

**Decision/Direction Note  
Department of Industry, Energy and Technology (IET)**

**Title:** Atlas Salt Inc.

**Decision/Direction Required:**

- Whether to cancel Surface Lease 160 and issue Surface Lease 181



29.(1)(a)

**Background and Current Status:**

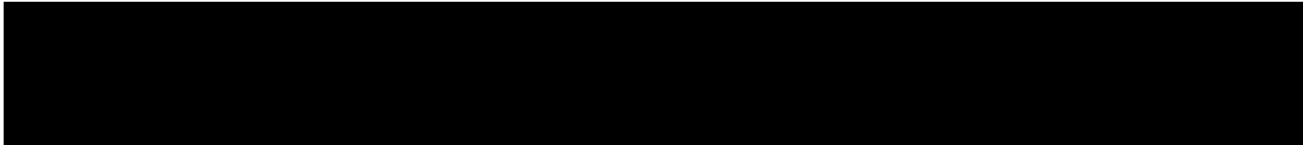
- On May 10, 2018, Red Moon Resources Inc. was issued Surface Lease 160 ('the surface lease') to support mining operations at the Ace gypsum deposit.
- Red Moon Resources Inc. subsequently changed its name to Atlas Salt Inc. ('Atlas').
- As a result of discussions with officials of the Mineral Development Division, Atlas determined that reclamation activities at the Ace gypsum deposit would encroach on to areas not covered by the surface lease.
- After discussions with staff of the Mineral Lands Division it was determined that the best course of action would be for Atlas to apply for an additional surface lease to cover the additional areas.
- On February 3, 2025, Atlas submitted a request and survey to extend the surface lease to cover the additional areas that would be required to support its mining operations.

**Analysis:**

- Surface Lease 160 is in good standing and Atlas is in compliance with all terms and conditions of the lease.
- The survey submitted by Atlas was not only for the proposed extended lease area, but it also incorporated the area of Surface Lease 160 (Appendix A).
- Surface leases issued under the **Mineral Act** are not typically modified to cover an expanded area. Normally, a new lease would be issued to cover only the new area.



29.(1)(a), 35.(1)(d)



29.(1)(a), 30.(1)(a), 30.(1)(b), 35.(1)(d)

[Redacted]

29.(1)(a), 30.(1)(a)

- Surface leases issued under the **Mineral Act** are done so in consultation with FFA's Crown Lands Division.

[Redacted]

29.(1)(a)

- Section 21(4) of the **Interpretation Act** allows the Deputy Minister of Industry, Energy and Technology to sign the lease.

**Alternatives:**

[Redacted]

29.(1)(a)

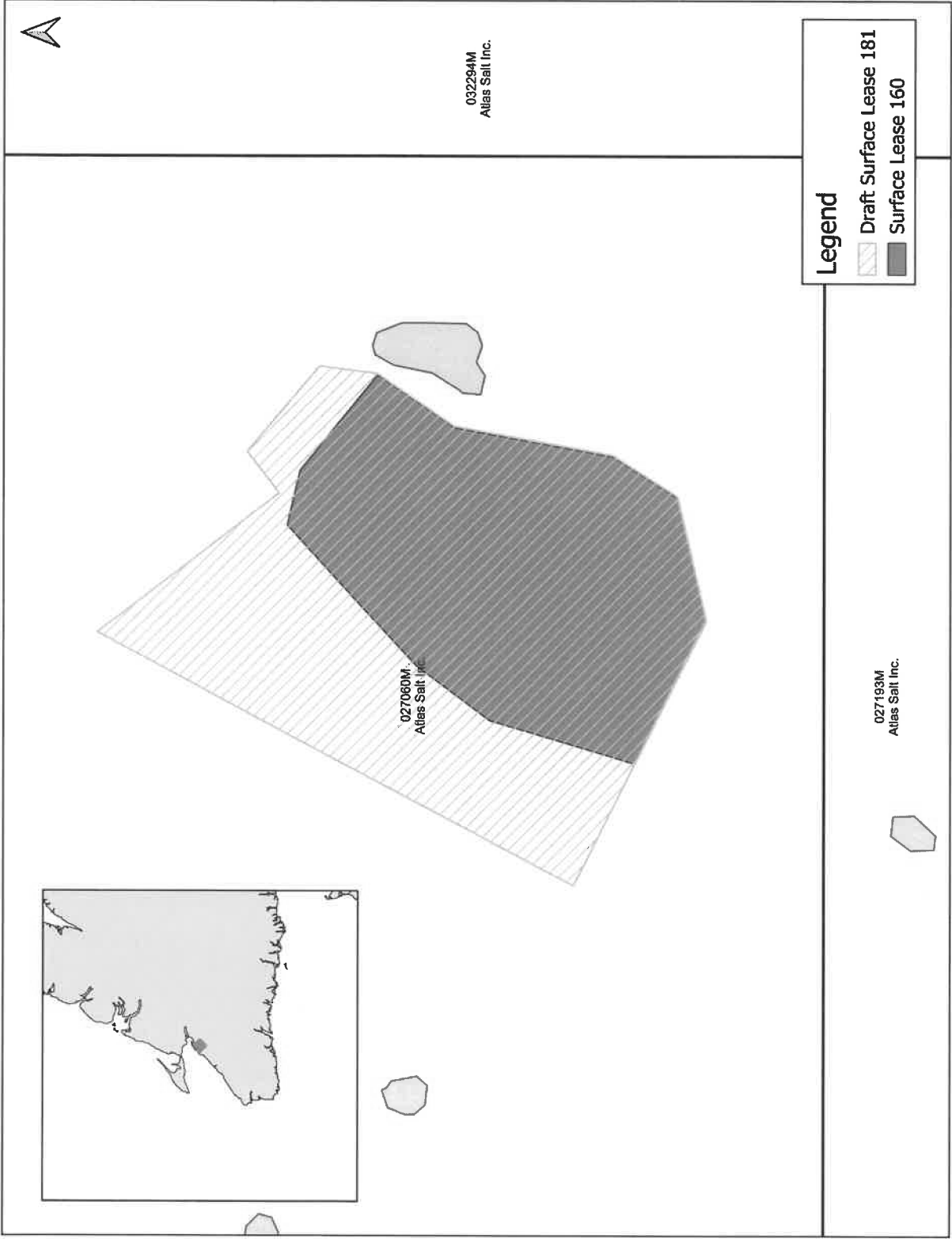
**Prepared/approved by:**  
**Ministerial Approval:**

J. Lake / K. Sheppard/P. Carter

May 27, 2025

[Redacted]

40.(1)



**Legend**

-  Draft Surface Lease 181
-  Surface Lease 160

032294M  
Atlas Salt Inc.

027060M  
Atlas Salt Inc.

027193M  
Atlas Salt Inc.

**Decision/Direction Note**  
**Department of Industry Energy and Technology (IET)**

**Title:** Trinity Resources Ltd

**Decision / Direction Required:**

- Whether to approve Trinity Resources Ltd.'s 2025 Development Plan for the Manuels Pyrophyllite Mine, pursuant to section 6(2) of the Mining Act.

[REDACTED]

29.(1)(a),  
30.(1)(a)

**Background and Current Status:**

- Trinity Resources Ltd. (TRL) operates the Manuels Pyrophyllite Mine (the Project) located in Manuels in Conception Bay South. TRL acquired the Project in 1998. The previous operator, Newfoundland Minerals Limited, mined 1.2 million tonnes of pyrophyllite from 1959 to 1995. The material that did not meet the ore specifications was placed in waste dumps.
- The Project consists of the dockyard property including a ship loader system and the mine site including resource stockpiles (former waste dumps), the Oval open pit and site infrastructure.
- The resource stockpiles are approximately 75% pyrophyllite and 25% waste rock. The pyrophyllite is marketed based on aluminum oxide ( $Al_2O_3$ ) content: cement grade (less than 18%  $Al_2O_3$ ), mid-grade (18-23%  $Al_2O_3$ ) and high-grade (24-26%  $Al_2O_3$ ). The waste rock will be sold as an aggregate material. All overburden and till encountered will be stockpiled for site rehabilitation while non-suitable material will be used for site maintenance.
- TRL is planning to mine 150,000 tonnes from the resource stockpiles in 2025 to produce 80,000 tonnes of cement grade pyrophyllite, 10,000 tonnes of mid/high grade pyrophyllite and 60,000 tonnes of aggregate. TRL currently employs 10 workers at the Project.
- The Project (Reg. # 2219) was registered with the Provincial Environmental Assessment (EA) on September 28, 2022, and was conditionally released on December 09, 2022. The Project included the development of the resource stockpiles and the in-situ resource of the Oval Pit and Mine Hill deposits.

**Analysis:**

- TRL's agreement to operate on the Fee Simple Mining Grant Volume 1, Folio 18 (the Grant) expired on November 27, 2022. The Grant is an undeveloped area under Section 3 of the Undeveloped Mineral Areas Act, in which Section 5 allows the Minister to enter into agreements for the development of the mineral resources.

[REDACTED]

29.(1)(a), 35.(1)(d), 35.(1)(f)

- The 2025 Development Plan for the Manuels Pyrophyllite Mine, [REDACTED] was originally submitted in February 2025. TRL addressed the deficiencies and re-submitted the plan on April 17, 2025. The plan was reviewed by Mineral Development (MDD) [REDACTED]

35.(1)(d),  
35.(1)(f)

29.(1)(a)

- The rehabilitation and closure plan (RCP) was conditionally accepted on July 18, 2023. The RCP includes all development covered in the current 2025 development plan.



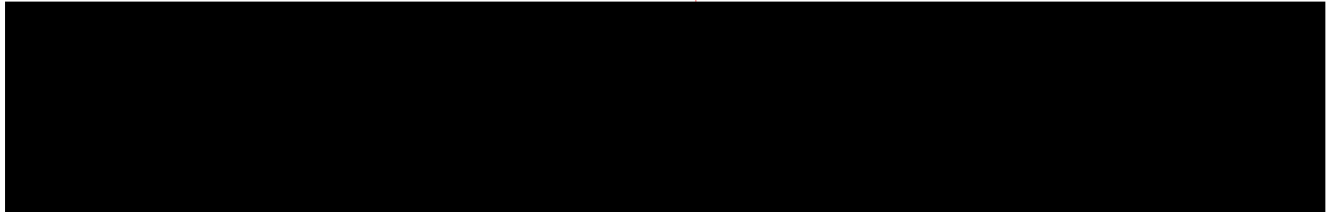
29.(1)(a), 35.(1)(d)



29.(1)(a), 30.(1)(a)

**Alternatives:**

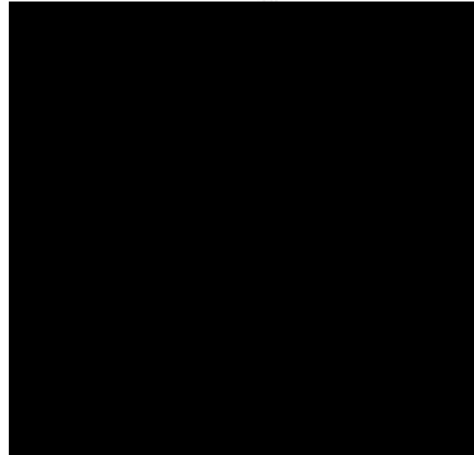
29.(1)(a), 35.(1)(d)



**Prepared/Approved by:**  
**Ministerial Approval:**

P. Philpott/K. Bradbury/P. Carter

May 20, 2025



40.(1)

**Decision Note**  
**Department of Industry, Energy and Technology (IET)**

**Title:** Offshore Europe Conference and Exhibition 2025

**Decision/Direction Required:**

- It is recommended that approval be provided to secure and service a trade show booth for Offshore Europe in Aberdeen, United Kingdom, September 2-5, 2025.

**Background and Current Status:**

- IET's Marketing and Promotions Division participates in three international trade shows to promote the energy and supply and service sectors in Newfoundland and Labrador (NL). These are the annual Offshore Technology Conference (OTC) in Houston, TX, and the biennial events of Offshore Europe (OE) in Aberdeen, Scotland and Offshore Northern Seas (ONS) in Stavanger, Norway.
- NL has been attending OE since the early 1990's and last participated in the 2019 exhibition as it has been a major part of the IET's promotional activities in support of the provincial supply and service sector. For 2023, a total of over 40 delegates attended from Atlantic Canada with 34 from NL representing 14 organizations.
- OE attracts the leading service/technology companies and operators promoting solutions to optimize exploration and production. Concurrent with the exhibition, the Society of Petroleum Engineers (SPE) hosts a technical conference. These sessions are well attended by local and international delegates with technology opportunities actively pursued.
- OE 2023 celebrated 50 years since the first edition was held in 1973 at Aberdeen University. Organizers have hailed the first face-to-face SPE Offshore Europe in four years a resounding success as more than 800 exhibitors and almost 30,000 attendees celebrated the 50th anniversary.

**Analysis:**

- Energy NL is the lead organization for OE 2025 and have received funding from the Atlantic Canada Opportunities Agency (ACOA) for an Atlantic Canada Pavilion with support from partners. For 2023, IET and the Government of Nova Scotia each paid \$25,000 towards the show. [REDACTED]

29.(1)(a),  
34.(1)(a)(i)

- [REDACTED] IET is committing \$25,000 towards the show and will work with Energy NL to secure an optimal booth presence for 2025.
- Energy NL has made payment to show organizers RX to secure floorspace. Energy NL will invoice and pay the booth management services with IET being billed by Energy NL for the agreed \$25,000 commitment. Travel and accommodations for two Marketing and Promotions staff is estimated at \$6,500 each. Total cost for IET to attend is \$38,000.
- Rocket Group Ltd. has been selected through a RFQ process to provide booth construction and services and will feature a new design build. The RFQ process was led by EnergyNL as the main proponent, in collaboration with the planning committee which also includes NS, NL, and ACOA.

- The Atlantic Canada Pavilion (2E20) is 72 m<sup>2</sup> and located in Hall 2 in a favorable position next to Shell UK.
- At OE 2023, visitation at the booth was strong with IET fielding many questions about many sectors including Oil and Gas, Onshore Hydrogen and Offshore Hydrogen.
- OE attracted significant interest from major players in both oil and gas and renewable industries. Attendance at these events is crucial to support local companies with networking opportunities and to maintain NL as a desired destination for oil and gas and hydrogen export.
- Recent tariffs placed on Canada by the United States has increased calls to diversify Canada with new trading relationships. OE is an ideal place to build new opportunities for NL with the United Kingdom.

**Alternatives:****Option 1: Provide approval for IET staff to attend OE 2025. (RECOMMENDED)****Advantages:**

- The partnership with ACOA has significantly reduced the financial commitment on behalf of IET and allows NL firms to continue to have a presence at this global event.
- OE continues to attract major international oil and gas industry professionals and is considered a prime venue to promote oil and gas capacity and expertise.
- The event is part of Marketing and Promotions' trade show circuit.

**Disadvantages:**

- Department incurs expenditures to attend.

**Option 2: Do not provide approval for IET staff to attend OE 2025. (NOT RECOMMENDED)****Advantages:**

- IET would not incur expenditures to attend.


**Disadvantages:**

- Risks a decreased level of awareness for NL's oil and gas industry without the presence of IET's executive, missed opportunities for networking and business development, potential negative perception of delegates for the level of support for the department.

**Prepared/Approved by:** A. Coates/ M. Power/M. Nesbitt/N. Abundo

**Ministerial Approval:**

May 12, 2025

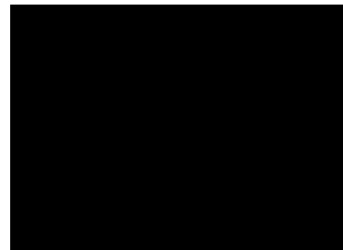


40.(1)

**Backgrounder**  
**Department of Industry, Energy and Technology**  
**BP Canada Energy Group ULC**

- BP (formerly British Petroleum) is a leading global energy company involved in nearly every aspect of the oil and natural gas industry. Its operations span exploration, production, refining, transportation, and marketing. In addition to its core fossil fuel business, BP also invests in renewable energy sources and is active in the production of chemicals and petrochemicals.
- The only exploration well BP has operated in the NL offshore was Ephesus F-94 in May 2023 on Exploration Licence (EL) 1168. EL 1168 expired January 14, 2024.
- BP currently holds interest in 12 licenses in offshore NL, located in the Orphan and Flemish Pass Basins. These consist of 5 Exploration Licenses (EL) and 7 Significant Discovery Licenses (SDL):
- BP is partnered with Equinor on the Bay du Nord project and holds 40% interest; Equinor holds the remaining 60%.
- According to BP's Capital markets update in February 2025, BP are reallocating additional capital from its transition businesses into oil and gas. They plan to invest around \$10 billion in oil and gas, 20% more versus previous guidance, looking to build more, higher returning major projects and increase exploration. They target returns of >15%.
- This refocus on oil and gas could present an opportunity to increase its presence in the offshore which would align with their focus on sizable, high impact low emissions barrels.
- BP has a small local office in St. John's led by Elsa Dart, VP, Canada.

May 30, 2025



40.(1)

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Memorandum of Understanding (MOU) with the Port of Amsterdam, Netherlands.

**Issue:** To provide an overview of a draft MOU between the Port of Amsterdam and the Government of Newfoundland and Labrador (NL), on cooperation on green hydrogen.

**Current Status and Background:**

- The Port of Amsterdam in the Netherlands has traditionally been an energy-supply focused port and is the 14<sup>th</sup> busiest port in Europe by total cargo tonnage. It has a stated objective of becoming one of Europe's top sustainable ports by 2030. Its goals include scaling up sustainable energy production and storage; attracting and facilitating the production of renewable fuels and circular raw materials; and developing infrastructure necessary for the sustainable transition.
- The Port of Amsterdam is focused specifically on liquid organic hydrogen carrier (LOHC) imports versus ammonia. Tank storage terminal operator EVOS recently signed an agreement to develop large-scale import facilities for hydrogen (including an LOHC dehydrogenation plant) at the Port.
- In December 2021, the governments of Canada and the Netherlands signed an MOU on cooperation in the field of hydrogen energy. The agreement focuses on the development of an international hydrogen market and export-import corridors for clean hydrogen between Canada and the Netherlands, as a gateway to Europe. The agreement will also enhance cooperation on topics such as standards, certification, investment, trade and technologies.
- In May 2023, the Government of NL (GNL) signed an MOU with the Port of Rotterdam, Netherlands, to encourage the establishment of hydrogen supply chains to support our export of green hydrogen to the Netherlands, and onward to other parts of Europe. In addition to the MOU with Rotterdam, NL has also signed agreements related to green hydrogen with other European jurisdictions that are important areas for transport and end-use including a declaration of Intent with the City of Hamburg (September 2022), and an MOU with the Port of Antwerp-Bruge (Sept 2024).
- Due to its abundant resources and other competitive advantages such as proximity to Europe, NL currently has six wind hydrogen projects in development. Europe, is a key export market for NL's green hydrogen as the European Union (EU) and several member countries have outlined hydrogen as a way to achieve energy security and climate change goals.

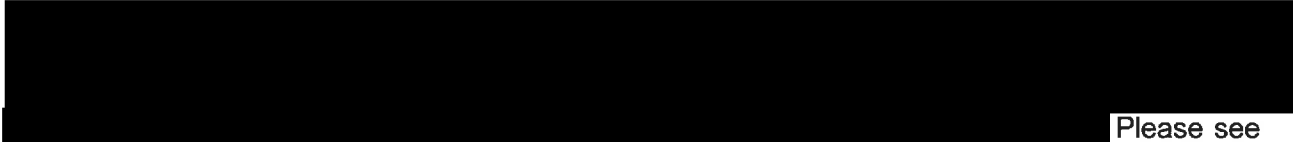
**Analysis:**

- One of NL's project developers, North Atlantic Refining Limited (NARL) [REDACTED] [REDACTED] **35(1)(d), 35(1)(g)**
- NARL's project, unlike other projects underway in the province, is focused on the delivery of hydrogen to European markets using an LOHC process.
- In early 2025, the Port of Amsterdam expressed interest in an MOU with GNL on green hydrogen. The MOU would support IET's ongoing efforts to enable the development and use of its renewable energy resources to produce green hydrogen for export. Given the Port's focus on LOHC vs ammonia, this agreement would complement the MOU with the Port of Rotterdam, focused on ammonia imports.



