

## APPENDIX M

### COMMUNITY ENGAGEMENT

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# Project Benefits



## THE FUTURE IS GREEN

- **Provincial Energy Independence** – This project will be one of many steps to fulfill Nova Scotia's goal of 40% renewable sources by 2020.
- **Local Electricity Generation** – Nearly all the electricity generated by the project will be consumed locally with minimal upgrades to the existing electrical grid infrastructure.
- **Making the Local Price of Electricity More Stable** – All the electricity will be produced at a fixed price for the next 20 years and when combined with other wind projects, will reduce future increases in the price of electricity.

## INVESTING IN LOCAL COMMUNITIES

- **Local Community Education** – Once constructed, the project will fund The Millbrook Community Renewable Education Program. This program will be managed by a local committee and provide an annual scholarship for members of the local community who want to expand their education in an undergraduate or postgraduate field related to renewable energy or sustainability.
- **Local Community Investment and Economic Development** – Nova Scotia based companies will provide project development services such as environmental consulting, long-term management, construction, and website development.



## YOUR INPUT IS IMPORTANT TO US ...

Your comments and feedback on the proposed wind project are important to us. For additional information please visit the project website [www.millbrookwindfarm.ca](http://www.millbrookwindfarm.ca) or email us at [info@millbrookwindfarm.ca](mailto:info@millbrookwindfarm.ca)

... **THANK YOU FOR COMING!**

# MILLBROOK COMMUNITY WIND



*Local Economic Development, Part of a Global Solution.*

## PROJECT DESCRIPTION

**Millbrook Community Wind** is a proposed wind energy generation facility located on private land, approximately 5 km southwest of Truro, Nova Scotia. In early 2012, the project received approval under the Nova Scotia Department of Energy's Community Feed-In-Tariff program to proceed with development, which will occur over the next few years. The project will require a full Environmental Assessment to ensure it is developed in a manner fitting of the biological and cultural surroundings. Once constructed, the project will likely consist of two to three wind turbines capable of generating approximately 6 megawatts of energy. This is enough energy to power more than 1,800 Nova Scotia homes with stable, local, renewable energy.



## MEET YOUR TEAM



**Millbrook First Nation** is the lead proponent and majority owner of the project. Millbrook First Nation will be instrumental in ensuring the project is compatible with the local community and cultural surrounding and will help the team maximize local economic benefits through job creation and the utilization of local contractors.



**Community Wind Farms** is the local project developer and will be responsible for all day to day development, community relations, and permitting work associated with the project. Community Wind Farms is working with municipalities, First Nations, community groups and landowners across Nova Scotia to develop a portfolio of wind farms under the Community Feed-In Tariff (COMFIT) program introduced by the Nova Scotia Department of Energy.



**juwi Wind Canada's** role will be to lead technical aspects of wind project development, to fund early development activities, and to be the lead arranger in project financing and construction. The juwi Group has an extensive track record of completing community based projects with local investment opportunities, as well as turnkey projects for local municipalities and co-operatives.



# ASSESSMENT AND DEVELOPMENT

- Baseline studies are ongoing to determine and mitigate any effects of the project on the environment and local interests.
- Public consultation is an integral part of this process.
- Provincial and federal government stakeholders will also have an opportunity to review the Environmental Assessment and provide comments.

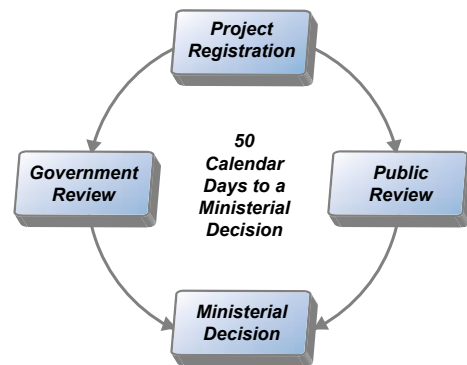


Fig. 1 - Regulatory Review Process

## Baseline studies will include:

- Birds, Bats and General Wildlife
- Plants and Wetlands
- Watercourses and Fish Habitat
- Groundwater and Geology
- Sound and Shadow Flicker
- Visual Aesthetics
- Cultural and Heritage Resources
- Socio-economic Conditions
- Mi'kmaq Ecological Knowledge Study

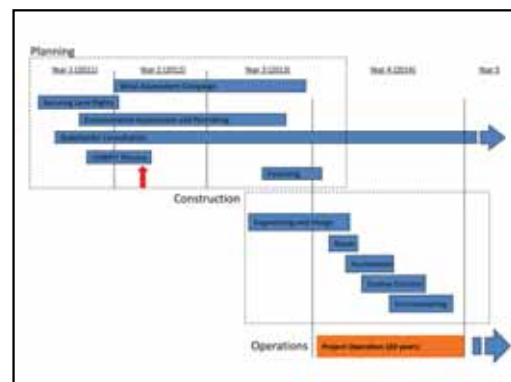


Fig. 2 - Project Timeline

# Wind Farm Viewscape



Photo 1  
Looking southwest at the project site.  
Photo location: Tideview Drive

