

WHAT WE HEARD:
*Project Information Sessions
March 2024*

Acknowledgements

Toqlukuti'k Wind and Hydrogen Ltd. and ABO Energy would like to thank everyone who attended recent Project Information sessions held in the Isthmus of Avalon and Clarenville areas, who offered comments on our proposed development plan and who engaged in any way in sharing your views with us. Considering that the project is in the early stages of its planning cycle, many of the questions posed at the information sessions went unanswered at the time, however, we did capture the questions with a commitment to have questions answered and circulated through this document. Many attended the various sessions including area residents, local government representatives and members of the business community; many of valuable comments were received. These comments and questions have been reviewed, along with additional feedback from our meetings. These perspectives were included in this feedback assessment. As such, this "What We Heard" document reflects this variety of perspectives. This Report is available in alternate format upon request.

Contact Toqlukuti'k Wind and Hydrogen Ltd.

Email: joe.bennett@aboenergy.com

Tel: 709 219 8707

Mail: ABO Energy

5 Hill O'Chips, St. John's, NL A1C 0A8

Follow us on social media:

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Acknowledgements

Indigenous Land Acknowledgement

ABO Energy Ltd. acknowledges the peoples who have been on this island of Ktaqmkuk (Newfoundland) since time immemorial, such as the Maritime Archaic, Beothuk, and Mi'kmaq. Canada-wide, we acknowledge the ancestral and unceded territory of Inuit, Métis, and First Nations people that call this land home.

ABO Energy acknowledges that the land where we develop projects has cultural significance for Indigenous Peoples based on long-term traditional use, which is recognized by the Constitution of Canada. We actively pursue opportunities for partnerships in our projects with Indigenous communities with the goal of supporting long-term sustainability through economic reconciliation.

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Introduction

This “**What We Heard**” document summarizes input provided during the seven March 2024 Project Information sessions on the proposed Toqlukuti’k Wind and Hydrogen Ltd. project (the Project/Toqlukuti’k - pronounced “*dok-loo-gu-tik*”) in Newfoundland and Labrador (NL). The intention of this report is to reflect the perspectives and very rich local input we received.

Disclaimer

We recognize that many of the questions posed at the information sessions could not be answered at that time. However, we captured your questions with a commitment to answer as many as we can by developing this What We Heard document.

Toqlukuti’k Wind and Hydrogen Ltd. is still in the early stages of planning. As such:



Our team asks for patience as we do not have detailed responses for all questions asked at this early stage of development. However, we have done our best to provide responses at this point.



Certain details and elements of the Project are subject to change.

As we proceed with planning and numerous studies, we will have more details to share and inform. Our team strives to continue sharing information with you in a timely and accurate way.

Company Background

ABO Wind AG now operating as ABO Energy KGaA has over 1200 employees worldwide, and over 35 in Canada. ABO Energy Canada Ltd. (ABO Energy Canada/ABO Energy) is a subsidiary of ABO Energy KGaA and was founded in 2017. ABO Energy Canada developed Canada’s largest wind development to date, the 515-megawatt (MW) Buffalo Plains Wind Farm in Alberta (AB). In 2022, ABO Energy Canada opened an office in Halifax.

We presently have four local staff, and our Newfoundland office is in downtown St. John’s, with additional local presence through scheduled mobile community offices in the Project region on a monthly basis.

The Project

The Toqlukuti’k Wind and Hydrogen Project, (The Project), is a major renewable energy project in Newfoundland and Labrador, powered by the province’s world-class wind.

Located in the vicinity of the Isthmus of Avalon, ABO Energy is working with our partners Miawpukek First Nation (MFN) and Braya Renewable Fuels (Braya) to develop this multi-phased, integrated project that will harness wind energy, using wind turbines, to produce renewable energy.

The Project is being developed in a phased approach, with the first phase involving the development of up to 700-megawatts of power to further decarbonize the production of Braya’s refinery in Come By Chance. Later phases beginning in 2028 are anticipated to scale up production to a total of 5000-megawatts (MW) / 5-gigawatts) to also produce green ammonia for export to the global market.

The name Toqlukuti’k Wind and Hydrogen was determined together with Miawpukek First Nation and originates from the traditional Mi’kmaq language of the Miawpukek First Nation, meaning “working together” (pronounced ‘dok-loo-gu-tik’), a reference to our partnerships with MFN and Braya.

- ➔ In March 2023, ABO Energy received an exclusive letter of support from Braya for the joint development of green hydrogen production at the refinery.
- ➔ In August 2023, ABO Energy was awarded the exclusive right to pursue development of The Project through the Province's Crown Land Call for Bids for Wind Energy Projects.

More information on the Project and the three phases is available on our website, www.toqlukutikproject.com.

Information Session Objectives

ABO Energy is committed to ongoing engagement, transparent dialogue, listening to feedback and working together with you. Our objective was to determine feedback in a number of key areas:

- ➔ ABO Energy intends to maximize economic benefits for communities and their residents and promote long-term commercial growth.
- ➔ ABO Energy aims to bolster local employment in the growing renewables energy sector and the regional economy and help ensure job security for the approximately 230 permanent refinery workers.
- ➔ ABO Energy hopes to identify local supplier capacity from direct contracts to spin-off opportunities.
- ➔ ABO Energy wants to reaffirm residents, communities, and other stakeholders of our commitment to effective safety and emergency response protocols throughout the Project from site visits to construction to commissioning and eventual operations.
- ➔ ABO Energy seeks input to help determine exactly what land is needed for a viable project, adding on any buffers or understanding areas that are not needed or not desirable for the Project.
- ➔ ABO Energy wishes to determine current land use, considering mitigations, areas to avoid, and constraints informed by local feedback, environmental studies, feasibility/engineering studies and measurement campaigns.

Promotion of Community and Business Information Sessions

ABO Energy hosted seven (7) Project Information Sessions in communities in the Isthmus Region and in Clarendville from March 18 – 21, 2024. Promotion of the sessions included a householder distribution to 6500 residences and business in the Isthmus of Avalon and Clarendville areas (attached as **Appendix A**), along with sending an invitation graphic to all municipal government contacts in the region to have posted on all regional municipal websites, municipal social media pages and the Chambers of Commerce websites (attached as **Appendix B**). Further, the invitation was sent to a large group of existing and identified contacts, including registered suppliers, elected and non-elected government representatives, and other identified stakeholder and community groups. The information session schedule and details were also posted on the Project website, www.toqlukutikproject.com.

A Business Information Session/Luncheon was held on March 21, 2024 at the Clarendville Inn, in collaboration with the Clarendville Area Chamber of Commerce (CACC) and the Arnold's Cove Area Chamber of Commerce (ACAC). The Business Information Session/Luncheon was promoted via distribution to the membership of both Chambers (attached as **Appendix C**).



Session Overview and Format

Project Information Sessions

Agenda

Each session began informally with attendees encouraged to visit a series of 7 themed information panels (attached as Appendix D or https://www.aboenergy.com/media/en/range-of-activities/canada/toqlukutik-project/Toqlukutik_ABOWind_Poster_2024.pdf) placed throughout each venue with ABO Energy representatives available at each panel station to answer detailed questions. Following this, each session began with brief opening remarks, and a greeting by the relevant Mayor (when possible). This was followed by a presentation carried out by ABO Energy representatives, (available at https://www.aboenergy.com/media/en/range-of-activities/canada/toqlukutik-project/NL_Presentation_Public_InformationSessions_ABO-Wind_web.pdf) followed by a question and answer (Q/A) session. Members of the ABO Energy team, with a variety of expertise, answered questions as appropriate. The Mayor of each community generally concluded each session with a few closing remarks.

Attendees at each session were encouraged to complete comment cards requesting any additional information or providing general feedback on the project. A total of seventeen comments cards were received. Potential suppliers were invited to submit company information via the Supplier Registration Form available at www.toqlukutikproject.com. A total of 52 suppliers have registered via the Toqlukuti'k Project's business registration portal as of the time of this publication.

Attendance

A total of 180 people attended the various Project Information Sessions. Attendance at each session is highlighted below in Table 1. Attendance at the Public Information session in Southern Harbour was impacted by a concurrent memorial service. ABO Energy has committed to returning to the community for a follow-up session at a more appropriate time, in addition to holding monthly community (mobile) office hours during the spring and summer months.

March 18, 2024	Recreation and Wellness Centre, Sunnyside	27
March 18, 2024	Community Centre, Chance Cove	36
March 19, 2024	Community Centre, Southern Harbour	6
March 19, 2024	Lions Club, Come By Chance	29
March 20, 2024	Clareville Inn, Clareville	27
March 20, 2024	Clareville Inn, Clareville	36
March 21, 2024	Community Centre, Arnold's Cove	9
Total		180

Discussion and Feedback

General feedback from the Project Information sessions was positive. Those attending were respectful, and the opportunity for dialogue following the Project overview presentation was appreciated. The questions were thoughtful and diverse, with a focus on the potential impacts and potential mitigation associated with the Project as a whole. With a Project of this magnitude, understandably, there are many questions that residents have in order to better understand the many elements involved in planning and construction. This document outlines the various themes of questions and comments that arose at the Project information sessions.

ABO Energy appreciates all questions received and asks your for patience as we do not have all the detailed responses at this early stage of development.

Additional information will become available in future time following further studies and planning.

Business Information Session/Luncheon

The Business Information Session/Luncheon held in Clarenville was attended by 75 people, including representatives of over 35 separate businesses, regional organizations, and municipalities in the Clarenville and Isthmus area. The joint session was hosted by the Clarenville Area Chamber of Commerce and the Arnold's Cove Area Chamber of Commerce and intended for the local and regional business community. The session followed a format similar to that of the Project Information Sessions, starting with introductions of the team and a presentation by Senior Project Managers, Michelle Lethbridge and Joe Bennett, Communications and Engagement Lead providing a Project update and procurement information (https://www.aboenergy.com/media/en/range-of-activities/canada/toqlukutik-project/Chamber_Presentation_March_21_2024.pdf).

The presentation was very similar to the Project overview provided at the other information sessions, however it highlighted information about ABO Energy's Local Economic Development Policy, with an intent to maximize economic benefits for local communities and residents wherever possible. Presenters also discussed that the Project team is actively working on a specific Procurement Policy for Project Toqlukuti'k and is asking for local business' feedback to ensure this Policy is effective. It was noted that a prequalification process for contractors is in development and will be shared once available.

Attendees were encouraged to register for ABO Energy's supplier portal on the Project website and indicated this mailing list and other channels (i.e., Chambers, industry organizations etc.) would be utilized to share information about upcoming opportunities. Attendees were also encouraged to visit a series of themed information panels placed around the room, in addition to Project brochures with information on supplier registration and contact detail for the Project.

