



OPEN HOUSE #2

Wednesday, December 4, 2021

Overview

- Higgins Wind Farm LP is a partnership made up of Elemental Energy, Stevens Wind, and 3G Energy
- Higgins Wind Farm LP is developing the Higgins Mountain Wind Farm
- Government of Nova Scotia planning renewable energy procurement process planned for 2022
- Partners held introductory open house on October 5th, 2021 to share preliminary project plans and seek community feedback
- Based on feedback received from open house and project's CLC we made significant changes to the project design which we feel will fit better in the community
- Today we are here to share updated plans and have team members and our environmental consultant (Strum Consulting) present to answer questions

Project Representatives



Dan Eaton
Director of Development
Elemental Energy
Development Partner



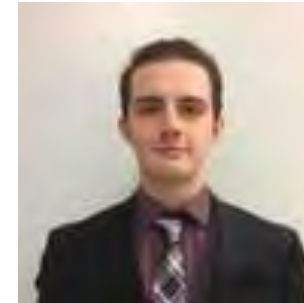
Paul Pynn
President
Stevens Wind
Development Partner



Maryam Baksh
Project Manager
Elemental Energy
Development Partner

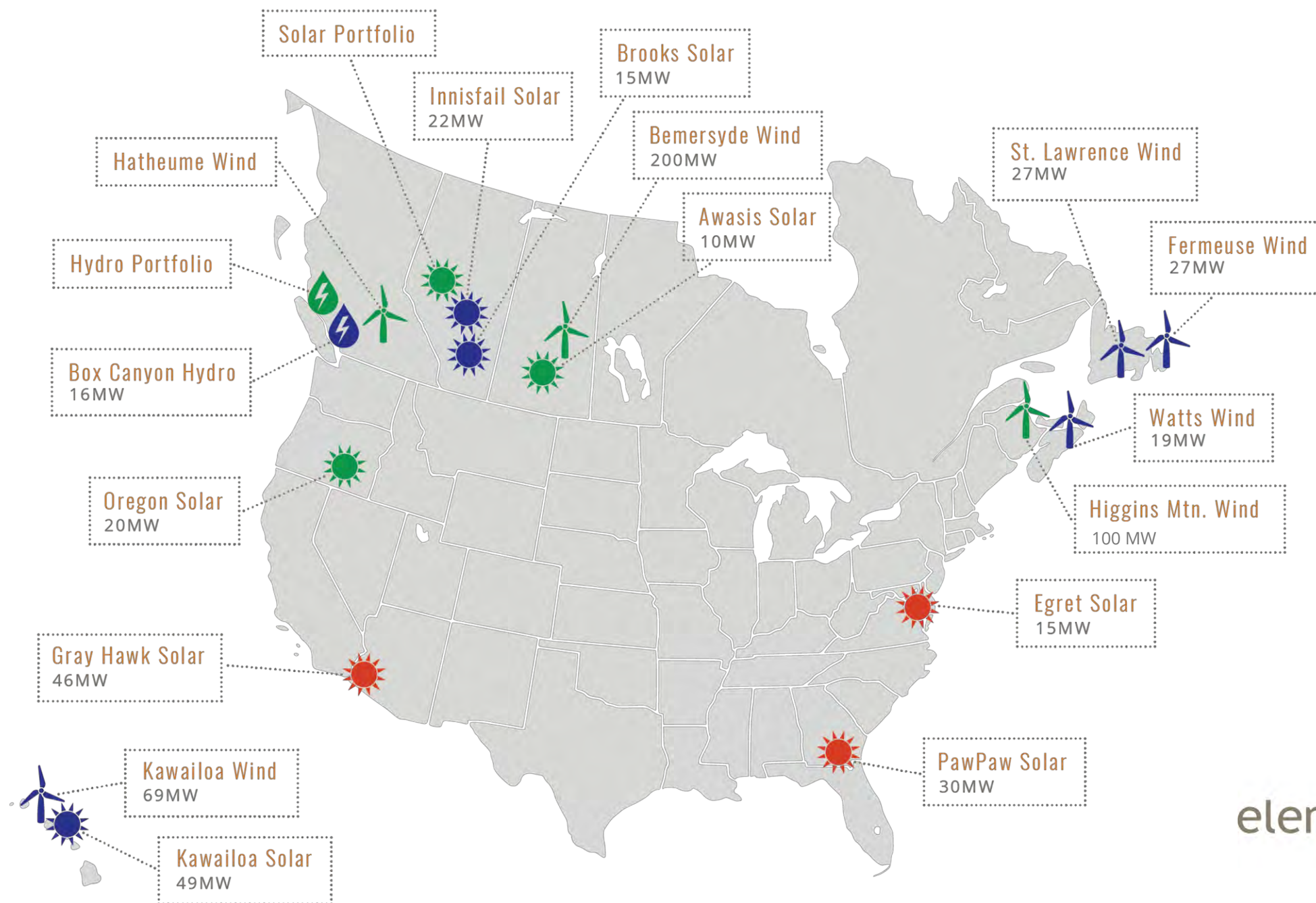


Shawn Duncan
President
Strum Consulting
Environmental Consultant



Angus Doane
Environmental Professional
Strum Consulting
Environmental Consultant

● Operating ● In Development ● Operating/Sold



Introductory Open House – Oct 2021

- **83** registered attendees (**100+** estimated)
- **18** feedback forms
- **~40** follow up emails/letters

What We Heard



Visual impacts: concerned about wind farm size and visibility from key viewpoints. Request for additional visual simulations.

Meeting time: several residents emphasized the weekday meeting timing posed challenging for seasonal residents.

Health and noise impacts: many residents had questions about potential health and noise impacts from wind farms.

Environmental impacts: concerned about impacts to flora and fauna from a standalone and cumulative perspective.

