



## **Appendix U: Public Information Session Material**

*Prepared for:*

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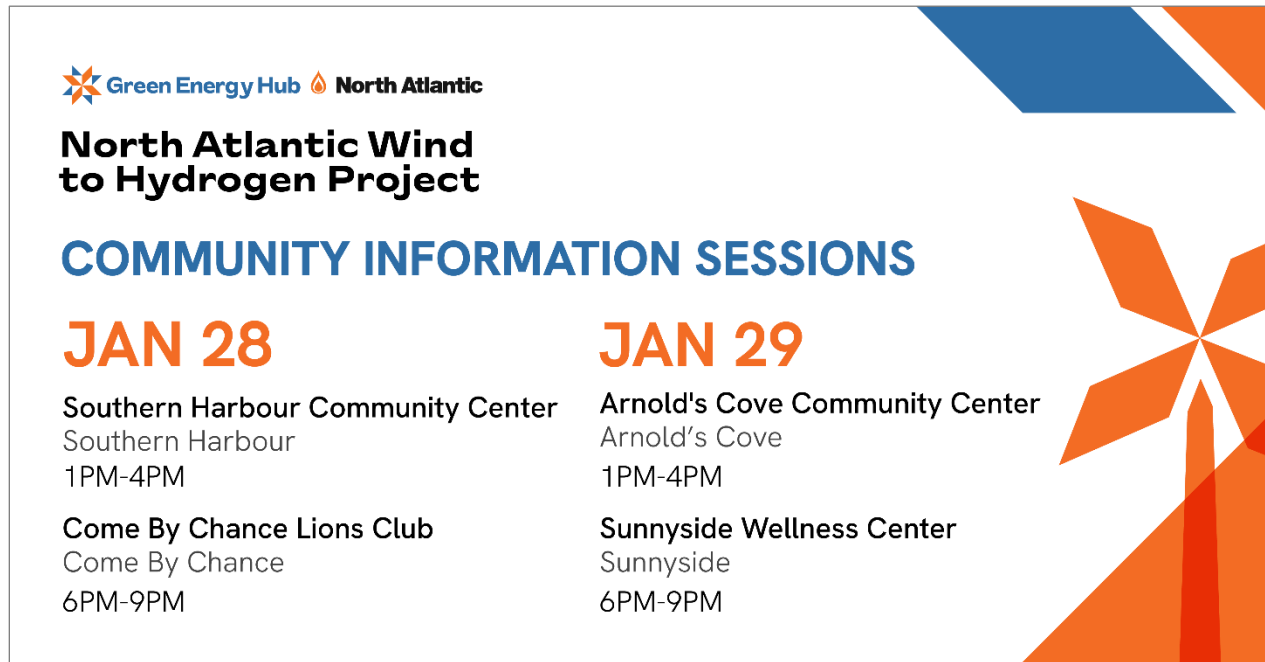
Sikumiut Environmental Management Ltd.  
79 Mews Pl, St. John's, NL  
A1B 4





**Social Media Post For Project Announcement.**



**Social Media Post For Open House Sessions.**



The image is a social media post for the North Atlantic Wind to Hydrogen Project. It features a white background with a blue and orange geometric design in the top right corner. The text is arranged in a clean, modern layout. At the top left, the logo for Green Energy Hub North Atlantic is displayed. Below this, the project name is written in bold black text. The main heading, 'COMMUNITY INFORMATION SESSIONS', is in large blue capital letters. The sessions are divided into two columns: one for January 28 and one for January 29. Each column lists two locations and their respective times. A large orange stylized flower or star graphic is positioned on the right side of the post.

 **Green Energy Hub**  **North Atlantic**

**North Atlantic Wind  
to Hydrogen Project**

**COMMUNITY INFORMATION SESSIONS**

<b>JAN 28</b>	<b>JAN 29</b>
<b>Southern Harbour Community Center</b> Southern Harbour 1PM-4PM	<b>Arnold's Cove Community Center</b> Arnold's Cove 1PM-4PM
<b>Come By Chance Lions Club</b> Come By Chance 6PM-9PM	<b>Sunnyside Wellness Center</b> Sunnyside 6PM-9PM

## Information Session Comment Card.

### Questions

Thank you for participating in our community information session for the North Atlantic Wind to Hydrogen Project. Your input is an important part of our project planning process.