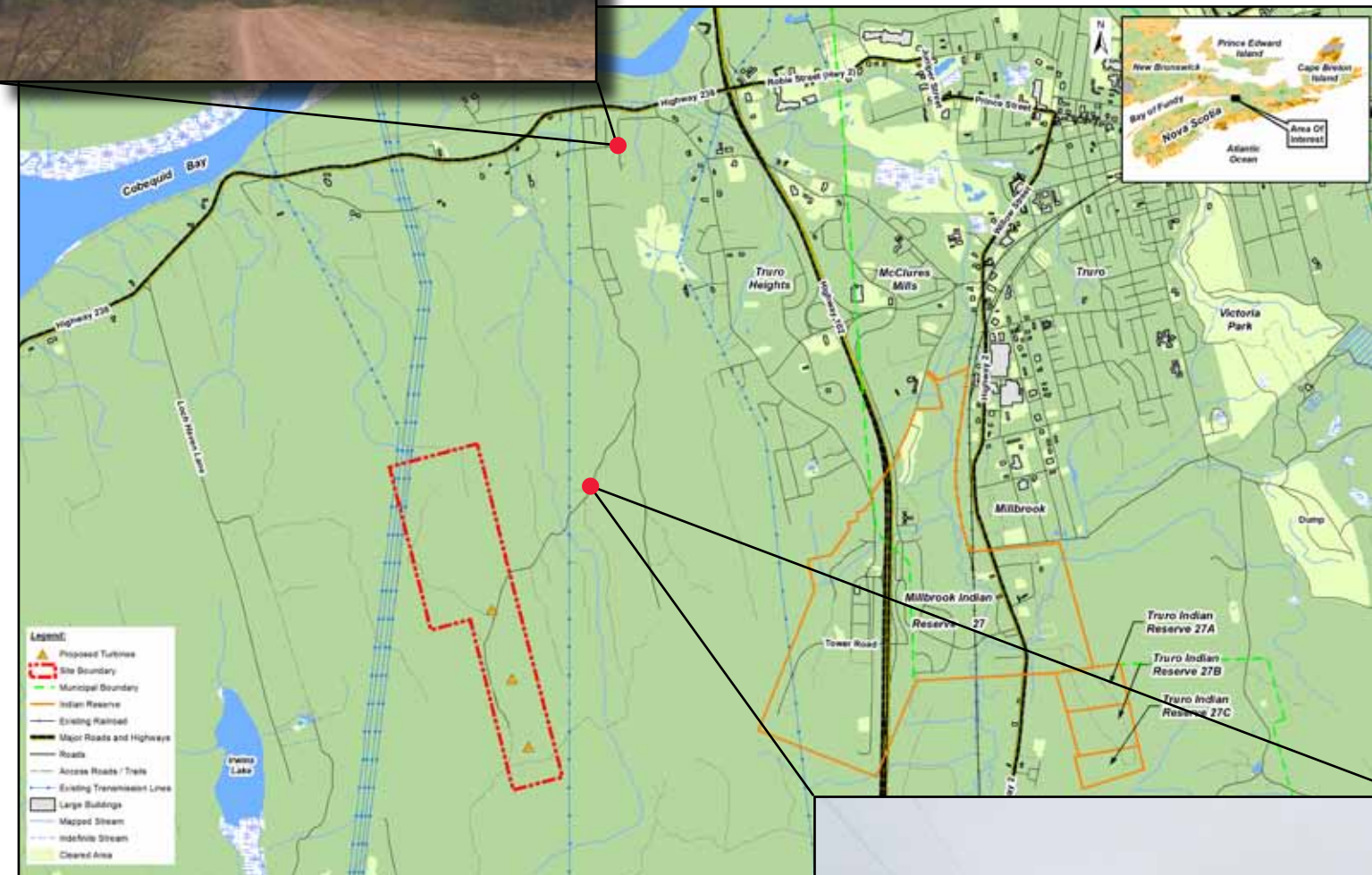


Photo 2  
Looking southwest at the project site.  
Photo location: Just northeast of the  
junction of Kent Road (west branch)  
and the power line right of way.

# FACTS ABOUT SOUND AND SHADOW FLICKER

- You can stand below a wind turbine and carry on a normal conversation.
- Wind turbines have an aerodynamic blade design and sound-proofed generator enclosures.
- A sound analysis is currently in progress for the project using guidelines developed by the Ontario Ministry of the Environment. Results will be presented in the Environmental Assessment Registration Document.
- All turbines for the project will be located a minimum of **1800 m** from any residence or unidentified building.