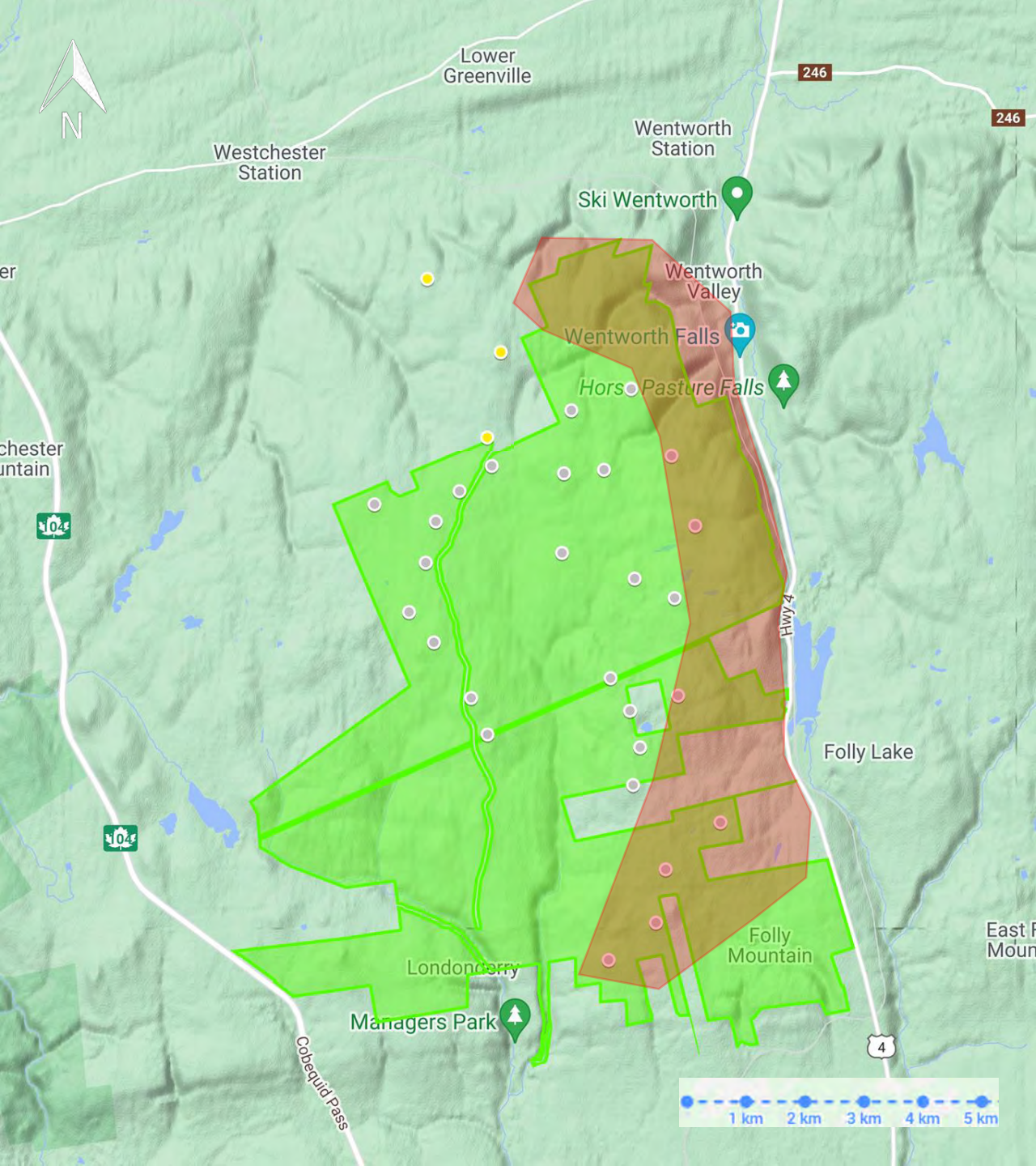
Telecommunication impacts: several residents had concerns about wind turbine impacts on interfering with internet service.

Recreation/tourism impacts: concerned about impacts on local recreation and tourism.

Support for wind energy: many residents voiced support for wind energy, including at Higgins, provided other concerns mitigated.

Updates Since Last Open House




- Reduced the layout from 150 MW (27 turbines) to 100 MW (18 turbines)
- Removed or relocated turbines with highest visual sensitivity
- These design compromises make the site less economically competitive but a better fit within the community
- Prepared additional information requested from the last Open House, including additional photos
- Today we are here to share updated plans with Project Representatives and Strum Consulting to answer questions

