



A Focus on New Brunswick's Energy Plan: Wind Energy

Presenter: **Austen Hughes**
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Who we are

- Private Independent Power Producer based in Halifax, NS, with offices in New Brunswick, British Columbia, New York, France, and Ireland.
- Active in the renewable energy sector since 2001.
- Wind, solar, storage, and hydro projects in development throughout Canada, Ireland, and New York state.
- Partnerships with Indigenous communities, universities, corporations, and CEDCs.
- Develop, finance, construct, operate, and own projects



Atlantic Canada



Nova Scotia:

32.5 MW aggregate

- ComFIT program
- CEDC, University & 13 First Nations



Richibucto:

3.8 MW

- LORESS Program NB
- Pabineau First Nation



Wocawson:

20 MW

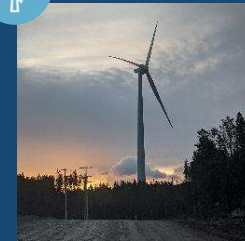
- LORESS Program NB
- Neqotkuk First Nation



Kent Hills:

167 MW

- RFP 2007/09
- TransAlta



Burchill:

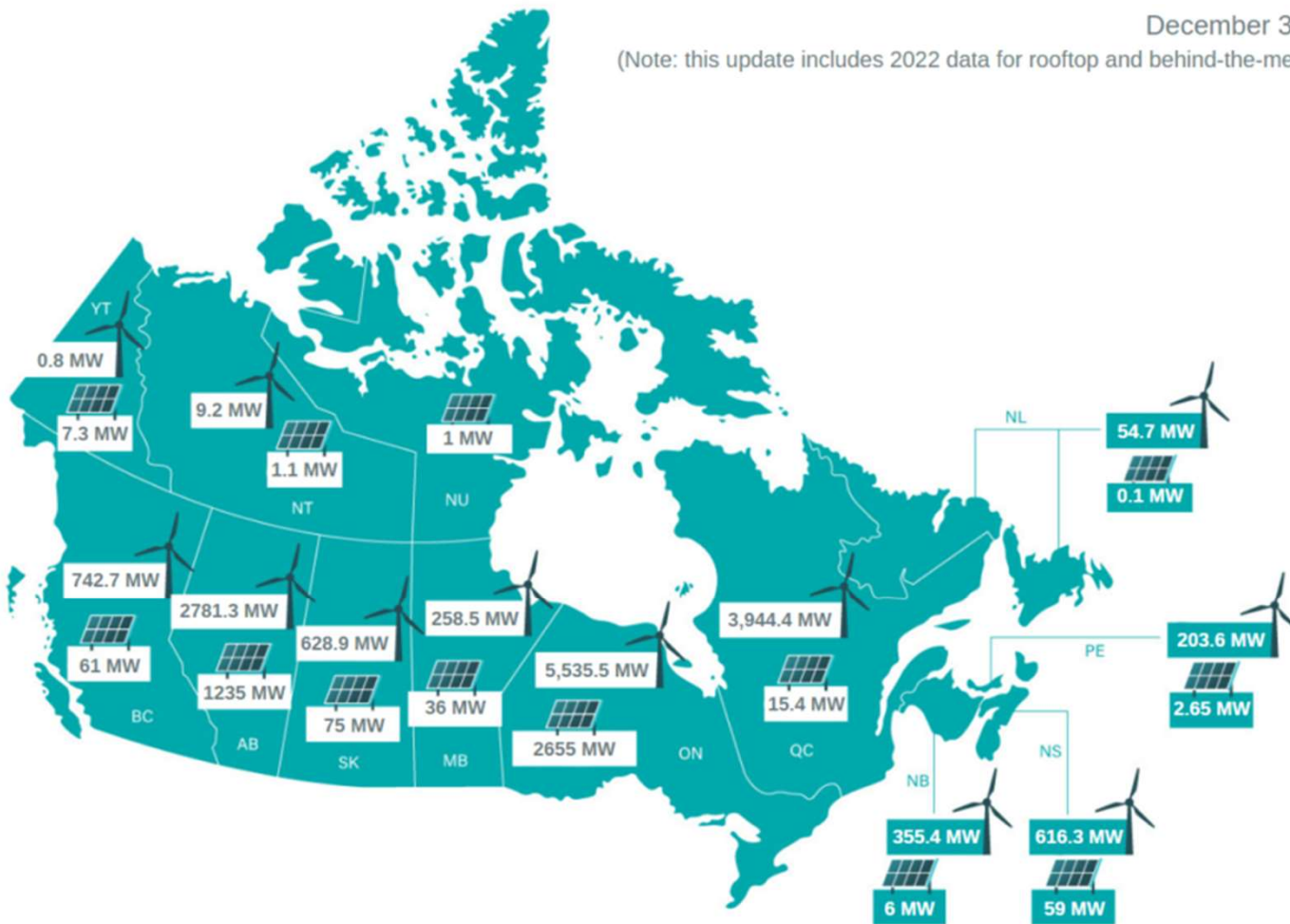
42 MW:

- Saint John Energy RFP
- Lorneville, NB
- Neqotkuk First Nation

Canada's current installed wind and solar energy capacity

December 31, 2022

(Note: this update includes 2022 data for rooftop and behind-the-meter solar)



Installed Wind Capacity*:

- Nationally: 15,000 MW Wind (6%)
- New Brunswick: 355 MW
- Nova Scotia: 616 MW
- PEI: 204 MW
- 2022: >10% growth
- 2022-27: ~5 MW additional wind generation
- Canada world ranking: 8th

Installed Solar Capacity*:

- Nationally: 4,000 MW Wind
- New Brunswick: 6 MW
- Nova Scotia: 59 MW
- PEI: 3 MW

* 2022 data

New Brunswick's Climate Change Action Plan (2022 - 2027):

How can wind energy generation contribute meaningfully to the success of this action plan?

“Wind energy is now the lowest-cost source of new electricity generation in Canada”

<https://renewablesassociation.ca/wind-energy/>

New Brunswick's Climate Change Action Plan

- **Pillar 1:** Collaboration with Indigenous communities
- **Pillar 2:** Reducing GHG Emissions (electricity generation @ 1/4 of all GHG emissions).
- **Pillar 2:** Renewable energy generation (1/3 renewables, 1/3 nuclear, 1/3 fossil fuels). Increased wind penetration through procurement (REOI)
- **Pillar 2:** Greening Government (Nova Scotia Green Choice Program).
- **Pillar 2:** Economic Opportunities – supporting local.





Pillar 1: Natural Forces Partnership Philosophy

People - Projects - Partnerships

- Understanding each partner's objectives (not just economic ones)
- Nurturing the relationship for the long-term success;
- Common understanding of risk & reward and the appetite for each party involved
- Common understanding of financial commitments from each party
- A true commitment to deliver promised obligations



Pillar 2: Renewable Energy Generation

Wocawson Wind Energy Project

- 20 MW wind project currently operational
- 30-year PPA executed with NB Power
- 5 Enercon EP3 126 m wind turbines
- \$45 million CAPEX
- Neqotkuk holds 51% majority ownership by equity participation
- Natural Forces holds minority equity position of 49%



Pillar 2: Responsible Development

- Social License is Earned: starting community outreach at the right time is critical to project success.
- Community involvement creates social license.
- Turn “N.I.M.B.Y” to “I.M.B.Y”!
- Latest technology does not need to take advantage of the windiest locations, thus reducing stress on sensitive ecosystems.



Pillar 2: Economic Development

- Current operating assets represent >\$100m of investment in Nova Scotia and excluding turbine supply ~85% remains in Nova Scotia.
- Our contracting structure is unique and allows us to hire local:

Casey Concrete Ltd.

BURCHELLS LLP
Lawyers | Avocats

Grant Thornton

B Curry & Sons Construction

Hemmera
An Ausenco Company

Strum
CONSULTING

MGS

IRVING

DILLON
CONSULTING

MCINNES
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Closing

1. The deployment of new wind energy generation will play a critical role in the success of the provinces action plan.
2. Continued collaboration with Indigenous communities (both governments and IPP's) will be essential to the success of the plan.
3. Community buy-in, or social license, is vital to the success of any project.
4. We have the people, the teams, and the resources in the region to 'build local'. The economic opportunities for the region are vast.





**Thank you!
Questions?**