29.(1)(a)

- IET is sending a delegation to the World Hydrogen Summit (WHS) in Rotterdam May 20-22. Port officials have indicated the MOU can be signed just prior to the WHS on May 19<sup>th</sup> at the Port offices in Amsterdam (**Annex A - Draft Event Scenario**). The visit includes a boat tour following the signing with the Managing Director of the Port, before travel to Rotterdam in the afternoon. Representatives from NARL and Silverpeak will also participate in the signing event.
- Similar to the MOU with the Port of Rotterdam, the draft MOU with the Port is a high-level agreement to collaborate and share information on green hydrogen issues, opportunities, and potential projects, and proposes the following specific areas of cooperation:
  - Exploring the commercial opportunity and scale of future green hydrogen import markets via the port into the Netherlands and other areas of northwestern Europe, to support the development of Newfoundland and Labrador's green hydrogen export market;
  - Assessing the potential for international supply chains between the province and the port for green hydrogen, including identifying and assessing existing barriers (e.g., legal, regulatory gaps, costs) and sharing information that could help mitigate such barriers;
  - Working collaboratively to unlock private sector and federal government investment in joint projects/initiatives related to international green hydrogen supply chains; and,
  - Identifying opportunities to collaborate and share knowledge and best practices in key areas (e.g., port development, infrastructure, and management; engaging stakeholders, post-secondary institutions, and other commercial and governmental parties).



Please see

Annex B for the draft MOU.

29.(1)(a), 30.(1)(a)

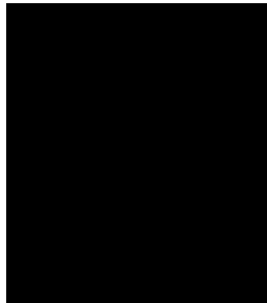
**Action Being Taken:**

- IET officials will continue to work with the Port of Amsterdam on details of the agreement and signing event.

**Prepared/Approved by:** B. Norman/ K. Day/S. Wilkins/ C. Martin

**Ministerial Approval:**

May 7, 2025



40.(1)



40.(1)

**Annex A: Draft Event Scenario****DRAFT EVENT SCENARIO****Event Name:** Port of Amsterdam MOU Signing**Organized by:** Port of Amsterdam**Participants:**

- The Honorable XX, Minister of IET (TBD)
- John Cowan, Deputy Minister, IET (TBD)
- Susan Wilkins, Executive Director Renewable Energy, IET
- Kelly Day, Director, Renewable Energy Partnerships, IET
- Gert-Jan Nieuwenhuizen - Managing Director, Port of Amsterdam
- Elissa Simpson - Project Development Lead, Port of Amsterdam
- Maurice Delattre, Regional Director Europe, Port of Amsterdam
- Bart van der Meer, Business Development Manager New Energies, EVOS
- Jeff Murphy, VP – Capital Projects, NARL
- Peter Miles, VP – Business Development, NARL
- Santosh Raikar, Managing Partner, Silverpeak Renewables Investment Partners

**Event Contact:** Elissa Simpson - Project Development Lead, Port of Amsterdam  
Telephone: [REDACTED] 40.(1)**Event time:** 11:30 – 15:00 (MOU at 11:30 / Boat Tour at 13:00)**Date:** Monday, May 19, 2025**Location:** Port of Amsterdam Main Office (Havengebouw),  
De Ruijterkade 7, 1013 AA Amsterdam, 13<sup>th</sup> Floor (five-minute walk from  
Amsterdam Central Station)**Dress Code:** Business Attire**Order of Events:**

- |               |  |
|---------------|--|
| 11:25 – 11:30 | Arrival at Port of Amsterdam (PoA)   |
| 11:30 - 11:35 | Welcome speech (Gert-Jan)  |
| 11:35 - 11:45 | NL Representative Speech (TBD)   |
| 11:44 - 11:55 | Presentation PoA (TBD)   |
| 11:55 - 12:05 | Presentation -EVOS (Bart van der Meer)   |
| 12:05 - 12:15 | Presentation - Newfoundland and Labrador (Susan Wilkins)   |
| 12:15 - 12:25 | Presentation - Silverpeak (Santosh Raikar)   |
| 12:25 - 12:50 | MoU Signing  |
| 13:00 - 15:00 | Boat tour of Port and lunch aboard the MS Havenbeheer (hydrogen<br>Powered vessel owned by the Port of Amsterdam). |
| 15:30         | Depart via rail for Rotterdam (Approximately 40 Minutes)   |

**Annex B: Draft MOU**

**Memorandum of Understanding ("MOU")**

**On cooperation in the field of green hydrogen and market opportunities**

**BETWEEN:** Government of Newfoundland and Labrador ("Newfoundland and Labrador")

**AND:** Havenbedrijf Amsterdam NV, (hereafter referred to as the "Port of Amsterdam" or "PoA"), a company established under the laws of the Netherlands, with registered offices at De Ruijterkade 7, 1013 AA, Amsterdam, the Netherlands, Chamber of Commerce registration 57398879.

REFERRED to collectively as the "Participants"

**WHEREAS:**

A. Newfoundland and Labrador's abundant resources, including consistently strong wind, available land and fresh water, a strategic geographic location and an existing high percentage of renewable generated electricity, mean that industry in Newfoundland and Labrador will have the ability to produce significant quantities of green hydrogen that vastly exceed its local demand and could be used to serve an international export market;

B. Newfoundland and Labrador has numerous deep sea ice-free ports and harbours that could act as transportation and storage hubs for a future hydrogen export industry;

C. Newfoundland and Labrador benefits from a skilled construction and energy workforce;

D. There are a number of domestic and international companies with active interest in Newfoundland and Labrador that can help to facilitate the development of a hydrogen export industry;

E. The Government of Newfoundland and Labrador has committed through its Hydrogen Development Action Plan to enhance the province's ability to determine hydrogen opportunities that provide the best long term benefit for its residents (e.g. increased jobs, gross domestic product, and tax revenue to support government programs and services);

F. The Port of Amsterdam is an energy hub port for western Europe, with [add relevant description];

G. [The Port of Amsterdam is supported by the Dutch government in its commercial approach of setting up supply chains and corridors for hydrogen import to northwestern Europe from countries elsewhere with high potential of low carbon hydrogen production];

H. [The Port of Amsterdam has over \_\_\_\_\_ companies working in its port and industrial zone, many of whom work on a global scale, and PoA is keen to help make connections between companies and institutions, specifically in view of connecting supply and demand of hydrogen and hydrogen derivatives to support the industrial transition of northwestern Europe;]

I. The Participants have already established a common understanding through previous contact, and exchanges of the potential for future cluster and business exchange in the wind and hydrogen sectors. In addition to their matching strategic goals for climate protection and innovation, the Participants have a

strong interest in knowledge exchange and trade cooperation in the hydrogen sector;

J. future production and consumption locations, both Participants respectively have unique offerings to share in a manner that can be mutually beneficial, recognizing the potential for hydrogen production in Newfoundland and Labrador for export to Europe via the Port of Amsterdam;

K. The Participants both wish to further explore the possibilities of cooperation with regard to the topics as described under Article 1.

**NOW THEREFORE**, Newfoundland and Labrador and the Port of Amsterdam have reached the following understanding:

**Purpose and Objectives of the Cooperation**

1. On the basis of mutual trust and respect, the Participants will strive to discuss the opportunities for constructive cooperation in all relevant fields of activity within the framework of the green hydrogen industry. Opportunities for cooperation between the Participants may include, but are not limited to, the following areas

- Establishing an understanding of the commercial opportunity and scale of the future green hydrogen import market via the Port of Amsterdam into the Netherlands and other areas of northwestern Europe, to be able to support the development of the future green hydrogen export market from Newfoundland and Labrador;
- Assessing the potential to establish international supply chains between Newfoundland and Labrador and the Port of Amsterdam for green hydrogen and its derivatives, with a view to supplying parties in the Netherlands and the wider northwestern European area;
- Identifying existing obstacles (e.g. law, regulatory gaps, costs) to establishing international supply chains between Newfoundland and Labrador and the Port of Amsterdam for green hydrogen and its derivatives, evaluating these obstacles with regard to their effect on economic success, and sharing knowledge to support the mitigation of these obstacles;
- Working collaboratively to unlock private sector and federal government investment in support of joint projects or initiatives for the development of international supply chains between Newfoundland and Labrador and the Port of Amsterdam for green hydrogen and its derivatives;
- Identifying opportunities to collaborate with the goal of enhancing knowledge and sharing of best practices, as well as creating opportunities for collaborative development in the following areas:

Fostering potential international supply chains between Amsterdam and Newfoundland and Labrador for green hydrogen and its derivatives;  
 Exploring the building of coalition(s) with interested and suitable commercial parties; Engaging of relevant stakeholders, potentially including other commercial parties, industry associations, post-secondary institutions and governmental parties; Facilitating potential joint planning initiatives;  
 Exploring a fast-to-realise first initiative with respect to the corridor for hydrogen between Newfoundland and Labrador and Amsterdam;  
 Advising on port development, infrastructure and management.

2. In addition, the Participants will consider the following, amongst other measures:

- Regular exchange of information, including industry and research, on technical and operational issues regarding the production, storage, transport and use of green hydrogen;

- Investigation involving industry and research into joint market opportunities and trade scenarios (e.g. via feasibility studies);
- Encouragement of exchanges between companies from the Participants' regions;
- Preparation of possible joint initiatives as well as clarification and use of funding programs;
- Exploration of initiatives on the content and organization of funding programs (European Investment Bank, World Bank, etc.);
- Encouragement of events and the networking of stakeholders to prepare opportunities for mutual cooperation or investments in the Participants' regions; and
- Joint communication and dissemination to the public to improve perceptions of the benefits of hydrogen technology and of the Participants' regions in particular.

The Participants will consult each other regularly on the effectiveness of their jointly determined activities and the possible adaptation and/or addition of points of focus, the foregoing under 1 and 2, collectively referred to as the "**Purpose**".

3. The discussions and cooperation under this MOU will be realized in accordance with the laws, regulations, and policies of each jurisdiction. Prior to entering into in depth discussions and sharing of any confidential information, the Participants will enter into a Non-Disclosure Agreement. This MOU shall not in any way limit the ability of either of the Participants to independently determine and pursue its own objectives or priorities.

4. Any agreement between the Participants relating to the Purpose or any portion thereof and/or resulting from the discussions relating thereto may be set out in a further agreement(s) between the Participants.

#### **Costs**

5. Each Participant will be responsible for its own costs and expenditures with regard to its participation and involvement in this MOU. Neither Participant will be liable for any type of financial compensation, expenses, damages or contribution, what so ever to the other Participant in relation to or arising out of this MOU. Neither Participant has any authority to represent the other Participant, or to incur any obligations, costs or expenses on behalf of the other Participant.

#### **Duration and Effect**

6. This MOU will come into effect on the date it is signed by the Participants (the "**Effective Date**") and will remain in effect for a period of five (5) years from the Effective Date. The MOU may thereafter be extended by mutual written agreement for periods to be determined between the Participants.

7. This MOU may be amended at any time through written agreement signed by both Participants.

8. Either of the Participants may terminate its involvement in this MOU, without incurring any obligations or liabilities, by providing the other with written notice. The MOU will expire ninety (90) days after notice of termination has been received.

9. This MOU is not intended to be legally binding and is not meant to constitute an international treaty or to create any rights or obligations under international law. In addition, nothing in this MOU shall be construed as creating any obligation on the part of either Participant to enter into a business relationship or any further agreement with the other Participant, or as creating any partnership or any other legal entity between the Participants. This MOU will also not prevent or bar the Participants from pursuing similar

bilateral opportunities with other jurisdictions or parties in Europe, North America, or elsewhere.

10. Further, this MOU is not meant to commit either Participant to provide financial resources or permit any claim to such provision. Nor is it intended to serve as a basis for the transfer of financial resources.

11. The Participants will resolve any differences that may arise from the application or interpretation of this MOU through consultations.

12. The Participants aim for a regular exchange between them and will appoint contact persons at working level to accompany the implementation of this MOU.

**Signing**

Signed in the English language on the dates set out below.

**Newfoundland and Labrador**

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**Gert-Jan Nieuwenhuizen**

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**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Belgium

**Issue:** To provide an overview of Belgium's renewable energy resources and policies.

**Background and Current Status:**

- Belgium is in Northwestern Europe and is bordered by France, Germany, Luxembourg, and the Netherlands. In 2024, Belgium had a population of approximately 11.8 million. Belgium has a land area of 30,667 km<sup>2</sup>, and one of the highest population densities in the European Union at 386/km<sup>2</sup>. Belgium has approximately 65 km of coastline and an offshore Exclusive Economic Zone (EEZ) of 3,454 km<sup>2</sup>.
- As a member of the European Union (EU), Belgium has committed to reduce greenhouse gas (GHG) emissions by 47 per cent by 2030 in order to support the EU-wide goals of reducing emissions by 55 per cent by 2030 and reaching net zero emissions by 2050.
- Belgium's National Energy and Climate Plan (2021-2030) (NECP) includes targets to reduce GHG emissions not covered by the EU Emissions Trading System (ETS) by 35 per cent by 2030, and to reach 17.5 per cent (raised to 21.6 per cent in a 2023 update) of final energy consumption from renewable energy by 2030. Belgium's three regions have also established their own energy and climate targets. Belgium is also subject to the provisional EU target set in March 2023 of which at least 42.5 per cent will be achieved by member states by 2030.
- Belgium's 2023 electricity mix was comprised of nuclear (39.9 per cent), natural gas (21.4 per cent), wind (19 per cent), solar (8.8 per cent), biofuels (3.3 per cent), and coal (2.2 per cent).
- As of February 2023, Belgium has nine operational offshore wind farms and is the fourth largest offshore wind energy producer globally (behind the United Kingdom, Germany, and China). In 2022, Belgium had approximately 2.9 gigawatts (GW) of installed onshore wind capacity and approximately 2.3 GW of installed offshore wind capacity.
- In 2021 the Belgian government released its national hydrogen strategy. The plan is built on the following four pillars: import and transit hub; technology leadership; market development; and cooperation facilitation. It calls for all hydrogen in the national energy mix to be of renewable origin by 2050, and seeks to position Belgium as a hydrogen import and transit hub for Europe. It includes a key role for the Port of Antwerp-Bruges, the second-largest seaport in Europe (after the Port of Rotterdam).
- Belgium has set an import target of 20 terawatt hours (TWh) of renewable hydrogen and derivatives in 2030 and between 200 and 350 TWh by 2050. Belgium aims to have a hydrogen transport network interconnected with at least Germany, France, and the Netherlands by 2028 to support its positioning as a renewable energy import hub for Europe.
- In 2025, the hydrogen councils of Belgium, Germany and the Dutch hydrogen association presented their priorities for the Clean Industrial Deal (CID), calling for a harmonized regulatory framework to support cross-border development of hydrogen technologies and efficient infrastructure. Belgium has also recently signed Memoranda of Understanding (MoUs) with Oman and Namibia on cooperation in green hydrogen.
- In 2024, the Port of Antwerp Bruges released a hydrogen market design called HyBex, with the purpose of being a platform where buyers and sellers can efficiently and transparently trade standardized products. This market design is being supported by physical pipeline infrastructure that is being built in phases by Belgian gas transmission system operator Fluxys.

- In 2025, Hydrogen Central reported that the construction of Belgium's first green hydrogen plant (Hyoffwind) was announced in Zeebrugge. It is a collaboration between Messer and Virya Energy and should be operational in 2026. Also, TotalEnergies in partnership with Air Liquide plan to build a 250 MW electrolyser, to be completed by 2029 with a capacity to produce 30,000 tonnes of green hydrogen per year. The project will receive 600 million euros in government support.

**Analysis:**

- A 2023 update to Belgium's NECP states that due to "high demographic and geographical constraints," national contributions to the EU's renewable energy targets will be "extremely difficult to reach on Belgian territory," but that the country's location allows for the import for renewable electricity from the North Sea. **29.(1)(a), 34.(1)(a)(iii), 35.(1)(d)**

- In February 2023 CTV News reported that Belgium had identified NS as a potential major export partner for a green energy hub in Europe, citing a strong trading relationship with Canada, growing demand for green hydrogen in Europe, and Belgium's expertise in offshore wind energy development. **29.(1)(a), 34.(1)(a)(i)**

- In September 2024, GNL hosted a business delegation led by H.E. Patrick Van Gheel, the Ambassador of Belgium to Canada, to showcase Newfoundland and Labrador's strategic advantages in the development of wind energy and the production of green hydrogen. The visit also provided valuable opportunities for Belgian companies to make direct connections with the province's wind and hydrogen stakeholders.
- During the visit, Tom Hautekiet, Chief Business Development and Transition Officer with the Port of Antwerp-Bruges and President of the Belgian Hydrogen Council, and Minister Parsons signed a Memorandum of Understanding between GNL and the Port of Antwerp-Bruges. The agreement is to enhance cooperation and assist in establishing a green shipping corridor to connect our renewable energy supply with European demand.
- Also during the visit, Brussels-based consultancy firm Hinicio, announced two NL hydrogen project developers, Exploits Valley Renewable Energy Corporation and World Energy GH2 received pre-certification of their products through Hinicio's CertifHy system. These were the first CertifHy designations issued in North America and are a vital step in guaranteeing that these provincial products will meet European Union import rules for green hydrogen.

**Action Being Taken:**

- For information purposes only.

**Prepared/Approved by:** H. Kirby / B. Norman / K. Day / S. Wilkins

**Ministerial Approval:**

May 14, 2025

**40.(1)**

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Background Information on Hydrogen

**Issue:** To provide general hydrogen information in advance of the 2025 World Hydrogen Summit.

**Background and Current Status:**

- Hydrogen is the most abundant element on Earth, but normally exists only as part of other compounds. At room temperature, it is an invisible, odorless, tasteless, and non-toxic gas.
- Hydrogen is also an energy carrier that can transport energy created at one location to another location for use. Hydrogen does not produce carbon dioxide (CO<sub>2</sub>) when burned. Instead, it reacts with the oxygen (O<sub>2</sub>) in the air to create water (H<sub>2</sub>O).
- The International Energy Agency (IEA) reflects various hydrogen production methods, and its associated carbon intensity (i.e. grams of CO<sub>2</sub> equivalent/megajoule or CO<sub>2</sub>-e/MJ). A summary of common pathways, and those of global interest include:

Type of Hydrogen	Production Method	Carbon intensity (grams of CO <sub>2</sub> -e/MJ)
Grey	Steam methane reformation	10-14
Blue	Steam methane reformation with carbon capture and storage	5-8
Green	Renewable electricity powering water electrolysis	0

- According to the IEA, today green hydrogen accounts for less than 0.1 per cent of hydrogen produced. Hydrogen is used widely as an industrial feedstock, including in oil refining, ammonia (NH<sub>3</sub>) and fertilizer production, methanol production, and iron and steel production. Emerging applications may include transportation (particularly heavy on-road transport and marine vessels), power generation (including blending in natural gas networks), and heating.

**Analysis:**

- Hydrogen has gained significant interest globally as a potential means to decarbonize hard-to-abate sectors. This includes both replacing current grey hydrogen use in existing industrial uses with blue or green hydrogen, and by identifying new uses for hydrogen in applications that are traditionally powered by fossil fuels.
- According to the IEA, in 2023 (latest data available), the average levelized costs of hydrogen production globally are approximately USD 0.8-5.7/kg H<sub>2</sub> for grey hydrogen, USD 1.25-6.80/kg H<sub>2</sub> for blue hydrogen, and USD 2.6-12.00/kg H<sub>2</sub> for green hydrogen.
- A number of challenges are preventing large-scale adoption of green or blue hydrogen:
  - The IEA and the Hydrogen Strategy for Canada note that hydrogen is suited to hard-to-abate applications.
  - According to the Hydrogen Strategy for Canada (2020), hydrogen has low energy by volume relative to other fuels, making it challenging to store and distribute. Robust transportation networks (such as pipelines) often have not been established, and technological barriers exist to transport liquid hydrogen at scale. In the near-term, distribution via chemical carrier (e.g., ammonia), is anticipated to be the preferred pathway for transcontinental trade (see Annex A for further details).
- Hydrogen regulatory frameworks and certification systems are in development worldwide. The International Renewable Energy Agency (IRENA) notes (2023) that no existing certification is suitable for cross-border trade, and that the lack of a standardized certification system will

impede trade growth. Three certifications are working towards international recognition: the Green Hydrogen Standard, CertifHy, and the Zero Carbon Certification Scheme.