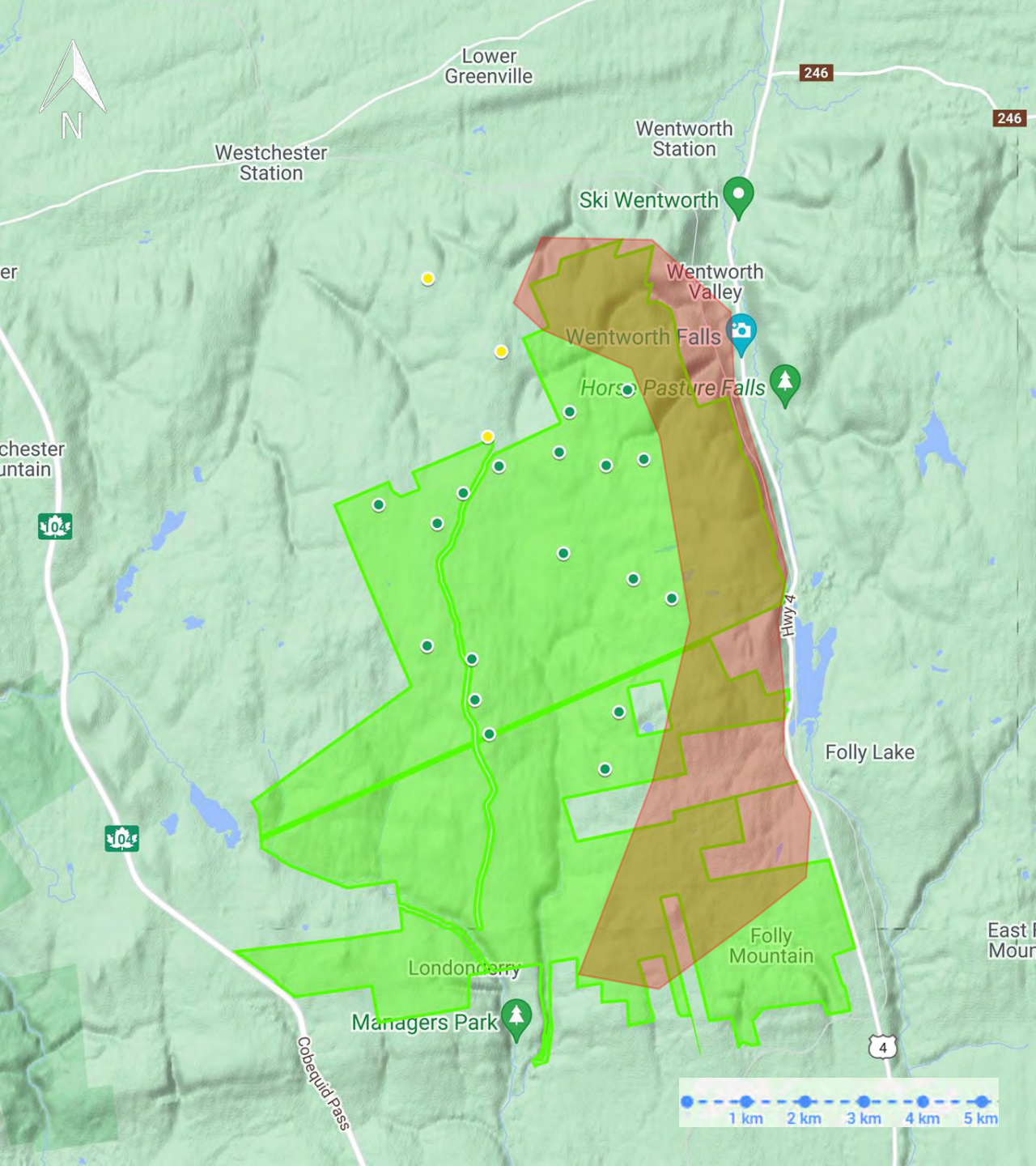


150 MW Layout

- Layout presented at the last Open House

Legend

-  Existing turbines
-  Previous turbines, 150 MW
-  Zone of visual impact

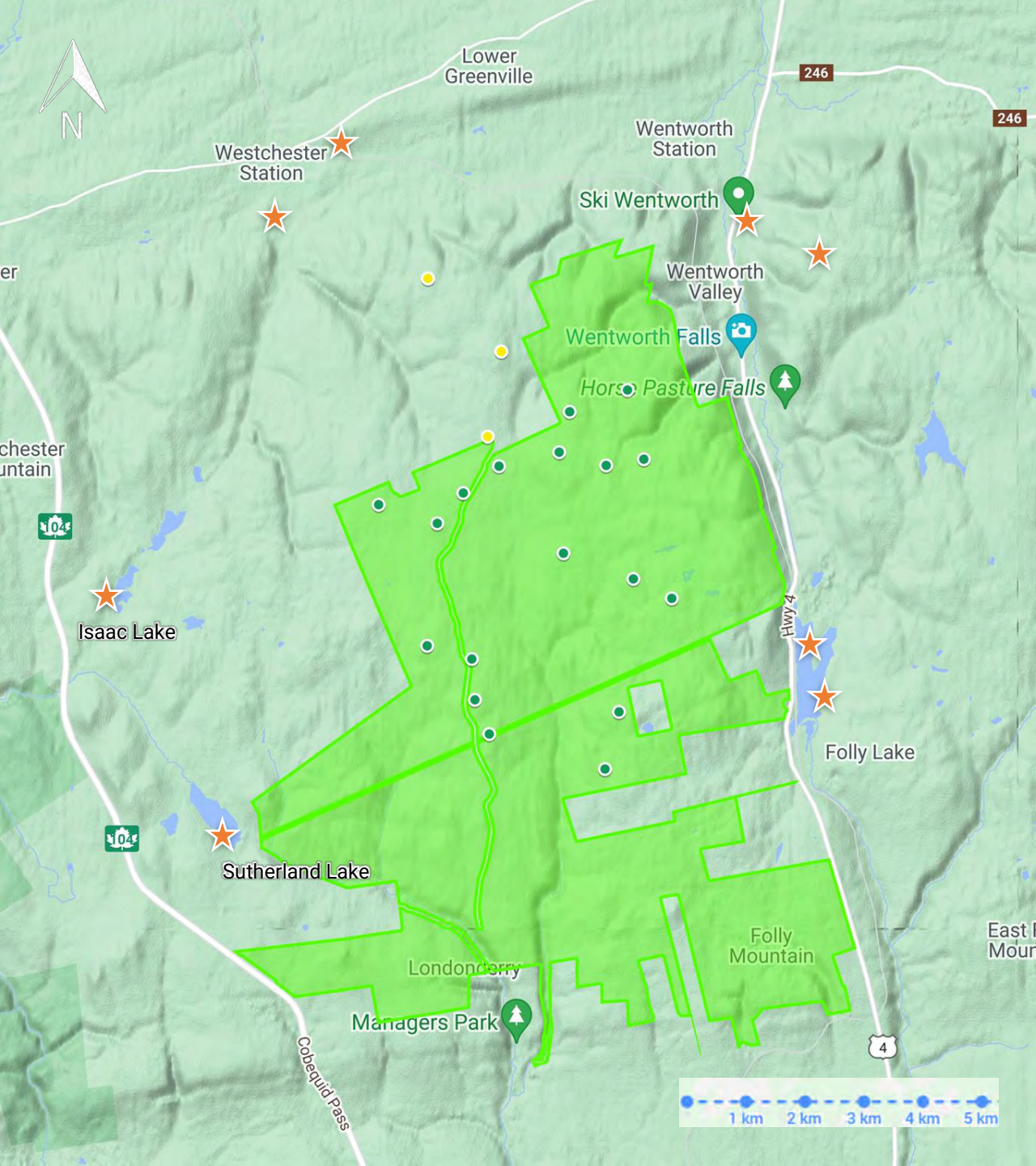


100 MW Proposed Layout

- Incorporating community feedback, we have developed a proposed 100 MW layout that significantly mitigates visual impacts from sensitive vantage points

Legend

- Existing turbines
- Proposed turbines, 100 MW
- Zone of visual impact



100 MW Proposed Layout

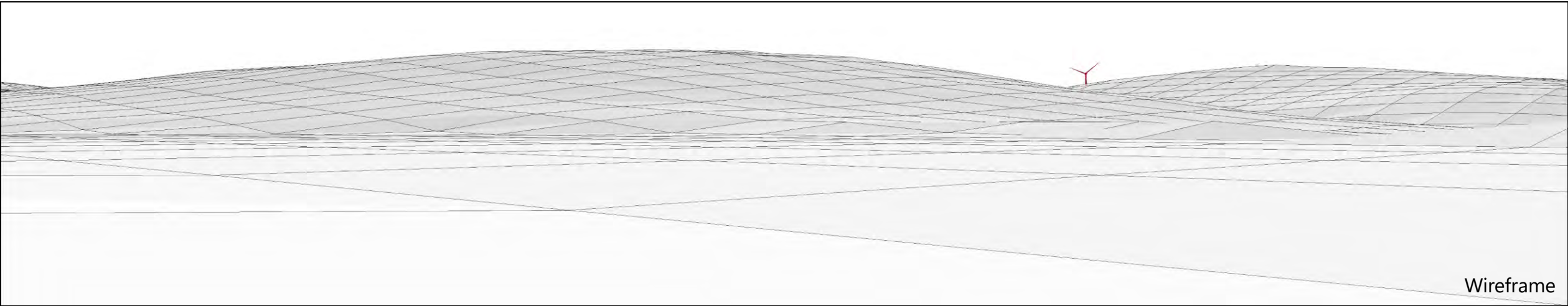
- Incorporating community feedback, we have developed a proposed 100 MW layout that significantly mitigates visual impacts from sensitive vantage points
- We prepared a number of visual simulations in locations requested by members of the community for viewing at this Open House

Legend

- Existing turbines
- Proposed turbines, 100 MW
- ★ Zone of visual impact



Visual Simulation



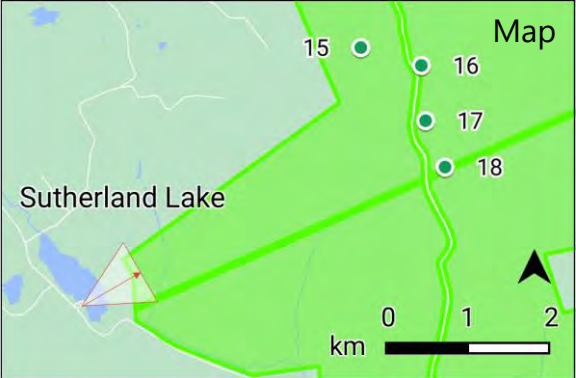
Wireframe



Location: Sutherland Lake, on
Westchester Rd
Layout: 100 MW
Nearest turbine: 4.9 km

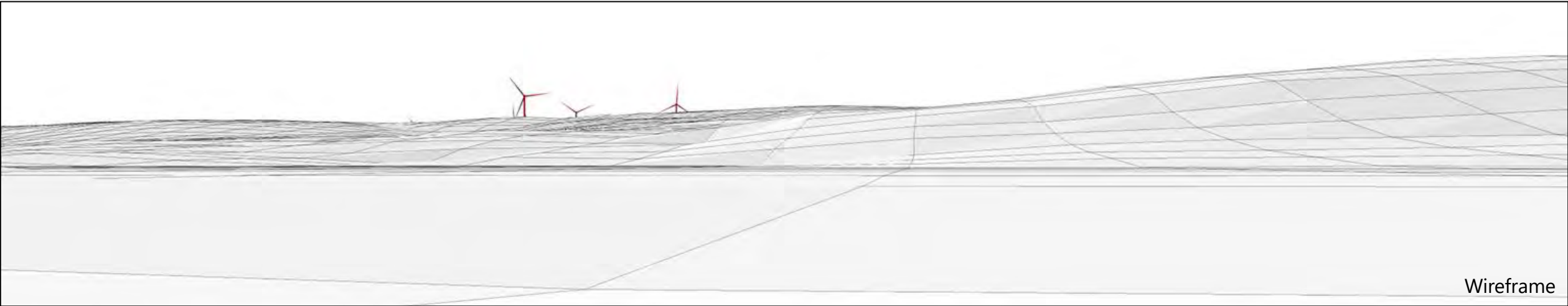
Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: October 4, 2021
Photo credit: Graham Findlay
Coordinates: 45.513, -63.675
Bearing: 60°