Please take a moment to complete the following questions.

The project information provided was clear and easy to understand.

 ① ② ③ ④ ⑤ 

The event format was helpful.

 ① ② ③ ④ ⑤ 

The project team was able to answer my questions.

 ① ② ③ ④ ⑤ 

The take away material is useful.

 ① ② ③ ④ ⑤ 

I am interested to learn more about the project as planning progresses.

 ① ② ③ ④ ⑤ 

I would participate in future events.

 ① ② ③ ④ ⑤ 




I am supportive of the project.

 ① ② ③ ④ ⑤ 

### Instructions

Select your response by filling in the number bubble as shown below.

The higher the number, the more you agree with the statement.

 ① ②  ④ ⑤   
 ← Strongly Disagree | Neutral → Strongly Agree

Thank you for your time and feedback!

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Please provide any additional comments, questions, or ideas regarding the planning for this project.

**Comments**



**North Atlantic Wind to Hydrogen Information Session Feedback Form**

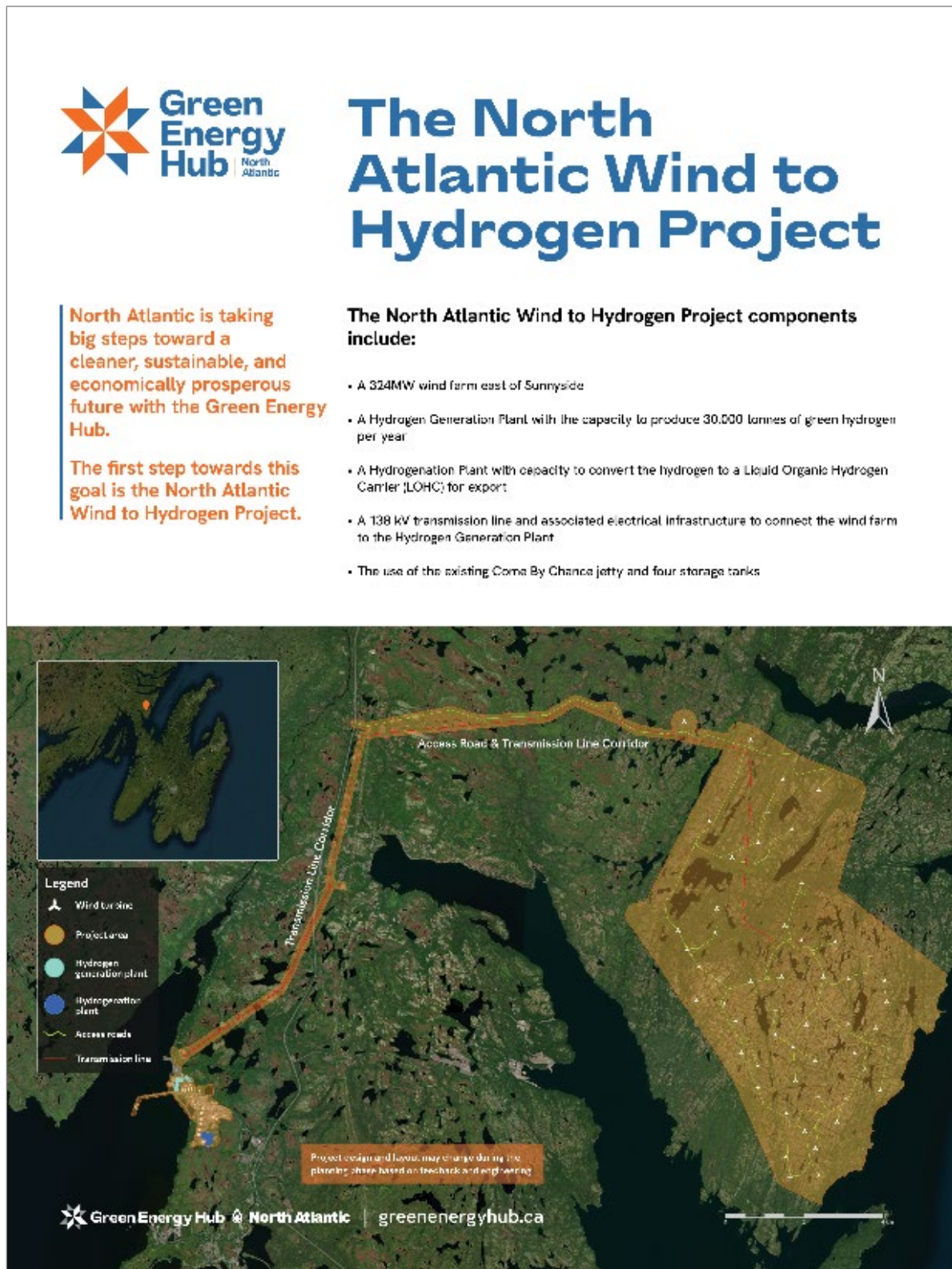


**Pop-up Banner Displayed At Open House**





## Poster Boards













## Come By Chance Terminal





Located on the Isthmus of Newfoundland's Avalon Peninsula, the Green Energy Hub will leverage North Atlantic's substantial existing infrastructure - with the capacity to store and convey green hydrogen production from 3 GW of wind power.



This full-service Hub will provide a centralized location for the manufacturing, construction, operations, and maintenance services necessary to support the region's burgeoning wind industry.