Key Themes from Information Sessions

The ABO Energy team noted participant impressions and questions throughout the Project Information session process including questions asked during the Q/A or to members of the ABO Energy team at each of the panel stations, through comment cards submitted at the sessions, and through follow-up conversations with community members where applicable. This feedback has been summarized below.

Project Scope

The most frequent questions were related to the scope of the Project itself, seeking clarification on either specific project elements or related timelines. General project development questions related to the location of roadways, staging areas, gravel pits and related site development work. The volume and frequency of blasting

was questioned as was the extension of needed infrastructure to marine-adjacent areas. Specific questions were asked about the Wind Turbine Generators (WTGs), including their location, size, and operation, along with potential de-commissioning plans for windmill blades. The development of the Project's meteorological (MET) tower was discussed, including its purpose, timing, and the tower's project scope. There were additional questions on the transportation and storage of ammonia.

Location/Proximity to Communities

The general location of the WTGs were often asked about, with clarification sought on noise levels and the visual impact on the landscape. Some residents had questions about the location of the proposed WTGs and in some instances, specific suggestions on location. In one community, some expressed a desire to have the WTGs located between the Trans Canada Highway (TCH) and the Doe Hills area versus in the area between the Doe Hills and the community. Some area residents were concerned over the number and proximity of WTGs to the community.

Related to location and proximity of WTGs to communities, there were questions on noise levels associated with the development, including how far one had to be from the development to not be impacted by noise, and what the potential health impacts might be. Others expressed concern over the visual impact of WTGs placed above and over the main area of the community.

Consultation and Engagement Process

Generally, ABO Energy's willingness to consult with residents and the community was welcomed, particularly as the Project moves forward. Residents, business owners, and community leaders alike are interested in further Project information open house sessions and ongoing communications

The consultation process itself was often brought up with some members of the public concerned over why this particular region was initially selected, and a perception by some individuals of a lack of information provided to residents by government representatives.

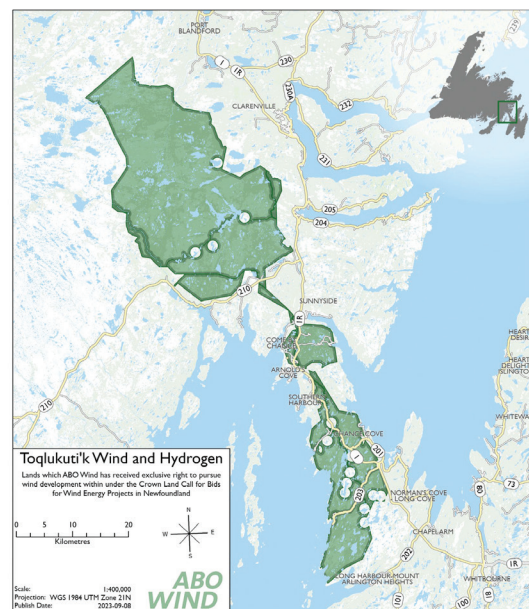
ABO Energy brought the matter up with the provincial government who advise the following:

"The Government of Newfoundland and Labrador is committed to listening to Newfoundlanders and Labradorians when it comes to the development of the province's natural resources.

In 2021, government released the province's Renewable Energy Plan, which was developed based on significant input from stakeholders and public consultations.

In 2022, government launched a Call for Nominations and Crown Lands Call for Bids for Wind Energy Projects, conducting community and Indigenous engagement on areas to be included in the Call for Bids.

As part of the Call for Bids process, bidders were asked to describe their community and Indigenous engagement plans, demonstrate local support for their projects, indicate any concerns that had been raised by these groups and individuals, along with proposed plans to address any such concerns. In total, community and Indigenous engagement, and project proposed benefits, equated to 25 per cent of the scores for the submitted bids.



Lands which ABO Energy has received the exclusive right to pursue wind development within under the Crown Lands Call for Bids for Wind Energy Projects in Newfoundland

On August 30, 2023, government announced that through the Call for Bids process, ABO Energy and three other companies received the exclusive rights to pursue their projects through the Crown lands application process, including referral to Environmental Assessment (EA).

Crown Land applications for the project must be approved through the provincial Crown lands application process, administered by the Department of Fisheries, Forestry and Agriculture (FFA).

No Crown land title will be issued to ABO Energy and no project can proceed to construction, unless they are released from EA, a process administered by the Department of Environment and Climate Change (ECC).

The purpose of an EA is to protect the environment and quality of life of the people of the province and facilitate the wise management of the province's natural resources. The EA process includes an opportunity for the public to provide feedback and comments before any decision is made regarding EA release.

All Newfoundlanders and Labradorians are encouraged to engage with proponents to obtain more information on the projects and to express your views about the projects as proponents continue their planning and undergo the Crown Lands and EA processes."

Employment

There were questions related to employment opportunities with the Project. There were specific questions relating to employment opportunities around construction and operations for the MET towers. Clarification was sought on workforce requirements, including education and training, type of jobs and how many. The significance of the Project on sustaining employment at the refinery was noted. There was some question on how and where ABO Energy would recruit people for the jobs.



Community Input Collected

Habitat and Natural Areas/Wilderness

The Project's potential impact on wildlife, natural areas, and habitat was commonly brought up during the sessions. There were specific questions on the potential impact of the development on moose and caribou populations, and related mitigation plans. There were some questions over habitat degradation related to garbage and enhanced access due to road construction. An additional concern expressed was over the potential for increased traffic in Trinity Bay and impact to recreational fishers during later phases of the Project involving exports. Local outfitters also communicated their hunting areas and noted concerns about perceived impacts on future business operations and use of Crown Land within the Project development area.

Existing Trails, Heritage Sites and Recreation Areas

Somewhat related to the Project's impact on the wilderness and natural areas, are concerns over the potential implications for existing land use.

Specific reference was made to the well-developed trail network within the area including the Coastal Hiking Trail and the Newfoundland T'railway. These trails are very valued by the

community and enable access to local recreation areas and activities including cottages, fishing, hunting, and berry picking. ABO Energy was cautioned against the use of the T'railway, even during construction stages. There is a need to identify and protect any such trails and heritage sites.

Community Benefits/Impacts

There was some input on community benefits and broader economic impacts with questions asked on the impact of the development on housing and tourism. There was some discussion from several residents on supplier development, particularly in relation to accommodations that they have available in the area. Others asked about other types of local benefits, including contributions to community initiatives.

Water Quality/Use

Water quality, supply and use was questioned, including the volume of water required, storage, and the treatment of wastewater. Specific concerns related to the potential impact of the development on watershed areas, particularly in the Clarenville area.

Access to Crown Land

Some concern was expressed over the impact of the Crown Lands reserve for wind energy on residents' ability to access Crown Land for new development. There were questions on how long access will be limited and how soon will ABO Energy be able to release portions of the overall reserve from its overall development footprint (the Project will not utilize all parcels of Crown Land currently in reserve after ABO Energy was awarded the exclusive right to pursue development through the Crown Land Call for Bids for Wind Energy Projects).

ABO Energy Follow-up

ABO Energy made a commitment to providing direct responses and specific follow-up to some of the questions and information requests arising from the Project information sessions. These requirements have been identified, summarized and in many instances have been followed up on. This feedback is a key element of ABO Energy's ongoing communication and engagement activities. New Frequently Asked Questions will also be added to the Project website for easy reference.

Frequently Asked Questions (FAQs)

Project and Purpose

Who is ABO Energy?

ABO Wind AG, now operating as ABO Energy KGaA has over 1200 employees worldwide, and over 35 in Canada. The company started in 1996 and now develops and builds wind and solar farms as well as battery and hydrogen projects worldwide. ABO Energy is a subsidiary of ABO Energy KGaA and was founded in 2017. ABO Energy developed Canada's largest wind development to date, the 515-megawatt (MW) Buffalo Plains Wind Farm in Alberta (AB). ABO Energy opened an office in Halifax, Nova Scotia in 2022 and in St. John's, Newfoundland and Labrador in October of 2023..

What is the purpose of the Project?

Toqlukuti'k Wind and Hydrogen Ltd. is a multi-phased, integrated Project that will harness wind to provide green hydrogen to further decarbonize production at the Come By Chance Refinery and also to produce green ammonia for export to the global market:

Green Hydrogen for Refinery (beginning in Phase 1)

In March 2023, ABO Energy received an exclusive letter of support from Braya Renewable Fuels for the joint development of green hydrogen production at the refinery. In 2021, Braya purchased the Come By Chance refinery to convert the facility to produce renewable diesel. This process requires hydrogen. Existing hydrogen demand at the refinery is produced via an onsite Steam Methane Reformer (SMR) that converts imported butane to grey hydrogen. Since acquisition, Braya has publicly identified that green hydrogen is the preferred future to lower the carbon intensity of their fuels.

Green Ammonia for Export (Phases 2-3)

Green hydrogen is one of the key elements for Europe to reach its climate target and to ensure energy security. Green hydrogen can be a solution to Europe's energy problems for several reasons, including its carbon-free nature, ability to be stored for a longer time and distributed, and its versatility in uses. After being transformed into its derivatives such as ammonia, it can be easily exported all over the world for use in industrial processes, heating, electricity, and automotive or other transportation use.

The war in Ukraine has highlighted the need for European countries to have clean, secure, and ethical energy sources. In recognition of this, Canada and Germany signed the Canada-Germany Hydrogen Alliance in Stephenville (2022). As the subsidiary of a German parent company, ABO Energy is uniquely positioned to fulfill the ambition of that Agreement.

Why can't you just bolster the local grid with clean power?

NL's local grid is currently over 90% renewable energy from hydro power. In this unique situation, the province does not need to "green" their grid prior to providing green energy to other countries. In the event of capacity growth, the decision to add wind power to meet provincial demands will be at the discretion of NL Hydro. If an opportunity for local grid connection presents itself, ABO Energy will evaluate it.

What is the difference between power vs. energy?

Energy and power are closely related but are not the same physical quantity. Energy is the ability to cause change; power is the rate energy is moved or used (J.M.K.C. Donev et al. (2024). Energy Education. Available: <https://energyeducation.ca>)

Location

Why choose this location for the Project? Why on the Isthmus when it is so small and so narrow?

ABO Energy bid on selected areas of Crown land included in the Government of Newfoundland and Labrador's Crown Lands Call for Bids for Wind Energy Projects.

ABO Energy also raised this matter with the provincial government for further information. The provincial government advises the following:

"The areas included in the Call for Bids were selected from amongst the land nominated by industry during the Nominations of Areas of Interest for Wind Energy Projects (Land Nominations) held by the provincial government between July 26, 2022 and October 1, 2022.

The provincial government completed a detailed review and analysis of the area nominated by industry, including a review of the proposed use of the land, existing land uses, and engagement with communities and Indigenous partners.