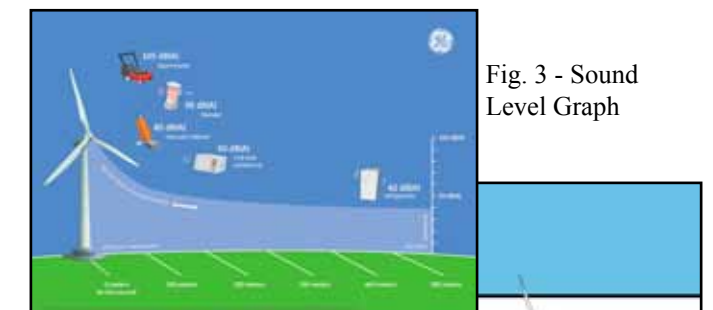


Fig. 3 - Sound Level Graph



Fig. 4 - Shadow Flicker Schematic

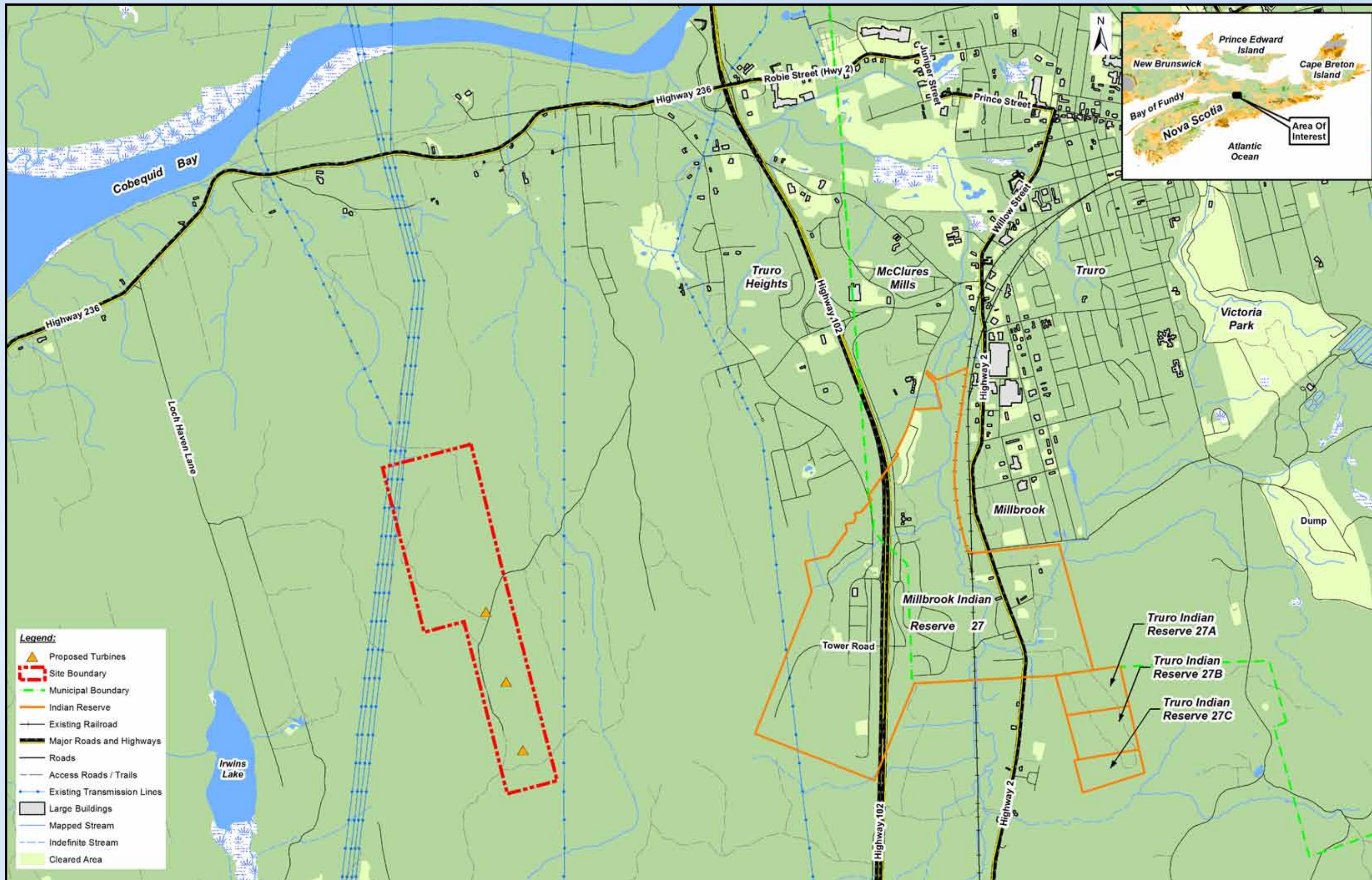
- Shadow flicker occurs when rotating wind turbine blades cast shadows upon stationary objects.
- Shadow flicker only appears during very specific conditions:
  - The sun is shining and there is no cloud cover, fog, etc.
  - Windows of the residence have to directly face the wind turbine.
  - No obstructions (trees, hills, other structures) are in sight.
  - Turbine blades directly face toward or away from the sun.
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Your comments and feedback on the proposed wind project are important to us. Please ask questions and be sure to pick up a handout before you leave.

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*Community Wind Farms Inc.*

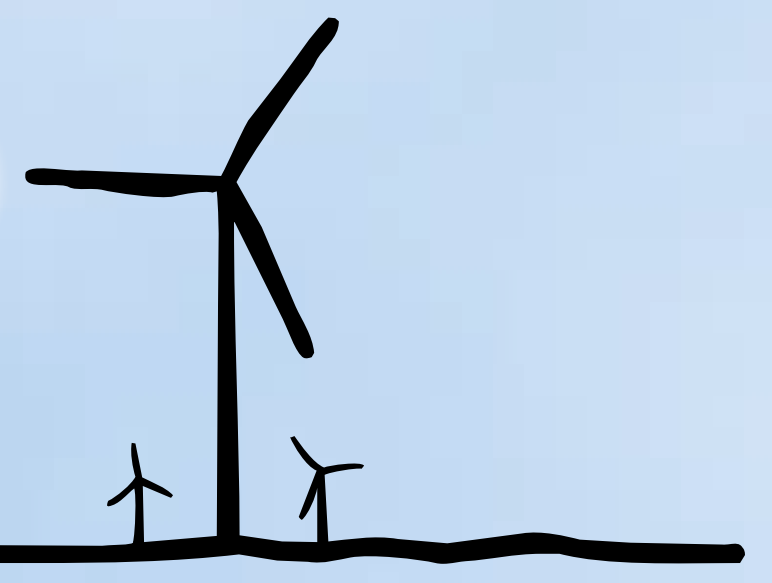
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**Questions? Please contact:**  
[info@millbrookwindfarm.ca](mailto:info@millbrookwindfarm.ca)

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## PROJECT BENEFITS

### INVESTING IN LOCAL COMMUNITIES

- **Local Community Education** – Once constructed, the project will fund The Millbrook Community Renewable Education Program. This program will be managed by a local committee and provide an annual scholarship for members of the local community who want to expand their education in an undergraduate or postgraduate field related to renewable energy or sustainability.