- As of October 2024, the IEA identified 60 governments with released hydrogen strategies (up from 41 in 2023). Depending on the jurisdiction, strategies focus primarily on importing hydrogen for domestic decarbonization, or on producing to meet local needs and for export. Many jurisdictions have announced hydrogen strategies with targets, including ways to enable: long-term signals to investors; transparent regulatory frameworks; financial support; and projects reaching final investment decision.
- The IEA has highlighted that measures to generate demand for hydrogen are insufficient. Government targets for low-emission hydrogen production account for 43 million metric tonnes (Mt) annually, but targets for demand creation account for only 11 Mt (revised downward by 3 Mt since 2023). The IEA anticipates that achieving a global net-zero carbon emissions by 2050 pathway would necessitate more than 150 Mt of hydrogen use by 2030.
- NL has several strategic advantages that can support green hydrogen production, including:
  - abundant wind, land, and water resources;
  - strategic location as the closest North American jurisdiction to Europe;
  - deep-sea ice-free ports adjacent to major shipping lanes;
  - workforce skilled in large-scale construction and energy projects in challenging and offshore environments; and,
  - Environmental, Social and Governance advantages (under Canada).
- To support NL as an attractive investment destination for green hydrogen, Government has undertaken a number of activities and initiatives, including (see **Annex B** for further details):
  - launching a Crown Lands Call for Bids for Wind Energy Projects and issuing Wind Application Recommendation Letters to four successful companies in August 2023;
  - establishing a Wind Energy Contingency Land Reserve (April 2024) and a Wind Hydrogen Hub Land Reserve (July 2024) to enable two more companies to apply for Crown land to further advance their proposed wind-hydrogen projects;
  - signing a Joint Declaration of Intent with the City of Hamburg, Germany in September 2022 to encourage the establishment of hydrogen supply chains;
  - signing a Memorandum of Understanding (MOU) with the Port of Rotterdam in the Netherlands in May 2023 to cooperate and explore green hydrogen opportunities;
  - signing an MOU with the Port of Antwerp-Bruges in Belgium to further advance a green shipping corridor to connect NL's renewable energy supply with European demand;
  - releasing a Hydrogen Development Action Plan in May 2024, to further enable the development of a green hydrogen and ammonia production industry in NL; and,
  - developing renewable energy legislation in 2024-25, for debate in the House of Assembly.

**Action Being Taken:**

- For information purposes only.

**Prepared/Approved by:** J. Collins / M. Hunter / K. Day / S. Wilkins /

**Ministerial Approval:**

May 14, 2025

40.(1)

**Annex A**  
**Comparison of Hydrogen Conversion Methods**

		<b>Compressed Gas</b>	<b>Liquid Hydrogen</b>	<b>Ammonia</b>
<b>Process and technology maturity</b>	Conversion	High	Small scale: high Large scale: low	High
	Tank storage	High	High	High
	Reconversion	High	High	Medium
<b>Hazards</b>		Potential for leakage High pressure gas on public routes	Flammable No smell or flame visibility	Flammable Acute toxicity Precursor to air pollution Corrosive
Conversion and reconversion energy required (percentage of hydrogen lost)		N/A	Current: 15-35% Potential: 18%	Conversion: 7-18% Reconversion: <20%
Technology improvements/scale-up needs		Compressor cost, reliability and efficiency management	Production plan efficiency Boil-off management	Integration with flexible electrolyzers Improved conversion efficiency Hydrogen purification

Source: Hatch, "Lifecycle of Green Hydrogen Production," for Government of Newfoundland and Labrador IET (April 26, 2022), p. 67.

## **Annex B**

### **Summary of the Provincial Government's Wind-Hydrogen Activities**

- On April 5, 2022, the Provincial Government lifted the 15-year moratorium on onshore wind farms, creating an opportunity for industrial customers to generate wind energy for their own consumption and wind generation export.
- On April 5, 2022, the Province and the Government of Canada jointly announced the intention to expand the mandate of the Canada-Newfoundland and Labrador Offshore Petroleum Board (C-NLOPB) to include the regulation of offshore renewables.
- As of March 2025, both federal and provincial legislation to amend the Atlantic Accord Acts to enable this expanded mandate had been passed by the House of Commons and the House of Assembly, and had received Royal Assent. IET continues to work with federal counterparts and the C-NLOPB on a jointly-managed regulatory framework for offshore renewable energy.
- On July 26, 2022, IET launched a call for submission of Nominations of Areas of Interest for wind energy projects in the province, open for any available Crown lands. The department received 31 land nomination submissions.
- On September 27, 2022, the Province signed a Joint Declaration of Intent with the Free and Hanseatic City of Hamburg on cooperation in the field of green hydrogen and hydrogen technologies.
- In Fall 2022, IET released the Renewable Energy Resources Data Hub, providing information to industry and the public on developed and undeveloped renewable energy resources and supporting infrastructure in the province.
- On December 14, 2022, IET launched the Crown Lands Call for Bids for Wind Energy Projects. IET received 24 bids from 19 companies, all of which went through a first initial review. On July 6, 2023, IET announced that nine bids from nine companies advanced to a more in-depth second stage.
- On February 23, 2023, IET released the Wind-Hydrogen Fiscal Framework, to Provide a predictable and transparent fiscal system to inform investment decisions and resource development for wind-hydrogen projects.
- On March 23, 2023, Newfoundland and Labrador and the Government of Canada launched the Regional Assessment of Offshore Wind Development in Newfoundland and Labrador. The assessment was conducted by an arms-length committee which engaged Indigenous groups, federal and provincial authorities, non-government organizations and the public. The Regional Assessment will help inform future project-specific federal impact assessments and decisions for offshore wind projects in these areas. The committee issued its final report to federal and provincial Ministers on January 23, 2025.
- On May 9, 2023, the Province signed a Memorandum of Understanding (MOU) with the Port of Rotterdam in the Netherlands to cooperate and explore opportunities in the area of green hydrogen and hydrogen technologies.
- On August 30, 2023, IET announced four successful proponents in the Crown Lands Call for Bids for Wind-Hydrogen projects:
  - Toqlukuti'k Wind and Hydrogen (TQK) (formerly known as ABO Wind);
  - Everwind NL Company;

- Exploits Valley Renewable Energy Corporation (EVREC); and,
- World Energy GH2 (WEGH2).
- In October 2023, Government hosted a delegation from the City of Hamburg representing hydrogen companies and service providers in the energy industry.
- On December 6, 2023, the Province signed a MOU with the Government of Canada on offshore wind development which establishes a framework for Government to administer land tenure and life-cycle regulation in areas in provincial bays that will not be jointly regulated under the Accord Acts.
- On March 20, 2024, the Government of Canada released the Newfoundland and Labrador Regional Energy and Resource Table — Framework for Collaboration on the Path to Net-Zero was released on March 20, 2024. The Framework includes a Wind and Hydrogen stream with collaborative actions for the Province and the federal government to undertake to develop the provincial wind-hydrogen industry.
- On May 14, 2024, IET launched its Hydrogen Development Action Plan to provide a focused policy approach to hydrogen development in the province to guide involvement in initiatives that are imminent or currently underway, with action items categorized into four pillars:
  - Export and Domestic Markets;
  - Partnership, Innovation and Industry Support;
  - Training and Jobs; and,
  - Regulatory Framework.
- On April 1, 2024, IET established a 2,500-hectare Wind Energy Contingency Land Reserve for Argentia Renewables LP (Pattern). Pattern is pursuing a wind-hydrogen project on private Port of Argentia land. The contingent reserve is intended to accommodate any potential infrastructure movement into adjacent Crown lands if required by the Environmental Assessment process or project development.
- On July 23, 2024, IET established a 10,316-hectare Wind Hydrogen Hub Land Reserve for North Atlantic Refining Limited (NARL).
- On September 27, 2024, a MOU was signed between the Provincial Government and the Port of Antwerp-Bruges in Belgium. This agreement aims to further enhance cooperation and assist in establishing a green shipping corridor to connect our Canadian renewable energy supply with European demand. During the visit when the MOU was signed, Brussels-based consultancy firm Hincio also announced that EVREC and WEGH2 had received CertifHy pre-certification. The pre-certification acts as a dry run for full commercial production certification and approval means that fuel produced is essentially ready to receive full certification to ship to Belgium, a vital step towards export of hydrogen into the European market.
- On February 13, 2025, the Provincial Government, the Government of Nova Scotia, and the Government of Canada jointly announced they were all joining the Global Offshore Wind Alliance (GOWA), which aims to mobilize international economies and agreements to accelerate offshore wind uptake.

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Denmark

**Issue:** To provide an overview of Denmark's renewable energy resources and policies.

**Background and Current Status:**

- The Kingdom of Denmark includes metropolitan Denmark and two autonomous regions: Greenland and the Faroe Islands. Denmark shares a land border with Germany and covers an area of 42,943 km<sup>2</sup>, comprising the Jutland peninsula and the Danish Archipelago. Denmark has a population of 5.99 million and a population density of 139.6/km<sup>2</sup>. **Annex A** provides a comparison of Denmark and Greenland to Newfoundland and Labrador.
  - Greenland is an island in North America, east of the Canadian Arctic Archipelago with a land area of 2,166,086 km<sup>2</sup>, and a population of 56,583 people. It has a population density of 0.028/km<sup>2</sup>, making it the least densely populated region in the world.
  - The Faroe Islands are in the North Atlantic Ocean, roughly halfway between Norway and Iceland. The islands have a total land area of 1,399 km<sup>2</sup>, a population of 54,000, and a population density of 38.6/km<sup>2</sup>.
- Denmark's 2023 electricity mix was composed of wind (57.6 per cent), biofuels (16.2 per cent), coal (7.4 per cent), solar (9.9 per cent), natural gas (2.9 per cent), waste (4.9 per cent) and oil (1.1 per cent). Denmark is a net importer of electricity; in 2023, approximately 10.4 per cent of its electricity was imported. In 2021 (latest data available), Greenland's electricity mix was composed exclusively of hydropower (83.3 per cent) and oil (16.7 per cent). The Faroe Island's electricity mix for 2021 was composed of oil (61.9 per cent), hydropower (26.2 per cent), and wind (11.9 per cent).
- In 2024 renewable energy sources accounted for 46.9 per cent of the net electricity generated in the EU, with Denmark leading at 88.4 per cent, primarily sourced from wind energy.
- Denmark has established ambitious greenhouse gas emissions and energy targets with a 70% reduction by 2030 and net zero by 2050. Annual approval of the climate strategy is required by Parliament. Key commitments include phasing out coal by 2030, achieving 100% renewable electricity, and sourcing 55% of total energy supply from renewables by 2030. To quadruple onshore renewable energy by 2030, national assessments for onshore wind turbines, solar PV, and Power-to-X (PtX) are planned.
- Global data/intelligence firm, Statista, reports that onshore wind energy capacity in Denmark reached around 4,808 MW in 2024, while offshore capacity increased to ~2,813 MW. Denmark has a target of 14 GW of offshore capacity by 2030. This commitment comes as part of its goals under the EU's North Seas Energy Cooperation's pledge to build 120 GW of EU offshore power by 2030 and at least 300 GW by 2050.
- At the end of 2021, Denmark had 4.6 GW of onshore wind capacity and 2.3 GW of offshore wind capacity. Denmark has announced a target of 13 GW of offshore wind capacity by 2030. In 2020, Denmark announced the construction of an artificial island in the North Sea as a hub for 3 GW of offshore wind, with the potential for up to 120 GW and green hydrogen production.
  - In February 2023, Denmark paused its offshore wind development scheme due to possible infringement of European Union (EU) law.
  - Denmark has agreements in place with Belgium and Germany to connect offshore wind networks via subsea cables.
- Denmark's state-owned transmission system operator, Energinet, and gas distribution company, Evida, will own/run the future hydrogen pipeline infrastructure. Denmark and

Germany will build a hydrogen pipeline by 2028 and have agreed to co-operate on wind offshore and Carbon Capture, Utilization and Storage (CCUS) collaboration projects.

- In January 2023, the company H2Carrier announced a plan to produce green hydrogen and ammonia on board a ship connected to 1.5 GW of onshore wind in Greenland. The ship concept includes an onboard desalinators and electrolyzer. The use of a mobile production platform is intended to minimize environmental impacts and decrease costs.
- In February 2023, the European Commission approved Denmark's EUR 170 million scheme on PtX technologies to support renewable hydrogen production. With the scheme, Denmark aims to introduce 100-200 MW of electrolysis capacity through a public tender that provides a direct grant to the winning companies for a ten-year period.
- In April 2023, Denmark launched a PtX tender to support green hydrogen production with DKK 1.25 billion in funding. In October 2023, five companies received funding: Plug Power (Idomlund Denmark), European Energy (Windtestcenter Måde K/S), European Energy (Padborg PtX ApS), Electrochaea (Biocat Roslev), and European Energy (Kassø PtX Expansion ApS). Additional funding was awarded to HyProDenmark/Everfuel at a reduced rate. The support will be distributed over a 10-year period, and companies have four years to build their hydrogen production facility from contract signing.
- A market assessment conducted by Copenhagen Infrastructure Partners (CIP) Fonden in 2023 reported that the Danish Energy Agency has stated Denmark will be "more than self-sufficient" in green hydrogen by 2030.

#### Analysis:

- Denmark is home to some of the world's top innovators in wind energy and aims to leverage these capacities to become a global green hydrogen frontrunner. Meanwhile, NL has great ambitions to develop its outstanding wind resource to become a major hydrogen exporter to EU markets. [REDACTED] 29.(1)(a)
- The Ministry of Foreign Affairs of Denmark, in partnership with two Danish interest organizations (Danish Industry, Energy Export Denmark), brought a business delegation to St. John's, Newfoundland & Labrador in June 2024. The delegation included eight Danish energy companies spanning the full wind and hydrogen value chains, along with Copenhagen Infrastructure Partners. They also attended the Energy NL Conference.
- In December 2024, as a follow-up to the June visit, the Danish Embassy organized a fully-paid delegation to Copenhagen, Denmark. IET Renewable Energy officials attended with along with representatives from NRCAN, GNS, NL Hydro, and C-NLOPB.
- IET is in regular discussions with Danish Embassy officials (Ottawa) [REDACTED]

29.(1)(a), 34.(1)(a)(iii), 35.(1)(d)

#### Action Being Taken:

- For information purposes only.

Prepared/Approved by: H. Kirby / B. Norman / K. Day / S. Wilkins

#### Ministerial Approval:

May 14, 2025

40.(1)

**Annex A: Comparison of Denmark and Greenland to NL**

	<b>Metropolitan Denmark</b>	<b>NL</b>
Population	5,998,205	545,579 (Jan 2025) *
Land area	42,943 km <sup>2</sup>	405,720 km <sup>2</sup>
Population density	139.6 people/km <sup>2</sup>	1.34 people/km <sup>2</sup>
Marine coastline	8,750 km	29,000 km
Offshore wind - installed capacity	2,300 MW (approx.)	0
Onshore wind - installed capacity	4,700 MW (approx.)	54 MW
Renewable Electricity Mix (does not include nuclear)	84% (2022) (Varies by year due to high proportion of variable renewables)	Over 90%
Net zero commitment	Yes	Yes

	<b>Greenland</b>	<b>NL</b>
Population	56,583	545,579 (Jan 2025) *
Land area	2,166,086 km <sup>2</sup>	405,720 km <sup>2</sup>
Population density	0.028/km <sup>2</sup>	1.34 people/km <sup>2</sup>
Marine coastline	44,087 km	29,000 km
Offshore wind - installed capacity	0 MW	0
Onshore wind - installed capacity	0 MW	54 MW
Renewable Electricity Mix (does not include nuclear)	83%	Over 90%
Net zero commitment	None identified	Yes

Note: Newfoundland and Labrador population, land area, and population density is from Statistics Canada, Census Profile, 2025 Census of Population.

## Department of Industry, Energy and Technology

**Title:** German Hydrogen Opportunities

**Issue:** To provide an overview of German hydrogen opportunities.

### Background and Current Status:

- Germany is in Central Europe and is the most populous country in the European Union (EU), with approximately 84 million people. Its land area is 357,596 km<sup>2</sup>, with a population density of 235/km<sup>2</sup>. See **Annex A** for Germany and Newfoundland and Labrador comparison.
- In 2023, Germany's electricity mix was 44.6 per cent non-renewable (26.6 per cent coal, 17.1 per cent natural gas, and 0.9 per cent oil), and approximately 55 per cent renewable, including nuclear and waste (27 per cent wind, 11.8 per cent solar, 7.7 per cent biofuels, 4.9 per cent hydroelectric, and 2.3 per cent waste).
- According to the German Wind Energy Association, in 2024 Germany had 9.2 GW of installed offshore wind capacity and 63.5 GW of installed onshore wind capacity. Germany has the highest installed wind capacity in Europe.
- Germany has set legal targets to achieve: 40-45 per cent of electricity demand with renewable sources by 2025; 80 per cent of electricity demand with clean sources by 2030; power generation virtually free of greenhouse gases by 2035; and climate neutrality by 2045.
- In 2020, Germany released a National Hydrogen Strategy with 9 billion Euros in funding for six focus areas: hydrogen production; hydrogen use; infrastructure and supply; research, education, and innovation; European activities; and international hydrogen economy.
- In 2022, Fernleitungsnetzbetreiber Gas, the association of supra-regional gas transmission companies in Germany, released two plans to convert natural gas pipelines to hydrogen transmission networks, by 2030 and 2050, respectively. Germany has also established agreements with Belgium and Denmark to link hydrogen infrastructure.
- The proposed "Hydrogen Network 2030" (**Annex B**) will be 5,100 kms long with about 3,700 kms from converting existing natural gas pipelines. It has been simulated to meet a peak demand of 10 GW hours per hour. In 2023, Germany reached agreements with neighboring countries, including Belgium and the Netherlands to link hydrogen networks.
- Several German ports, including Hamburg, Wilhelmshaven, and Rostock, are expected to play key roles in Germany's green hydrogen import plans. These ports are also strategically positioned to support a German hydrogen distribution network as well as European networks.
- In January 2023, a series of amendments to various pieces of German energy legislation came into force, known collectively as the "Easter Package." Some changes include:
  - increasing auction quantities for new wind and solar capacity;
  - funding for co-location of renewable energy and chemical storage (inc. hydrogen);
  - raising offshore wind capacity targets to 30 GW by 2030, 40 GW by 2045, and 70 GW by 2045; and
  - measures to increase profitability and streamline approvals for offshore wind.
- Germany's updated hydrogen strategy released in 2023 indicates that they will need to import up to 70 per cent of its hydrogen to be climate neutral by 2045. German Government Economic Development Agency (GTAI) projects that beyond 2030 demand levels could increase massively, with forecasts ranging from between 400 TWh to 800 TWh by 2050, as the high-need sectors come on board.

- In May of 2024, the German government approved the **Hydrogen Acceleration Act**, which aims to expedite the development of hydrogen infrastructure in Germany. This includes accelerating the construction of hydrogen import and production facilities by prioritizing the process for their approval.
- In April 2025 the Social Democratic Party (SPD) approved a coalition agreement with the conservative alliance (CDU/CSU), meaning the country's landmark energy transition will continue, maintaining climate targets, without major adjustment.

**Analysis:**

29.(1)(a)

Given Germany's limited ability to expand renewable energy development due to land and seabed constraints, its hydrogen strategy is focused on green hydrogen imports instead of domestic production.

- In August 2022, Germany and Canada established the Canada-Germany Hydrogen Alliance in Stephenville. Germany also has international hydrogen agreements with other countries, including Australia, Chile, Japan, Morocco, Algeria and Saudi Arabia.
- In September 2022, the Province signed a Joint Declaration of Intent with the City of Hamburg on cooperation in the field of green hydrogen and hydrogen technologies. Since then, IET has led and participated in various ongoing and outgoing green energy initiatives with Germany, particularly the city of Hamburg (see **Annex C** for collaboration list).
- In March 2024, at the Canada-Germany Hydrogen and Ammonia Producer Offtaker Conference in Hamburg, Canada and Germany signed a MOU to establish a bilateral program to support hydrogen trade and secure early access for clean hydrogen producers in the German Market.
- The combined \$600 million fund would establish a transatlantic clean hydrogen "double-auction" wherein German industrial consumers would bid to buy clean hydrogen generation from Canadian developers. The process is designed to close any gaps between the price producers offer and the price that buyers are willing to pay.
- Hamburg officials reference the NL - City of Hamburg partnership and outcomes thus far as the "model for cooperation on hydrogen development between Canada and Germany".