# The Environmental Assessment Process

Environmental assessment (EA) is a critical process to ensure the responsible development of projects while protecting our environment.

## Environmental Assessment

The Provincial Environmental Assessment process is administered by the EA Division of the Department of Environment and Climate Change, under the Environmental Protection Act and the Environmental Assessment Regulations.

EA identifies the important environmental effects associated with a project, identifies measures to mitigate adverse effects and enhance benefits, and determines the significance of residual environmental effects.

**Before a decision is made, all aspects of the proposed project are carefully analyzed through:**

- Extensive environmental baseline studies
- Comprehensive environmental effects assessment
- Early and ongoing regulatory engagement
- Early and ongoing stakeholder and Indigenous engagement

## Our Goals:

- Adhere to EA Division's "Guidance for Registration of Onshore Wind Energy Generation and Green Hydrogen Production Projects"
- Facilitate open and transparent communication with local communities, regulators, and stakeholders to capture feedback for project planning
- Submit a comprehensive EA Registration Document
- Act as responsible stewards of the environment

## We want to hear from you

### Email

[greenenergy@northatlantic.ca](mailto:greenenergy@northatlantic.ca)

### Scan the QR code below



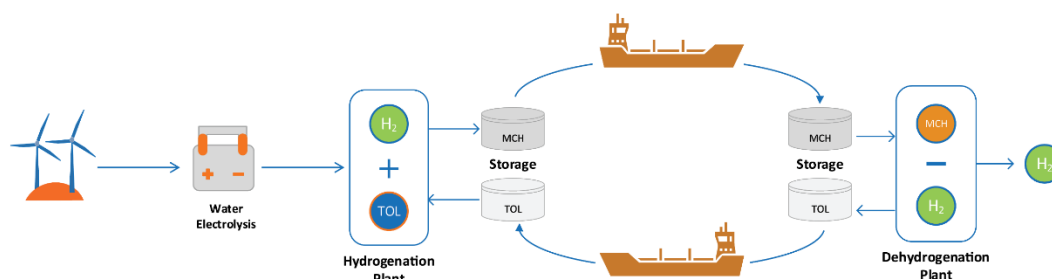


## 3D Renders



# Liquid Organic Hydrogen Carrier (LOHC) Process

LOHCs are organic compounds that can absorb and release hydrogen through chemical reactions and be used as storage and transportation for hydrogen.