## THE FUTURE IS GREEN

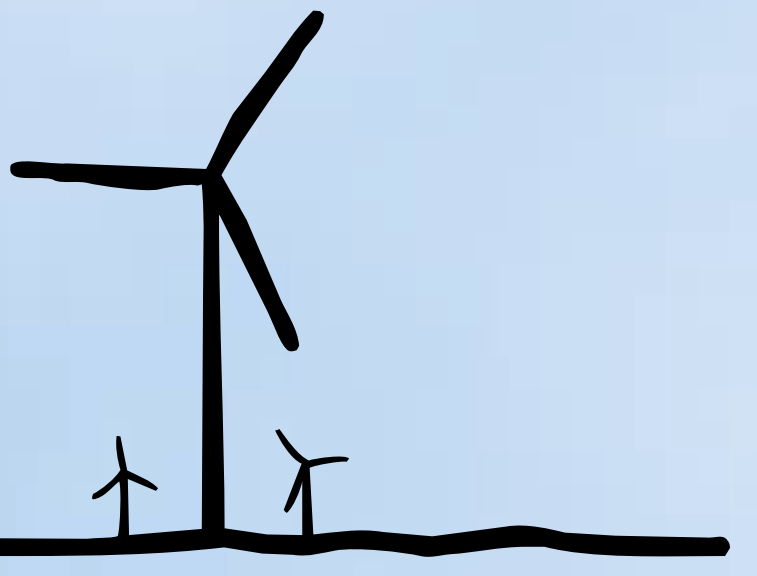
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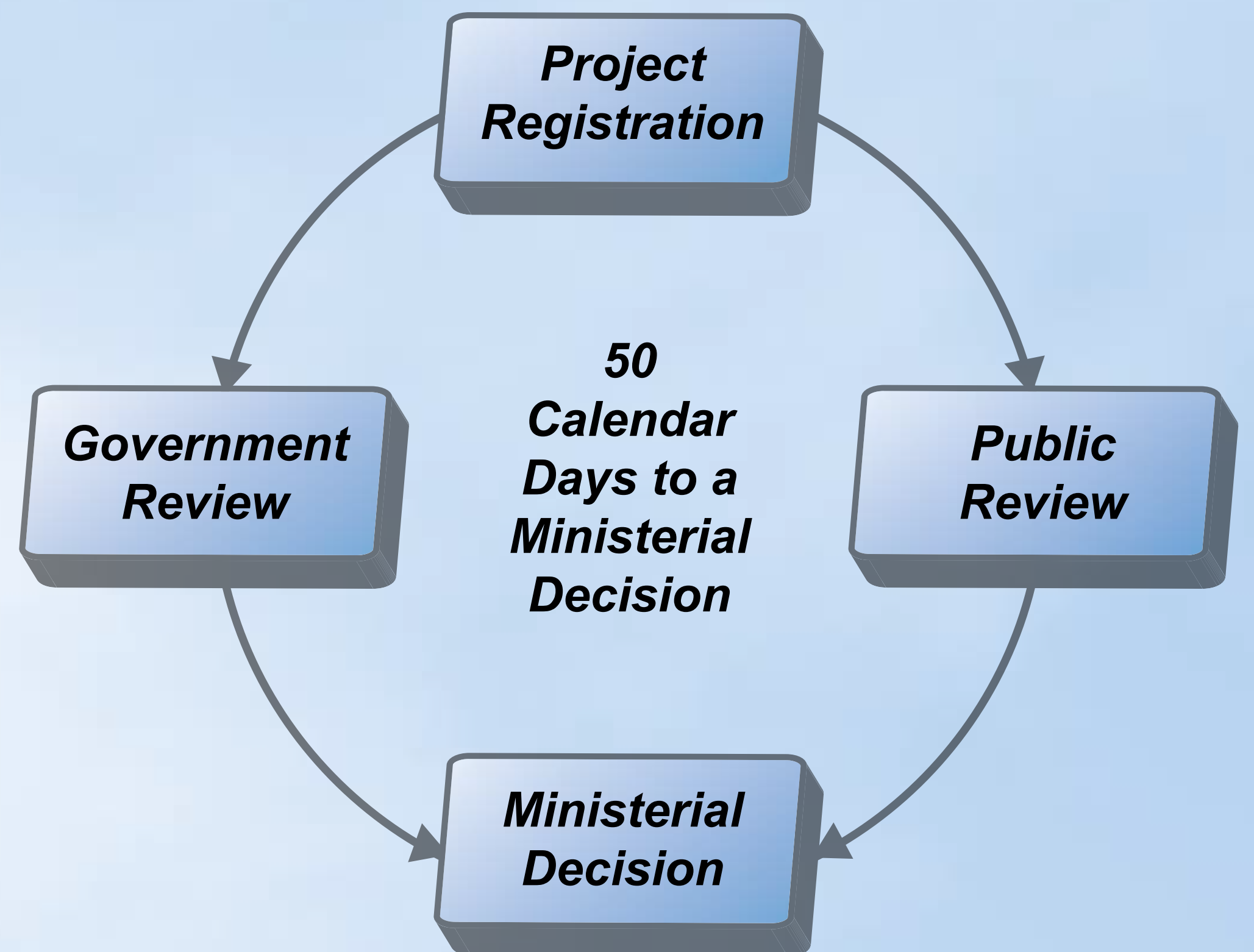