**Action Being Taken:**

- For information purposes only.

**Prepared/Approved by:** H. Kirby/ B. Norman / K. Day / S. Wilkins

**Ministerial Approval:**

May 12, 2025

40.(1)

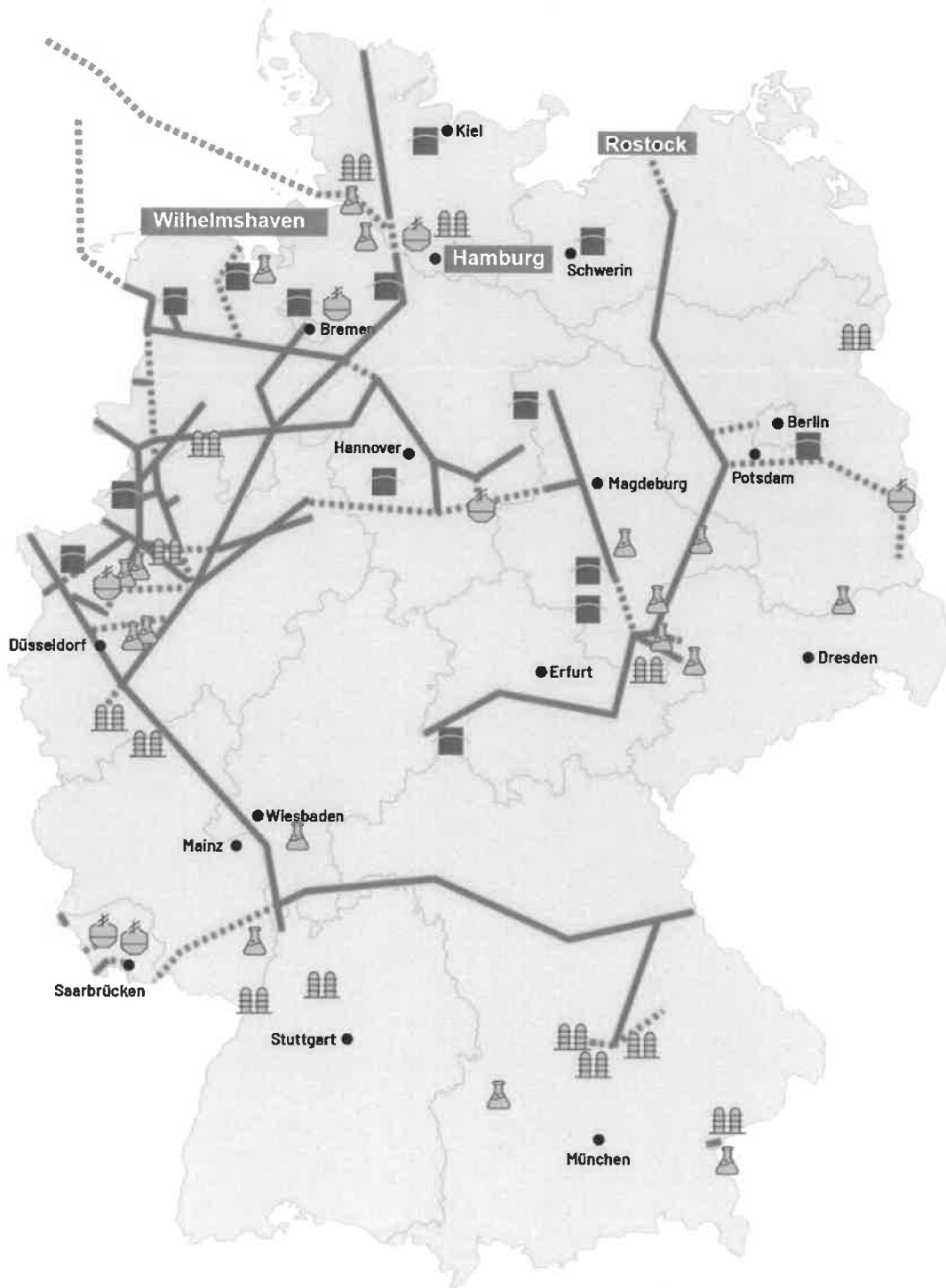
**Annex A****Comparison Germany and Newfoundland and Labrador**

	<b>Germany</b>	<b>NL</b>
Population	84,119,100 (2024 est.)	545,579 (Jan 2025)*
Land area	357,596 km <sup>2</sup>	405,720 km <sup>2</sup>
Population density	235 people/km <sup>2</sup>	1.34 people/km <sup>2</sup>
Marine coastline	2,389 km	29,000 km
Offshore exclusive economic zone	32,982 km <sup>2</sup>	App.1,000,000 km <sup>2</sup>
Permits nuclear power generation	Yes	No
Offshore wind - installed capacity	9,200 MW (approx.)	0
Onshore wind - installed capacity	63,461 MW	54 MW
Renewable Electricity Mix (does not include nuclear)	53.7% (2023)	Over 90%
Net zero commitment	Yes	Yes

- Newfoundland and Labrador population is from Statistics Canada, Table 17-10-0009-01 Population estimates, quarterly

### Annex B

## Illustrative Map of Germany's Planned Hydrogen Distribution Network 2030



### Annex C

#### Collaborations List: Newfoundland and Labrador/Canada — Germany

- **March 2021** – Canada and Germany entered into the Canada-Germany Energy Partnership. This partnership established a formal collaboration on a broad range of shared energy priorities aimed at facilitating private sector engagement, trade and investment opportunities.
- **August 2022** – Governments of Canada and Germany signed the Declaration of Intent to establish a Canada-Germany Hydrogen Alliance in Stephenville, NL, signifying to both countries and the rest of the EU, NL's potential to use renewable energy resources, in particular wind resources, to bring green hydrogen to the global marketplace.
- **September 2022** – the Government of Newfoundland and Labrador (GNL) signed a Joint Declaration of Intent with the Free and Hanseatic City of Hamburg, on cooperation in the field of green hydrogen and hydrogen technologies. The agreement was signed in Hamburg, Germany during the WindEnergy Hamburg conference.
- **March 2023** - officials from IET attended the first meeting of the Canada-Germany Atlantic Energy Roundtable. Representatives from the German government, Natural Resources Canada, Nova Scotia, New Brunswick, Prince Edward Island, and support staff for the Canada-Germany Energy Partnership were present.
- **June 2023** – IET Executive attended the Expert Delegation on Offshore Wind Development in Germany and met with Hamburg officials to advance the relationship, including pitching NL as an ideal location for a fall delegation visit.
- **October 2023** – IET hosted a delegation of 30 persons from the City of Hamburg, representing hydrogen companies and service providers in the energy industry. The delegation was headed by Senator Dr. Melanie Leonhard, Minister for Economy and Innovation for the City of Hamburg. NL was one of only two North American locations Dr. Leonhard visited in 2023.
- **March 2024** – IET, along with local wind-hydrogen developers, attended the Canadian-German Hydrogen and Ammonia Producer Offtaker Conference in Hamburg, Germany.
  - At the Conference, Canada and Germany signed a Memorandum of Understanding (MOU) to promote production and offtake of renewable hydrogen through the establishment of a joint H2Global window for hydrogen export projects. This funding mechanism seeks to establish the support of the hydrogen market ramp-up by providing cost of difference, based on a competitive process in both countries, including proposed projects in Newfoundland and Labrador, and Nova Scotia.
  - During the Conference, Pattern Energy Group formalized an offtake agreement to examine the possibility of supplying green ammonia from Canada. This partnership was a direct result of discussions with the Hamburg-based energy company, Mabanaf, who visited NL with the Hamburg delegation in October 2023.
  - The Port of Hamburg and NL's Port of Argentia also signed a Letter of Intent (LOI) to collaborate on the export and import of green hydrogen from Canada to Germany.
- **April 2024** - IET met with members of the German – Canadian Parliamentary Friendship Group (PG) from Berlin, Germany to provide an overview of the new wind-hydrogen industry in NL.
- **May 2024** - a delegation of five German parliamentarians visited NL, accompanied by German Embassy in Canada officials, to learn about the energy partnership between Canada and Germany. During their visit, they met with academia, the Port of Argentia, Pattern Energy and IET.

- **September 2024** - IET in partnership with econext organized a business delegation to WindEnergy Hamburg with 9 NL companies and organizations attending.
- **October 2024** – IET participated in the Hydrogen Technology Expo Europe in Hamburg, as part of the department's ongoing efforts to advance cooperation in the field of green hydrogen and hydrogen technologies with Germany. NL was the only Canadian province with officials presenting at the HTEE.

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** The Netherlands

**Issue:** To provide overview of hydrogen opportunities with the Netherlands, the Port of Rotterdam, and the Port of Amsterdam.

**Background and Current Status:**

- The Netherlands, located in Northwestern Europe, borders Germany and Belgium. With a population of 18.07 million in approximately 33,500 km<sup>2</sup>, it has a high density of 540 individuals per km<sup>2</sup>. The country features a coastline of 451 km and an offshore Exclusive Economic Zone of 58,000 km<sup>2</sup>. **Annex A** compares the Netherlands and Newfoundland and Labrador.
- The Netherlands electricity mix is 54 per cent non-emitting (27 per cent wind, 17.7 per cent solar, 5.9 per cent biofuels, and 2.9 per cent nuclear), with 46 per cent coming from fossil fuels (36 per cent natural gas, 6.7 per cent coal, and 3.6 per cent unspecified fossil fuel).
- The Port of Rotterdam (PoR), Europe's largest, covers approximately 12,500 hectares (ha), including 6,000 ha of industrial sites. It handles about 28,000 seagoing and 90,000 inland vessels annually, generating around €840 million in revenue mainly from land leases and port dues. In 2023, total cargo throughput reached 438.8 million metric tonnes, importing various dry and liquid bulk goods (e.g., iron ore, coal, crude oil, liquid natural gas, and general cargo).
- Covering 1,200 ha, the Port of Amsterdam (PoA), it is the second largest port in the Netherlands after Rotterdam and is one of 5 Dutch ports of significance. It specializes in bio and synthetic fuels, hydrogen initiatives, and circular manufacturing. The Port ranks as the fourteenth largest in Europe based on total cargo tonnage, managing around 63 million tons each year.
- The first Dutch offshore wind farms were established in 2007-08, and by 2021 it had the fifth highest offshore wind capacity globally at 2,460 MW, producing nearly six terawatt hours per year. The Netherlands Enterprise Agency reports that at the end of 2023 more than 4.5GW of wind energy was operating offshore, and 6.8 GW has been installed onshore.
- In 2022, the Government raised the target for offshore wind capacity from 11 to 21 GW by 2030/2031. In addition, the Netherlands is focusing on the generation of energy from approximately 50 GW of offshore wind in 2040 and approximately 70 GW in 2050.
- The Netherlands plans to cut greenhouse gas emissions by 49 per cent by 2030 and 95 per cent by 2050 compared to 1990 levels. These targets became law in 2019, backed by Dutch climate change plans and the National Climate Agreement. This Agreement focuses on electricity, industry, buildings, transportation, and agriculture. Its goal is to reduce carbon emissions while ensuring a fair distribution of costs between households and businesses.
- In April 2020, the Netherlands released its hydrogen strategy. It has four pillars: 1) hydrogen market legislation and regulation; 2) cost reduction and scaling up green hydrogen; 3) sustainability of consumption; and 4) supporting policy (e.g., codes/standards on hydrogen sustainability and safety, developing local infrastructure, supporting research and innovation).
- In December 2021, the Governments of Canada and the Netherlands signed a non-binding Hydrogen Memorandum of Understanding (MOU), which outlined plans for increased cooperation between the two countries in developing green hydrogen.

- On May 9, 2023, Newfoundland and Labrador signed a MOU with the Port of Rotterdam to support the establishment of hydrogen supply chains to assist Newfoundland and Labrador's export of green hydrogen to the Netherlands, and to other parts of Europe.
- In March 2024, Deputy Chief of Mission and First Secretary, Trade and Economy, Netherlands Embassy in Canada, visited NL. During their visit, embassy officials met with Energy NL, econext, World Energy GH2, officials from Global Affairs Canada, ACOA, the Port of Argonia, and North Atlantic Refining Limited. The officials met with Provincial Government officials (IET) and discussed Netherlands and provincial green hydrogen developments.
- The Netherlands Embassy returned with a delegation of energy firms in June 2024 and presented at the Energy NL Conference: Dr. Michel Heijdra, Vice Minister for Climate & Energy at the Netherlands' Ministry of Economic Affairs and Climate Policy spoke on a panel about "Regulatory Uncertainty" and several energy organizations, including Port of Rotterdam and the DOB Academy, presented on energy opportunities in the Netherlands market.
- In 2025, the Netherlands will prioritize offshore wind energy and a national hydrogen network. The Netherlands Enterprise Agency is driving green hydrogen technologies via the Hydrogen Holland I initiative. The project is a partnership with Shell and PoR to create Europe's largest renewable hydrogen plant. The project involves building a 200 MW electrolyzer in the PoR and will produce green hydrogen from renewable energy sources, primarily offshore wind, for industrial and mobility sectors.

#### **Analysis:**

- The Netherlands had set a 3-4 GW hydrogen electrolysis capacity target by 2030, however, the country's Environmental Assessment Agency (PBL) recently indicated that challenges, from sharply increased power grid tariffs, rising electrolyser costs, and market uncertainty on hydrogen demand may affect plans. The PBL now forecasts that the Netherlands will have 1.2 - 1.5 GW of electrolyser capacity installed by 2030, less than half of its target.
- The Netherlands hydrogen strategy acknowledges that hydrogen imports will play a key role in achieving national clean energy and hydrogen targets and highlights the importance of the PoR to the development of European hydrogen markets.
- The PoR is developing as an international hydrogen import, production and transportation hub. The Port notes that hydrogen demand in the Netherlands is anticipated to increase to approximately 14 million metric tonnes (Mt) by 2050, with approximately 50 per cent flowing through Rotterdam. Due to projected European demand, it anticipates the total amount of hydrogen to flow through Rotterdam to be up to 20 Mt by 2050.
- The PoR notes that local production of hydrogen will fill some of this demand but import of hydrogen will be essential to position the Port as a Northwestern Europe hydrogen hub. By 2030, the Port anticipates 4 Mt of hydrogen imports.
- The province's MOU with the PoR is an agreement to collaborate on green hydrogen issues, opportunities, and projects. It focuses on specific areas of cooperation:
  - Exploring the commercial opportunity and scale of future green hydrogen import markets via the Port into the Netherlands and other areas of northwestern Europe, to support the development of Newfoundland and Labrador's green hydrogen export market.
  - Assessing the potential for international supply chains between the province and the Port for green hydrogen, including identifying and assessing existing barriers (e.g., legal, regulatory gaps, costs) and sharing information that could help mitigate such barriers.
  - Collaborating to secure private and federal investment in international green hydrogen supply chain projects; and,

- Collaborating to share knowledge and best practices in key areas (e.g., port development, infrastructure, and management; engaging stakeholders, post-secondary institutions, and other commercial and governmental parties).
- Dutch gas grid operator Gasunie is working to establish an open access hydrogen grid linking major industrial clusters. Work on the 1,200 km hydrogen network was started in October 2023 and the network was initially projected to be operational in 2030. The operations date has recently been revised to 2033.
- The grid will use existing gas pipelines, new constructions, and salt caverns for hydrogen storage, and will connect major industrial hubs, import terminals at seaports, and hydrogen production facilities within the Netherlands. It will also connect with Belgium and Germany, with a focus on the German market. See **Annex B**.
- A proposed hydrogen network in Germany will span 5,100 km, with 3,700 km converted from natural gas pipelines, to transport peak demand of 10 GWh/h. In 2023, Germany partnered with Belgium and the Netherlands to connect their hydrogen networks. See **Annex C** for map.
- Immediately prior to WHS 2025, GNL will sign an MOU with the Port of Amsterdam. This MOU is mirrored to the province's agreement with the PoR, which focuses on collaboration on green hydrogen issues, opportunities, and projects. The PoA is focused specifically on liquid organic hydrogen carrier (LOHC) imports versus ammonia which will be complementary given that the PoR is already focused on ammonia delivery.

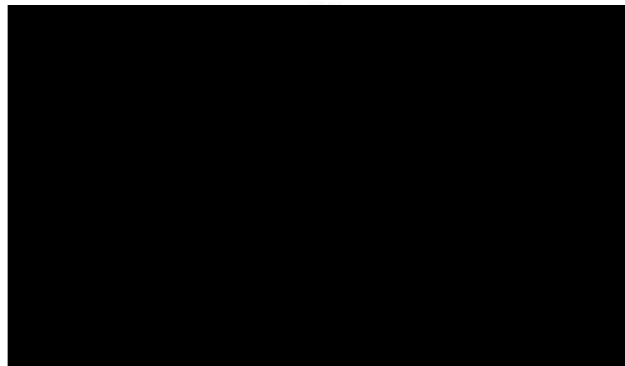
**Action Being Taken:**

- For information purposes only.

**Prepared/Approved by:** W. Skinner / M. Hunter / B. Norman / K. Day / S. Wilkins

**Ministerial Approval:**

May 14, 2025



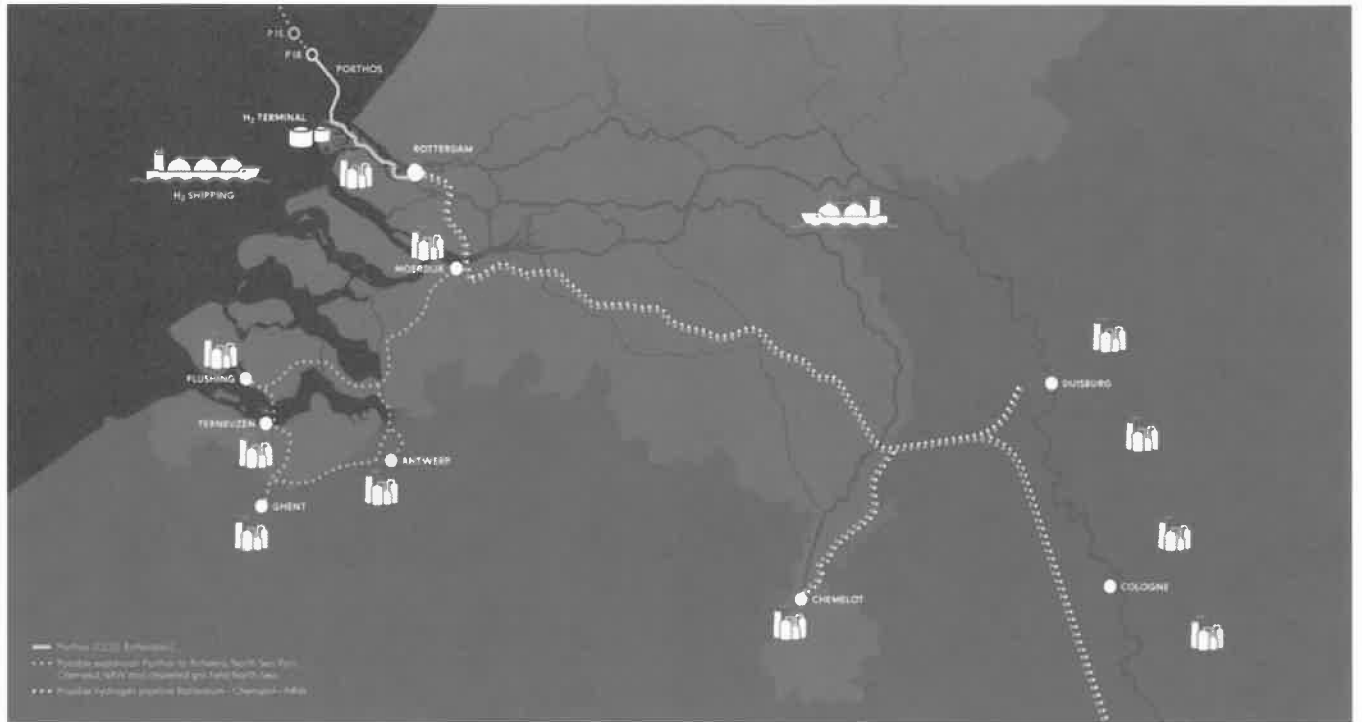
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**Annex A**  
Comparison of the Netherlands to Newfoundland and Labrador