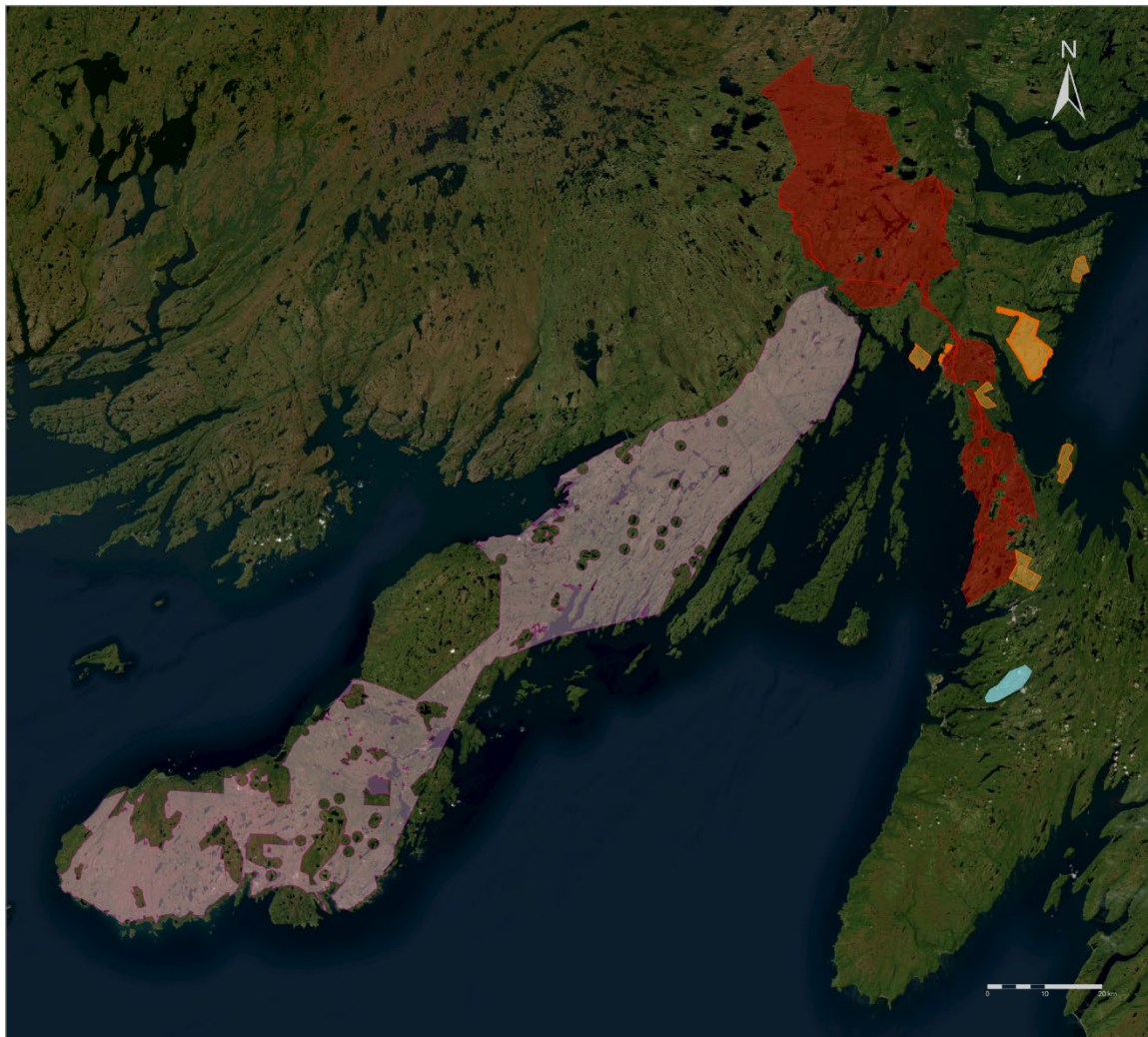


## Quick Facts

- LOHCs have been recently announced as a preferred carrier of green hydrogen by some governments in Europe.
- LOHCs are compatible with existing fuel logistics systems and infrastructure, facilitating a smoother transition to a hydrogen economy.
- Toluene (TOL) and Methylcyclohexane (MCH) are handled similarly to gasoline and can be transported via ship under similar conditions.
- TOL and MCH can be stably stored for long periods, have low toxicity, and are liquids under atmospheric conditions.

## The LOHC Cycle

- Green hydrogen, produced from wind powered electrolysis, is supplied to a Hydrogenation Plant.
- The green hydrogen is combined with toluene (TOL) and converted into a hydrogen carrier, methylcyclohexane (MCH). The MCH is shipped to a receiving facility (e.g. In Europe).
- At the receiving facility, the MCH is supplied to the Dehydrogenation Plant where it is converted back into TOL and green hydrogen.
- The green hydrogen is delivered to the customer.
- The TOL is shipped back to the hydrogenation plant, and the cycle starts again!