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## ASSESSMENT AND DEVELOPMENT

### ENVIRONMENTAL ASSESSMENT:

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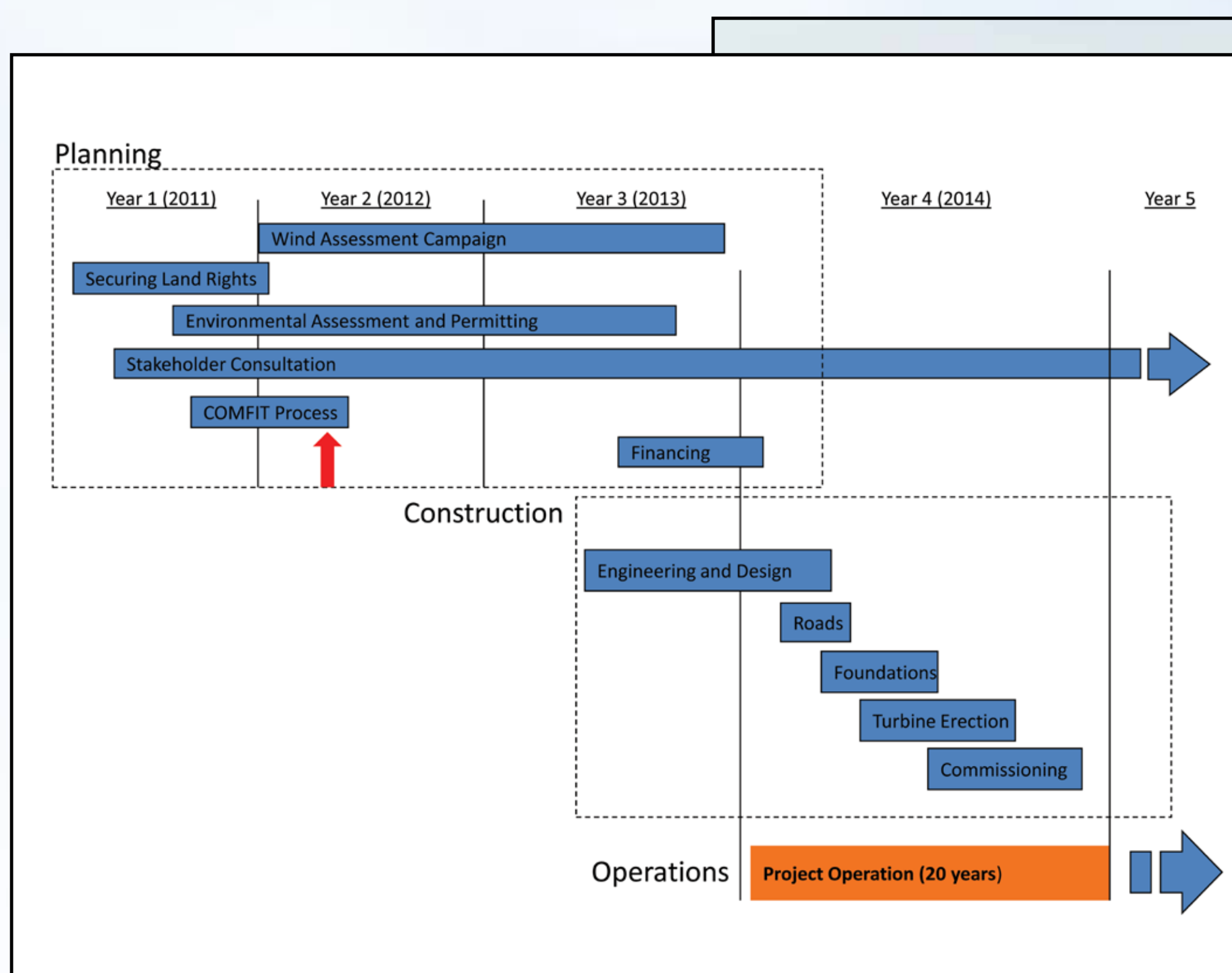


### BASELINE STUDIES:

- Birds, Bats and General Wildlife
- Plants and Wetlands
- Watercourses and Fish Habitat
- Groundwater and Geology
- Sound and Shadow Flicker
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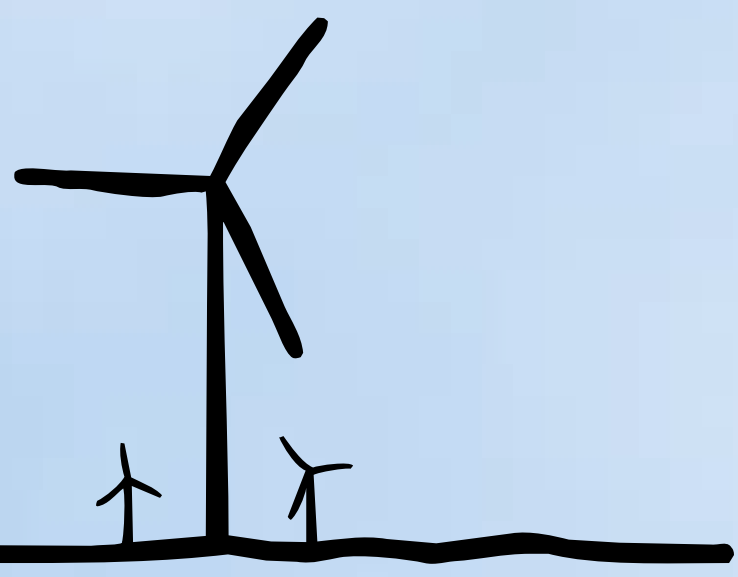