	<b>Netherlands</b>	<b>Newfoundland and Labrador</b>
Population	18,066,249 (Mar 2025)	545,579 (Jan 2025)*
Land area	33,481 km <sup>2</sup>	405,720 km <sup>2</sup>
Population density	540 people/km <sup>2</sup>	1.34 people/km <sup>2</sup>
Marine coastline	451 km	29,000 km
Offshore exclusive economic zone	58,000 km <sup>2</sup>	Approx. 1,000,000 km <sup>2</sup>
Permits nuclear power generation	Yes	No
Offshore wind - installed capacity	4,500 MW	0
Onshore wind - installed capacity	6,800 MW	54 MW
Renewable Electricity Mix (including nuclear)	53.5%	Over 90%
Net zero commitment	Yes	Yes

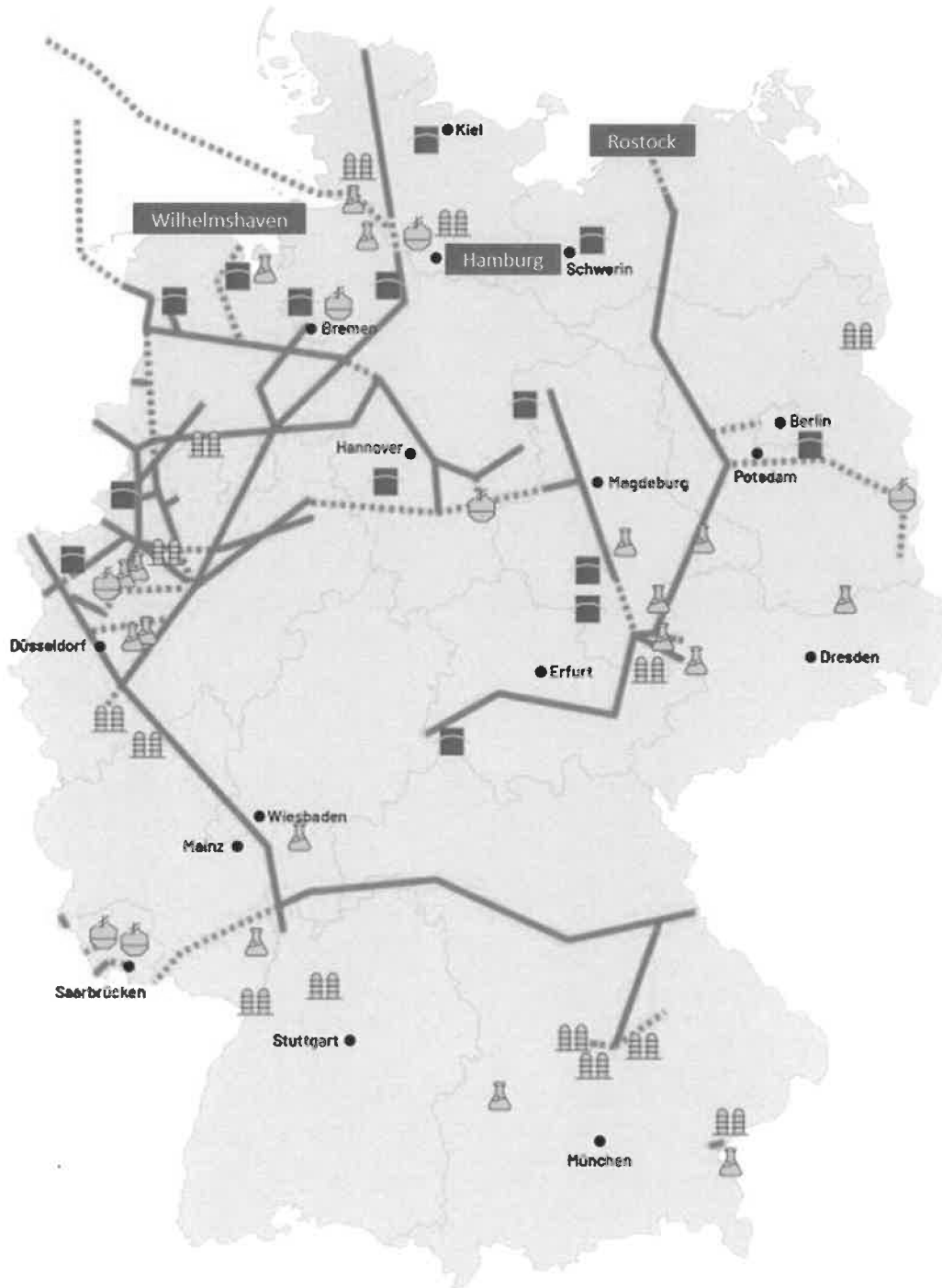
- Newfoundland and Labrador population is from Statistics Canada, Table 17-10-0009-01 Population estimates, quarterly

### Annex B Port of Rotterdam – Europe Hydrogen Corridor



### Annex C

#### Illustrative Map of Germany's Planned Hydrogen Distribution Network 2030



**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** World Hydrogen Summit 2025

**Issue:** To provide an overview of the World Hydrogen Summit 2025.

**Background and Current Status:**

- The World Hydrogen Summit (WHS) 2025 will be held from May 20-22, 2025, in Rotterdam, Netherlands. The WHS has been held annually since 2020 to convene government representatives, hydrogen and energy stakeholders, service providers, and hydrogen end-users. WHS 2024 was attended by 15,000 participants with 130+ countries represented and approximately one hundred guest speakers.
- WHS 2025 features exhibitions, speakers, panels, and receptions. It provides attendees with opportunities to network with senior officials from major energy companies, national and regional governments, port operators, and companies which operate throughout the hydrogen development chain, including regulators, construction companies, energy buyers, utility companies, and shipping companies.

**Analysis:**

- Countries and industries globally are seeking opportunities to use green hydrogen and ammonia to assist in reducing their carbon emissions in sectors where it is technically challenging or expensive to electrify directly (e.g., industrial processing and large transport). Hydrogen is an essential part of Europe's green energy transition and future energy sovereignty, helping Europe achieve energy independence from Russian oil and gas.
- At WHS 2023, the province signed an MOU with the Port of Rotterdam to help create hydrogen supply chains to support NL's export of green hydrogen to the Netherlands and other European regions. This agreement was a complement to the province's 2022 Declaration of Intent with Hamburg, Germany, focused on hydrogen and related technologies.
- In 2024, WHS served as a backdrop for the release of the province's Hydrogen Development Action Plan (HDAP) and on the margins of this year's WHS, the province will be signing an MOU with the Port of Amsterdam (PoA).
- The Government of Canada will have a Canadian Pavilion at WHS 2025 to showcase Canadian technology, hydrogen projects, and industry highlights. It is anticipated that Trade Commissioners from up to 14 different European offices will be in attendance.
- NL will have space within the Canadian Pavilion as part of an Atlantic Canadian initiative led by Energy NL and funded through the Atlantic Trade and Investment Growth Agreement (ATIGA). Over 20 NL companies, ports, and organizations will attend the event (**Annex A**). EVERC and Everwind have their own spaces within the Canadian booth.
- WHS 2025 activities include (full WHS Program in **Tab 6**):
  - an Atlantic Canada reception, sponsored by Stewart McKelvey/Energy NL on Tuesday, May 20;
  - a presentation on Green Energy in NL by IET's Executive Director of Renewable Energy as part of the WHS Hydrogen Tech Series on May 21 (10:30 – 10:45 am); and,
  - a visit to the booth by Sophie Hermans, Dutch Minister of Climate Policy and Green Growth to the Canada Pavilion accompanied by H.E. Hugh Adsett, Canadian Ambassador to the Netherlands on Thursday, May 22.

- The booth will be staffed by IET and Energy NL staff and includes a promotional slideshow, access to IET's online Renewable Energy Resources Hub, and promotional materials (e.g., IET's Hydrogen Development Action Plan, hydrogen brochures, pins, coasters).

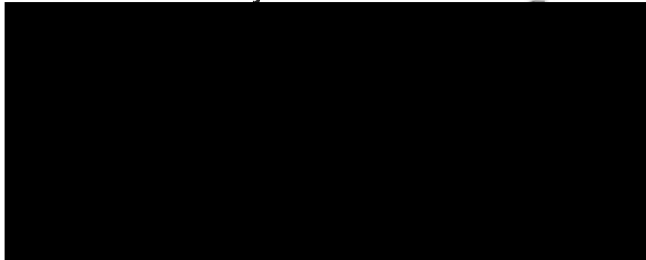
**Action Being Taken:**

- For information purposes only.

**Prepared/Approved by:** W. Skinner / B. Norman / K. Day / S. Wilkins /

**Ministerial Approval:**

**May 14, 2025**



40.(1)

**Annex A**  
NL Registered Delegates (May 14, 2025)

<b>First Name</b>	<b>Last Name</b>	<b>Organization Name</b>
David	Tiernan	Abraxas Power Corp
Kelly	Casteldine	Abraxas Power Corp
Siham	Bentalab	Abraxas Power Corp
Mircea	Ciocirlea	Abraxas Power Corp
Verhasselt	Thais	Abraxas Power Corp
Dean	Comand	Abraxas Power/EVREC
James	Colter Eadie	Abraxas Power/EVREC
Ravi	Sood	Abraxas Power/EVREC
Guy	Bentinck	Abraxas Power/EVREC
Vlad	Nicolescu	Abraxas Power/EVREC
Dimitris	Mantzakis	Abraxas Power/EVREC
Chad	Fowlow	Angler Solutions Inc.
Bill	Donovan	Angler Solutions Inc.
Caron	Hawco	Caron Hawco Group Inc.
Dwayne	Hopkins	Co. Innovation Centre
Heather	Maclean	Construction Labour Relations Association of Newfoundland & Labrador
Terry	French	Construction Labour Relations Association of Newfoundland & Labrador
Chris	Crotty	Construction Labour Relations Association of Newfoundland & Labrador
Kevin	McEvoy	Construction Labour Relations Association of Newfoundland & Labrador
Steve	Crocker	Department of Industry, Energy and Technology
John	Cowan	Department of Industry, Energy and Technology
Michelle	Power	Department of Industry, Energy and Technology
Susan	Wilkins	Department of Industry, Energy and Technology
Kelly	Day	Department of Industry, Energy and Technology
Dean	Sullivan	Dovre Canada Limited
Kieran	Hanley	econext
Corinne	Sandberg	EDF
Ryan	Eslicker	EDF
Ed	Jarmas	EDF
Philippe	Castanet	EDF
Jennifer	Oliver	Energy NL
Robin	Kieley	Energy NL
Charlene	Johnson	Energy NL
Daniel	Lee	EverWind
Matthew	Tinari	EverWind
Matthew	Borys	EverWind
Trent	Vichie	EverWind
Kristopher	Spurrell	Exploits Valley Port Corporation
Scott	Sceviour	Exploits Valley Port Corporation

Jim	Sceviour	Exploits Valley Port Corporation
Jeff	Saunders	Exploits Valley Port Corporation
Kirk	McDonald	Exploits Valley Port Corporation
Brad	Eisan	Landmark Surveys and Engineering Limited
Adam	Buckle	Marine Contractors Inc
Shelby	Pike	Marine Contractors Inc
Glynn	Pike	Marine Contractors Inc
David	Perry	Marine Contractors Inc
Ahmed	El-samahy	Mcdermott
Ted	Lomond	North Atlantic
Peter	Miles	North Atlantic
Jeff	Murphy	North Atlantic
Ian	Froude	Pedal & Shift
Susan	Collins	PF Collins International Trade Solutions
Scott	Penney	Port of Argentia Inc.
Claudette	Pittman	Port of Argentia Inc.
Wayne	Power	Port of Argentia Inc.
Angie	Pittman	Port of Argentia Inc.
Charles	Pender	Qalipu First Nations
Jennifer	Sharon	Qalipu First Nations
G. John	Samms	Stewart McKelvey
Allison	Whelan	Stewart McKelvey
Sadira	Jan	Stewart McKelvey
Seamus	O'Regan	Stewart McKelvey
Bob	Fiander	Trades NL
John	Leonard	Trades NL

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Sponsorship Support for Arctic Inspiration Prize Awards

**Issue:** To provide an overview of funding request for Arctic Inspiration Prize (AIP) Awards.

**Background and Current Status:**

- The Office of Indigenous Affairs and Reconciliation (IAR), on behalf of the Labrador Affairs Office (LAO), has forwarded to the Department of Industry, Energy and Technology (IET) a sponsorship request to support the AIP Awards.
- By celebrating and providing seed-funding to Northern teams with innovative project ideas, the AIP supports Northerners in bringing initiatives to life that bring about the changes they want to see in their communities. Through its Charitable Trust, the AIP is led and owned by northern Indigenous stakeholders and is entirely for the people of the North, from Labrador to Yukon. Up to \$3.7 million in seed project funding is awarded annually.
- One project up for an Award this year is from Labrador. In the past, other NL-based projects including Smart Ice, have received support from AIP.

**Analysis:**

- AIP is seeking a commitment [REDACTED] 35.(1)(d)
- GNL has supported the AIP twice previously. In 2024, GNL provided \$25K and in 2022, it also provided \$25K. Funding was provided in previous years by the Department of Education (EDU) and the LAO. IET has not previously provided support. IAR has indicated that they will also be supporting the Awards [REDACTED] 29.(1)(a)
- Within NL, other contributions are as follows: Nunatsiavut Group of Companies as Co-Owner [REDACTED] 34(1)(a)(v) Vale as Prize Partner [REDACTED] and Memorial University as Prize Partner [REDACTED] 35(1)(d) All three territories provide funding as Prize Partner sponsors at \$100k per year on a three-year term. 35.(1)(d)
- Given the visibility and prestige associated with the AIP, successful applicants often attract additional funds and increase the size of their projects over time. Supporting the Awards will benefit Northern Labrador communities and will provide support for worthwhile community development projects.
- After a review of alignment with IET's regional development mandate, a sponsorship of \$5K is recommended. [REDACTED] 29.(1)(a) [REDACTED] Funding is available within the Regional Development budget.

**Action Being Taken:**

- If IET is supportive, IET officials will notify IAR and provide funding.

**Prepared/Approved by:** K. Youden/J. Pye/H. Tizzard [REDACTED]

**Ministerial Approval:** [REDACTED]

May 8, 2025

[REDACTED] 40.(1)

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Sponsorship Support for YMCA Enterprise Olympics

**Issue:** To provide an overview of funding request for YMCA Enterprise Olympics.

**Background and Current Status:** 35.(1)(d)

- The YMCA of Northeast Avalon forwarded to the Department of Industry, Energy and Technology (IET) a [REDACTED] sponsorship request to support the province-wide YMCA Enterprise Olympics and associated youth entrepreneurship programs.
- The event is organized by the YMCA in conjunction with the Department of Education as a province-wide initiative that encompasses five separate programs designed to progressively introduce the concept of entrepreneurship to students as they move through elementary, junior high, and high school.
- The Enterprise Olympics takes place on Thursday, May 15 and Friday, May 16 at the Holiday Inn Express, St. John's, NL. This two-day conference provides the opportunity for 15 selected high school students to: pitch their venture marketing plans to a panel of judges; participate in student entrepreneurial expo/market; participate in a mentor luncheon with business professionals; participate in a local business and resources bus tour; and participate in social outings and team building activities.

**Analysis:**

- YMCA of Northeast Avalon has requested a contribution [REDACTED] but after the Department's assessment, a contribution of \$5,000 is recommended to keep consistent with event sponsorship from 2022-23, 2023-24, and 2024-25.
- This event will support and acknowledge the entrepreneurial ecosystem of Newfoundland and Labrador and will help to highlight, promote and celebrate the success of entrepreneurs to an audience of future business leaders.
- Enterprise Olympics prioritize the development of a thriving and prosperous startup ecosystem, aligning current business attraction programs with a sustainable growth approach.
- A sponsorship of \$5,000 will include social media posts promoting sponsor contribution; branding placement on conference promotional materials, invitations and resources; departmental representative invited to speak at conference; and photo opportunities.
- After a review of alignment with IET's regional development mandate, a sponsorship of \$5,000 is recommended. [REDACTED] 29.(1)(a)  
[REDACTED] Funding is available within the Regional Development budget.

**Action Being Taken:**

- If IET is supportive, IET officials will notify YMCA and participate in the activities May 15-16.

**Prepared/Approved by:**  
**Ministerial Approval:**

M.Maddox/J. Pye/H. Tizzard

May 13, 2025

40.(1)

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Technology Sector

**Issue:** To provide an overview of the Newfoundland and Labrador Tech Sector.

**Background and Current Status:**

- The technology sector comprises of a broad range of companies that intersect other industries such as ocean technology; clean technology and environmental industries; aerospace and defense technology; information and communication technology; health/biotech and life sciences technology; mining and energy and others.
- The province has gained global recognition for innovative technology applications and solutions in areas such as subsea imaging, fraud detection software, remote operations, training simulation, remote sensing, environmental monitoring, offshore and onshore geotechnics, water and wastewater solutions, wireless communication, wireless power, energy efficiency and airborne intelligence, surveillance, and reconnaissance.
- The technology sector presents significant employment and business growth opportunities for the province. IET will continue to explore opportunities and work with all ecosystem partners on collaborative approaches.
- techNL is the lead organization for the sector and has represented the province's technology and innovation sector for over 30 years. techNL provides a strong voice for the local tech sector and works closely with industry and levels of government to advocate for the sector.
- The value of the province's technology sector is estimated at \$1.6 billion (2023) with approximately 8,000 employed. Demand is expected to exceed 2,000 new tech jobs over the next three years.
- Numerous start-up companies have produced innovative technologies that are receiving significant attention from investors. Technology start-ups in Atlantic Canada raised \$176M in venture capital in 2024 with Newfoundland and Labrador (NL) making up \$81M of that share.
- In 2024, the following NL companies raised combined capital of over \$127M: Mysa raised \$11M, Kraken Robotics raised \$38M, Colab raised \$28.6M, Spellbook raised \$27M and Sparrow Acoustics raised \$23M.
- IET (through its various programs and initiatives) has supported companies and partnered on successful initiatives to advance the tech sector in province. Further detail on specific sectors is provided below.

### **Clean Technology**

- The clean technology sector plays a vital role in the economic development of the province. The province's commitment to the pursuit of net zero represents an opportunity to leverage business expertise, expand R&D capabilities, develop clean tech skills and develop innovative solutions for emission reductions and carbon offset that can be exported around the world.
- MUN and CNA support clean energy workforce needs through specialized programs in wind, hydrogen, and carbon capture and underground storage (CCUS). CNA received \$315K from IET in 2025 to enhance hydrogen training. In 2024, NL also launched a \$6M Carbon Capture & Underground Storage Challenge to support offshore emissions reduction.

### **Ocean Technology**

- NL is strategically located on a crossroads to international shipping lanes between Europe, North America, and the North. The province's harsh ocean environment is globally unique and rich with an abundance of ocean resources such as world-leading petroleum reserves, fish, and marine life.
- The Launch at the Marine Institute in Holyrood, is a hub of ocean innovation, discovery, and leadership, providing a collaborative space for ocean stakeholders and rights-holders to research, test, demonstrate and operationalize the technology needed to support ocean health and economic prosperity from coast to coast to coast. The Launch is also designated a NATO DIANA Test Centre providing a wide variety of state-of-the-art infrastructure where innovators can de-risk, demonstrate, and validate their proposed tech solutions.

### **Aerospace and Defence**

- The aerospace and defense sector offers growth opportunities for NL, especially in the tech space. The investment attraction and export development potential for job creation and economic growth in NL are significant. There are approximately 50 aerospace and defence companies in NL with over 1,600 employees and \$330 million in annual sales and services contracts.
- NL is a hub for innovation in cold ocean technologies, where companies and researchers excel at addressing complex operational challenges. With expertise in subsea imaging, radar systems, and aerial and satellite ice management, the province has fostered growth in high-tech sectors, including aerospace. Supporting innovation and technology remains a strategic priority for IET.
- NL is uniquely positioned to support Canada's Arctic sovereignty efforts due to its strategic geography and established infrastructure. As melting ice opens new shipping routes and resource access in the North, Labrador serves as a vital staging ground for national defence, environmental monitoring, and security operations. The province's proximity to the Arctic, coupled with its robust capabilities, makes it a natural partner in strengthening northern surveillance and sovereignty enforcement.

### **Bio & Health Technology**

- NL's healthtech and biotechnology sector is a rapidly growing and emerging economic sector.
- In 2024, IET launched the HealthTech and BioTech Ecosystem Action Plan to set a foundation for supporting new and innovative technologies, accelerating access, investing in R&D, enhancing collaboration, and allowing companies to develop locally and grow and scale

globally. IET has made investments to key institutional stakeholders including Memorial University, NL Health Services, and Bounce Health Innovations (a health tech industry support organization) to help foster growth in the health and biotech sector.