Visual Simulation



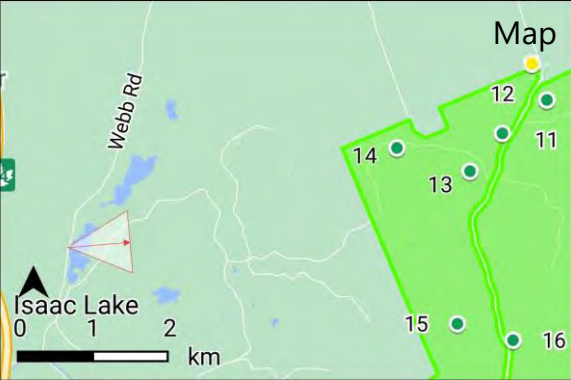
Wireframe



Location: Isaac Lake, on Webb Rd
Layout: 100 MW
Nearest turbine: 4.8 km

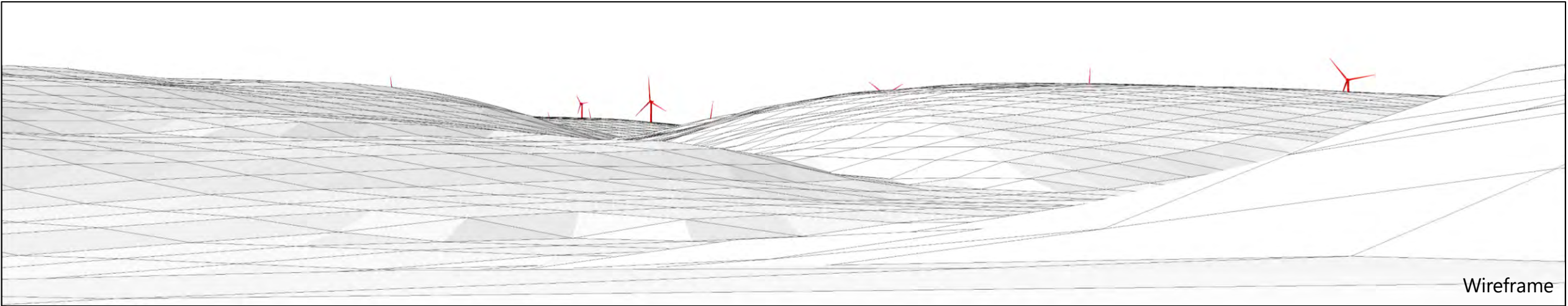
Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: October 4, 2021
Photo credit: Graham Findlay
Coordinates: 45.553, -63.699
Bearing: 85°





Visual Simulation



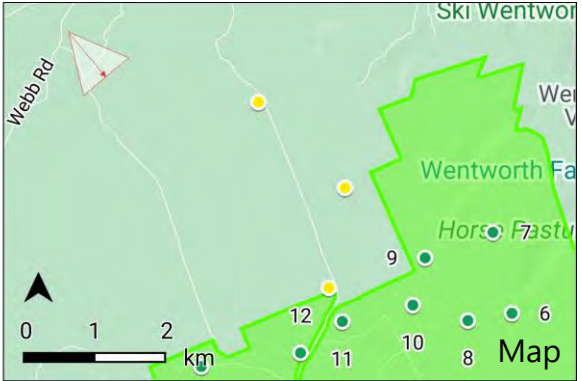
Wireframe

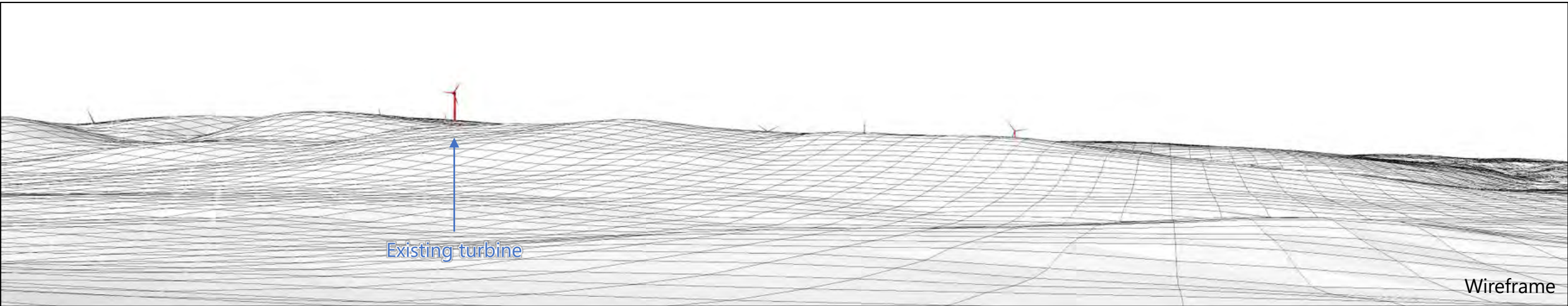


Location: Webb Rd, Westchester
Layout: 100 MW
Nearest turbine: 5.2 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: October 4, 2021
Photo credit: Graham Findlay
Coordinates: 45.609, -63.667
Bearing: 140°

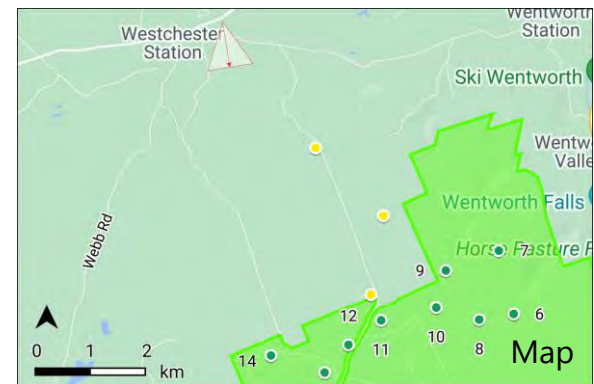


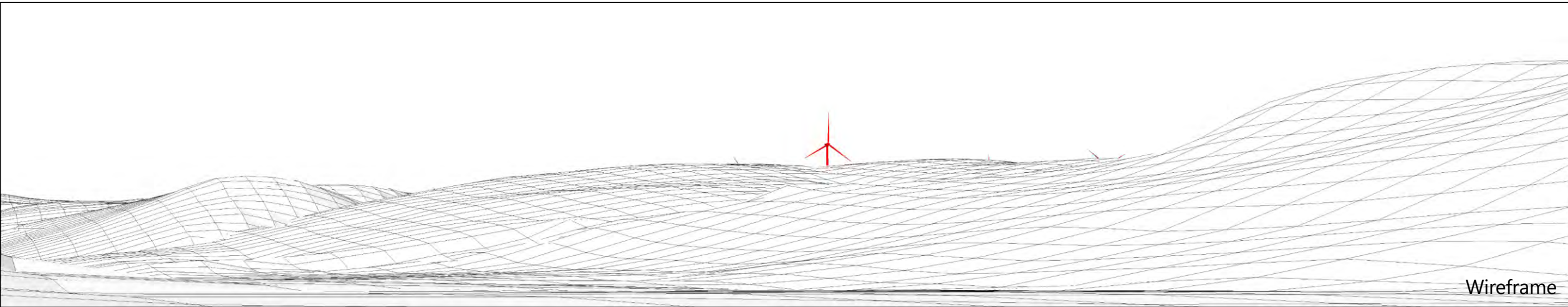


Location: Wentworth Collingwood Rd, east
of Westchester Station
Layout: 100 MW
Nearest turbine: 6.3 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: October 4, 2021
Photo credit: Graham Findlay
Coordinates: 45.622, -63.653
Bearing: 171°