### DEVELOPMENT PROCESS:





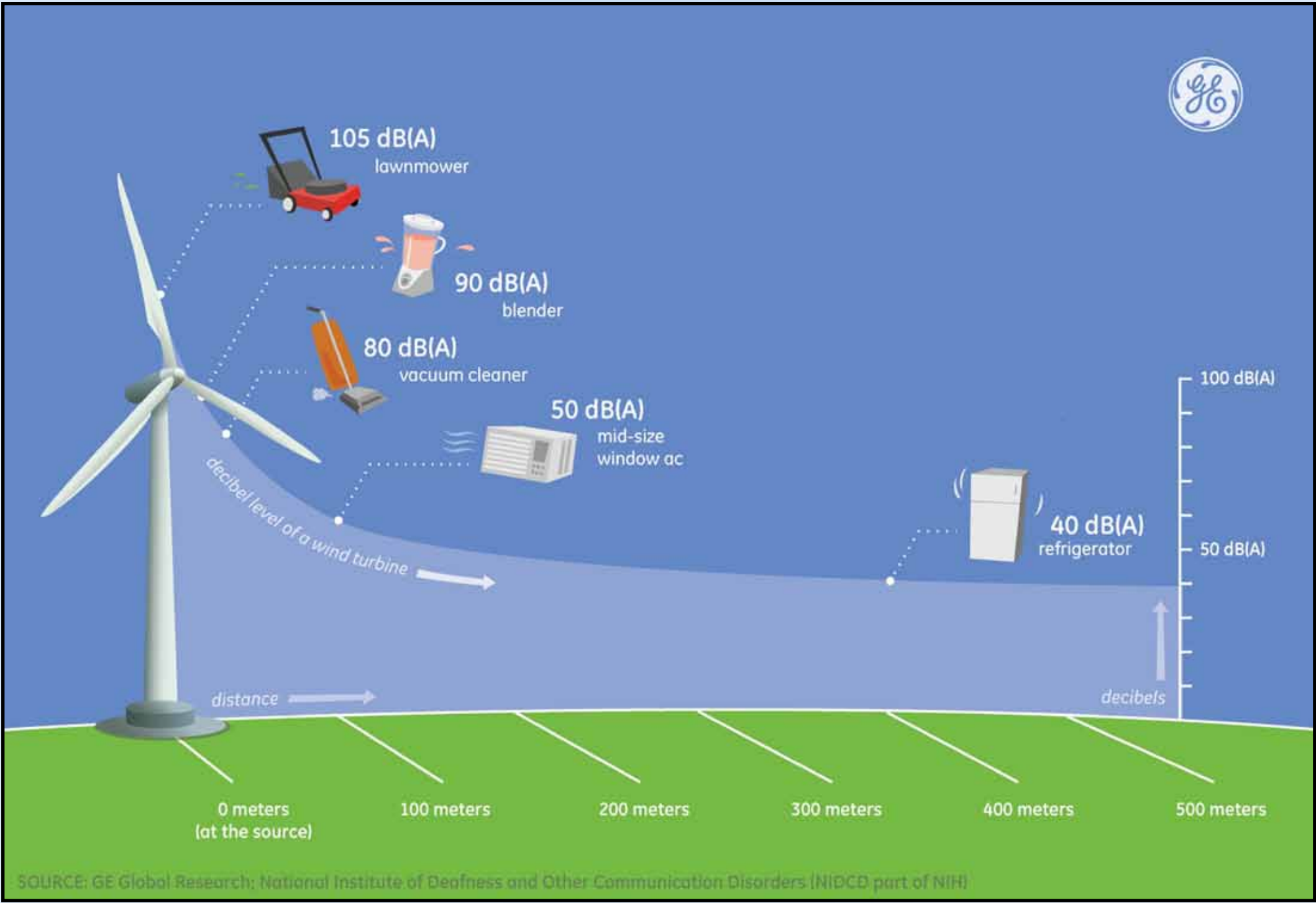
# MILLBROOK COMMUNITY WIND



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## FACTS ABOUT SOUND AND SHADOW FLICKER