**Supporting technology start-ups**

- IET supports a strong tech start-up/entrepreneurial network through incubators and accelerators, such as the Memorial Centre for Entrepreneurship (MCE), Genesis, Student Design Hub and Navigate. Research, ideas, business innovation and ecosystem support can be resourced effectively to maximize opportunities for innovators and advance provincial economic growth.
- A summary of industry supports and key stakeholders/clients is attached as Annex A.

**Analysis and Action Being Taken:**

- Companies and organizations in the NL tech sector are flourishing and there has been an influx of new and emerging companies evolving from the start-up community providing innovative and opportunities for sector growth.
- IET will continue to work proactively with industry and all partners to accelerate growth opportunities in the technology sector.

**Prepared/Approved by:** D. Lawrence/J. Penney/K. Youden/H. Tizzard

**Ministerial Approval:**

May 30, 2025



40.(1)

## Annex A Key Tech Sector Stakeholders

### Tech Sector Support Stakeholders

- **Co. Innovation Centre (COIC)**, which opened in June 2024, is an innovation hub that fosters industry, business, and ecosystem collisions across multiple sectors with a focus on support for remote operations. In 2022, IET provided \$7.1M over six years for COIC through the Innovation and Business Development Fund (IBDF), with ACOA support of \$2.5M.
- **techNL Innovation Inc.** is a nonprofit association that has represented the province's technology and innovation sector for over 30 years. techNL provides a strong voice for the local tech sector and works closely with industry and levels of government to help advocate for the sector. techNL oversees the Find your Future in tech program; a \$32M program that has seen over 3,600 people participate since 2023. techNL also delivers the annual Innovation Week event and the NL Tech Industry Awards.
- **Memorial Centre for Entrepreneurship (MCE)** inspires and enables Memorial University students from all faculties to pursue a future in entrepreneurship. MCE hosts the Mel Woodward Cup Startup Pitch competition. Previous winners include companies such as PragmaClin Research, Nucliq Biologics, and BreathSuite. IET is supporting MCE with a [REDACTED] 35(1)(d)
- **Genesis Centre** is NL's award-winning innovation hub for tech startups. Genesis was named top challenger in North America in 2023 by University Business Incubators and Genesis companies have created over 2,900 jobs, raised more than \$730M in private capital, generated over \$380M in recurring revenues and has secured almost \$4B in acquisitions.
- **Navigate** is an entrepreneurship centre and business incubator located on the West Coast of NL. In partnership between Memorial's Grenfell College and Corner Brook's CAN Campus, Navigate aims to support business diversification and create a stronger culture of innovation and entrepreneurship.
- **Bounce Health Innovations** works to accelerate the growth of innovators within the HealthTech sector. Bounce provides access to the technical expertise that early-stage companies need and help leverage the existing ecosystem resources. Since inception, Bounce has worked with over 60 companies at varying stages of development. Bounce also co-sponsors (along with Invest NS) Scale-Up Hub Cambridge, an exclusive program that supports Atlantic Canadian digital health companies that are ready to expand into the U.S. market. Through a combination of training, business advisory services, and in-market networking, participants gain critical insights and direct access to key stakeholders in the U.S. healthcare industry.
- **Student Design Hub (SDH) provides** programming, guidance and a collaborative assembly space to students competing in a student-centered competition or hoping to develop a product prototype. Since its inception, Student Design Hub has provided programming, guidance, and collaborative assembly space to over 1,000 students, with over 100 students being primary members of student-centered design competition teams. IET providing \$234,861 over the past 3 years to help with SDH programming.

**Propel ICT** is an Atlantic Canadian accelerator for tech start-ups, offering customized programming, coaching, and mentorship to take companies to the next level. IET has supported its work with contribution of \$471,000. The project is supported by other provinces as well as ACOA. NL clients accounted for almost 30% of the accelerator participants, including Milk Movement, HeyOrca, CoLab Software, Mysa, Seathru Technologies, Songflow and SiftMed

#### Notable Tech Success Stories and Companies

- **Genoa Design International** provides production design and 3D modeling services to shipbuilding and offshore industries, working with Seaspan Shipyards to create Canada's future Polar Icebreaker.
- **Kraken Robotics** is a world leader in advanced sensor and next-generation subsea battery technology and underwater robotics, with two new contracts within the last year with the Danish and Polish NATO Navies. Kraken was highlighted by TXS Venture as the best performing company on the stock exchange in 2024.
- **Avalon Holographics** uses state of art professional holographic displays to replicate the experience of looking at real objects through Light Field Displays. Their technology is used by industrial designers across industries for future technology builds. This innovative technology has the potential to transform industries such as defence and healthcare by revolutionizing decision-making, enhancing training, and improving operational planning.
- **CoLab AI** is a web-based collaboration tool that lets teams share and capture critical design data and drawings that other systems do not. In 2024, CoLab signed a \$5.6M contract with the Hibernia and Hebron projects to develop local artificial intelligence talent and accelerate the foundation of CoLab's Review AI Technology.
- **PragmaClin** is a digital health company offering assessment tools for monitoring and analyzing Parkinson's Disease. Since the company's launch in 202, PragmaClin has raised over \$1M in funding through pitch competitions and grants.
- **Spellbook** is a complete legal AI suite for commercial lawyers, used by more than 3,000 law firms and in-house teams globally. The company was founded in 2018 by Scott Stevenson, Matt Mayers and Daniel Maria and is another good example of a locally grown emerging tech company.
- **Solace Power** is a global leader in high-performance, industry-leading, wireless power technology. In January 2025, Boeing invested \$10.3 million in Solace Power, which will establish a Surface Mount Technology production facility in NL with the investment.
- **Sequence Bio:** Sequence Bio is a company researching the founder population in Newfoundland and Labrador to identify novel genetic causes of diseases with global unmet medical needs. In 2025, GNL entered into a Benefits and Royalty Agreement with the Newfoundland and Labrador-based company that establishes a framework for sharing financial and other benefits resulting from Sequence Bio's research and development (R&D) programs.

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Bio 2025 International Conference

**Issue:** To provide an overview of the draft schedule of events prepared by the Atlantic Canadian Delegation and Canadian Trade Commissioner Service (TCS).

**Background and Current Status:**

- The BIO 2025 Conference (June 16-19 in Boston) is the largest and most comprehensive event for biotechnology, representing the full ecosystem of biotech with 11,000 industry leaders from across the globe.
- This is coordinated through the PEI BioAlliance on behalf of the Atlantic Provinces. The core Atlantic Canadian events include the Atlantic Delegation Welcome Reception (Sunday, June 15), the Atlantic Industry Roundtable (Monday, June 16), the official opening of the Canadian Pavilion (Monday, June 16) and the Taste of Atlantic Canada Reception (Tuesday, June 17). A Schedule of Events specifically highlighting the Atlantic Canadian Biotechnology Sector and other Global Affairs networking opportunities is in Annex A.

**Analysis:**

- This conference offers insights that will help advance the recently developed provincial HealthTech/BioTech Action Plan. With 135+ sessions the opportunity to hear from leading biotechnology companies, investors, service providers, government officials, regulators, and patient advocates across 18 different focus areas, including AI and digital health, next generation biotherapeutics, business development is available.
- While participation from provincial organizations is lower this year than previous years, likely due to the uncertainty in the market created by the imposition of U.S. tariffs, nineteen Atlantic Canadian companies are planning to attend, including two NL companies (Nucliq Biologics and PragmaClin). Also attending are: Bounce Health Innovations, NL Health Services, the NL Healthcare Foundation, and two officials from IET.
- The Minister of Industry, Energy and Technology and/or the Premier has attended the event in each of the last three years. The Atlantic Canadian Political Delegation (confirmed as of May 15, 2025) includes Hon. Tim Houston, Premier of Nova Scotia, Hon. Rob Lantz, Premier of PEI, Hon. Michelle Thompson, Minister of Health, Nova Scotia, Hon. Darlene Compton, Minister of Economic Development PEI, and Patrick Dorsey, VP, ACOA.

**Action Being Taken:**

- IET provides travel support for companies attending the Bio 2025 conference.

**Prepared/Approved by:** B. House/ K. Youden/ H. Tizzard

**Ministerial Approval:**

May 26, 2025

40.(1)

## Annex A: Schedule of Events

# Program

### Sunday, June 15

Atlantic Delegation  
Welcome Reception  
6:00pm-8:00 pm  
Hyatt Place Boston/Seaport Hotel

### Monday, June 16

**Atlantic Industry Roundtable**  
8:30am-10:00am  
\* 8 AM Coffee and snacks  
Hyatt Place Boston/Seaport Hotel

Opening of the Canada Pavilion  
2 PM  
Canada Pavilion, Booth 1038, at  
Convention Centre

Announcements at the Canada  
Pavilion  
Time: 3:00 - 5:00 PM  
Canada Pavilion at Convention  
Centre

### Tuesday, June 17

BIOTECanada Executive  
Breakfast  
7:00 am - 9 am  
\*By invitation

**Taste of Atlantic Canada**  
Reception  
6:30pm-8:00pm  
Boston Tea Party Museum

### Wednesday, June 18

Coast to Coast Pitch Competition  
10:00 AM - 11:00 AM  
Canada Pavilion at Convention  
Centre



Additionally, Global Affairs Canada have additional meetings scheduled:

- **Sunday JUNE 15 – 2- 4pm** - Canada@BIO Stakeholder Kick off meeting - at Loft on Two – One Financial, Boston (Across from South Station) – Canadian TCS & Life Science leaders. Program will be circulated once it is shared with our office. Invite to be shared by the Canadian Consulate General in Boston.
- **Canadian Stakeholders are invited to join the networking reception** taking place after the Canada@BIO Stakeholder Kick off meeting -4:30-6:30pm - at Mitz Seaport with Boston area Canadian expats working in senior roles at local biotech (One Financial, upstairs from meeting rooms).
- **TUES. JUN 17 – Export Café** – Time and Location TBC – an opportunity for **Canadian companies to meet with Trade Commissioners from USA and globally** to learn about services the TCS offers and for TCS to learn more about the companies and how TCS can serve their needs to grow.

**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Aerospace and Defence

**Issue:** To provide background relating to the province's Aerospace and Defence sector.

**Background and Current Status:**

- The aerospace and defense sector offers growth opportunities for Newfoundland and Labrador (NL) for both investment attraction and export development. There are approximately 50 aerospace and defence companies in the province with over 1,600 employees and \$330 million in annual sales and services contracts.
- NL is a hub for innovation in cold ocean technologies, where companies and researchers excel at addressing complex operational challenges. With expertise in subsea imaging, radar systems, unmanned vehicles and aerial and satellite ice management, the province has fostered growth in high-tech sectors, including aerospace. Supporting innovation and technology remains a strategic priority for IET.
- IET works with aerospace and defense companies to advance business development opportunities, develop sector development initiatives, and support participation in supply chain and export development opportunities.
- In addition, within the province, aerospace and defence companies work closely with post-secondary and research institutions. For example, companies work with Memorial University and use its facilities for product research and testing, and there are several research institutions benefitting the aerospace and defence industry, including C-Core, the Genesis Centre and the Marine Institute.
- The College of the North Atlantic delivers two Transport Canada accredited aerospace programs, including aircraft maintenance engineering technology and aircraft structural repair technician.

**Analysis:**

- Aerospace, defence, and security are key drivers of Atlantic Canada's economy. According to the 2022 Atlantic Canada Aerospace and Defense Association (ACADA) Economic Impact Report, the region's industry supports nearly 23,600 jobs and contributed over \$900 million in direct household income in 2020 while generating \$1.25 billion in direct GDP. Atlantic Canada represents 16 per cent of Canada's total defence employment and 6 per cent of aerospace employment nationally.
- Labrador's strategic location positions it as a critical staging ground for Canada's Arctic security and sovereignty efforts, enabling defence operations, environmental monitoring, and response as northern accessibility increases. The province's geographic advantage also supports training and surveillance operations in extreme northern conditions, contributing to the protection of North American airspace.

### Current Opportunities

- **Arctic Sovereignty and Strategic Shipbuilding Opportunities**

NL is uniquely positioned to support Canada's Arctic sovereignty efforts due to its strategic geography and established infrastructure. As melting ice opens new shipping routes and resource access in the North, Labrador may become an increasingly a vital staging ground for national defence, environmental monitoring, and security operations.

- **Canada's National Shipbuilding Strategy (NSS)**

Launched in 2010, the NSS is a long-term federal initiative to modernize Canada's naval and coast guard fleets, drive economic growth, and strengthen maritime defence. As Arctic priorities increase, there are emerging opportunities for the province to contribute. In May 2025, the engineering firm Score, based in Paradise, NL, was awarded an \$89 million contract by Irving Shipbuilding to support the construction of Canada's future River-class destroyer fleet. In total, contracts of approximately \$175 million have been awarded to companies in NL under the NSS, which is expected to generate approximately \$30 billion in economic activity in Canada over its lifetime.

- **Bull Arm and Arctic Security**

Bull Arm is a world-class industrial site with proven capacity in offshore oil and gas and emerging potential in renewable energy and shipbuilding. With rising federal investment in Arctic security, Bull Arm is well-suited for vessel repair, decommissioning, construction and support infrastructure.

- **Bombardier Industrial Benefits Agreement**

The Province's agreement with Bombardier, established in 2009, secures economic returns from water bomber procurement through local contracts, training, and industrial benefits. IET continues to foster these commitments by facilitating engagement between Bombardier and local NL firms to expand participation in aerospace and defence opportunities. [REDACTED]

29.(1)(a)

- **MASS Conference – A National Platform for Arctic Innovation**

The Maritime and Arctic Security & Safety (MASS) Conference, hosted annually in St. John's, is Atlantic Canada's flagship defence and security event. It brings together national and international leaders to explore solutions for operating in northern and maritime environments and creating business development opportunities for local defence and ocean tech sectors. This year the conference will take place July 16-18 at the Delta Hotel & Conference Centre.

- **Port of Argentia**

The Port of Argentia is a strategic, heavy industrial seaport supporting industrial, defence, and renewable energy activities. With deepwater access, it is well-positioned to support increased Arctic and maritime operations. IET, through the Innovation and Business Development Fund, has approved just over \$15M to support the growth and development of the port.

- **ACADA**

ACADA is an SME-focused industry association representing the interests of the aerospace, defence and security industries in Atlantic Canada. Based in Halifax, NS, ACADA works collaboratively with industry members, provincial and federal government agencies, and other key stakeholders to facilitate strategic industry development on behalf of the region while

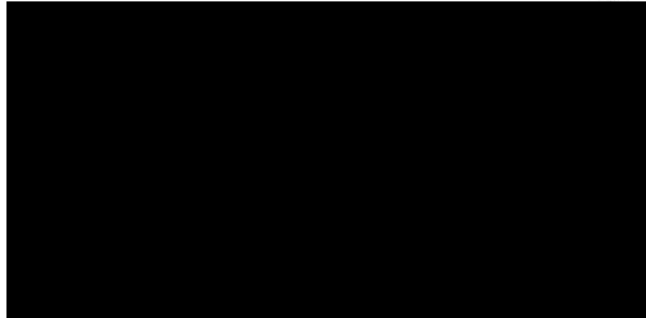
promoting the Atlantic Canada brand locally, nationally, and internationally. The association's 175+ members deliver products and services to the global marketplace in the land, marine, air, and space domains for both commercial and defence applications.

**Action being taken:**

- IET continues to engage with and support numerous NL aerospace and defence companies through their various funding programs, and to participate in events such as MASS that can promote and advance the development and awareness of the province's aerospace and defence sector.

Prepared/Approved by: M. Byrne/ S. Butler/ K. Youden/ H. Tizzard/ J. Ludmer

May 21, 2025



40.(1)

## ANNEX

### Recent sector news stories in Newfoundland and Labrador 2023-2025

- In May 2025, the NL engineering firm Score, based in Paradise, NL, was awarded an \$89 million contract by Irving Shipbuilding to support the construction of Canada's future River-class destroyer fleet. Score will provide all the valves for the first three RCD ships that Irving is contracted to deliver. The valves will be used in piping systems transporting hydraulic oil, high pressure air, water and other fluids throughout the ships, supporting critical operating requirements pivotal to each ship's performance. The work is expected to support the creation of ten new jobs, and the company indicates that the contract will also support a planned expansion into NS.
- In April 2025, Provincial Government awards contract to de Havilland for Water Bomber Repair. contract valued at \$14.8 million to De Havilland Aircraft of Canada for the repair work for the province's fifth CL-415 water bomber. The work will be conducted in the province by PAL Aerospace, a subcontractor for De Havilland. The water bomber will support the efforts of the Provincial Government's well-trained and high-quality fire suppression team that has guided communities through forest fires that are becoming increasingly challenging and more frequent due to climate change.
- In March 2025, the Provincial Government provided an update on the Request for Proposals (RFP) for the possible sale or lease of the Bull Arm Fabrication Site. Following a fair and transparent process, which included the evaluation of proposals received, as well as completion of an economic and treasury impact analysis, the Provincial Government has commenced commercial negotiations with two proponents – DF Barnes Services Ltd. and NARL Marketing LP. The Bull Arm site is an asset for Newfoundland and Labrador and has created major economic benefit for residents of the province.
- In March 2025, the Government of Canada invests one million to assist Avalon Holographic with the deployment of its world-class NOVAC holographic display. This investment will enable Avalon Holographic to deploy NOVAC, a groundbreaking 40-inch holographic display that delivers true-to-life, three-dimensional visualization in real time without the need for specialized equipment. This innovative technology has the potential to transform industries such as defense and healthcare by revolutionizing decision-making, enhancing training, and improving operational planning.
- In March 2025, St. John's International Airport received the top award for Best Airport Under 2 million Passengers in North America. The St. John's International Airport is now a two-time recipient of an ASQ award, having previously been awarded the most Improved Airport in North America for Customer Experience in 2019.
- In January 2025, Boeing invested \$10.3 Million in Solace Power. Solace Power, a global leader in high-performance, industry-leading wireless power technology, will establish a Surface Mount Technology (SMT) local production facility in Newfoundland and Labrador with Boeing's investment. SMT is a means for applying electronic components directly onto the surface of printed circuit boards for use in commercial, defence, aerospace and adjacent markets. The funding will nearly double Solace Power's local workforce in support of the expansion that also includes support for the company's entry into related industries such as automotive and telecommunications sectors.

- In December of 2024, St. John's headquartered company Altomaxx recently indicated they are opening offices Denmark and Norway, an expansion into Scandinavia. Altomaxx became the first, and still only, firm in the world able to certify other drone companies in international standards. Altomaxx carries a variety of expertise in inspections, from offshore platforms to confined space including inside storage tanks, ships, and fire stacks.
- A game-changing announcement came from the NL Provincial Government in November 2024. From May to October next year, Newfoundlanders and Labradorians will have direct access to Europe (London- Gatwick, Dublin, and Paris) seven days per week. These are connections that will help facilitate and add connections that help create tremendous opportunities for the province.
- On November 28th, 2024, Industry, Energy and Technology, announced support totaling \$488,000 from the Business Growth Program to assist Virtual Marine with its Machine Learning Project. This investment from the Business Growth Program leverages other contributions from investors and the company, for a total project investment of \$977,000.
- In October 2024, Avalon Holographic, which can now legitimately claim to be a global leader in holographic display technology, received a \$1.02 million grant from the Newfoundland and Labrador Department of Industry, Energy and Technology in August to enhance NOVAC so it can be transported. The total cost of the project was \$3.9 million. Avalon has completed its first NOVAC display table. Its display surface is about one square yard, and the holograms on it are about one foot deep. It allows holographic simulations, meaning full-colour 3D displays in minute detail that can be manipulated easily.
- C-Core worked with support from Department of Industry Energy and Technology to create an R&D project named the Killick-1, this cube satellite has been sent into space as part of SpaceX's mission to the International Space Station. The Killick-1 cube-satellite was designed and built by students at Memorial University in St. John's, NL, and it is on its way to outer space to see what this tiny tech satellite can do, and what it means for the Canadian space industry. Launch date March 3, 2024.
- In 2023, Kraken Robotics announced multiple million-dollar contracts to supply high-resolution seabed mapping sonar equipment, subsea batteries, and other surveying contracts. Kraken will deliver its KATFISH™ high-speed mine hunting solution. KATFISH™ is a high speed, actively stabilized Synthetic Aperture Sonar (SAS) towfish that operates at speeds up to ten knots. The contracts also include a variety of support and sustainment options, including training, spares, and operational support.
- In October 2023, Newfoundland and Labrador based Duxion Motors celebrated the successful ground test of its patented eJet Motor, the electric jet engine poised to make high-speed electric aviation a reality. The successful ground testing of the scaled prototype included both low-speed and high-speed testing.
- In November 2023, Strobeltek received an order of \$800,000 CAD for their Sprinter 200 system. This contract includes multiple systems and the adoption of those systems to the customer's specific needs. The Sprinter system consists of a fully autonomous Unscrewed Aerial System (UAS), a docking station to deploy and recover the UAS fully automatic as well as a control interface. The unique design of the UAS allows a very compact and robust system with reliable recovery under adverse conditions.