The findings of the Land Nomination process determined the areas to be included within the Call for Bids."

Newfoundland and Labrador itself is competing in a global marketplace to secure a share of the green hydrogen market and has several strategic advantages to lead the way including, but not limited to:

- > world class wind resources,
- > deep water ports,
- > skilled labour,
- > strategic location to Europe on the eastern seaboard of North America and
- > existing infrastructure, knowledge, and experience at the Braya Come By Chance refinery.

Beginning in the first phase of the Project, wind energy will be harnessed to provide green hydrogen to meet the needs of the Come By Chance Refinery, and as such, is being developed in the region near the refinery.

In March 2023, ABO Energy received an exclusive letter of support from Braya Renewable Fuels for the joint development of green hydrogen production at the refinery, helping to ensure job security for the approximately 300 permanent refinery workers.

Potential turbine sites are selected based on a variety of criteria including wind speed and pattern; access to transmission infrastructure; access and constructability of turbine components; setbacks from environmentally sensitive areas, homes, and other features such as local trails. The Project will incorporate setbacks (turbine distances to residences, roads, etc.). Local feedback will be incorporated into our planning where feasible.

Crown Land Reserve Process

What was the process of ABO Energy getting the Crown Land? Why were we not consulted?

ABO Energy raised this matter with the provincial government who advise the following:

"The Government of Newfoundland and Labrador is committed to listening to Newfoundlanders and

Labradorians when it comes to the development of the province's natural resources.

In 2021, government released the province's Renewable Energy Plan, which was developed based on significant input from stakeholders and public consultations.

In 2022, government launched a Call for Nominations and Crown Lands Call for Bids for Wind Energy Projects, conducting community and Indigenous engagement on areas to be included in the Call for Bids.

As part of the Call for Bids process, bidders were asked to describe their community and Indigenous engagement plans, demonstrate local support for their projects, indicate any concerns that had been raised by these groups and individuals, along with proposed plans to address any such concerns. In total, community and Indigenous engagement, and project proposed benefits, equated to 25 per cent of the scores for the submitted bids.

On August 30, 2023, government announced that through the Call for Bids process, ABO Energy and three other companies received the exclusive rights to pursue their projects through the Crown lands application process, including referral to Environmental Assessment (EA).

ABO Energy's project has not been approved for development. ABO Energy has been given the right to apply for Crown Land for their project before February 28, 2025.

Crown Land applications for the project must be approved through the provincial Crown lands application process, administered by the Department of Fisheries, Forestry and Agriculture (FFA).

No Crown land title will be issued to ABO Energy and no project can proceed to construction, unless they are released from EA, a process administered by the Department of Environment and Climate Change (ECC).

The purpose of an EA is to protect the environment and quality of life of the people of the province and facilitate the wise management of the province's natural resources. The EA process includes an opportunity for the public to provide feedback and comments before any decision is made regarding EA release.

All Newfoundlanders and Labradorians are encouraged to engage with proponents to obtain more information on the projects and to express your views about the projects as proponents continue their planning and undergo the Crown Lands and EA processes."

The Government of Newfoundland and Labrador (IET) completed a detailed assessment to determine which land packages would be available in the competitive Crown Land bid process. IET removed areas identified where development may be problematic or prohibited (i.e., sensitive wildlife habitat, protected areas, mining sites, active farming areas, etc.).

The provincial government has shared that it had conducted research and engagement prior to designating the lands here, and in other areas across the province for this purpose and held public consultations regarding land nominations.



Detailed information on IET's process for the Crown Land Call for Bids for Wind Energy Projects can be accessed here: <https://www.gov.nl.ca/iet/files/Guidelines-Crown-Land-Call-for-Bids-for-Wind-Energy-Projectsrev-121-March-3-2023rev-8.pdf>

Do you own the land? What is the process of getting the land?

No. ABO Energy will be leasing parcels of Crown Land, we will not be purchasing land. Now that ABO Energy has been awarded the exclusive right to pursue development on these areas of Crown land, we are working to determine for which parcels we will actually apply to the Project.

Information from public consultations, environmental studies, feasibility and engineering studies, and wind measurement campaign results will help determine what Crown lands we will ultimately submit for lease from Crown Lands. Once ABO Energy determines its land use requirements they will apply to Crown Land for a lease of that specific property. ABO Energy estimates that only 10% of the Crown Lands in reserve for the Project area are anticipated to be used for Project infrastructure and access roads. Only those lands under the Crown land application would remain in the reserve until a decision is made. All other areas will be released from the reserve.

ABO Energy will submit the Crown land lease applications by the deadline of February 2025, with the decision to approve the Crown land request with the Department of Fisheries Forestry and Agriculture (FFA). No land title will be issued by FFA until the project has been released from Environmental Assessment and the lease will likely include terms and conditions.

Individuals are still able to access Crown Lands, however we understand requests for permits to build cabins, small bridges, etc. on Crown Land within the reserve are not able to be granted at this time.

ABO Energy brought this matter up with the provincial government who advise the following:

"Industry advised government that exclusive access to a proposed project area was needed while wind-hydrogen companies completed their final project planning, site assessments and secured financing."

"On August 30, 2023, through the Call for Bid process, ABO Energy and three other companies received the exclusive right to pursue their projects through the Crown lands application process. This exclusive access was given to ABO Energy for 18-months and is set to expire on February 28, 2025."



How do people submit applications on Crown Lands? How does this Project impact my ability to apply for this Crown Land?

Please contact the Crown Lands Registry Office at 1-833-891-3249. ABO Energy is not involved in Crown Lands applications.

ABO Energy recognizes and respect your continued use of the land. However, ABO Energy is not involved with Crown Land applications. We encourage you to contact the Crown Lands Registry Office regarding questions on Crown Land submissions.

How much land is expected to be used from the Crown Lands reserve?

10% of the land shown in the Crown Land reserve area will be utilized for Project infrastructure and access roads.

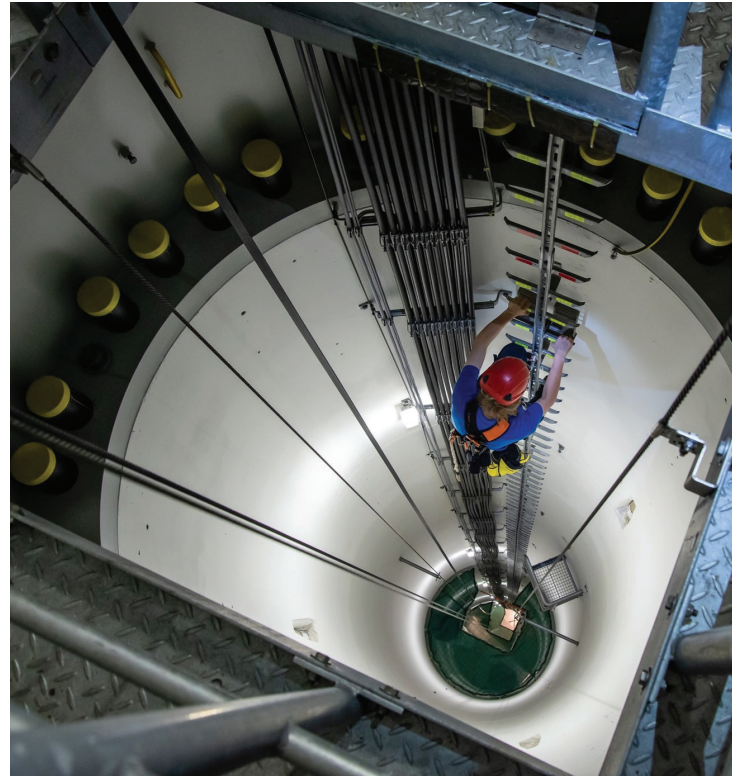
Once we determine what Crown Lands are required for a viable project that is also publicly accepted, we will know where would be ideal to build.

Supplier Development

How do I get more information on supplying local goods and services to the Project?

ABO Energy believes that communities in proximity to our Project should receive preferential attention and access to business and employment opportunities. Local experience and knowledge are also a key component of our supplier selection criteria, and this criterion will be employed in all future Requests for Proposals related to this Project. We have already begun working with local service providers.

If you are a vendor interested in providing your goods and/or services to ABO Energy, we ask that you submit your company information via our 'Supplier Registration Form' located at www.toqlukutikproject.com. Additional questions related to supplier opportunities with Project Toqlukuti'k can be directed to info_toqlulutik@aboenergy.com



Employment

Where and when can I apply for the jobs associated with the Project?

Inquiries related to employment opportunities on Project Toqlukuti'k, or resumes can be directed to info_toqlukutik@aboenergy.com. Specific employment opportunities with ABO Energy, including those related to the Project, will be posted on Career Beacon as opportunities arise. Once construction begins, we anticipate labour agreements involving unionized and non-unionized opportunities.

What type and number of jobs are associated with the construction and operations/maintenance phases of the Project?

The Project will require similar roles and skills as any traditional land-based large industrial project (labourers, operators, truck drivers, operating engineers, and various types of trades), in addition to those specially trained to be wind turbine and hydrogen technicians. The Project will involve many other types of professional roles, including engineers, administrative support and much more.

Based on the initial calculations we anticipate the Project to create approximately 5500 jobs including construction (large percentage of work and for approximately 8-10 years) and Operations & Maintenance (long-term).

We anticipate 400-500 long-term permanent jobs for the Project, including maintenance and technicians involved with the hydrogen/ammonia plant and port operations.

The Project will also help to ensure job security for the approximately 230 permanent refinery workers.

What type of education are you looking for? Where can I train to be a part of this Project?

Many types of experiential and educational backgrounds will lend themselves to the Project. The College of the

North Atlantic currently offers a Wind Turbine Technician Program (1 year) and a Hydrogen Technician Program (2 years) out of the Stephenville and Corner Brook campus locations, respectively. The project will also require traditional skills used in any major construction project such as electricians, welders etc. ABO Energy looks forward to further discussions regarding more local training programs.

Local Preference and Community and Regional Benefits

What is the employment outlook for local residents?

As part of the Environmental Assessment submission, ABO Energy will develop a local benefits plan that will outline expectations for local content and benefits to the province and to the local area.

Are you hiring local workers and suppliers?

ABO Energy has a local economic development policy and believes that communities in proximity to our projects should receive preferential attention and access to business and employment opportunities. It is our intent to maximize economic benefits for communities and their residents and promote long-term commercial growth through access to goods and service contracts, capacity training, and employment. If qualified local workers are not available, workers may come from elsewhere as needed, particularly considering the high number of skilled and specialized workers required for a Project of this size.

How will this Project secure refinery jobs?

Currently there are now approximately 200 full-time employees at the site, Braya management expressed the opinion that said that the number of employees will grow in the future because the owners have plans to increase diesel production over time, expand into sustainable aviation fuels, and become a global player in the green hydrogen industry.