## Crown Land Reserves for Wind to Hydrogen in The Area

### Phase one

4,600 ha of North Atlantic's 10,300 ha crown lands reserve.

#### Legend

- North Atlantic
- Everwind Fuels
- ABO Energy
- Pattern Energy




## Drawing Map





## Booklet Handout For Open House - Page 1



### The North Atlantic Wind to Hydrogen Project

North Atlantic is taking big steps toward a cleaner, sustainable, and economically prosperous future with the Green Energy Hub. The first step towards this goal is the North Atlantic Wind to Hydrogen Project.



North Atlantic is proposing to develop a renewable energy project in the Placentia Bay and Trinity Bay regions on the Island portion of Newfoundland and Labrador. The North Atlantic Wind to Hydrogen Project will include the installation of an onshore wind farm to power the production of green hydrogen for export to global markets.

Through the Government of Newfoundland and Labrador's wind energy process, North Atlantic was awarded 10,300 hectares (ha) in total of Crown Lands around the Avalon Isthmus. The initial North Atlantic Wind to Hydrogen Project is proposed to develop a wind farm on 4,600 hectares in the Sunnyside area, with the remaining Crown Land reserved for future projects, and a hydrogen plant and hydrogenation plant in Come By Chance, at the existing North Atlantic Logistics Terminal.

**We want to hear from you!**

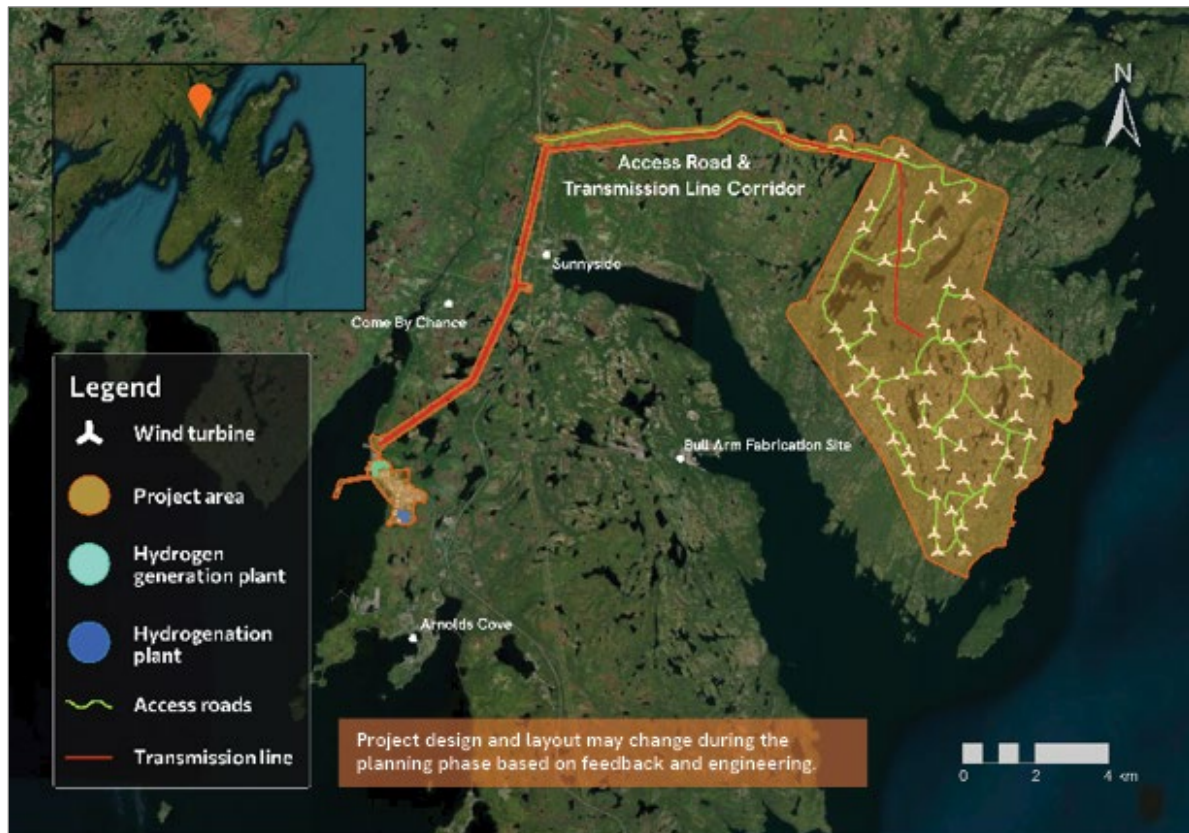
If you have any questions or concerns, please contact us using the below email:

[greenenergy@northatlantic.ca](mailto:greenenergy@northatlantic.ca)

 **Green Energy Hub**  **North Atlantic**

[greenenergyhub.ca](http://greenenergyhub.ca)

## Booklet Handout For Open House - Page 2



### The North Atlantic Wind to Hydrogen Project components include:

- A 324MW wind farm east of Sunnyside.
- A Hydrogen Generation Plant with the capacity to produce 30,000 tonnes of green hydrogen per year.
- A Hydrogenation Plant with capacity to convert the hydrogen to a Liquid Organic Hydrogen Carrier (LOHC) for export.
- A 138 kV transmission line and associated electrical infrastructure to connect the wind farm to the Hydrogen Generation Plant.
- The use of the existing Come by Chance jetty and four storage tanks.

Through the provincial environment assessment process, North Atlantic is actively working to assess the impacts of the Project on the surrounding environment with the aim to mitigate any potential adverse impacts and enhance benefits to the province and local communities.

North Atlantic welcomes the opportunity to work closely with stakeholders to gather feedback for incorporation into the proposed Project. The North Atlantic team is committed to being present in communities to facilitate meaningful engagement with residents and stakeholders.

## Booklet Handout For Open House - Page 3

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Booklet Handout For Open House - Page 4

## 3D Renders





## Booklet Handout For Open House - Page 5

## North Atlantic Wind to Hydrogen Project

### FAQs

#### What is the North Atlantic Wind to Hydrogen Project?

The North Atlantic Wind to Hydrogen Project is a renewable energy project in the Placentia Bay and Trinity Bay regions on the Island portion of Newfoundland and Labrador. The North Atlantic Wind to Hydrogen Project will include the installation of an onshore wind farm to power the production of green hydrogen for export to global markets.

#### What is the Green Energy Hub?

Located on the isthmus of Newfoundland's Avalon Peninsula, this full-service renewable energy Hub will provide a centralized location for the manufacturing, construction, operations, and maintenance services necessary to support the region's evolving wind industry.

The Hub will leverage North Atlantic's existing infrastructure and use some of the best onshore wind resources in the country to produce and then transport low-cost green hydrogen to global markets.

The North Atlantic Wind to Hydrogen Project is the first Project planned for construction within the Hub.

#### Why are you developing the North Atlantic Wind to Hydrogen Project?

As North Atlantic advances its business for the future, the company is focused on strategic growth to deliver innovative and green energy solutions aligned with global demand for renewable energy, while continuing to provide energy to the province.

North Atlantic is aiming to:

- Produce green hydrogen projects which could lead to substantial CO<sub>2</sub> reductions
- Support new skills and new jobs for the ever-evolving landscape of green energy in NL
- Provide a significant economic boost to local communities and the province

## Booklet Handout For Open House - Page 6

### What is the tentative production schedule?

Construction is expected to begin in the Spring of 2026 and will occur over three summers. First production is expected in late 2028 or early 2029.

## Green Hydrogen

### What is green hydrogen?

Green hydrogen is a type of hydrogen fuel produced through a process called electrolysis, which uses electricity to split water into hydrogen and oxygen. What makes it “green” is that the electricity used in this process comes entirely from renewable energy sources, such as wind.

Green hydrogen is considered a clean energy source because its production does not generate greenhouse gases, and when it is used as a fuel, it emits only water vapor, making it a promising solution for decarbonizing sectors like transportation, heavy industry, and energy storage.