**Decision/Direction Note**  
**Department of Industry, Energy and Technology**

**Title:** H2O: Home to Overseas Conference

**Decision/Direction Required:**

- Whether to approve expenditure to secure and service booth space at the H2O: Home to Overseas Conference taking place in Halifax June 9-12, 2025.
- It is recommended that approval be provided to secure and service booth space at the H2O: Home to Overseas Conference (H2O).

**Background and Current Status:**

- H2O: Home to Overseas Conference will be held in Halifax, Nova Scotia June 9-12, 2025. H2O is Canada's premier event for ocean technology with significant international participation. The conference will include an exhibition, presentations, and business to business meetings. IET's Investment Attraction team hosted a booth at H2O in 2023 which was followed by an international delegation travelling to Newfoundland and Labrador (NL) for an OceansAdvance event showcasing ocean tech R&D facilities. This event was a success and was held again before H2O in 2024. This year, Oceans Advance will host Innovation Waves in the fall and is anticipating 40-60 delegates.
- The cost of an 8'X20' booth space at H2O is \$4,500. While IET has a booth reserved pending approval, IET will need to confirm as soon as possible to secure the space. The cost of the booth build has been quoted at \$8,353.
- Funds for this booth space and build are available within Zero-Based Budget allotments and the cost will be shared between the Accelerated Growth and Sector Diversification Divisions.

**Analysis:**

- H2O is an ideal venue to promote the province's ocean technology sector from an internationalization and sector diversification perspective. Staff from the respective divisions have been working jointly on planning IET's presence at this event. The booth will also provide IET and NL companies and organizations with a space to have one-on-one meetings and act as a home for NL delegates registered as walkers.
- A booth at H2O 2025 will promote NL's competitive advantages and build upon the momentum from participation in Ocean Business in April, as well as last year's H2O conference and NL showcase event, and will complement Innovation Waves 2025 and Oceanology 2025. It also serves as a "homebase" and potential meeting space for NL participants, and it was heavily used for this purpose in 2024. NL participants have already been inquiring about the NL booth and the nature of IET's presence at the 2025 show.

**Alternatives:**

Option 1: Provide approval to secure booth space for H2O 2025. (Recommended)

**Advantages:**

- Proximity of the event provides an opportunity for IET's Accelerated Growth and Sector Diversification divisions to collaboratively and comprehensively market and promote the

province as a place to purchase products or services, or to utilize existing resources and infrastructure in the ocean tech sector.

- Builds on the momentum of Ocean Business 2025 and Innovation Waves 2024.
- Provides a homebase for NL participants and an elevated level of support and visibility.

**Disadvantages:**

- IET incurs expenditures related to the booth.

Option 2: Do not provide approval to purchase booth space. (Not recommended)

**Advantages:**

- IET does not incur the expenditures related to the booth.

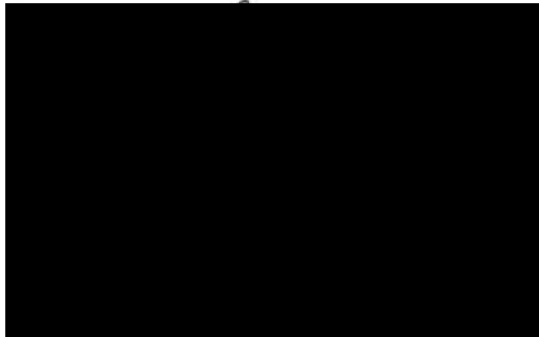
**Disadvantages:**

- IET does not capitalize on proximity of the event to allow an affordable opportunity for IET's Accelerated Growth and Sector Diversification divisions to collaboratively and comprehensively market and promote the province as a place to purchase products or services, or to utilize existing resources and infrastructure in the ocean tech sector.
- IET does not build on the momentum of Ocean Business 2025 and Innovation Waves 2024.
- Removing IET's (and thus NL's) booth presence may send a negative message to H2O delegates, and in particular, to NL company participants, regarding NL's commitment to this sector.

**Prepared/Approved by:** G. Chatman/ R. Houlihan/ D. Grant/ K. Youden/ J. Ludmer/  
H. Tizzard

**Ministerial Approval:**

May 14, 2025



40.(1)

**Information Note**  
**Department of Industry, Energy, and Technology**

**Title:** CANSEC 2025

**Issue:** To provide an overview of CANSEC, taking place in Ottawa, Ontario, May 28-29, 2025.

**Background and Current Status:**

- CANSEC is Canada's leading defence, security and emerging technology conference and tradeshow held annually in Ottawa since 1998. CANSEC showcases leading-edge technologies, products and services for land-based, naval, aerospace and joint forces military units. The conference will feature keynote speakers, networking receptions, and luncheons along with approximately 280 defence, security and emerging tech exhibitors, and over 1,400 scheduled Business to Business/Government meetings.
- More than 12,000 participants are expected, including military leaders, government officials, more than 50 international delegations, 40 Members of Parliament, Senators and Cabinet Ministers, and approximately 50 media representatives.
- Thirteen Newfoundland and Labrador (NL) companies will attend CANSEC to showcase their capabilities and explore new national and international markets and partnerships.

**Analysis:**

35(1)(d), 35(1)(g)

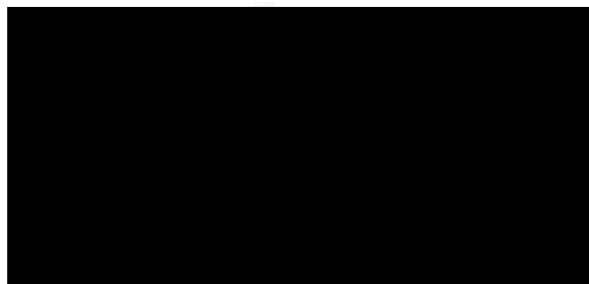
- As opportunities for NL in the aerospace and defence sector continue to grow, for example, with regard to [REDACTED] Nordspace's efforts to establish a spaceport in NL, it is important for the province to showcase its existing capabilities, as well as its ability to develop new capabilities and technologies that will be attractive in this sector.
- NL has a strategic location with access to the Arctic, Atlantic, and the east coast of North America, a rapidly growing technology sector, and it is a leader in the ocean sector. In Labrador, the province hosts key defence assets that help to secure Canada's eastern and northern air space. The current geopolitical environment is bringing renewed attention to such considerations, and to the strengthening of Canada's sovereign capabilities. This presents opportunity for NL with regard to aerospace, defence and security.
- Accordingly, CANSEC 2025 offers a timely and valuable platform for the provincial government and NL companies to pursue partnerships and expand their presence nationally and internationally. This is demonstrated by the large group of 13 NL companies (see Annex A) that will participate in the conference, of which 5 will be exhibitors.

**Action Being Taken:**

- IET will participate in CANSEC 2025 to support NL companies and engage with federal counterparts and other companies considering operations in NL, while actively promoting the province as a strategic location to support Canada's national defence objectives.

**Prepared/Approved by:** A. Meyers / D. Murphy / M. Cluett-Fizzard / J. Ludmer

May 21, 2025



40.(1)

**Annex A**  
**Newfoundland and Labrador Companies attending CANSEC**

ACE Aviation Consulting

Adaptive Marine Solutions

Avalon Holographics (Exhibiting / Booth 631)

Bluedrop Training & Simulation (Exhibiting / Booth 1215)

The Cahill Group

Compusult (Exhibiting / Booth 530)

Corvus Tactical Aircraft

Gastops (Exhibiting / Booth 1915)

Genoa Design

Glamox

PAL Aerospace

Polyamyna

Solace Power

Virtual Marine (Exhibiting / 1931)

**Decision Note/Direction Note**  
**Department of Industry, Energy and Technology**

**Title:** Canada Day London

**Decision/Direction Required:**

- Whether to approve sponsorship expenditure to support to the Canada Day London event planned for June 25-28, 2025, in London, United Kingdom, that will have Newfoundland and Labrador (NL) as its featured jurisdiction.
- It is recommended that IET approve sponsorship expenditure required to support the event.

**Background and Current Status:**

- Canada Day London (CDL) Ltd. is an organization that promotes Canadian culture, people, traditions, and industry in the United Kingdom (UK). CDL organizes an annual 'Canada Day London' event that culminates in a celebration in Trafalgar Square, London, to showcase aspects of Canadian culture. It is the largest international celebration of Canadian culture worldwide, attracting over 50,000 visitors.
- This year's event will take place from June 25-28, 2025 (Wednesday-Saturday), and will consist of the following activities:
  - June 25 - Canada-UK Business Summit: A government and business-to-business event hosted in partnership with the Canada-UK Chamber of Commerce, Trade Commissioner Services, Export Development Canada, and the UK Department of Business and Trade. In 2024, the Summit had 155 registered attendees and 23 speakers.
  - June 26 - Canada House National Day Reception: An invite-only VIP reception hosted by the High Commission of Canada, the reception provides an opportunity for government and business leaders to network. Last year's reception received 250 attendees and over 70 political dignitaries.
  - June 27 - Canada Music Showcase: Promotes Canadian music growth and awareness in the UK to help emerging Canadian artists.
  - June 28 - Canada Day Festival on Trafalgar Square: A family-friendly, free event featuring engaging entertainment and interactive experiences to bring Canada's best to attendees.
- Approximately 57 per cent of the participants in Canada Day London are non-Canadian, and the majority are of working age. The 2024 event saw considerable media impressions and growth in social media followings for participants. The 2024 metrics included: 155,000+ social media impressions, 1,000,000+ website impressions and a 194 per cent increase in newsletter subscriptions.

**35.(1)(d)**

- CLD has offered the Province a sponsorship package valued at £100,000 GBP (see Annex B for details), including pre-event meetings with partners to ensure individual interests and deliverables are realized throughout the CDL events. Other confirmed sponsors for Canada Day London include Air Canada, McCain Foods, Export Development Canada, leading Canadian banks and the National Hockey League. In addition, CDL has advised that IET could

have access to a room in Canada House for meetings with companies on June 26 and June 28.

### **Analysis:**

- According to CDL, the Canada-UK Business Summit attracts high-caliber companies and high-level government officials with specific interests in pursuing opportunities with Canadian counterparts. IET assesses that the event offers a good opportunity to explore new partnerships for exports and to highlight NL from an investment attraction perspective.
- IET has developed an agenda (see Annex A) for the Summit that it believes will maximize its ability to promote trade and investment opportunities to the anticipated audiences. The morning of June 25 is intended to focus more on government-to-government relations, and specifically at the national level. CDL, however, has made two periods of the morning available to the Province: a ten-minute window for remarks from the Premier or Minister of IET, and a 30-minute panel session for the Province to present ways in which it can partner with the UK government and industry to support the achievement of key objectives.
- As the afternoon session is normally attended more by the UK business community, CDL is enabling IET to determine the content and format for nearly all the afternoon events. The only exception will be a sustainable transportation panel that CDL will organize and select the panelists for.
- CDL will assist IET in preparing the respective events by: securing moderators for panels; promoting the NL events to the London government and business communities to attract quality participants; and working with Canada House to organize logistics, including securing and setting up rooms and providing catering.
- Multiple provincial government departments have been engaged and have agreed to participate in this sponsorship opportunity:
  - Jobs, Immigration and Growth (JIG) as an opportunity to attract talent to NL;
  - IET to promote trade and investment opportunities relevant to the UK market;
  - Tourism, Culture, Arts and Recreation (TCAR) to showcase NL culture and promote the province as a tourist destination; and
  - Trade Policy Division of the Intergovernmental Affairs Secretariat to assist with any trade policy issues that may arise in the course of engagement with UK counterparts.
- Should IET commit to this sponsorship, the department would incur 25 per cent of the cost of sponsorship outlined above, which amounts to approximately \$46,000. Funds for this expenditure are available in the budget of the Business Analysis Division. TCAR would contribute an additional 25 per cent of the sponsorship cost and JIG 50 per cent.

### **Alternatives:**

Option 1: Approve sponsorship expenditure related to Canada Day London. (Recommended)

#### Advantages

- Builds upon efforts to promote NL as an ideal location for trade and investment opportunities, and to further diversify its export markets.
- Enables whole-of-government participation in the event by sharing the burden of the sponsorship cost.

#### Disadvantages

Disadvantages

- IET will incur sponsorship costs, travel costs for staff, and travel grant costs for companies and organizations that participate.

Option 2: Do not approve sponsorship expenditure for the event. (Not Recommended)

Advantages

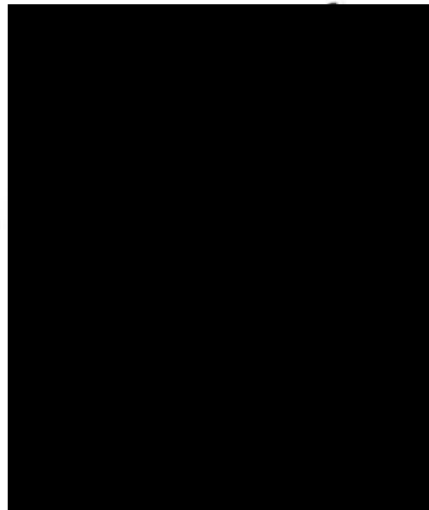
- IET will not incur costs associated with the sponsorship and travel to the event.

Disadvantages

- IET will not build upon efforts to promote NL as an ideal location for trade and investment opportunities, and to further diversify its export markets.
- IET will not enable whole-of-government participation in the event by sharing the burden of the sponsorship cost.

**Prepared/Approved by:** D. Grant /M. Cluett-Fizzard /J. Ludmer

May 23, 2025



40.(1)

**Meeting Note**  
**Department of Industry, Energy and Technology**

[Redacted]

35.(1)(d)

4:00pm-4:30pm – Wednesday, May 28, 2025

CANSEC Exhibition, Booth 3026

**Attendees:**

- Honourable Steve Crocker, Minister, Industry, Energy and Technology (IET)
- John Cowan, Deputy Minister, IET

[Redacted]

35.(1)(d)

- Julian Ludmer, Assistant Deputy Minister, IET
- Deidre Murphy, Manager, Investment Attraction, IET

**Purpose of Meeting:**

[Redacted]

35.(1)(d)

**Background:**

[Redacted]

35.(1)(d)

**Agenda item #1: NL's Strategic Presence at CANSEC**

[Redacted]

35.(1)(d)

- NL is attending CANSEC 2025 with a high-level delegation to advocate for the province as

[Redacted]

35.(1)(d)

Potential Speaking Points

- NL's strong presence at CANSEC underlines its commitment to becoming a strategic partner [REDACTED] 35.(1)(d) 35.(1)(d)
- NL offers a compelling case [REDACTED] and the Province is actively working to ensure federal decision-makers are aware of its unique potential in in this regard.

[REDACTED]

29.(1)(a)

**Agenda item #2: Benefits of [REDACTED] NL**

- The province is an ideal location in eastern Canada [REDACTED]

35.(1)(d)

Potential Speaking Points

- NL has a strategically advantageous location with access to the Atlantic and Arctic, ice-free and deepwater ports, and industrial sites [REDACTED] 35.(1)(d)
- As a smaller jurisdiction, NL can bring together key decision makers for swift business collaboration, and [REDACTED] would be a top priority. 35.(1)(d)
- NL has world-leading marine research facilities, innovative ocean tech companies, and a highly-skilled workforce with world-class experience delivering complex infrastructure projects, particularly offshore, that can be relied upon [REDACTED] 35.(1)(d)
- The Province will work [REDACTED] explore possibilities for the company [REDACTED] 35.(1)(d)

**Agenda Item #3: Commitment to the Aerospace and Defence Sector**

- Aerospace and Defence is a priority sector for NL.

Potential Speaking Points

- NL aerospace and defence companies are doing business internationally both as partners in the supply chain and directly with aerospace and defence procurement. This includes ocean tech companies that develop and produce technologies that have defence applications. 35.(1)(d)
- Adding a company with [REDACTED] reputation and capabilities would provide a significant boost to this sector and its future growth in the province. Companies and organizations in this sector would welcome and support [REDACTED] 35.(1)(d)
- NL's strategic location in Canada provides civil and military benefits with training and surveillance in harsh northern environments while protecting the North American airspace and waters. Labrador plays a significant role in advancing Arctic sovereignty and security as a staging ground for national defence assets in the eastern north.

**Prepared/Approved by:** A Meyers / D Murphy / M Cluett-Fizzard / J Ludmer

May 16, 2025

[REDACTED]

40.(1)

[REDACTED]

40.(1)

**Meeting Note**  
**Department of Industry, Energy and Technology**

[Redacted]

35.(1)(d)

**4:30pm-5:00pm – Wednesday, May 28, 2025**  
**CANSEC Exhibition, Booth 911**

**Attendees:**

- Honourable Steve Crocker, Minister, Industry, Energy and Technology (IET)
- John Cowan, Deputy Minister, IET
- Julian Ludmer, Assistant Deputy Minister, IET
- Deidre Murphy, Manager, Investment Attraction, IET

[Redacted]

35.(1)(d)

- Julian Ludmer, Assistant Deputy Minister, IET
- Deidre Murphy, Manager, Investment Attraction, IET

**Purpose of Meeting:**

[Redacted]

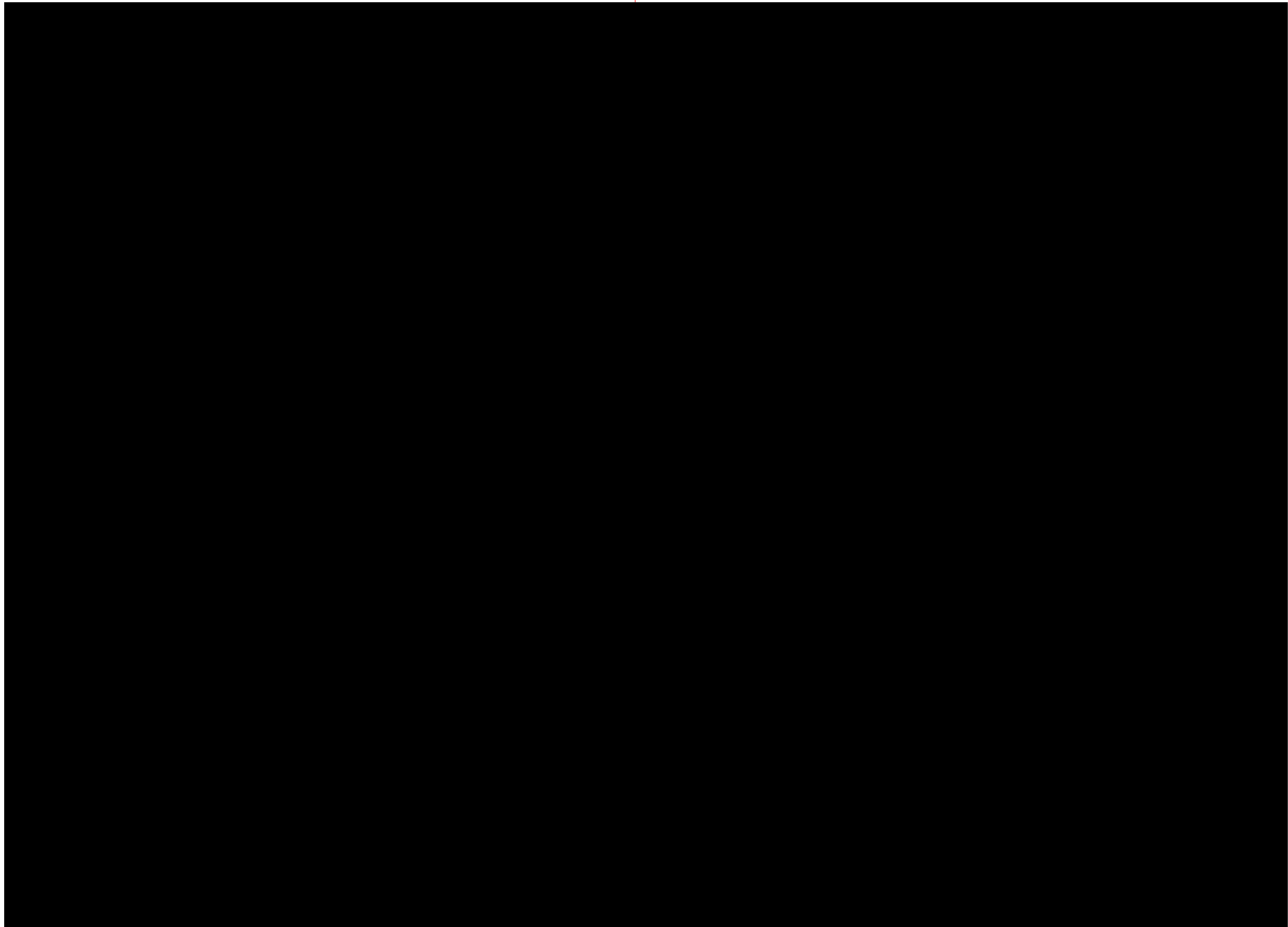
35.(1)(d)

**Background:**

[Redacted]

35.(1)(d)

35.(1)(d)



**Agenda item #1: NL's Strategic Presence at CANSEC** [redacted] 35.(1)(d)

- NL is attending CANSEC 2025 with a high-level delegation to advocate for the province as [redacted] 35.(1)(d)

Potential Speaking Points

- NL's strong presence at CANSEC underlines its commitment to becoming a strategic partner [redacted] 35.(1)(d) 35.(1)(d)
- NL offers a compelling case [redacted] and the Province is actively working to ensure federal decision-makers are aware of its unique potential in in this regard.