How are you going to handle the housing bubble?

ABO Energy is aware of concerns regarding available housing, particularly as the Project ramps up. A housing needs requirement analysis will normally be a part of the projects socio-economic needs analysis as an element of the overall environmental impact study.

Can you guarantee that 75% of the work will stay in the region?

No, however, as per our local economic development policy, we will utilize local workers and suppliers wherever possible. Criteria requiring contractors and workers to come from other parts of Canada and the world will be dependent on critical factors including specialized skillsets, experience, type of contractor required, and availability of qualified workers.

Will there be a local office and staff?

In 2023, ABO Energy decided to open an office in St. John's to act as a home base for the ABO Energy team's operations in the province and to support the development activity.

ABO Energy has initiated a system of rotating offices throughout the region. Each month during the spring and summer (and anticipated going forward), the Project team has designated office locations in communities in the region. Area residents who have questions are welcome to drop in to discuss. Dates and locations are advertised through municipalities and their social media, posters (when possible), the Project e-newsletter, and posted on the Project website.

How will the Project benefit our communities?

ABO Energy intends to maximize economic benefits for communities and their residents and promote long-term commercial growth through access to goods and service contracts, capacity training, and employment.

ABO Energy has already engaged with and provided donations to local not-for-profit organizations and regional

municipalities for community activities (i.e., festivals), and we look forward to further community investment opportunities in the region.

How is this Project going to impact tourism?

A socio-economic impact analysis will investigate the effect of the project across a number of industrial sectors and these results will be available to the public.

Community and First Nation Engagement

What community outreach has been done to date and how do you plan to keep local communities and stakeholder groups informed?

To date ABO Energy team members have visited the area on many occasions to connect with and developed relationships with area residents, various stakeholders including local municipal councils, organizations such as local Chambers of Commerce, industry organizations such as econext and Energy NL, local tourism operators, and local not-for-profits.

ABO Energy is continuing to build relationships, listen to feedback and remain transparent through further meetings, information sessions, and through a Community Liaison Committee. ABO Energy is committed to ongoing engagement and sharing up-to-date information with stakeholders and local communities through the life of the Project.

Does ABO Energy have a MOU or partnership with First Nation and Indigenous groups?

Yes. ABO Energy is committed to transparent, meaningful, and ongoing Indigenous engagement and has signed a memorandum of understanding (MOU) with Miawpukek First Nation.

How can I provide feedback on the Project?

ABO Energy welcomes all feedback on the Project. These communications should be directed to - info_toqlukutik@aboenergy.com

How can we be kept more informed, particularly when blasting?

ABO Energy recognizes that explosive blasting demands the highest level of safety and attention to due care and caution among employees. ABO Energy is committed to following the Occupational Health and Safety guidelines for handling explosive materials and providing notice to municipalities and following all existing regulations .

How can we be a part of the WTG layout?

Once the ABO Energy technical team determines a notional layout for wind turbines, the regional communities will have an opportunity to view the plans and provide feedback for the team's consideration. More information will be shared as this is determined, including at future information sessions (open houses), anticipated during Fall 2024.

Why can't communities vote on if they want the project or not? What opportunities are there for communities to provide input to the government?

ABO Energy reached out to the provincial government on this matter, and they advise the following:

"ABO Energy's project has not been approved for development. ABO Energy has been given the right to apply for Crown Land for their project before February 28, 2025."



Environmental Assessment

Crown Land applications for the project must be approved through the provincial Crown lands application process, administered by the Department of Fisheries, Forestry and Agriculture (FFA).

No Crown land title will be issued to ABO Energy and no project can proceed to construction, unless they are released from EA, a process administered by the Department of Environment and Climate Change (ECC).

The purpose of an EA is to protect the environment and quality of life of the people of the province and facilitate the wise management of the province's natural resources. The EA process includes an opportunity for the public to provide feedback and comments before any decision is made regarding EA release.

The Government of Newfoundland and Labrador is committed to listening to Newfoundlanders and Labradorians when it comes to the development of the province's natural resources.

All Newfoundlanders and Labradorians are encouraged to engage with proponents to obtain more information on the projects and to express your views about the projects as proponents continue their planning and undergo the Crown Lands and EA processes."

Environmental Assessment

How can we be assured this Project is following proper environmental standards and protocols to protect the local environment?

Like any infrastructure project in Newfoundland and Labrador, the Project will be subject to an Environmental Assessment (EA) registration. ABO Energy has retained a local environmental consultant and completed desktop studies of environmental features in the areas of interest prior to beginning field work. We are also working closely with the Department of Environment and Climate Change to mitigate the project's impact on the environment.

What environmental studies have been conducted to date, and what else will be studied?

Desktop studies were already conducted for all areas of interest, but field studies began within the Phase 1 areas of interest in June 2023. These studies will focus on wildlife populations, with the remaining prescribed studies including wetlands and botany being carried out throughout 2024.

Through these studies, we will be able to assess, verify and compile valuable environmental and ecological data to support the development of the Environmental Assessment Registration document (EAR). The requirements for baseline assessment studies have been identified per the guidelines provided by the Government of Newfoundland and Labrador's Department of Environment and Climate Change.

ABO Energy is also working together with Miawpukek First Nation to determine potential studies that may be conducted relating to Traditional Land Use.

Has an Environmental Assessment Registration been made? What stage is it at?

Currently, environmental field studies are in progress within the Phase 1 areas of interest and consultation within the local communities is ongoing. This is in anticipation of the Environmental Assessment Registration for the first phase being submitted in early 2025.

Will the environmental assessment be all done at once?

No, we will start with the smaller Phase 1 area near Come By Chance. We will focus on the Environmental Assessment Registrations for Phases 2-3 later, as they will be constructed later in the decade.

What is involved in the environmental, regulatory and permitting process?

The primary regulatory requirements are dependent on the Project's jurisdiction including federal, provincial, and municipal permits and approvals. Each permit or approval will have their own regulatory requirements

that may range from public consultation, environmental field studies, noise and shadow assessments to help demonstrate the Project is planned in a manner with the least potential impacts and can be built and operated in a sustainable manner. The most significant permit for this Project is the provincial Environmental Assessment Registration. ABO Energy is working with a local environmental consultant to complete the registration documents and associated fieldwork for this project. We have also regularly consulted with the Province's Department of Environment and Climate Change on field work plans and document drafts, which will continue throughout the permitting process.

Impact on Wildlife

How is this going to impact caribou and moose populations in the area?

Caribou and moose populations, habitat and migration patterns will be studied as part of the environmental studies required for the Environmental Assessment. Study results and mitigation measures will be included within the Environmental Assessment Registration document.

Ongoing environmental assessment will determine baseline data to support the regulatory process for project approvals. In the event that a potential impact has been identified through the Environmental Assessment process, mitigation will be developed, reviewed and implemented.

Will the Project have any impacts on wildlife and birds or other aspects of the local environment?

ABO Energy is working through a diligent environmental constraints analysis to mitigate risk of any impacts to local wildlife. Robust environmental studies will be completed during the Environmental Assessment process to develop an understanding of habitat conditions as well as the birds and wildlife utilizing the site.

Results of the studies will be used to develop innovative and effective mitigation strategies specific to the local area and wildlife. We will work closely with our environmental consultants and regulators throughout the Environmental Assessment process to reduce impact on the local environment.

Visual Impact

What are the likely impacts on view planes due to the WTGs?

We will be incorporating local feedback into our planning and doing visualizations to show what key areas may look like with wind turbines. Such visualizations would be shared at future open houses and on the Project website. If you have a particular area or view you are concerned about, please contact us at info_toqlukutik@aboenergy.com

Impacts on Water and Watershed

Will Project infrastructure go close to the ocean and local beaches?

The preferred layout of ABO Energy's turbines are yet to be determined. Every consideration is given to ecologically sensitive areas, watersheds and wetlands and other sensitive sites that are identified during our assessment of the area.

What will you do to protect local watersheds?

There are appropriate setbacks in place to protect ecologically sensitive areas such as local watersheds.



What is the water demand for this Project?

The water demand depends on the water quality and the electrolyzer technology. As a rule of thumb, you can calculate 10 LI of ultra-pure water per 1kg of hydrogen. The overall water demand of the project is still not known as we are in an early engineering stage. Once the sizing of the hydrogen facility is finalized and the water demand is known we will share the information.

Where will the water come from?

As water is the most important feedstock it is crucial that we have a sustainable water source. We are currently analyzing different options for the water source. As part of the regulatory process, a water permit will need to be approved by the government.

Wind Turbine Generator (WTG)

What is a WTG?

A WTG is a Wind Turbine Generator – it is simply a turbine (power generator) powered by wind energy.

Is wind energy sustainable?

Several studies have confirmed that wind turbines will offset the CO₂ emitted during their manufacture and installation, typically during the first 7 to 9 months of operation. Considering the energy required for manufacture, installation, and eventual decommissioning, wind turbines produce significantly less CO₂ per megawatt of electricity than fossil fuel-based generation.

How large are WTGs?

ABO Energy will decide on a wind turbine model later in the development stages. However, the average hub height of the machines being assessed is 120m with a blade length of 80m, resulting in a tip height of approximately 200m.

What wind speeds can the WTGs handle?

Current wind turbines are designed to shut down once wind speeds reach about 95 km/h, depending on the manufacturer.

What are the specifications of the WTGs for the Project compared to those in Fermeuse?

The wind turbines in Fermeuse have a hub (base) of 80m and a rotor radius of 45m for a total height of 125m. Depending on the turbine model chosen by ABO Energy for the Project, it is estimated that the hub will be about 120m with a rotor radius of 80m for a total height of 200m. A comparison of the proposed Project WTGs with those of Fermeuse is attached as Appendix E.

Fermeuse is reported to have nine 3-megawatt wind turbines producing approximately 27-megawatts of power at capacity.

How does the WTG compare in height to cell towers?

Traditional cell towers, typically stand-alone towers, are usually between 15m - 35m, but some cell towers can be as tall as 65m. The hub of a wind turbine is estimated at around 119m.

Will the WTGs create much noise?

In the absence of existing provincial regulations, we will follow best practices for noise regulations from other regions in Canada. We will strive to remain below 40dB as required in other provinces. Wind turbines generate noise at a level between 35-45 dB or as noted above equivalent to a quiet whisper. Modern wind turbines are much quieter than 1st generation turbines of 20 years ago.

How far away from WTG do you need to be to be safe from noise?

During the site selection phase, setbacks are applied to ensure compliance with industry best practice and appropriate provincial regulations for noise.