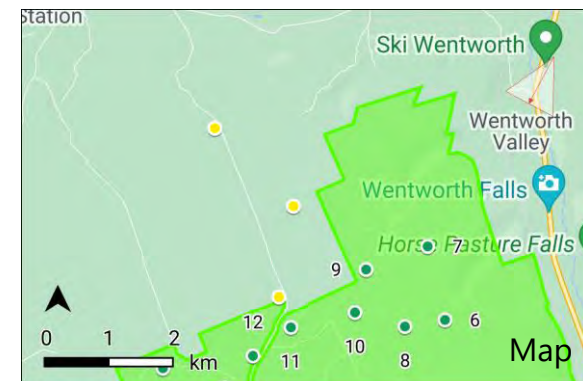
Higgins Mountain Wind Farm

Location: Ski Wentworth, patio
Layout: **100 MW**
Nearest turbine: 3.5 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

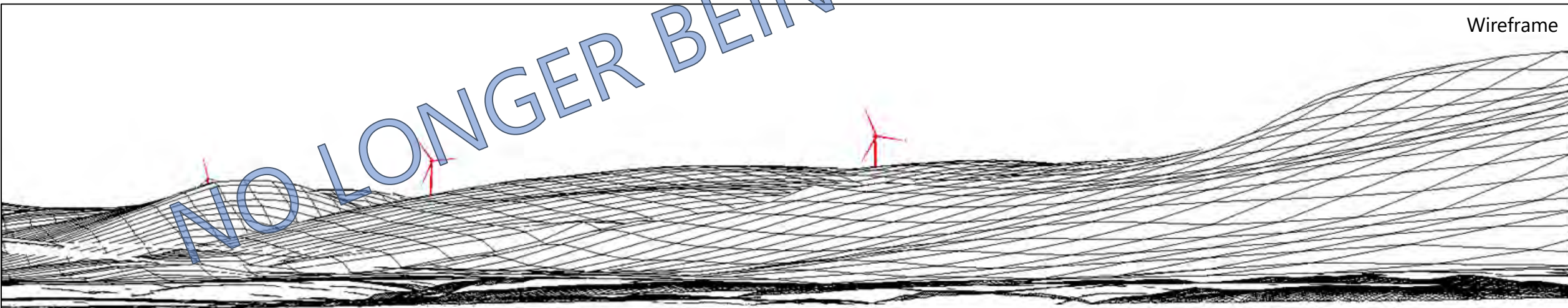
Date of photo: October 4, 2021
Photo credit: Graham Findlay
Coordinates: 45.609, -63.562
Bearing: 208.5°

Notes: Less visible turbines than 150 MW layout





Visual Simulation



Wireframe

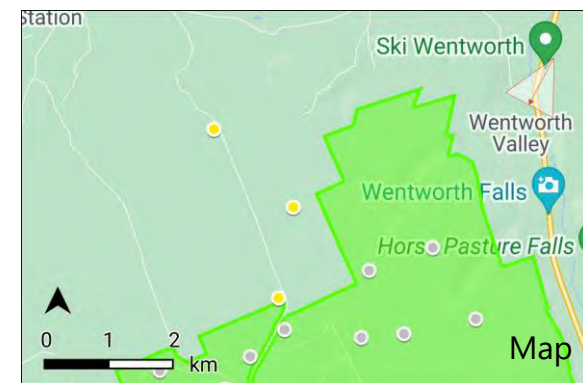


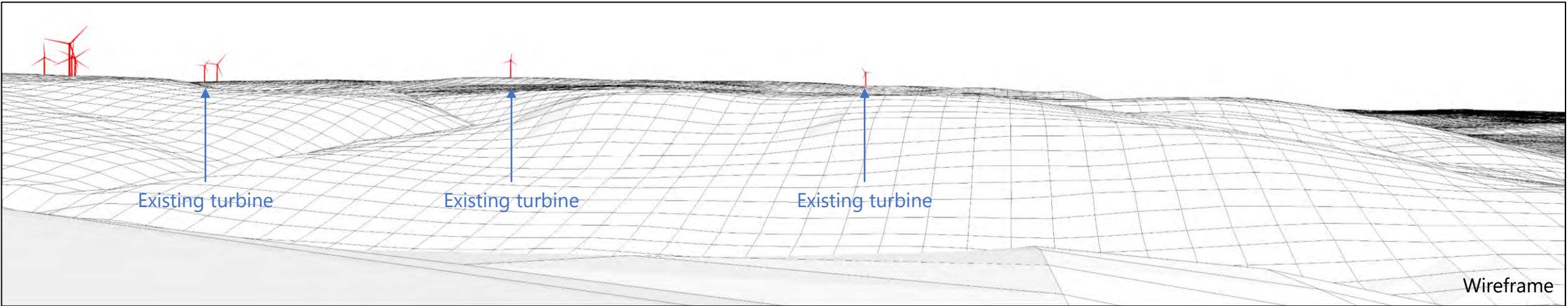
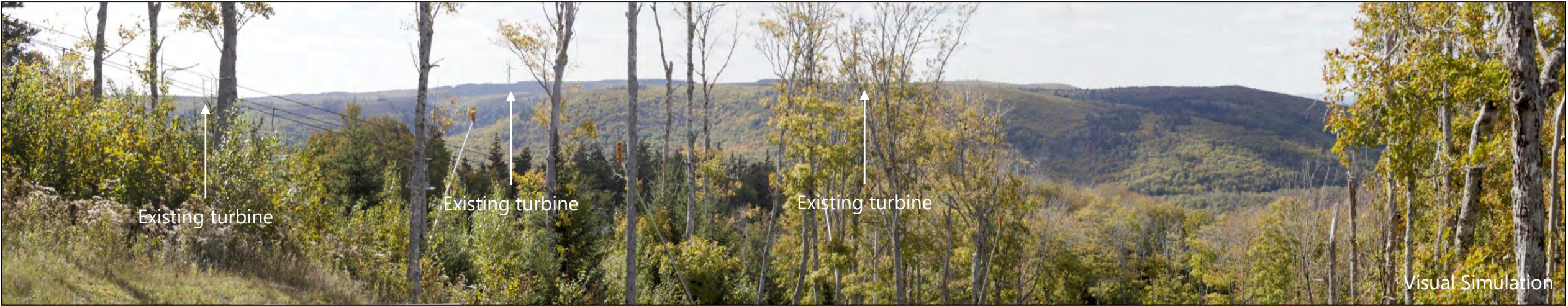
Location: Ski Wentworth, patio
Layout: **150 MW**
Nearest turbine: 3.4 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: October 4, 2021
Photo credit: Graham Findlay
Coordinates: 45.609, -63.562
Bearing: 208.5°

Notes: **This layout is no longer being considered.** Noticeable turbine reduction in 100 MW layout.