29.(1)(a)

**Agenda item #2: Benefits of [redacted] NL**

- The province is an ideal location in eastern Canada [redacted]

35.(1)(d)

Potential Speaking Points

- NL has a strategically advantageous location with access to the Atlantic and Arctic, ice-free and deepwater ports, and industrial sites [redacted] 35.(1)(d)

- As a smaller jurisdiction, NL can bring together key decision makers for swift business collaboration, and [REDACTED] would be a top priority. 35.(1)(d)
- NL has world-leading marine research facilities, innovative ocean tech companies, and a highly-skilled workforce with world-class experience delivering complex infrastructure projects, particularly offshore, that can be relied upon [REDACTED] 35.(1)(d)
- The Province is prepared to work [REDACTED] within the limitations of the ongoing bid process, to explore possibilities for the companies [REDACTED] 35.(1)(d) 35.(1)(d)

**Agenda Item #3: Commitment to the Aerospace and Defence Sector**

- Aerospace and Defence is a priority sector for NL.

Potential Speaking Points

- NL aerospace and defence companies are doing business internationally both as partners in the supply chain and directly with aerospace and defence procurement. This includes ocean tech companies that develop and produce technologies that have defence applications. 35.(1)(d)
- Adding companies with [REDACTED] reputation and capabilities would provide a significant boost to this sector and its future growth in the province. Companies and organizations in this sector would welcome and support a [REDACTED] presence. 35.(1)(d)
- NL's strategic location in Canada provides civil and military benefits with training and surveillance in harsh northern environments while protecting the North American airspace and waters. Labrador plays a significant role in advancing Arctic sovereignty and security as a staging ground for national defence assets in the eastern north.

**Prepared/Approved by:** D. Murphy /M. Cluett-Fizzard /J. Ludmer [REDACTED]

May 20, 2025

[REDACTED] 40(1)

[REDACTED] 40(1)

**Meeting Note**  
**Department of Industry, Energy and Technology**

[Redacted] 35.(1)(d)  
**3:45 - 4.30 pm, Tuesday, May 27, 2025**  
**The Westin Ottawa**

**Attendees:**

- Honourable Steve Crocker, Minister, Industry, Energy and Technology (IET)
- John Cowan, Deputy Minister, IET
- Julian Ludmer, Assistant Deputy Minister, IET
- Deidre Murphy, Manager, Investment Attraction, IET

[Redacted]

35.(1)(d)

**Purpose of Meeting:**

[Redacted]

35.(1)(d)

**Background:**

[Redacted]

35.(1)(d)

[Redacted]

35.(1)(d)

**Agenda item #1: NL's Strategic Presence at CANSEC**

- NL is attending CANSEC 2025 with a high-level delegation to advocate for the province as

[Redacted]

35.(1)(d)

Potential Speaking Points

- NL's strong presence at CANSEC underlines its commitment to becoming a strategic partner [Redacted]
- NL offers a compelling case [Redacted] and the Province is actively working to ensure federal decision-makers are aware of its unique potential in in this regard.
- NL is prepared to collaborate with bidders and the federal government to align on timelines, infrastructure, investment, and Indigenous partnerships.

35.(1)(d)

35.(1)(d)

**Agenda item #2: Benefits of [Redacted] NL.**

- The province is an ideal location in eastern Canada [Redacted]

[Redacted]

35.(1)(d)

Potential Speaking Points

- NL has a strategically advantageous location with access to the Atlantic and Arctic, ice-free and deepwater ports, and industrial sites [Redacted]
- As a smaller jurisdiction, NL can convene key decision makers for swift business collaboration. [Redacted] would be a top priority.
- NL has world-leading marine research facilities, innovative ocean tech companies, and a highly-skilled workforce with world-class experience delivering complex infrastructure projects, particularly offshore, that can be relied upon to build and support [Redacted]
- The Province will work with companies, within the limitations of the ongoing bid process, to explore possibilities [Redacted]

35.(1)(d)

35.(1)(d)

35(1)(d)

35.(1)(d)

**Agenda Item #3: Commitment to the Aerospace and Defence Sector**

- Aerospace and Defence is a priority sector for NL.

Potential Speaking Points

- NL aerospace and defence companies are doing business internationally both as partners in the supply chain and directly with aerospace and defence procurement. This includes ocean tech companies that develop and produce technologies that have defence applications.
- NL's strategic location in Canada provides civil and military benefits with training and surveillance in harsh northern environments while protecting the North American airspace and waters. Labrador plays a significant role in advancing Arctic sovereignty and security as a staging ground for national defence assets in the eastern north.

Prepared/Approved by: A. Myers / D. Murphy / M. Cluett-Fizzard / J. Ludmer

[Redacted]

[Redacted]

[Redacted]

40.(1)

**Meeting Note**  
**Department of Industry, Energy and Technology**  
**NordSpace**  
**2:30pm – 3:00pm - Wednesday, May 28, 2025**  
**CANSEC Conference Hall, Booth 2032**

**Attendees:**

- Honourable Steve Crocker, Minister, Industry, Energy and Technology (IET)
- John Cowan, Deputy Minister, IET
- Julian Ludmer, Assistant Deputy Minister, IET
- Deidre Murphy, Manager, Investment Attraction, IET
- Rahul Goel, CEO NordSpace
- Derrick Chow, Director of Operations, NordSpace

**Purpose of Meeting:**

- To reaffirm the Province's commitment to support the establishment of NordSpace's space port [REDACTED] in Newfoundland and Labrador (NL).

35.(1)(d)

**Background:**

- NordSpace was founded in 2022 with the mission to lead Canada into a new era of commercial space exploration, boosting innovation, jobs, and investment in the sector. The commercial space sector in Canada is estimated to be capable of reaching \$40 billion in value. NordSpace's focus is on developing services and products for all stages of space missions, including launch vehicles, satellites, and data collection and delivery.
- NordSpace is collaborating with the Canadian Space Agency; Transport Canada; Department of Defence; and Innovation, Science and Economic Development Canada in developing its plans. There currently are no active spaceports in Canada.

35.(1)(d)

- NordSpace recently developed the Hadfield Engine, Canada's first liquid rocket engine, which is [REDACTED] 3-D printed and can run on conventional fuel or sustainable aviation fuel. They are also developing three classes of launch vehicles with payload capacities of [REDACTED] and 500kg for launching commercial satellites.

35.(1)(d)

[REDACTED] St. Lawrence was identified as the most suitable location for its easterly position, which allows launch trajectories to fall within the corridor between South America and Africa, aligning with common rocket fall zones. NordSpace has applied for Crown lands in the area to develop the project.

35.(1)(d)

- The project, if fully realized, has the potential to significantly grow the aerospace and defense sector in the province by leveraging the strategic importance of sovereign space launch and satellite technology. On July 31, 2024, NordSpace announced a \$5 million investment to develop the infrastructure needed for commercial launches.

- In June 2024, IET’s Investment Attraction team accompanied NordSpace, along with representatives from Transport Canada, to meetings with ACOA, the Department of Environment and Climate Change, and the Atlantic Canada Aerospace and Defence Association, as well as a tour of the Co. Innovation Centre. The Canadian Space Agency participated virtually in the meetings. IET regional staff accompanied NordSpace on their visit to St. Lawrence.
- NordSpace CEO, Rahul Goel, subsequently visited NL on March 28, 2025. Mr Goel met with the Minister of IET, and IET accompanied him to meetings with techNL, ACADA, and Memorial University’s Faculty of Engineering. NordSpace engineering staff proceeded directly to St. Lawrence to conduct further site surveys. On March 29<sup>th</sup>, NordSpace held a community open house at the St. Lawrence Recreation Centre.
- The company is continuing to work through the Crown Lands process for two sites near St. Lawrence. One site is located at Deep Cove, and the second along Lighthouse Road near the Middle Head Lighthouse. Related to the application, the St. Lawrence Town Council completed public consultations, and in April 2025 amended the Municipal Plan and Development Regulations to recognize spaceports as an eligible land use under the rural land use designation.
- NordSpace organized and presented at the Canadian Space Launch Conference in Ottawa on April 29, 2025, where the company highlighted NL as the intended destination for its spaceport and thanked the Province for its engagement and support.

[Redacted]

35.(1)(d)

**Agenda item #1: Reaffirming IET support for NordSpace’s proposed space port in NL.**

- IET is attending CANSEC 2025 with a significant presence, in part to show continued support for the province as the preferred site for the first Canadian space launch facility.

Potential Speaking Points

- NL’s strong presence at CANSEC and participation in the Canadian Space Launch Conference demonstrates the Province’s commitment to becoming a strategic partner with NordSpace in Canadian space exploration.
- IET will remain fully engaged with NordSpace to support its efforts to establish a space port in the province, [Redacted]

35(1)(d)

**Prepared/Approved by:** A. Meyers / D. Murphy / M. Cluett-Fizzard / J. Ludmer

May 16, 2025

40.(1)

[Redacted]

[Redacted]

40.(1)

**Annex A**  
**Biographies**

**Mr. Rahul Goel**  
**Chief Executive Officer, NordSpace**



Mr. Rahul Goel is a Canadian aerospace engineer, serial entrepreneur, and space technology investor dedicated to advancing Canada's sovereign space capabilities. He is the founder and CEO of NordSpace Inc., an Ontario-based aerospace company developing Canada's first end-to-end orbital launch system.

Mr. Goel holds a bachelor's degree in aerospace engineering from the University of Toronto's Engineering Science program, where he founded the Robotics for Space Exploration (RSX) team. He is currently pursuing a part-time PhD at the University of Toronto Institute for Aerospace Studies (UTIAS), focusing on small-scale space robotics for in-orbit servicing and lunar exploration.

In addition to his work at NordSpace, Mr. Goel is the founder and CEO of PheedLoop Inc., an event technology platform that powers conferences and expos globally. Mr. Goel also serves as a board member at Launch Canada, a national organization supporting rocketry and space launch innovation.

**Mr. Derrick Chow**  
**Director of Operations, NordSpace**



Mr. Derrick Chow serves as the Director of Operations at NordSpace, where he oversees the company's operational strategies and execution. Mr. Chow brings a strong interdisciplinary background in engineering and business. He holds a Master of Business Administration from the Schulich School of Business at York University, a Master of Applied Science in Aerospace Engineering, and a Bachelor of Applied Science in Engineering Science (Aerospace) from the University of Toronto.

With a background in engineering and business, Mr. Chow plays a pivotal role in managing NordSpace's projects, including the development of Canada's first commercial spaceport in Newfoundland and Labrador. Prior to joining NordSpace, Mr. Chow held leadership positions in various technology startups, bringing a wealth of experience in scaling operations and fostering innovation. His expertise contributes significantly to NordSpace's mission of advancing Canada's capabilities in space exploration and technology.

**Information Note**  
**Department of Industry, Energy, and Technology**

**Title:** VivaTech 2025

**Issue:** To provide an overview of VivaTech, taking place in Paris, France, June 11-14, 2025.

**Background and Current Status:**

- VivaTech is Europe's premier event for technology innovation, bringing together more than 165,000 attendees, 13,500 startups, 3,500 exhibitors, and 400 speakers. Key themes include AI, healthtech, mobility, sustainability, and emerging startups. Canada has been named "Country of the Year" and will send a delegation of approximately 500 people, with more than 170 technology and artificial intelligence (AI) organizations, showcasing innovation from across the nation.
- The Canadian Pavilion, organized by Scale AI in partnership with the Trade Commissioner Service, the Embassy of Canada to France, will provide a base for the Canadian delegation. This significant delegation stresses Canada's global leadership in AI and its desire to showcase the ecosystem on the international scene.
- Advantage St. John's, techNL, Canada's Ocean Supercluster, Veristart, and TrophyAI will participate as part of the Canadian delegation showcasing Newfoundland and Labrador (NL).

35.(1)(d)

**Analysis:**

- As opportunities for NL in the technology sector continue to grow following monumental examples such as the largest technology acquisition in Canadian history with Nasdaq Verafin. NL is increasingly becoming a technology hub in North America due to the success of companies like CoLab and Mysa, the continuing emergency of promising new start-ups such as Veristart and TrophyAI.
- NL is strategically located between Europe and the rest of North America, thereby offering an attractive base for doing business in Europe in the morning and rest of North America in the afternoon. The province has also re-established and increased direct flight connections to Europe, which makes it more attractive and accessible for doing business.
- VivaTech 2025 offers a timely and valuable platform for the provincial government and NL organizations and companies to pursue partnerships, investment opportunities, and new markets in Europe. The event's focus on Canada also adds enhanced exposure and increases opportunities to connect with national and international counterparts and companies.

**Action Being Taken:**

- IET will participate in VivaTech 2025 to support NL companies and engage with international counterparts and other companies considering operations in NL. This will include actively promoting the province as a strategic location with a rapidly growing tech sector to support the global expansion of companies into various markets.

**Prepared/Approved by:** A. Myers / D. Murphy / M. Cluett-Fizzard / J. Ludmer

May 30, 2025

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**Information Note**  
**Department of Industry, Energy and Technology**

**Title:** Newfoundland and Labrador Dairy Co-operative

**Issue:** [REDACTED]

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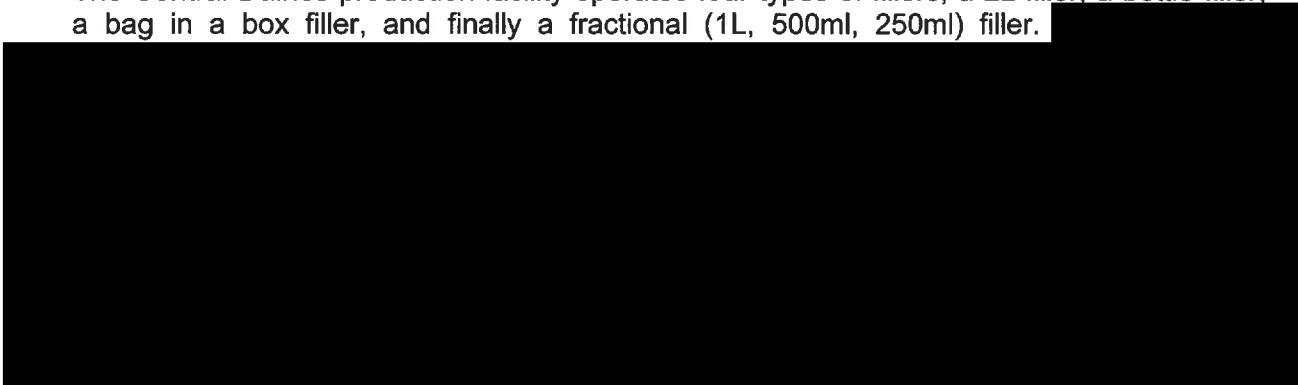
**Background and Current Status:**

- On November 17, 2023, 19 licensed dairy producers operating within Newfoundland and Labrador formally established the Newfoundland and Labrador Dairy Cooperative (NLDC) creating a locally owned business to process and distribute dairy products exclusively within the province, focusing on expanding the range of dairy products available, with an emphasis on introducing locally produced, value-added offerings.
- NLDC have a combined production and processing value of \$125 million annually. The growth in specialty products, particularly lactose-free products continue to rise while fluid milk demand is in decline. Consumption of milk throughout Canada continues to decrease.
- Newfoundland and Labrador dairy farmers produce 50 million litres of milk annually, generating \$70 million in revenue. Thirty-five million litres of milk is sold as fresh fluid product with the remaining 15 million litres sold as industrial milk for butter, cheese, and ice cream production. Milk processing takes place at two main facilities, both located in Mount Pearl, operating under the trade names Central Dairies and Scotsburn.
- In November 2024, the NLDC successfully acquired the fluid milk processing and distribution operations of Agropur Cooperative's Newfoundland and Labrador operations, Central Dairies, [REDACTED]. The Province provided \$10 million in term loan financing to NLDC for this purpose, [REDACTED]. The NLDC's loan with the Province is not under repayment, with interest accruing and applied to the principal balance for four years that will total \$12.3 million by October 2028.
- The Central Dairies brand offers a diverse range of products, including fluid milk, butter, and ice cream mixes. The company also distributes a selection of other dairy and non-dairy products throughout the province, ensuring comprehensive coverage and accessibility for consumers across Newfoundland and Labrador.
- On November 2, 2024, the NLDC reported \$56.7 million in assets, the largest of which (\$29.8 million) is goodwill. Goodwill refers to the intangible value of non-assets of a business such as brand recognition and customer loyalty. These are difficult to quantify, and only recognized from an accounting standpoint when one company is acquired by another.
- The most recently available financial statements for Central Dairies, from 2022, break down revenue as follows:

35.(1)(d)

○ 2L / 10L Containers:	\$45.48M
○ 250ml, 500ml, 1L Containers	\$3.17M
○ Value Added (butter, cheese, ice cream, etc.)	\$4.23M
○ <u>Distribution Operations</u>	<u>\$9.67M</u>
○ Total	\$63.55M

- The Central Dairies production facility operates four types of fillers, a 2L filler, a bottle filler, a bag in a box filler, and finally a fractional (1L, 500ml, 250ml) filler.



35.(1)(d)

**Analysis:**

- NLDC and Saputo Inc. are the two main dairy processors in the province, located just 500 metres apart in the Donovan's Industrial Park. NLDC processes 55% of the province's fluid milk and Saputo processes the remaining 45%.



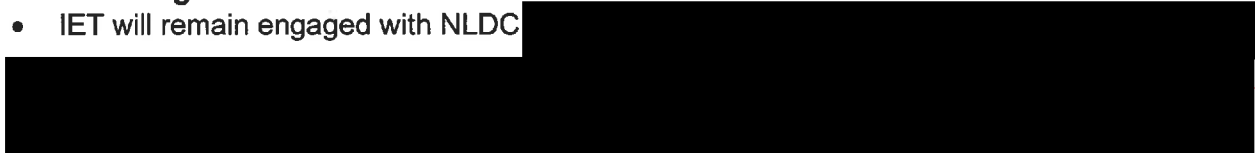
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29.(1)(a), 35.(1)(d)



**Action Being Taken:**

- IET will remain engaged with NLDC

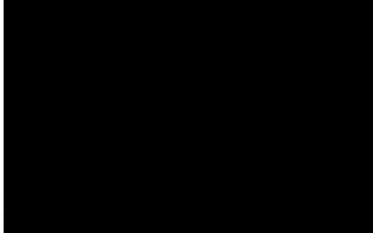


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35.(1)(d)

**Prepared/Approved by:** D. Perry/A. Natsheh/T. Parsons/J. Ludmer



May 5, 2025



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