There are over 75,000 operational wind turbines in Canada and United States and there are now over 100 peer-reviewed published scientific articles on the potential for health impacts living in proximity to wind turbines. Although audible sound, infrasound and low frequency noise (LFN) are emitted from wind turbines it is not at a level that causes health impacts, headaches, nausea, sleep problems and tinnitus. LFN or infrasound are a common occurrence produced from wind itself and other human sources including road traffic, refrigerators, air conditioners, farm machinery, and airplanes.

Infrasound can be defined as sound waves with frequencies below the lower limit of human hearing. We will design the Project to meet provincial regulations regarding audible sound criteria.

Humans are exposed to infrasound on a regular basis from several natural and engineered sources, at levels that generally exceed those produced by wind turbines. Additional information can be found at the Health Canada Wind Turbine Noise Study website: pamphlet-brochure-eng.pdf (canada.ca)

What are the setbacks for cabins, or other dwellings?

Current protocols suggest that normal setbacks from residential areas and cottages will be set at 1000m (1km)

Why are the WTGs not being considered for open water?

Although offshore wind turbines are being developed in many parts of the world, ABO Energy's expertise is in the development of onshore wind. There is currently a Regional Assessment for Offshore Wind Development ongoing within the Atlantic Canadian region, but at this time development of offshore wind in the Atlantic provinces is not regulated. ABO Energy does not plan to build offshore turbines for this Project.

What sized area is needed for the footprint of a WTG?

Approximately 100 square meters of land will be required for each turbine hub and associated infrastructure. Other safety measures may be put in place for public safety.

Why can't WTG have one black blade? Why do they all have to be white? Why can't you lobby to Transport Canada to change this?

A Norwegian study has shown that painting one turbine blade black can reduce collisions with birds (Paint it black: Efficacy of increased wind turbine rotor blade visibility to reduce avian fatalities, 26 July 2020, <https://doi.org/10.1002/ece3.6592>) however we must abide by colouring and lighting specifications from Transport Canada. It is also worth noting that from a technical point of view, the colouring of individual rotor blades can possibly lead to imbalances if the paint noticeably increases the weight of a blade.

Nonetheless, ABO energy has committed to follow up with Transport Canada regarding their current regulations, to investigate the possibility of using one black blade if beneficial.

What are the health concerns associated with the turbines?

Health Canada conducted the largest study in the world of people living, working and playing near wind turbines.

The overall conclusion to emerge from the study findings is no evidence of an association between exposure to wind turbine noise and the prevalence of self-reported or measured health effects beyond annoyance (Health Canada, 2020, https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/noise-bruit/turbine-eoliennes/pamphlet-brochure-eng.pdf)

Regardless, the Project will incorporate setback distances from homes to mitigate impact from sound.

Number of Turbines and Location

How many turbines are proposed?

60-120 WTG are anticipated in Phase 1 to provide clean power to the Come by Chance Refinery, increasing to close to 800 WTG for three phases over the construction period. Technologies can change over time so this number may reduce depending on turbine efficiencies, in addition to additional environmental constraints, engineering studies and further local consultation.

Where are the turbines going?

The layout of turbine locations are yet to be determined, but will be located on selected parcels of Crown land that ABO Energy will apply for within the lands currently in reserve for this Project. Engineering, wind measurement, and environmental impact studies currently underway will help determine the optimum layout for wind turbines associated with the Project. Local feedback and reasonable setbacks from homes and cottages will also be incorporated into the decision on where to place turbines. We aim to minimize community impacts where possible, while at the same time ensuring a viable project.

ABO Energy's Environmental Assessment will further assist in determining the specific location of WTGs.

Project Decommissioning

What is the life expectancy of the Project?

The lifecycle of a wind turbine is typically 20-30 years with the possibility of an extension through repowering. The expected life of a hydrogen electrolyzer's stack components is 6-10 years before requiring replacement. These stacks would be replaced consistently throughout the life of the rest of the project.

What happens to the turbines and associated infrastructure at the Project's end of life?

When it comes to the end of life for a wind project there are two options: decommissioning and repowering.

Repowering: This is depending on several considerations, including the health of the foundations and other components onsite, the economics of the power being generated at the site, and the new technology available at the time of deciding to repower or decommission an aged wind farm. Repowering a site will ultimately extend the life of the project, without the need for new project development to continue producing renewable energy. (Canadian Renewable Energy Association, 2023, Repowering and Decommissioning – Canadian Renewable Energy Association (renewablesassociation.ca)).

Decommissioning: Through changing economic conditions, wear and tear from many years of operation, at times a decision is made to decommission a wind farm and remediate the land to the equivalent of its original state. Decommissioning involves site dismantling, extracting all recyclable materials, and disposing of any other materials in compliance with local requirements (Canadian Renewable Energy Association, 2023, Repowering and Decommissioning – Canadian Renewable Energy Association (renewablesassociation.ca)).

Steel tower sections, steel reinforcement, electrical equipment and cables, precious metals, and concrete can be recycled, repurposed or salvaged. Other materials that cannot be recycled, repurposed or salvaged will be disposed of according to local/provincial regulations.

Will the turbines be buried after?

There will be a decommissioning and reclamation plan required as part of the Environmental Assessment which will address waste disposal for the Project. Recycling of wind turbines is a more cost effective and environmentally friendly alternate to disposal which will be considered.

What happens to the blades?

Many turbine components can be recycled. The blades have not historically been recycled however the wind industry is actively developing recycling processes for the blades that are expected to be implemented at a commercial level in the near future. The Proponent will recycle as many parts of the turbine as reasonably possible.

Wind Turbine Operation

What about ice accumulation on turbine blades?

ABO Energy recognizes the unique climate in Newfoundland and Labrador and as such, ice and weather conditions will be taken into consideration when selecting a wind turbine model. Also, a deicing plan will be developed and implemented to ensure the safe and continued operations of the turbines during the winter season.

How do you select the WTG for bad weather?

MET - or Meteorological Evaluation Towers - will assess all conditions of wind speeds prior to installing any wind turbines. The ability of the MET to measure wind speeds will help us to verify the wind characteristics at potential sites to determine suitability for wind turbine placement. The selection of WTG type will be suitable for the anticipated conditions in the area. Further, when wind speeds reach a certain threshold, the wind turbine will automatically shut off (approximately 95 km/h).

What is a capacity factor?

Capacity factor is the ratio of the actual energy produced in a given period, to the hypothetical maximum possible, for example running full time at rated power.

When does the WTG turn on and off?

Wind turbines are governed by wind speeds. Turbines are monitored to ensure operational integrity. Turbines are protected from excessive wind speeds. When wind speeds reach a certain threshold, the wind turbine will automatically shut off (approximately 95 km/h).

MET Towers

What is a MET tower, who is installing them, and when, and how many will there be?

As mentioned in the recent information session presentations, ABO Energy will be installing a MET tower to measure wind. A third-party contractor (TEP) and their subcontractor (WesTower Communications) will conduct the first installation of a MET tower.

A MET tower, short for “meteorological evaluation tower” is a wind measurement tower to verify wind speeds in certain locations. It looks like many cellphone towers that are already installed throughout the region. The first MET is in the hills North of Southern Harbour and Southern Harbour Station, on the East side of the TCH.

This measurement activity will help inform the Toqlukuti’k Wind and Hydrogen Project as it comes to expected wind speeds for planning wind turbine installations. It will also support the wind feasibility scope of the Project’s Environmental Assessment Registration. There will be additional MET installations as the Project planning progresses.

Why is it being constructed before the EAR?

Information gathered from a MET tower is an important early step to help the Project team understand expected wind speeds for planning wind turbine installations. It will support the wind feasibility scope of the Project’s Environmental Assessment Registration.

Green Hydrogen

What is Green hydrogen and what makes it “green”?

Different colours of hydrogen are defined depending on how the hydrogen is produced. There are several common production methods and corresponding colour designations of hydrogen. The colour designations are based on the different effects on the environment that result from the various processes. Green hydrogen is hydrogen that is produced by splitting water using an electrolyzer. The electricity for the electrolyzer must be generated from renewable sources, such as wind, PV power, or hydropower, if the resulting hydrogen is to be labeled green. This ensures that no CO₂, or other environmentally harmful by-products, are released during hydrogen production.

Why is green hydrogen the solution to Europe’s energy problems?

Green hydrogen is one of the key elements for Europe to reach its climate target and to ensure energy security. Green hydrogen can be a solution to Europe’s energy problems for several reasons, including its carbon-free nature, ability to be stored for a longer time and distributed, and its versatility in uses. After being transformed into its derivatives such as ammonia, it can be easily exported all over the world for use in industrial processes, heating, electricity, and automotive or other transportation use.

Why not just build in Germany if the power will be going there?

Germany has a lack of available land and wind resources to meet their needs and thus will rely on imports. In contrast, NL has a significant amount of unpopulated land, a world-class wind resource, an abundance of fresh water, and is in close proximity to Europe for export. This makes NL a strategic location to produce green ammonia.

Green Ammonia

Why does the hydrogen have to be turned into ammonia to export it?

It is possible to transport hydrogen as a compressed gas or liquid, however, compared to hydrogen, ammonia has several decisive advantages in terms of long-distance transport. Characteristics including high energy density and ease of liquefaction allow it to be used in existing plants, transportation, and terminal facilities. Furthermore, if needed, ammonia can be converted to pure hydrogen on the import side, without carbon emissions. Moreover, it has already been produced on a large-scale industrial application; therefore, handling and transport of ammonia is well known.



What safety concerns and risks are associated with ammonia?

Ammonia is a controlled substance that is managed under regulation by Transport Canada.

Ammonia and hydrogen have already been produced on a large-scale industrial application for more than a century; therefore, handling and transport well known. In fact, Ammonia is a controlled substance that is managed under regulation by Transport Canada.

Nonetheless, full analysis of all safety risks and emergency response plans and mitigations would be in place prior to any production. ABO Energy and any other companies or contractors involved in this Project must have safety at top of mind and follow all safety and emergency response protocols, from site visits to construction and operations. Emergency response protocols will be in place, and handlers must be equipped with PPE and also maintain any appropriate training certificates.

What is the regulatory process to transport ammonia?

Transport Canada develops safety standards and regulations, provides risk-based oversight and gives expert advice on dangerous goods to promote public safety in the transportation of dangerous goods by all modes of transport. More information can be found on the Transport Canada website: <https://tc.canada.ca/en/corporate-services/acts-regulations/list-regulations/transportation-dangerous-goods-regulations>

Who would be the offtaker of ammonia?

ABO Energy will work with market specialists to determine offtakers for hydrogen produced from Phase 2 & 3 of the project.

Braya Requirements

How much energy does Braya need?

ABO Energy is continuing to evaluate the needs of Braya's facility as part of the engineering feasibility study for Phase 1 of the Project. The estimated power required from our wind generation in this phase is 300-700 MW.

How big will the hydrogen unit be?