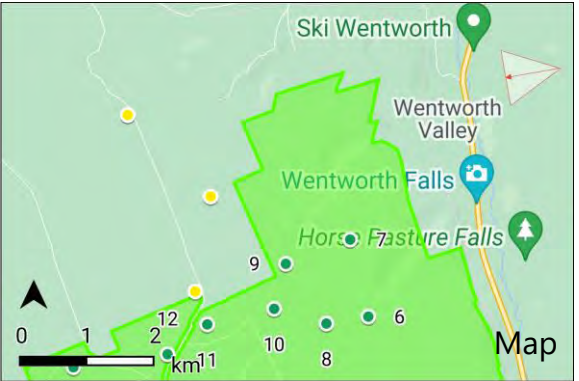


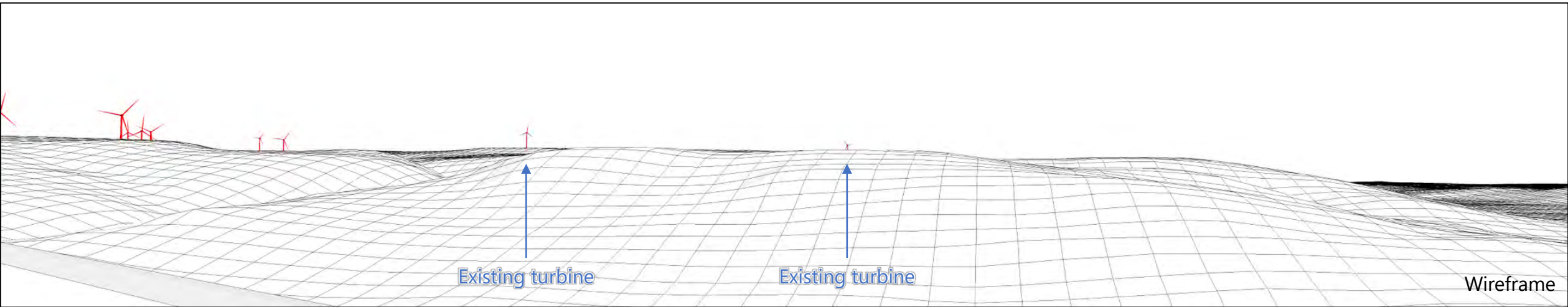
Location: Ski Wentworth, near top of slope
Layout: 100 MW
Nearest turbine: 3.9 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: October 4, 2021
Photo credit: Graham Findlay
Coordinates: 45.607, -63.550
Bearing: 260°

Notes: Some turbines are blocked by foliage in the visual simulation





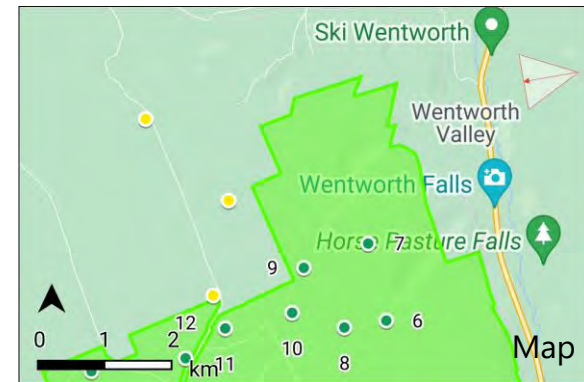

Higgins Mountain Wind Farm

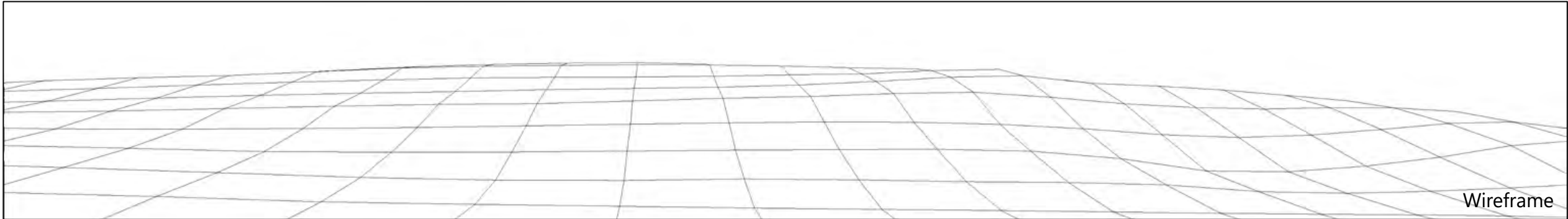
Location: Ski Wentworth, near chairlift
 Layout: 100 MW
 Nearest turbine: 3.9 km

Turbine model: Enercon E-160, 5.5 MW
 Turbine hub height: 110 m
 Turbine tip height: 190 m
 Turbine rotor diameter: 160 m

Date of photo: October 4, 2021
 Photo credit: Graham Findlay
 Coordinates: 45.607, -63.553
 Bearing: 260°

Notes: Some turbines are blocked by foliage in the visual simulation





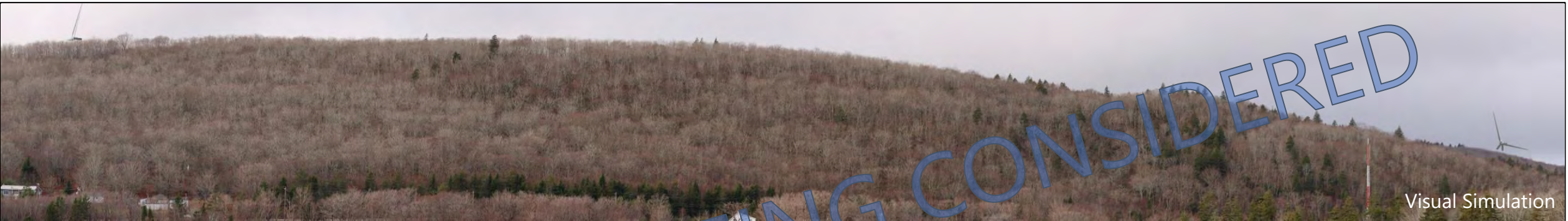
Location: Folly Lake, Peninsula Dr near ridge, looking northwest
Layout: **100 MW**
Nearest turbine: 2.5 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: November 27, 2021
Photo credit: Maryam Baksh
Coordinates: 45.545, -63.545
Bearing: 285°

Notes: **No turbines visible**





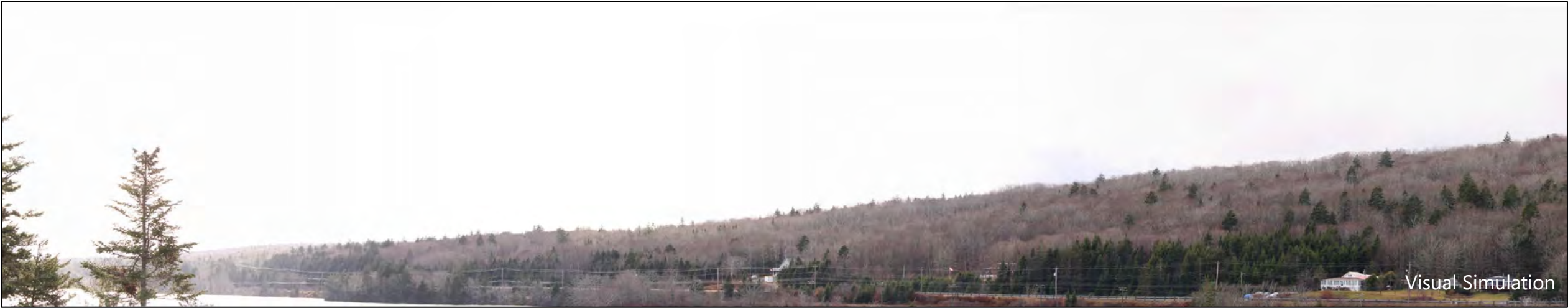
Location: Folly Lake, Peninsula Dr near ridge, looking northwest
Layout: **150 MW**
Nearest turbine: 2.4 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

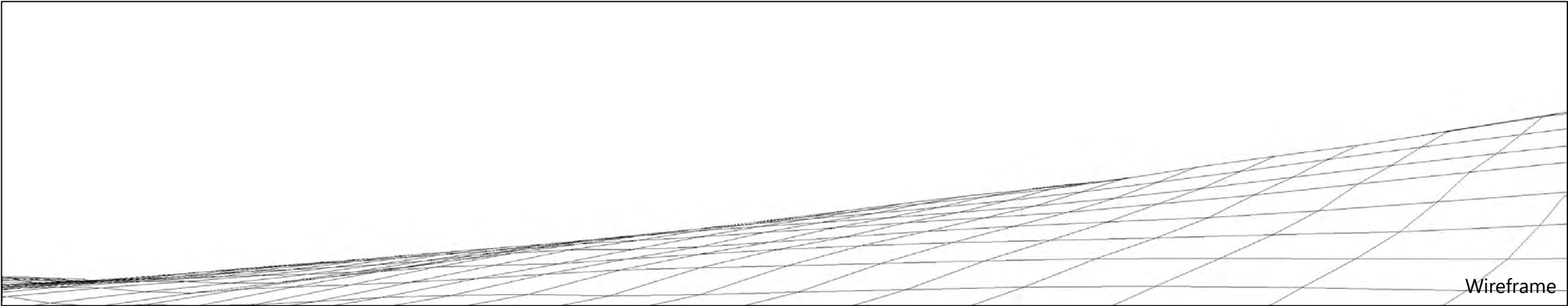
Date of photo: November 27, 2021
Photo credit: Maryam Baksh
Coordinates: 45.545, -63.545
Bearing: 285°