### What are Liquid Organic Hydrogen Carriers?

Liquid Organic Hydrogen Carriers (LOHC) are chemical compounds that can both absorb and release hydrogen through hydrogenation and dehydrogenation processes. It is a safe and efficient medium for storing and transporting hydrogen, addressing some of the challenges associated with hydrogen’s storage and handling, such as its low density and high flammability. LOHCs are stable and handled like conventional gasoline, making them safer and more practical for large-scale applications. North Atlantic has extensive experience in handling liquid fuels with characteristics similar to LOHC.

### What is hydrogen used for?

Hydrogen is a versatile element with a wide range of applications across many industries. Hydrogen provides a clean substitute for fossil fuels in industrial processes that require high temperatures, for example, steelmaking and cement production. It is also playing a vital role in advancing zero-emission transportation technologies. Fuel cell vehicles (FCVs) use hydrogen to power cars, buses, trucks, and trains, emitting only water vapor. It is particularly well-suited for heavy-duty transport, including long-haul trucking, shipping, and aviation, due to its high energy density and potential for large-scale applications.

Hydrogen’s versatility and ability to integrate with current energy systems make it essential for decarbonizing sectors that are otherwise difficult to electrify, enabling a smoother and more comprehensive green energy transition.

## Booklet Handout For Open House - Page 7

## Environmental Assessment Process

### What stage of the environmental assessment process are you currently in?

North Atlantic is currently in the Pre-Registration Phase of the Environmental Assessment process. Field work for baseline studies is ongoing and will continue throughout the winter and spring. This phase includes work to establish a baseline for the natural environment, including water, land, animals, plants, air, as well as the socio-economic status in the region.

Once the Environmental Assessment Registration is submitted, the full EA Registration document, including baseline studies, will be publicly available on the Newfoundland and Labrador Department of Environmental and Climate Change webpage.

### What baseline studies are you conducting?

Baseline studies for the Environmental Assessment Registration include:

- Ecological Land Classification
- Air Quality
- Noise
- Rare Plants
- Species at Risk
- Breeding Birds
- Spring Migratory Birds
- Fall Migratory Birds
- Winter Birds
- Bat Detector Surveys and Analysis
- Boreal/Blue/Graceful Felt Lichens
- Wetland
- Hydrology
- Water Quality Sampling
- Marine Environment Assessment
- Fish and Fish Habitat Assessment

## Booklet Handout For Open House - Page 8

### Are you concerned about eagle sightings/nesting, and have you studied eagles specifically?

While we haven't identified any eagle nesting locations, we are aware of eagles in the area. The potential impact on eagles, as with other wildlife, is part of our environmental assessment process.

## Community Engagement

### How are you consulting with local communities and Indigenous Groups?

North Atlantic began early consultation with leadership from the local towns, unions, and Chamber of Commerce in 2023. Now, during the Pre-Registration Phase, we have recently welcomed residents to a series of community office hours and are hosting multiple Public Information Sessions through the early part of 2025 to present the Project to the community and gather feedback for incorporation into Project planning.

We have developed the North Atlantic Wind to Hydrogen Project webpage to communicate Project information, office hours, and event notices. The webpage, as well as our social media channels, Facebook and LinkedIn, will be updated regularly. A Project email address, [greenenergy@northatlantic.ca](mailto:greenenergy@northatlantic.ca), is available to submit questions, comments, or input on the Project.

The two Indigenous groups on the island portion of the province, Qalipu and Miawpukek, have been contacted directly for early conversations, and our outreach and updates will continue throughout the life of the Project.

### How can the public provide their feedback?

The public can provide feedback by:

- Emailing [greenenergy@northatlantic.ca](mailto:greenenergy@northatlantic.ca)
- Visiting our office during posted hours
- Attending Public Information Sessions
- Submitting information during the public feedback period once the Environmental Assessment Registration has been submitted



## Booklet Handout For Open House - Page 9

## Windfarm and Transmission

### How much noise will the turbines make? Will we be able to hear them?

Modern wind turbines produce a sound that sounds like a “swoosh”, which can be heard at some distance from the turbines. A technical assessment of the sound impact of our wind farm project is underway and will include any potential project-related noise impacts.

However, the US Department of Energy (DoE) has said that at 300 meters away, the sounds produced by a large wind energy project range from 35–45 decibels (dB). That means they are no louder than a typical refrigerator (50 dB) and create far less noise pollution than average city car traffic (70 dB). The shortest distance between any turbine and the Eastern end of the Sunnyside main road is approximately 3,500m, more than 10 times the distance referenced by the DoE.