There are many variables that impact the size of the electrolyzer to be used at the Braya plant to produce hydrogen. ABO Energy will have a better idea of the required size of the electrolyzer once the feasibility study is completed.

How does the H₂ production process work?

Green hydrogen ("GH₂") is hydrogen that is produced by splitting water using an electrolyzer, in a process called electrolysis. The electricity for the electrolyzer must be generated from renewable sources, such as wind in this case, if the resulting hydrogen is to be labeled green. This ensures that no carbon dioxide (CO₂), or other environmentally harmful byproducts, are released during hydrogen production.

Access to Project/Other Sites

What type of road access is needed for wind turbines?

Access roads will be engineered to allow for Hubs, Rotors and Generators to be brought to site during the construction period. Following construction, many roads will be maintained as access roads.

Will the roads be accessible to local residents?

Generally speaking, access roads that are created or upgraded for the Project will be accessible. However, access would be limited or prohibited in certain areas during active construction to ensure the safety of workers and area residents alike. It is the intention of ABO Energy to allow residents access to these roads following construction. There will be protocols in place during the construction of the project to ensure that workers and residents are safe.

Will there be restricted areas around the turbines and or to the access roads during the construction and maintenance phases?

ABO Energy will work to determine where and when restricted access would be required. Generally, any restrictions will be associated with preventing a safety hazard to the general public, workers, and for protection of the onsite equipment.

Will the Project need to access the T’railway?

All existing trails are assessed as part of the environmental assessment process. We are focused on and aware of the T’railway as an area to avoid wherever possible in consideration of community use and through following provincial regulations. However, we may intersect (cross) the trail with our access roads if required, depending on the final Project design and available access routes. The T’railway would only be crossed pending required permitting and approvals through the provincial government.

What is the impact to recreational fishermen of increased vessel traffic?

Marine traffic falls under the purview of Transport Canada and the regional port authorities. ABO Energy will follow all established protocols that promote marine safety for recreational fishers and the traditional fishing grounds of inshore fisher people.

Project Infrastructure and Development

What infrastructure will need to be built for this project?

Project infrastructure will include a number of key components, broken down into Wind and Hydrogen facilities.

Infrastructure associated with the Hydrogen Facility would be located on-site or within close proximity to the existing Come By Chance refinery. Infrastructure associated with the Wind Farm would be located on Crown Lands in the Isthmus and Clareville region.

Hydrogen Facilities:

- > Hydrogen Production Facilities including Electrolyzers
- > Hydrogen storage facilities
- > (Future Expansions) Ammonia Production facilities
- > Ammonia storage facilities
- > Ammonia export facilities

Wind Facilities:

- > Wind turbines
- > Measurement Equipment
- > Access roads
- > Electrical transmission lines
- > Collector lines
- > Substations
- > Operations and Maintenance Facilities

When will construction begin, and when will the Project be operational?

Pending regulatory approval, the current schedule has construction slated to begin in 2026 for the Phase 1 portion of the Project. The first commercial operation date (COD) of Phase 1 is 2027. The current schedule considers project specific permitting requirements and construction conditions, equipment lead times and represents a realistic development and construction timeline. As with any major development, the schedule may be modified to accommodate unexpected circumstances.

Where will the transmission lines be sited?

At this time transmission routes have yet to be determined. As we gain more information about the area from technical studies and local consultation, our technical team adjusts the proposed Project layout and route of transmission lines. ABO Energy is committed to keeping the local communities up to date on developments with respect to the Project layout and location of transmission lines.

Where are the staging areas?

This will be determined through our engineering and environmental studies. Once determined communities will be made aware in advance of any construction.

Where will site security be located?

Security locations will be established by the contractor engaged on the project in accordance with established construction safety protocols.

How much blasting are you doing?

At this time, it is not known how much blasting will be required. ABO Energy's site assessment teams will make the determination as to installation needs of each turbine. If blasting is required, all appropriate permits and approvals will be in place. ABO Energy will follow all safety protocols required when using blasting materials. As this information becomes available, ABO Energy will provide and update via our website and other forms of community communications.

Where are your gravel pits going?

At this time, the location of gravel pits is not known. As this information becomes available, ABO Energy will provide and update via our website and other forms of community communications.

Acronyms

AB	Alberta
ACAC	Arnold's Cove Area Chamber of Commerce
CACC	Clareville Area Chamber of Commerce
FAQ	Frequently Asked Questions
IET	Department of Industry, Energy and Technology
MET	Meteorological Tower
MFN	Miawpukek First Nation
MW	Megawatt
NL	Newfoundland and Labrador
Q/A	Question and Answer
TCH	Trans Canada Highway
WTG	Wind Turbine Generator

Appendices

Appendix A - Householder Distribution

Appendix B - Invitation to Project Information Sessions

Appendix C - Invitation to Business Information
Session/Luncheon

Appendix D - Information Panels

Appendix E - Fermeuse WTG Comparison

The ABO Wind Project team is eager to have conversations with residents, land users, and other key stakeholder groups in the region to help shape the Toqlukuti'k Wind and Hydrogen Project. Our team aims to understand what matters most to you as we begin to plan and develop this renewable energy project.

ABO Wind is hosting a series of information sessions in the Project vicinity to introduce our Toqlukuti'k Wind and Hydrogen team, inform communities about the Project and most importantly, to hear your feedback.

Upcoming Project Information Sessions

Monday, March 18

Sunnyside

2:30-4:30pm (15 min presentation at 3:30pm)
Sunnyside Recreation and Wellness Centre

Chance Cove

7-8:30pm (15 min. presentation at 7:30pm)
Chance Cove Community Centre, 108 Main Rd.

Tuesday, March 19

Southern Harbour

2:30-4:30pm (15 min. presentation at 3:30)
Town Hall Building, 6 Municipal Dr.

Come By Chance

7-8:30pm (15 min. presentation at 7:30pm)
Come By Chance Lions Club, 22-24 Lions Place

Wednesday, March 20

Clareville

3-5pm (15 min presentation at 4pm)
6-8pm (15 min. presentation at 7pm)
Clareville Inn, 134 Trans-Canada Hwy.

Thursday, March 21

Arnold's Cove

7-8:30pm (15 min. presentation at 7:30pm)
Community Centre, 42 Spencer's Cove Rd.

About ABO Wind

Toqlukuti'k Wind and Hydrogen's NL-based team is in St. John's and will also be working from the local Project area. ABO Wind is committed to transparent, meaningful, and ongoing Indigenous, community, and stakeholder engagement.

Teams in approximately 30 offices worldwide, including St. John's and Halifax, are backed by our headquarters in Germany.



Founded in 1996, ABO Wind successfully develops and builds wind and solar farms as well as battery storage and hydrogen projects.

➔ Visit www.abo-wind.ca to learn more about our company.

Website:
www.toqlukutikproject.com

Inquiries:
info_toqlukutik@abo-wind.com







Toqlukuti'k Wind and Hydrogen Project

A major renewable project in Newfoundland and Labrador, powered by the province's world-class wind.

ABO Wind is developing the Toqlukuti'k Wind and Hydrogen Project, located in the vicinity of the Isthmus of Avalon. ABO Wind intends to develop a total of 5 GW (5,000 MW) of renewable energy.

Upcoming Drop-in Information Sessions
March 18 - 21, 2024 - *Information Inside*



The Project

ABO Wind Canada Ltd. and partners Miawpukek First Nation and Braya Renewable Fuels are developing Toqlukuti'k Wind and Hydrogen Ltd. This is a multi-phased, integrated Project that will harness wind energy, using wind turbines, to provide green ammonia for export to the global market and green hydrogen to further decarbonize the production of Braya's refinery in Come By Chance. ABO Wind intends to develop a total of 5 GW (5,000 MW) of renewable energy.

In August 2023 ABO Wind Canada was awarded the exclusive right to pursue development of its Toqlukuti'k Wind and Hydrogen Project through the Province's Crown Land Call for Bids for Wind Energy Projects.

The name Toqlukuti'k Wind and Hydrogen was a collaboration with Miawpukek First Nation and originates from the traditional Mi'kmaq language of the Miawpukek First Nation, meaning "working together" (pronounced 'dok loo- gu-tik'), a reference to our partnerships.

Location

The Project will be constructed in relative proximity to the Come By Chance refinery, including areas around the Avalon Isthmus, that were included as part of the Crown Land nomination areas for wind development.

There are a variety of key infrastructure components that the Project could include, broken down into Wind and Hydrogen facilities. Infrastructure associated with the Hydrogen facility would be located within close proximity to the existing Come By Chance refinery. Infrastructure associated with the Wind Farm would be located on Crown Lands in the Isthmus region, and in later phases of the Project, also towards the Clarenville area.

Project Planning

Pending regulatory approval, construction is currently anticipated to begin during 2026 for the Phase 1 portion of the Project.

Prior to construction there will be ongoing wind measurement campaigns, environmental and engineering studies, and public engagement, to help refine exactly what lands will be used for the Project. In 2025, we will be applying for specific parcels of Crown land within the area temporarily reserved for ABO Wind as part of the Crown Land Call for Bids for Wind Energy Projects process.

Like any infrastructure project in NL, Project Toqlukuti'k will be subject to an Environmental Assessment, with an ongoing goal to mitigate the Project's impact on the environment and neighbouring communities.

Opportunities

ABO Wind is guided by our Local Economic Development Policy to provide full and fair opportunity to the local labour force, vendors, and suppliers. It is ABO Wind's intent to maximize economic benefits for communities and their residents. Businesses can now register as a supplier/vendor by completing the Supplier Registration Form on our Project website: www.toqlukutikproject.com.

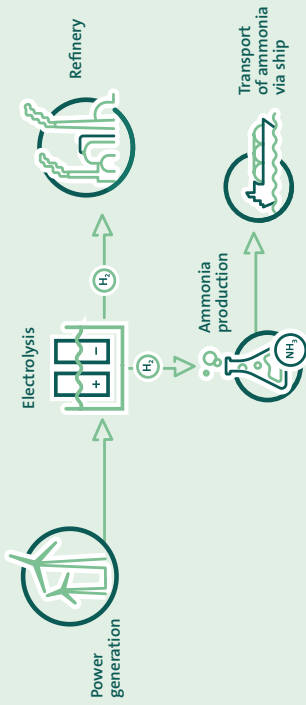
The Project is anticipated to create several thousands of jobs throughout the life of the project - during construction and Operations & Maintenance. It will also help ensure job security for hundreds of permanent refinery workers.

2027-2029 Phase 1 operational	Green Hydrogen for Refinery, Powered by Onshore Wind Near Come By Chance
2028-2030 Phase 2 operational	Powering Electrolyzer to Prepare for Green Ammonia Export
2032-2034 Phase 3 operational	Ammonia Expansion: Global Export of Green Ammonia

Green Hydrogen

Green hydrogen is one of the key elements for Europe to reach its climate targets and to ensure energy security. It is produced by splitting water using an electrolyzer. The electricity for the electrolyzer must be generated from renewable sources, such as wind.