### WIND TURBINE SOUND LEVELS ARE LOW ...



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- Wind turbines have an aerodynamic blade design and sound-proofed generator enclosures.
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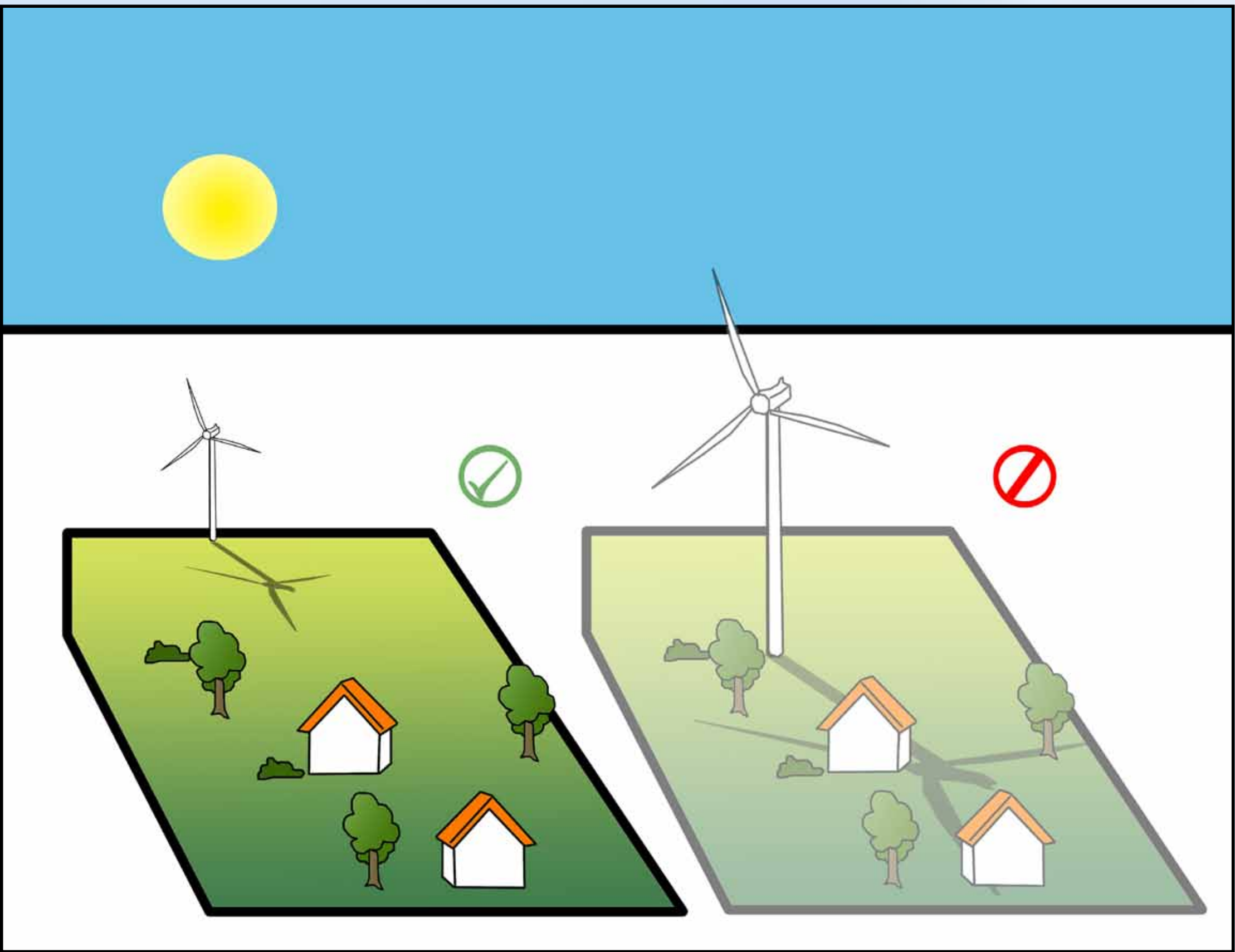
### TYPICAL SOUND PRESSURE LEVELS

Source	Distance from Source		Sound Pressure Levels in dB (A)
	feet	meters	
Freight Train	100	30	70
Freeway	100	30	70
Wind in Trees	40	12	55
Light Traffic	100	30	70
Average Home			50
Soft Whisper	5	2	30
Quiet Bedroom			20