### Will there be noise from the transmission line?

Noise from the transmission line would be similar to existing transmission lines and also that produced by the turbines (approximately 40-50 dB). Baseline noise assessment have been conducted and impacts from noise will be evaluated as part of the EA.

### Could the transmission line be routed across the water or under water towards Bull Arm?

No, either option would be cost prohibitive and would make maintenance difficult. However, based on community feedback, we are aligning the transmission line with the access road.

## Hydrogen Generation Plant

### What will happen to the sulphur pile at the site of the hydrogen plant?

We are currently looking at options to ship the stored sulphur to a certified recycler or end user.

## Booklet Handout For Open House - Page 10

### How much water will be used by the plant?

We estimate annual water demand of approximately 883,000 m<sup>3</sup> a year for hydrogen generation. Water demand depends on the water quality and the electrolyzer technology we use. North Atlantic intends to utilize the same water source that supplies our existing terminal. The water source has sufficient capacity to support the current operations at our terminal and the Braya Renewable Fuels as well as the proposed hydrogen production facility. As part of the regulatory process, a water permit will need to be approved by the government.

### Will the project release effluent into Placentia Bay?

No contaminants are added to the feedwater through the hydrogen generation process. However, any existing contaminants in the feedwater will become more concentrated. The water quality would make it suitable for uses such as fire sprinklers, irrigation, and gardening. This water meets all regulatory requirements for discharge once the water has been cooled.

## Local Preference

### What priority will be given to local hiring?

We will be looking to maximise opportunities for local hiring. Continue to watch our website for updates. We will be posting job opportunities there and providing updates on additional public sessions over the next few months. We will also be sharing job opportunities with local communities to opportunities with residents.

### Will you be using local suppliers?

We have added a supplier registration form to our website – [greenenergyhub.ca](https://greenenergyhub.ca). We would encourage potential suppliers to complete the form and continue to watch the website for updates. As we get closer to a development decision we will hold supplier information sessions.

### How many jobs do you anticipate will be created by the project?

We are still developing our construction and operation plan. At this point we anticipate approximately 200 construction jobs and 45 jobs in operations. However, these numbers may change as we get further into our planning.

## Booklet Handout For Open House - Page 11

### Decommissioning

#### What is the lifespan of the turbines?

We anticipate a lifespan of approximately 30 years.

#### Who is responsible for clean-up?

The Government of Newfoundland and Labrador (GNL) is drafting a policy to ensure complete removal of equipment and site remediation. A decommissioning plan will be developed by North Atlantic and submitted to GNL for approval. The cost of decommissioning will be built into the policy. GNL will set the mechanism to ensure the financial capability exists to decommission.

### Access Road

#### Will cabin owners lose access to cabins via road during construction?

No, existing roads and trails will remain accessible, and where new wind farm access roads are constructed that cross existing roads and trails, North Atlantic will provide a means of crossing the new road that is suitable for existing traffic. Cabin owners will be permitted to utilize new access roads when not in use for wind farm construction, operations and maintenance purposes. There will be brief, intermittent periods of time when access to new roads is restricted, particularly during the wind farm construction phase, where access to new roads will be restricted to ensure the safety of the general public.

#### How will you protect against access by those wishing to do harm?

While the public will have access to the road, there will be a staffed office at the intersection of the new access road and the TCH as well as a series of security cameras along the access road/transmission line.



## Booklet Handout For Open House - Page 12

### Shipping Traffic

#### Will North Atlantic restrict access to anchorage locations in Placentia Bay?

No, North Atlantic has no intention or need to restrict access to anchorage locations.

#### What will be the impact on vessel traffic both during construction and operation?

During construction we expect approximately 16 vessels for turbine equipment and 6 vessels for the Hydrogen Generation and Hydrogenation Plants. These shipments will be spaced out over the course of two years, and we will look to utilize existing port infrastructure located at the Come By Chance Terminal, as well as capabilities offered by the adjacent Bull Arm Fabrication Site.

During operation, we anticipate approximately one additional tanker a month, still well below the traffic level when the refinery was at peak operation.