Green hydrogen will be used locally to further decarbonize the low carbon fuels produced at Braya's refinery in Come By Chance. It will also be converted into ammonia for export to global markets – compared to hydrogen, ammonia has several advantages in terms of long-distance transport.



Toqlukuti'k Wind and Hydrogen

**ABO
WIND**

Clarenville – Project Information Sessions Wednesday, March 20

Session 1:

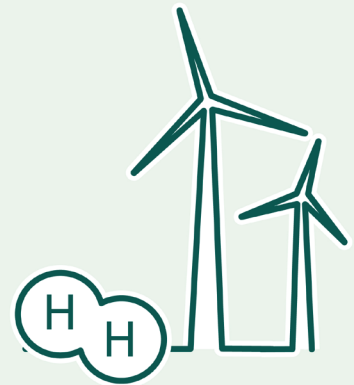
3-5pm

(15 min presentation at 4pm)

Session 2:

6-8pm

(15 min. presentation at 7pm)



 Clarenville Inn, 134 Trans-Canada Hwy.

Toqlukuti'k Wind and Hydrogen

ABO WIND

Isthmus of Avalon - Project Information Sessions

Monday, March 18

Sunnyside
2:30-4:30pm
(15 min presentation
at 3:30pm)
Sunnyside Recreation
and Wellness Centre

Chance Cove
7-8:30pm
(15 min. presentation
at 7:30pm)
Chance Cove
Community Centre,
108 Main Rd.

Tuesday, March 19

Southern Harbour
2:30-4:30pm
(15 min. presentation
at 3:30)
Town Hall Building,
6 Municipal Dr.

Come By Chance
7-8:30pm
(15 min. presentation
at 7:30pm)
Come By Chance Lions Club,
22-24 Lions Place

Thursday, March 21

Arnold's Cove
7-8:30pm
(15 min. presentation
at 7:30pm)
Community Centre,
42 Spencer's Cove Rd.





INFORMATION LUNCHEON



ABO
WIND



21 MAR, 2024

12:00 - 3:00 PM

**QUALITY INN,
TCH CLAREVILLE**

**SPEAKING ON THE
PROCUREMENT
OPPORTUNITIES FOR
REGIONAL BUSINESSES**

Please call

709-466-5800

OR E-MAIL

INFO@CLARENVILLEAREACHAMBER.COM

to register

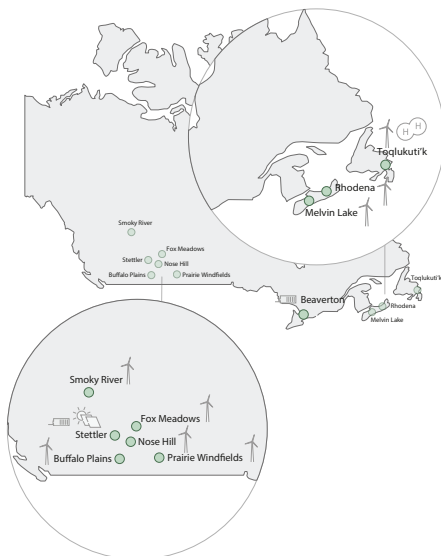
**MEAL:
FISH & CHIPS +
TEA/COFFEE & DESSERT**

*PLEASE INDICATE IF YOU HAVE SPECIAL
DIETARY NEEDS

\$35.00 + TAX

ABO Wind – Globally Connected, Locally Focused

**ABO
WIND**

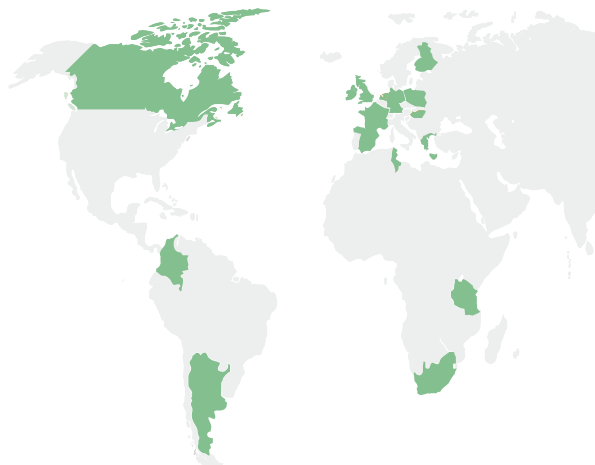


ABO Wind in Canda

A company since 1996, now over 1200 employees worldwide, 30 in Canada, with a growing team in NL including Project Managers, a Communications and Engagement Lead, and a Project Coordinator. Newfoundland's office is in St. John's, with plans for an additional presence in the local region.

ABO Wind Canada Ltd. is a subsidiary of ABO Wind AG and was founded in 2017. ABO Wind Canada Ltd. developed Canada's largest wind development to date, the 515 megawatt (MW) Buffalo Plains Wind Farm in Alberta.

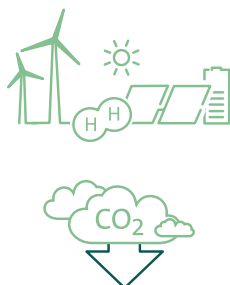
In 2022, ABO Wind Canada opened an office in Halifax. In 2023, with the advancement of proposed activities in NL, we saw the need to create a foundation in the region.



Internationally active in 16 countries:

Europe, North and South America, Africa

- Bringing international wind and hydrogen expertise to this Project, working working alongside the local team
- Core business is renewable development and construction



We work for our future:

- ABO Wind takes a holistic approach in the fight against the climate crisis through developing wind, solar, green hydrogen, and battery systems
- Green hydrogen from renewable energy will play a major role in decarbonizing hard-to-abate sectors in industry, peak power generation and transport
- Over 2 million tons of carbon dioxide emissions avoided each year as a result of ABO Wind's existing renewable energy projects

Company: www.abo-wind.ca
Project: www.toqlukutikproject.com



A Major Project with Significant Opportunities

**ABO
WIND**

Clean, renewable energy production will create significant opportunities in the region, and across the province.

Newfoundland and Labrador is competing in a global marketplace with several strategic advantages:

- World class wind resources, deep water ports, skilled labour and experienced contractors (working at home and away), and a strategic location to Europe for exports.

ABO Wind Canada recognizes the importance of strong local connections and leveraging local expertise and knowledge.



Local Economic Development Policy:

- Communities in proximity to our projects should receive preferential attention and access to business and employment opportunities as we develop the project.
- Intent to maximize economic benefits for communities and their residents and promote long-term commercial growth through access to goods and service contracts, capacity training, and employment.



This Project is expected to provide sizable local job and procurement opportunities:

- Based on initial calculations, we anticipate 5500 jobs including construction making up a large percentage of the work and lasting for approximately 8-10 years and Operations & Maintenance (long term).
- The Project will also help to ensure job security for the approximately 300 permanent refinery workers.
- Overall, the Project will bolster local employment in the growing renewable energy sector and the regional economy from direct contracts to spin-off opportunities. Construction is expected to begin in 2026 for Phase 1, occurring for close to a decade to complete all phases.



Vendors and Suppliers

If you are a local vendor interested in providing your goods and/or services to ABO Wind Canada Ltd. we ask that you submit your company information via our 'Supplier Registration Form' located on our website, www.toqlukutikproject.com



Construction & Infrastructure

There are a variety of key infrastructure components that the Project would include, broken down into Wind and Hydrogen facilities. Many types of professions and trades will be involved in all elements of constructing and operating this Project.

Infrastructure associated with the Wind Farm would be located on Crown Lands in the Isthmus region, and in later phases of the Project, towards the Clarenville area.

- Wind turbines and measurement towers
- Access roads
- Electrical transmission lines and collector lines, and substations
- Operations and maintenance facilities

Infrastructure associated with the Hydrogen Facility would be located within close proximity to the existing Come By Chance refinery.

- Including hydrogen and ammonia production and storage facilities
- Export facilities

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Timeline and Environmental Considerations

Project timeline

Toqlukuti'k Wind and Hydrogen is broken down in three phases, to be constructed over the next decade or so.

Pending regulatory approval, construction is currently anticipated to begin in 2026 for the Phase 1 portion of the Project.

Environment

Like any major infrastructure project in NL, Project Toqlukuti'k will be subject to an Environmental Assessment, with an ongoing goal to mitigate the Project's impact on the environment.

- ABO Wind has retained a local environmental consultant and completed desktop studies of environmental features in the areas of interest prior to beginning field work.
- We are also working closely with the NL government's Department of Environment and Climate Change to mitigate the project's impact on the environment.
- We are partnered with and working with Miawpukek First Nation for this Project. This will also include thorough consultation, collaboration, and traditional land use studies.
- Knowledge of additional constraints to avoid through information sessions, meetings with residents and other interested groups, environmental studies, and specific Environmental Assessment requirements will together determine the Project's footprint.

