

Joint Council Agenda
Wednesday, November 29 2023
Council Chambers, Town Hall
6:00 p.m.

1. Welcome and Introduction – Mayor and Warden
 2. Approval of September 21, 2023 Joint Council Committee Minutes
 3. Presentations
 - a. Strait of Canso Offshore Wind Taskforce
 - b. Recreation Facility Feasibility Study RFP
 4. Adjournment
-

Joint Town and County Council Minutes
Thursday, September 21, 2023, 6:00 PM
Town Council Chambers
274 Main Street
Antigonish, NS

Present were:

Warden Owen McCarron
Councillor John Dunbar
Councillor Remi Deveau
Councillor Bill MacFarlane
Councillor Mary MacLellan
Councillor Donnie MacDonald
Councillor Gary Mattie
Councillor Haris McNamara

Mayor Laurie Boucher
Deputy Mayor Willie Cormier
Councillor Mary Farrell
Councillor Andrew Murray
Councillor Donnie MacInnis
Councillor Diane Roberts

Glenn Horne, CAO,
County of Antigonish

Jeff Lawrence, CAO, Town of Antigonish

Shirlyn Donovan, Strategic
Initiatives Coordinator

Dianne Wilson, Deputy Clerk &
Recording Secretary

Kate MacInnis, Director, Community
Development

Shannon Long, Communications Officer

Also Present:

Dr. Adam Perry, Antigonish Aging Well Coalition
Blaise MacDonald, Antigonish Regional Emergency Coordinator

Absent with Regrets:

Deputy Warden Hughie Stewart Councillor Sean Cameron
Councillor Shawn Brophy

Call to Order

The Joint Town and County Council Committee was called to order by the Chair, Warden McCarron at 6:00 PM who welcomed everyone to the meeting, followed by comments by Mayor Laurie Boucher.

Approval of June 5, 2023, Joint Council Committee Minutes

“It was Moved and Seconded to approve the Joint Council Minutes of June 5, 2023.”

Motion carried.

Business Arising

There was no Business arising from the Minutes.

Presentations

Tourism Strategy Presentation

Shirlyn Donovan and Shannon Long provided Council PowerPoint presentation on a proposed Tourism Strategy for the Town and County of Antigonish. Shirlyn Donovan provided background information on the need for a cohesive tourism strategy for the Antigonish area and noted that Group ATN were Mary Tulle were the successful bidders for the request for proposals. Shannon Long provided details on a ‘tourism brand’ and what that includes.

Copies of the new brand as ‘Antigonish – Nova Scotia’s Free Spirit’ were distributed. Various versions of the brand and how they might be utilized were presented. The Tourism Vision and the five (5) pillars of the strategy for Antigonish was presented. It was noted that a bylaw to move forward with a 3% marketing levy would be forthcoming to both councils.

The delegates responded to questions from Council. Warden Owen McCarron thanked the delegates for their presentation.

Antigonish Aging Well Coalition

Dr. J. Adam Perry took to the podium, introduced himself, and provided Council with a PowerPoint presentation which focused on feedback from older adults and relevant stakeholders in order to assess the needs, strengths, opportunities and challenges to Antigonish becoming an age-friendly community. Dr. J. Adam Perry expanded on the details from the eight (8) age-friendly domains.

Details from the presentation included a community profile, Methods, Demographics, Outdoor Space and Buildings, Transportation, Housing, Respect & Social Inclusion, Social Participation, Communication & Information, Civic Participation & Employment. A list of short and long-term recommendations were presented.

Roundtable introductions were made and Dr. J. Adam Perry and (Councillor) Andy Thompson (Pictou County) responded to questions from Councils. Andy Thompson noted the importance of Councils endorsing Aging Well.

Warden Owen McCarron thanked the delegates for their presentation.

Antigonish Regional Emergency Management Organization – Blaise MacDonald

Blaise MacDonald AREMO Coordinator provided Council with a PowerPoint presentation that highlighted activities/training since his hiring and details on developing a regional approach to comfort and warming centres and hurricane season preparedness (checklist, response guide, before the storm and during & after the storm).

Details were provided on tabletop exercises that were recently held. Blaise MacDonald responded to questions from Council.

Adjournment

With there being no further business the meeting was adjourned at 7:25 PM.

