledge study (MEKS)
- Municipal Bylaws, land use order guidelines and setbacks
- Community input and other interested stakeholders and agencies
- Transportation infrastructure - highways, roads, railways

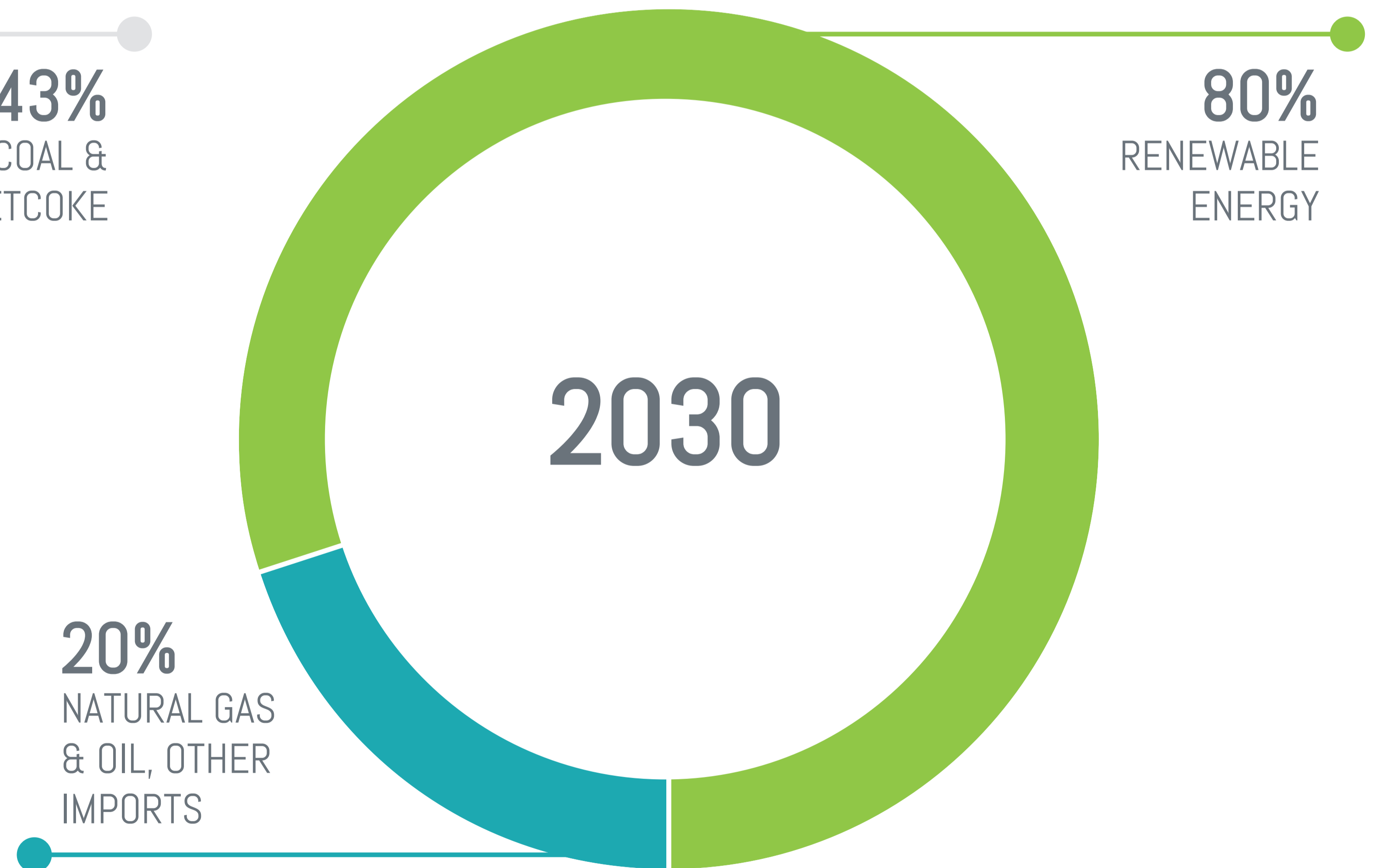


# NOVA SCOTIA'S CURRENT ENERGY MIX

## WHERE YOUR ENERGY COMES FROM NOW



## WHERE WE'RE HEADED





# COMMUNITY CONTRIBUTIONS

Wind Strength, EverWind and RES seek to be a good corporate citizens in the community and typically supports various fundraising events and special initiatives that benefit the local community

## Examples of activities or organizations we have supported:

- Economic development
- Local charities
- Local sports teams
- Museums and libraries
- Agricultural associations
- ...and many more!

Do you have an idea of ways we can support your community?  
**Let us know!**





# CONCLUSION



# Thank you.

We appreciate you taking the time to join us. We would be happy to follow-up with you if you have any other questions about the Project. Please fill out a feedback form.