Source: AWEA 2011

### SHADOWS ARE NOT TAKEN LIGHTLY ...

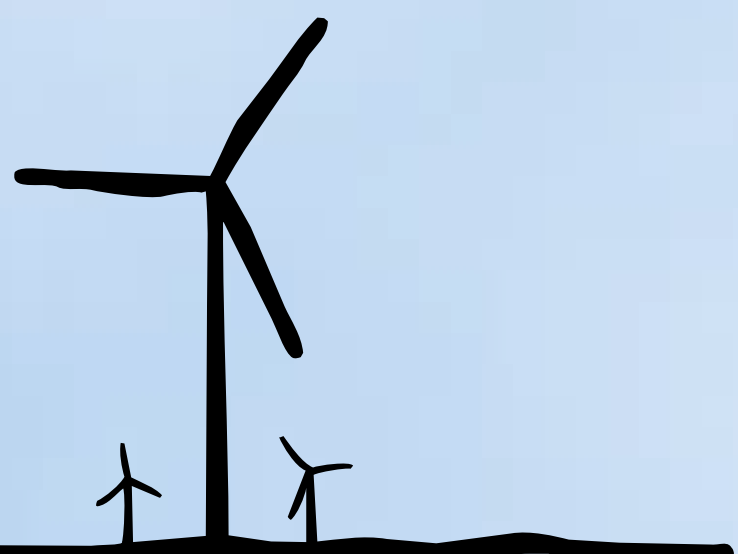
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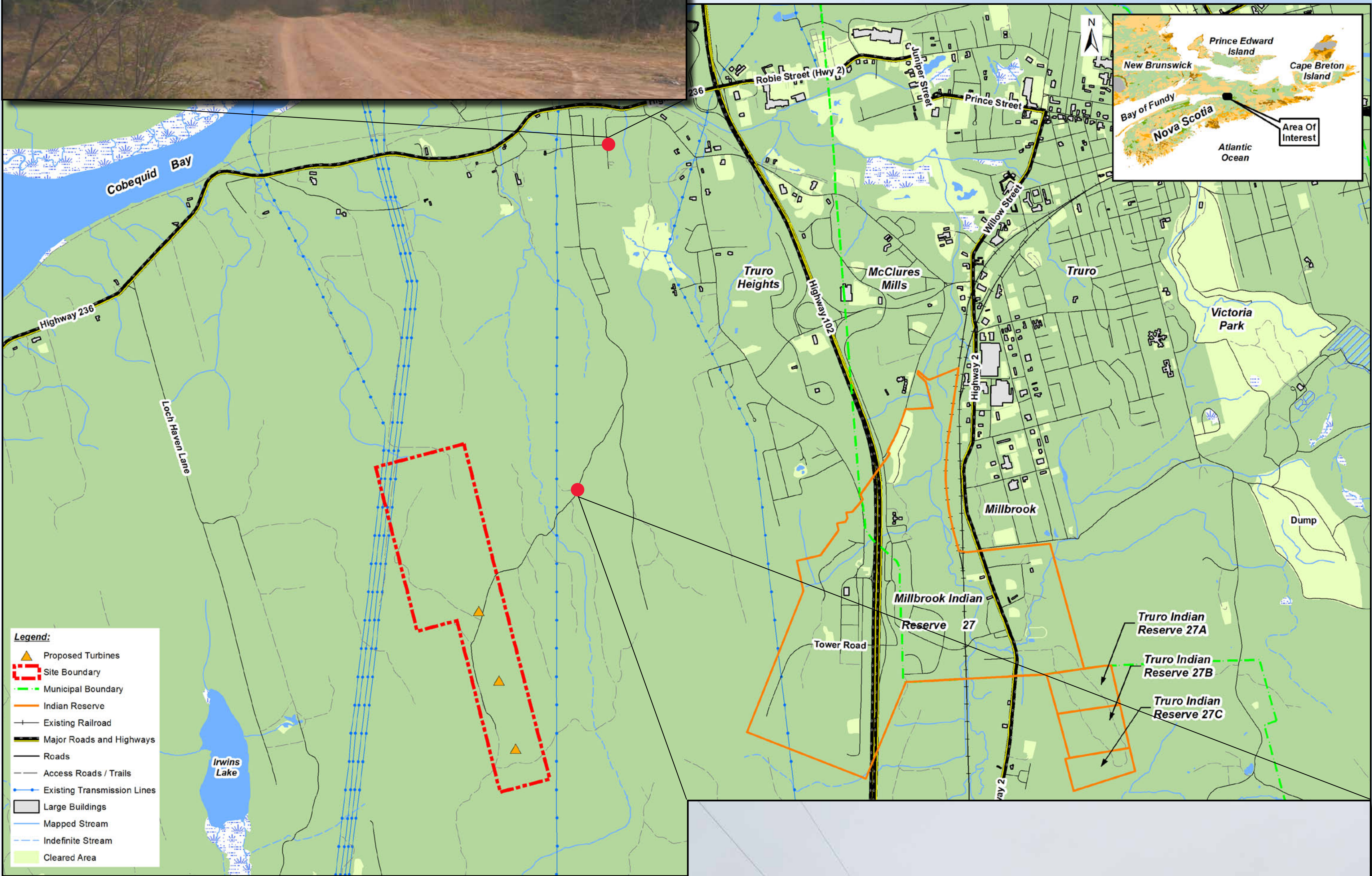


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## WIND FARM VIEWSCAPE



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*Looking southwest at the project site.*  
*Photo location: Tideview Drive*



*Photo 2*

*Looking southwest at the project site.*  
*Photo location: Just northeast of the*  
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*and the power line right of way.*





# **Community Wind Farms Inc.**

***.... working with communities across Atlantic Canada***



The Confederacy of Mainland Mi'kmaq (Main Office)  
PO Box 1590 (57 Martin Crescent, B2N 6N7)  
Truro, NS B2N 5V3

October 3, 2012

To whom it may concern,

We are writing to inform you of the on-going plans for the Millbrook/Truro Heights Community Wind Project located in the County of Colchester. We are currently proposing the development of a wind energy generation facility located close to the community of Hilden, approximately 6km southeast of the Town of Truro, in Colchester County, NS. The land is privately owned. The Project coordinates are 45°19'23"N, 63°20'30"W.

The Project will consist of five wind turbines generating a total capacity of 10.4 megawatts. The proposed turbines will be connected to the existing distribution system.

Currently, the Millbrook/Truro Heights Community Wind Project is in the assessment and planning stages. As part of the development process, an Environmental Assessment (EA) is being undertaken to determine and mitigate any effects of the Project on the environment and local interests. Baseline studies which will be conducted as part of the EA process consist of:

- Birds, bats, and general wildlife;
- Plants and wetlands;
- Watercourses and fish habitat;
- Groundwater and geology;
- Sound and shadow flicker;
- Visual aesthetics;
- Cultural and heritage resources;
- Socio-economic conditions and human health; and
- Mi'kmaq Ecological Knowledge Study.

Community engagement is an integral part of this process and all those interested in the Project are encouraged to become involved and provide feedback. We would like to invite members of the Mi'kmaq First Nations to participate. If you have any questions, suggestions, or concerns, feel free to contact the undersigned at (902) 527-3158 or by email at [keith@communitywind.ca](mailto:keith@communitywind.ca).

Sincerely yours,

Keith Towse  
Community Wind Farms Inc.



# ***Community Wind Farms Inc.***

***.... working with communities across Atlantic Canada***



Kwilmu'kw Maw-Klusuaqn Negotiation Office  
Attn: Consultation Liaison Officer  
851 Willow Street,  
Truro, B2N 6N8

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