Notes: **This layout is no longer being considered**





Visual Simulation



Wireframe

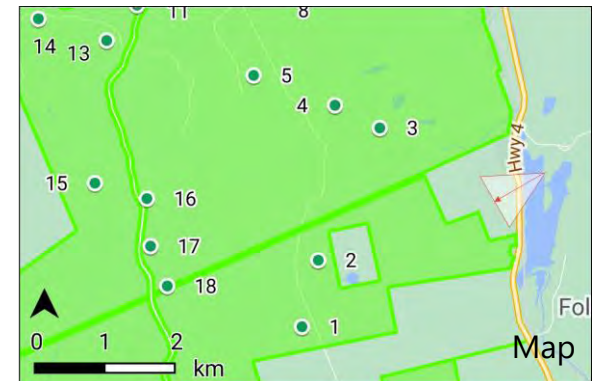


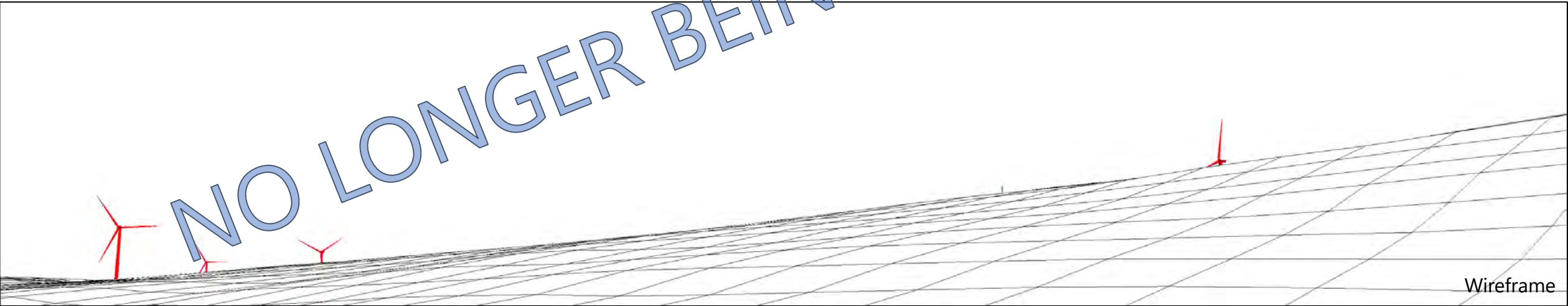
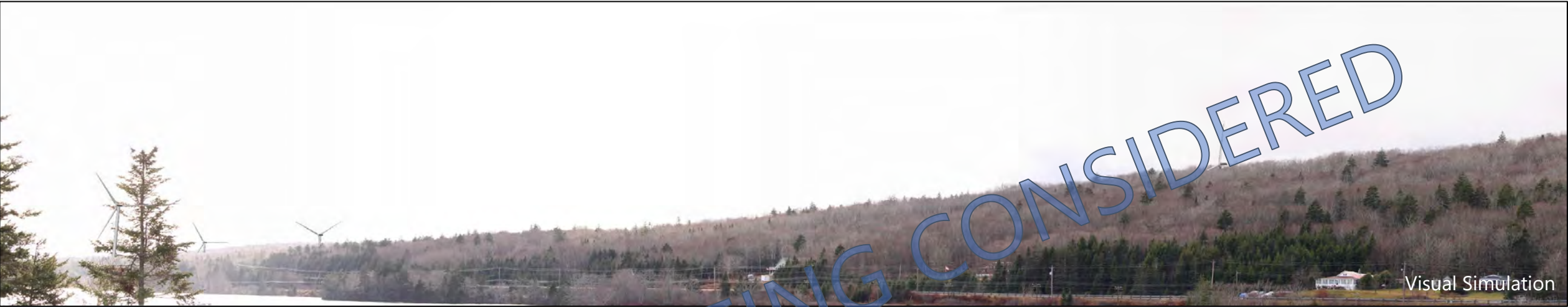
Location: Folly Lake, Peninsula Dr near ridge, looking southwest
 Layout: **100 MW**
 Nearest turbine: 2.5 km

Turbine model: Enercon E-160, 5.5 MW
 Turbine hub height: 110 m
 Turbine tip height: 190 m
 Turbine rotor diameter: 160 m

Date of photo: November 27, 2021
 Photo credit: Maryam Baksh
 Coordinates: 45.545, -63.545
 Bearing: 240°

Notes: **No turbines visible**





Location: Folly Lake, Peninsula Dr near ridge, looking southwest
Layout: **150 MW**
Nearest turbine: 2.4 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

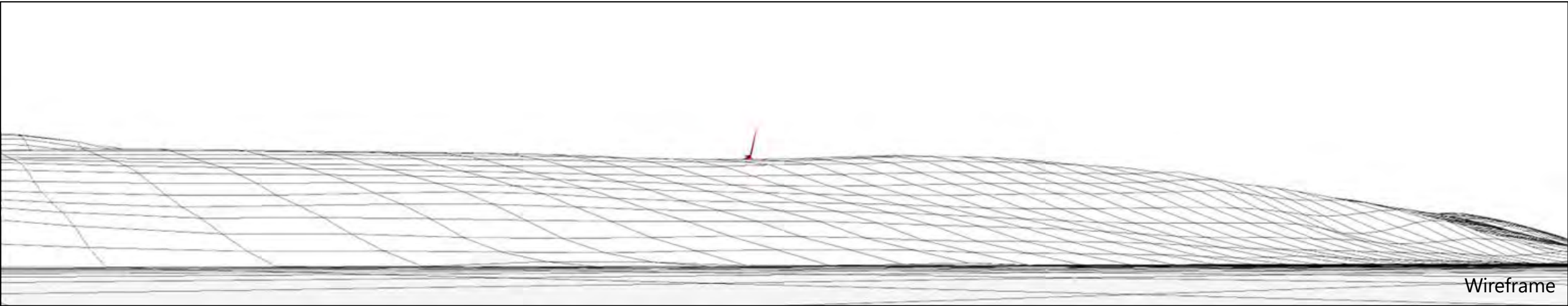
Date of photo: November 27, 2021
Photo credit: Maryam Baksh
Coordinates: 45.545, -63.545
Bearing: 240°