Our environmental consultant

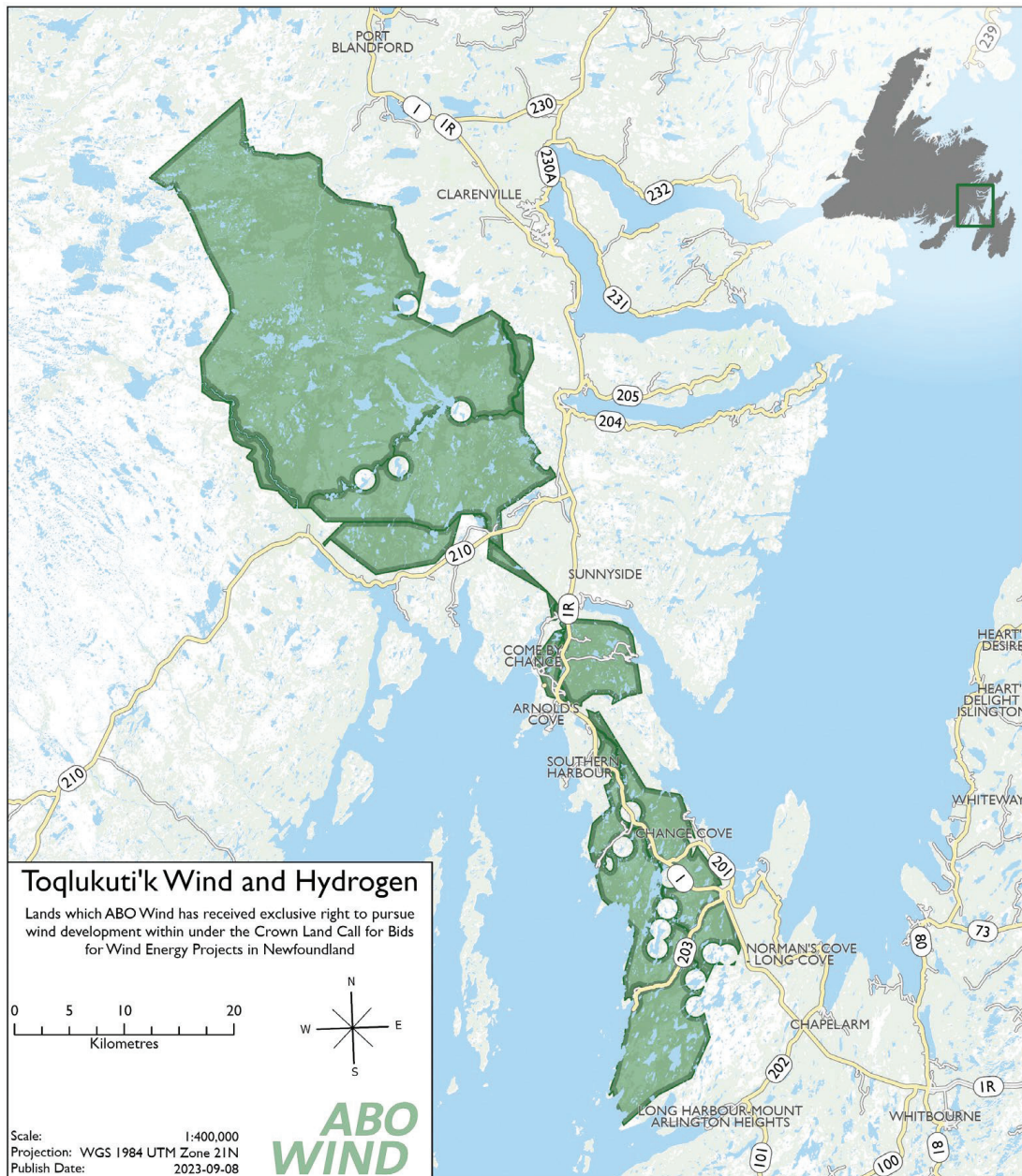
- GEMTEC Consulting Engineers and Scientists have been retained to complete environmental baseline studies as part of the Environmental Assessment Registration.
- Preliminary desktop studies, including site specific environmental constraint analysis and regulatory consultation, were completed in 2023 to gain an understanding of the Site's existing conditions and support project planning purposes.
- In 2023 and early 2024, the following field programs were completed:
 - Site Reconnaissance for accessibility, surface geology, and high-level ecological components.
 - Breeding Bird Assessment, Wildlife Acoustic Monitoring, targeted Bat acoustic detection, and avifauna overwintering surveys.
- In 2024, baseline studies will continue to provide a comprehensive assessment of the site's existing conditions.

Ongoing	Consultation and engagement with local community groups, land users, businesses, First Nations, government, and other relevant organizations in the region. Consultation will continue throughout the life of the Project
2024	Environmental field studies, MET (wind measurement tower) will be installed, geotechnical (ground) and engineering feasibility studies begin
2025	First Environmental Assessment Registration and Crown Lands applications for parcels within the larger areas that ABO has been awarded the exclusive right to pursue development by the Government of Newfoundland and Labrador's Department of Industry, Energy and Technology (IET)
2026	Construction is anticipated to begin (further local hiring and connecting with contractors, technical specialists and other relevant vendors will occur as we ramp-up to construction)
2027-2029	Phase 1 operational – Green Hydrogen for Refinery, Powered
2028-2030	Phase 2 operational – Powering Electrolyzer to Prepare for Green Ammonia Export
2032-2034	Phase 3 operational – Ammonia Expansion: Global Export of Green Ammonia
*Schedule is preliminary and subject to change	



Toqlukuti'k Wind and Hydrogen Map

**ABO
WIND**



Company: www.abo-wind.ca
Project: www.toqlukutikproject.com

Green Hydrogen produced from Wind

**ABO
WIND**

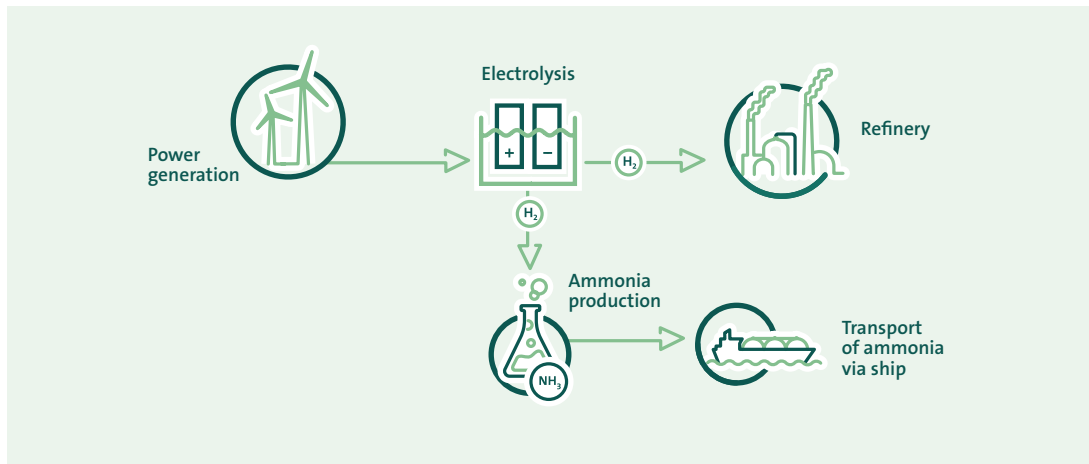
Unlike a typical grid-tied wind farm the purpose of this Project is to power an electrolyzer facility for the production and export of green hydrogen and green ammonia.

What is it?

Green hydrogen ("GH₂") is hydrogen that is produced by splitting water using an electrolyzer, in a process called electrolysis. The electricity for the electrolyzer must be generated from renewable sources, such as wind in this case, if the resulting hydrogen is to be labeled green. This ensures that no carbon dioxide (CO₂), or other environmentally harmful byproducts, are released during hydrogen production.

How will it be used?

- **Local Use for Come By Chance Refinery:** Renewable energy from wind turbines in the region will provide green hydrogen to further decarbonize the renewable fuels produced at Braya Renewable Fuels' refinery in Come By Chance.
- **Export to the global market:** Green hydrogen is one of the key elements to assist Europe to reach its climate targets and to ensure energy security. Green hydrogen can be a solution to Europe's energy problems for several reasons, including its low carbon intensity, ability to be stored for a longer time prior to distribution, and its versatility in uses.



Did you know?

The war in Ukraine has highlighted the need for European countries to have clean, secure, and ethical energy sources. In recognition of this, Canada and Germany signed the Canada-Germany Hydrogen Alliance in 2022. As the subsidiary of a German parent company, ABO Wind Canada is uniquely positioned to fulfill the ambition of that Agreement.

Why is Green Hydrogen often converted into Ammonia for transport during export?

It is possible to transport hydrogen as a compressed gas or liquid. However, compared to hydrogen, ammonia has several advantages in terms of long-distance transport. Characteristics including high energy density and ease of liquefaction allow it to be used in existing plants, transportation, and terminal facilities.

Safety:

A number of hydrogen's properties make it safer to handle and use than fuels commonly used today; it is also non-toxic.

Ammonia and hydrogen have already been produced on a large-scale for industrial applications for more than a century; handling and transport of these products is well understood.

Nonetheless, full analysis of all safety risks and emergency response plans and mitigations would be in place prior to any production. ABO Wind and any other companies or contractors involved in this Project must have safety at top of mind and follow all safety and emergency response protocols, from site visits to construction and operations.

Company: www.abo-wind.ca
Project: www.toqlukutikproject.com

Community Engagement – A Local Focus

**ABO
WIND**

ABO is committed to ongoing engagement, transparent dialogue, listening to feedback and working together with you.

- The ABO team looks forward to spending time in the region, and plan to set up rotating community offices for accessible and open communication in 2024.
- We have already had productive and ongoing dialogue with representatives from local communities to help inform our approach.
- We are committed to giving back to the communities in the region and have already provided local donations and sponsorships to date.
- We will host additional information sessions and supplier sessions as the Project planning advances, and will continue to provide information through meetings, open office hours and mailouts.
- We will continue to identify and reach out to various stakeholder groups, land users, and the communities at-large.

Your feedback matters:

- We will not be applying for all Crown Land parcels we have in reserve that you see highlighted in green on our map; we are spending the next year determining exactly what is needed for a viable project, adding on any buffers or understanding areas that are not needed or not desirable for the Project.
- What lands we use for the Project will be based on many factors, considering mitigations, areas to avoid, and constraints informed by local feedback, environmental studies, feasibility/engineering studies and measurement campaigns.
- We recognize and respect your use of the land. We will work together with you to ensure shared and safe continued use of lands, where and when it is safe to do so.

We aim to reduce the impact on land use while ensuring a viable Project for all involved!

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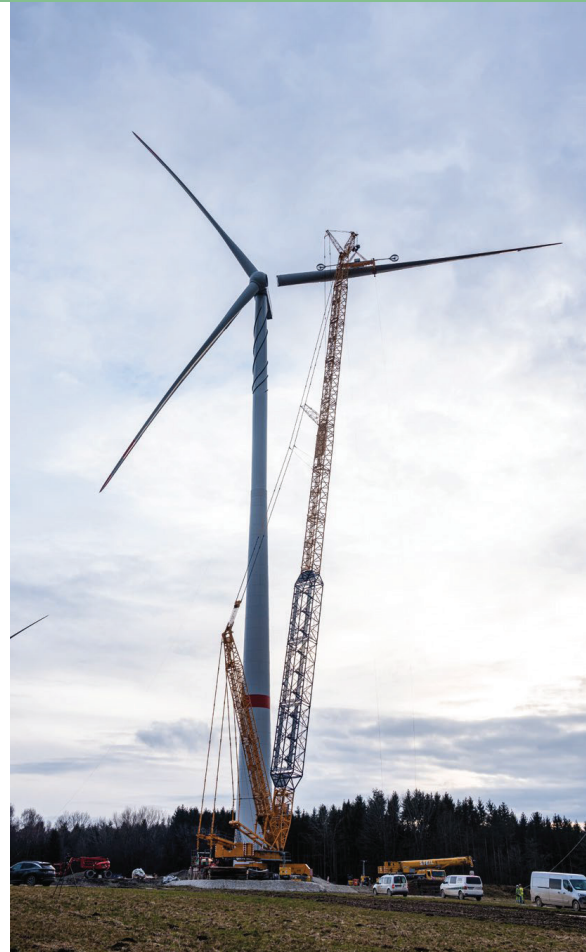
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