

Nain Wind Micro-Grid Project

May 2023 Newsletter

The Nain Wind Micro-Grid Project is a proposed 1-2 turbine (2.3 – 4.6 megawatt (MW)) wind power project with a battery storage system and micro-grid controller to integrate with the existing diesel system in Nain. The proposed location of the wind turbines is approximately 2.5 km from the centre of Nain. It is the first project of this scale within Nunatsiavut, and it is expected that it will serve as a pilot project for renewable energy development in the region.

This project will help reduce the amount of diesel fuel consumed at the NL Hydro power plant in Nain.

It is anticipated that the construction will begin in June 2024, with commercial operation in 2025.



Project Timeline

The project will be completed in three phases. Currently, the development phase has been completed and the construction phase will begin in 2024.

1. The development phase (2-3 years) involves conducting the environmental studies, permit applications budget development, and public consultations;
2. The construction phase (1-2 years) includes the civil and electrical work, road and electrical circuit building, wind turbine erection, and installation of the battery system; and
3. The operation phase (30+ years) encompasses the creation of electricity by the turbines, regular maintenance, and management of the electricity intake from the battery, turbines and diesel generators using a micro-grid controller.

Questions? Contact us

902-483-9592 | community@naturalforces.ca

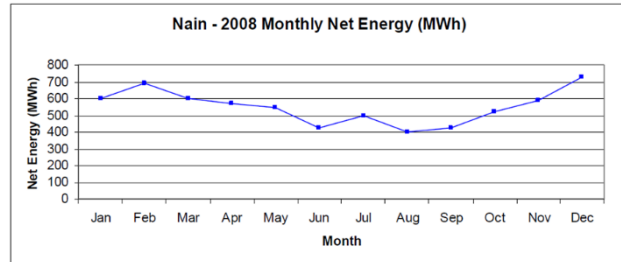
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Why here?

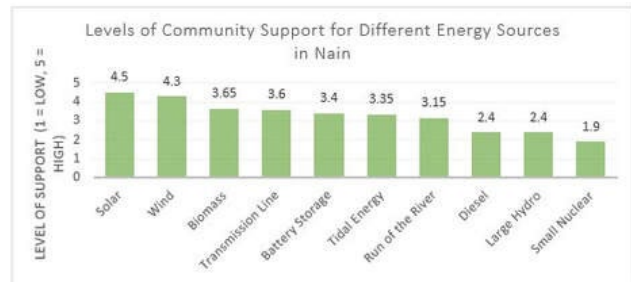
Nain has the largest population of the five communities located in the Labrador Inuit Settlement Area, with both population and consumer demand growing annually. The wind resource in Nain is strongest and most consistent during the fall and winter months of the year, which is also when energy use is at its highest, making this an excellent location to develop the project.

Community engagement is extremely important to the Nunatsiavut Government (NG) and associated project partners. The NG has met multiple times with the Nain Inuit Community Government to discuss the proposal, provide project updates, answer questions, and accept feedback. Additionally, two open houses have been held to engage with the community through sharing project information. Additional open houses are planned to continue discussions.

The graph below demonstrates the increase in energy demand during the winter months when the wind resource is at its strongest.



NG conducted a Green Energy Survey to gain a better understanding of the community's feelings towards different alternative energy options. The graph below shows the average rating for 10 different technologies.



About the Partnership

Through an open tender process, the NG selected Natural Forces as the development partner for the Nain Wind Micro-Grid Project.

Natural Forces, an independent power producer and project developer headquartered in Halifax, NS with a breadth of experience with renewable energy projects, has successfully developed, constructed, and currently operate multiple wind projects from coast-to coast-to coast for over a decade, and is now operating a small combined hydro and solar project in Mary's Harbour on the south coast of Labrador. To learn more about Natural Forces and their projects, please visit www.naturalforces.ca.

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