Notes: **This layout is no longer being considered**





Visual Simulation



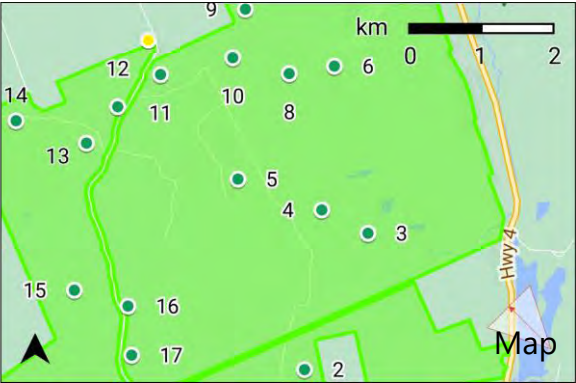
Wireframe

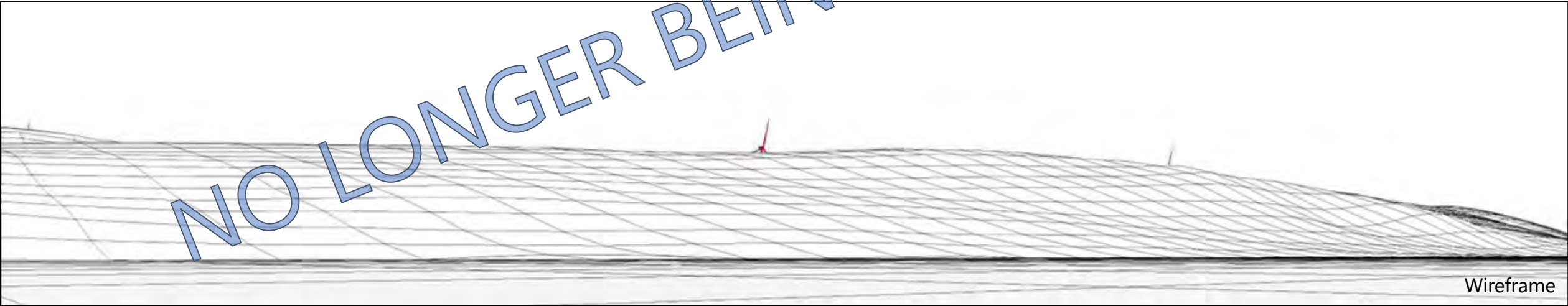


Location: Folly Lake near saddle, looking northwest
Layout: **100 MW**
Nearest turbine: 3.0 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: November 27, 2021
Photo credit: Maryam Baksh
Coordinates: 45.537, -63.543
Bearing: 315°





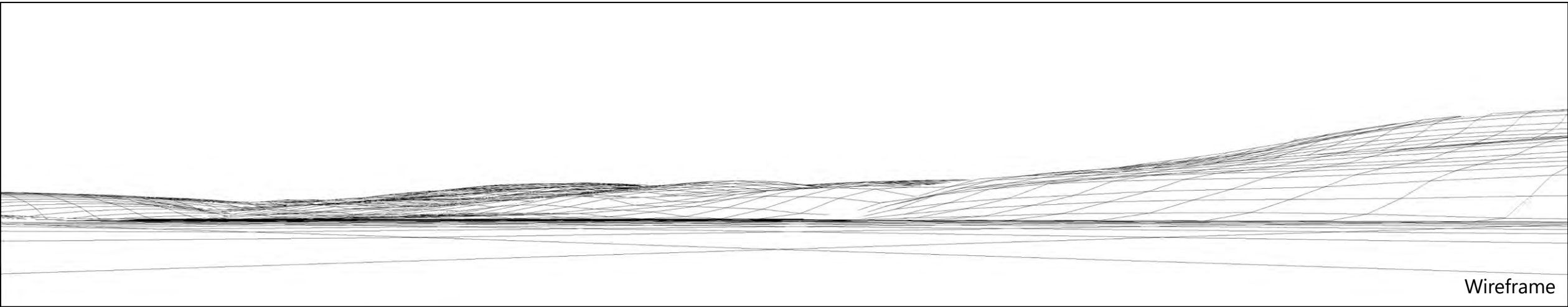
Location: Folly Lake near saddle, looking northwest
Layout: **150 MW**
Nearest turbine: 2.5 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: November 27, 2021
Photo credit: Maryam Baksh
Coordinates: 45.537, -63.543
Bearing: 315°

Notes: **This layout is no longer being considered**



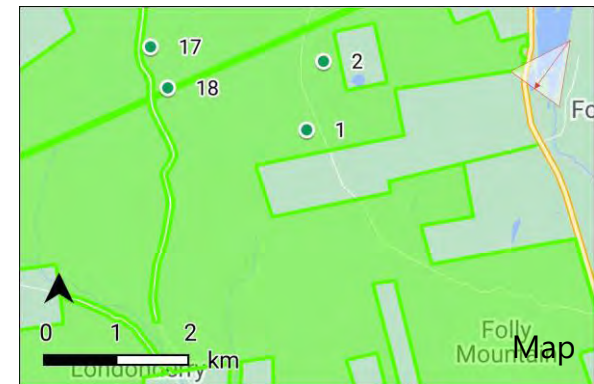


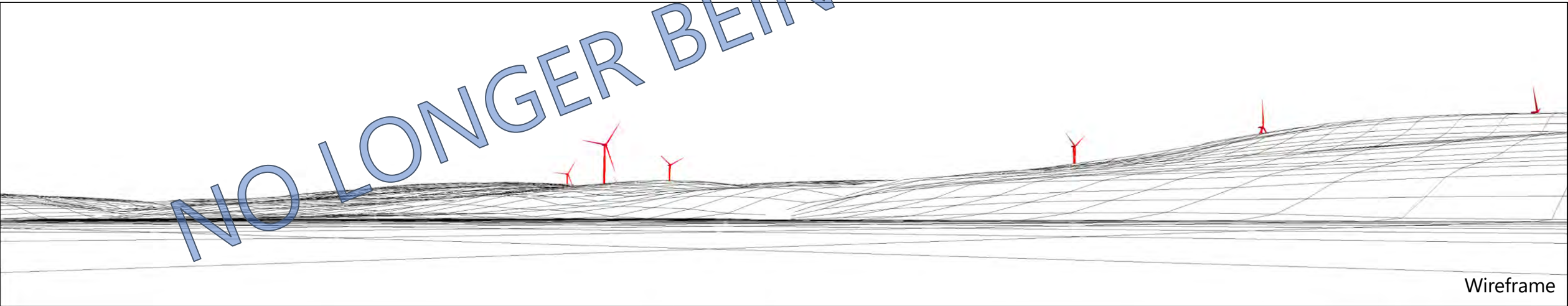
Location: Folly Lake near saddle, looking southwest
Layout: **100 MW**
Nearest turbine: 3.0 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: November 27, 2021
Photo credit: Maryam Baksh
Coordinates: 45.537, -63.543
Bearing: 216°

Notes: **No turbines visible**





Location: Folly Lake, off Stevens Rd
Extension, near saddle, looking southwest
Layout: **150 MW**
Nearest turbine: 2.5 km

Turbine model: Enercon E-160, 5.5 MW
Turbine hub height: 110 m
Turbine tip height: 190 m
Turbine rotor diameter: 160 m

Date of photo: November 27, 2021
Photo credit: Maryam Baksh
Coordinates: 45.537, -63.543
Bearing: 216°

Notes: **This layout is no longer being considered**



Project Benefits

GHG Reductions: offset coal-fired generation in Nova Scotia – approximately **200,000 tCO₂e/year**

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

Employment: approximately **100 jobs** during construction, **10 FTE jobs** throughout operations.

Contracting Opportunities: construction and operations will rely on local supply chain and services.

Tax Revenue: property taxes of **\$760,000/year** to the municipality.

Community Benefits Fund: establish **\$100,000/year** fund.

Support for Community Initiatives and Infrastructure: committed to supporting various local organizations and initiatives that bring positive impacts to nearby communities.

Education: education and training events.

Local Investment: local businesses will benefit from increased spending on goods and services during construction and operations phases.

Environmental Work

The following environmental surveys have been completed or are underway:

- Avifauna (birds & bats)
- Wildlife (e.g. moose)
- Vegetation
- Wetlands
- Watercourses & aquatic habitats
- Noise & shadow flicker
- Visual impacts
- Archaeological & historic resources
- Socioeconomic studies
- Electromagnetic interference studies

Questions?

(10 minutes)