Warden Owen McCarron

Mayor Laurie Boucher

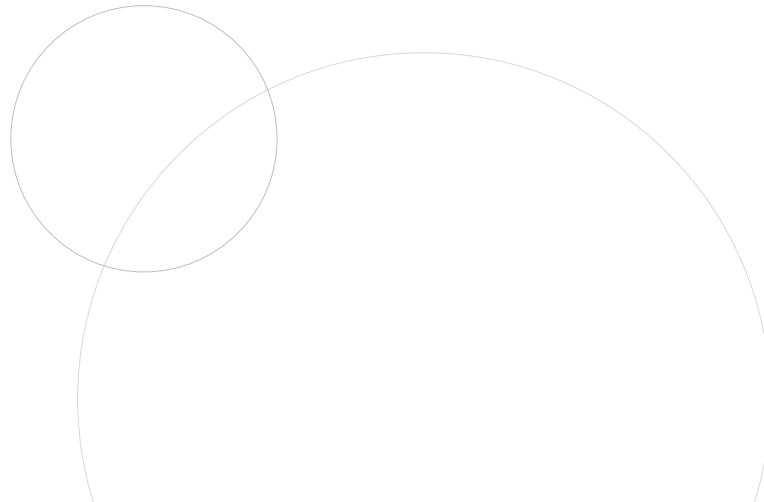
Glenn Horne, CAO, County of
Antigonish

Jeff Lawrence, CAO, Town of
Antigonish



STRAIT OF CANSO

OFFSHORE WIND TASK FORCE





Task Force Mission

Learn

Engage

Educate

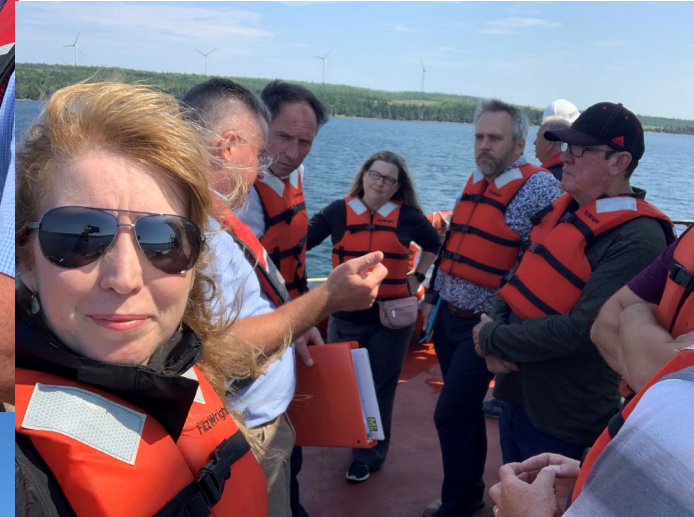
Research

Communicate

Promote Best Practices



Learning Tour of Strait of Canso with Task Force, Mi'kmaq, and Provincial Representatives



Task Force Learning Journey to FORCE in Parrsboro, Nova Scotia



Who We Are & Who We Engage

1. Municipal Government

1. Mayor Chisholm Beaton, Warden Amanda Mombourquette – Cochairs (TF)
2. Municipalities of Richmond and Guysborough, Victoria (TF)
3. Town of Mulgrave, Port Hawkesbury (TF)

2. Provincial Government

1. MLA Trevor Boudreau (Lead), Ministers Morrow, MacMaster, Rushton, Halman
2. David MacGregor and NRR Staff

3. Federal Government

1. MP Mike Kelloway
2. Senators Dan Christmas, Mary Coyle, Colin Deacon & Stan Kutcher
3. Natural Resources Canada – Director General Andre Bernier
4. ACOA (TF)

4. First Nation Communities

1. Chief Terry Paul and Unama'ki Chiefs
2. Potlotek – Jonathon Marshall (TF)
3. Bras d'Or CEPI – Stan Johnson (TF)
4. Pitu'Paq (TF)
5. Unima'ki Institute of Natural Resources

5. Fishing Industry

1. Guysborough County Inshore Fishermen's Association – Ginny Boudreau – Lead (TF)
2. Richmond County Inshore Fishermen's Association (TF)
3. Eastern Shore Inshore Fisherman's Protective Association

6. Economic Development Organizations

1. Cape Breton Partnership – Tyler Mattheis (TF)
2. Guysborough County Economic Development – Gordon MacDonald (TF)
3. NSBI – Michael Branchflower VP of Foreign Investment & Wanda MacLean CB Dev Officer (TF)
4. Strait Area Chamber of Commerce (TF) & Antigonish Chamber of Commerce
5. Port Hawkesbury Economic Development Committee (TF)

7. Training and Research

1. NSCC – Strait Area Campus / Nautical Institute (TF)
2. NSCC – Marconi Campus (TF)
3. FORCE
4. NetZero Atlantic (TF)
5. AEGIR – Scott Urquhart (TF)

8. Industry

1. Marine Renewables Canada – Elisa Obermann (TF)
2. AEGIR Insights – Scott Urquhart
3. Northland Power – John Wright, Matt Ladner, Davis Timm & Jeroen Visser
4. Aker Offshore Wind - Paul Quirke
5. BlueFloat – Carlos Martin & Jorge Porres, Ivan Baroeta
6. Horizon Maritime – Sean Leet, Steve Widmeyer (TF)
7. Brezo Energy – Jaime Moreu
8. Super Port Corporation – Tim Gilfoy & Joe Brennan (TF)
9. Port Hawkesbury Paper – Developing 150 MegaWatt On Shore Wind – Geoffrey Clark (TF)
10. Everwind Energy – Trent Vichie (TF)
11. Charbone – Daniel Charette (TF)
12. Bear Head Energy – Paul MacLean (TF)
13. CBCL (TF)
14. Superport Marine Services (TF)
15. Simply Blue Group (TF)



STRAIT OF CANSO / NS ADVANTAGE


*Multiple factors
combine to make the
Strait of Canso a
sought-after location
for large-scale
hydrogen production
and export*

Natural Attributes

- ✓ Wind – Abundant offshore wind resource rivals best in world
- ✓ Water – Freshwater available in large quantities
- ✓ Land – Accessible, obtainable and expandable industrial greenfield/brownfield
- ✓ Harbour – Deepwater, ice-free and underutilized
- ✓ Geography - Advantageous shipping distance to key Atlantic basin markets

Built Strengths

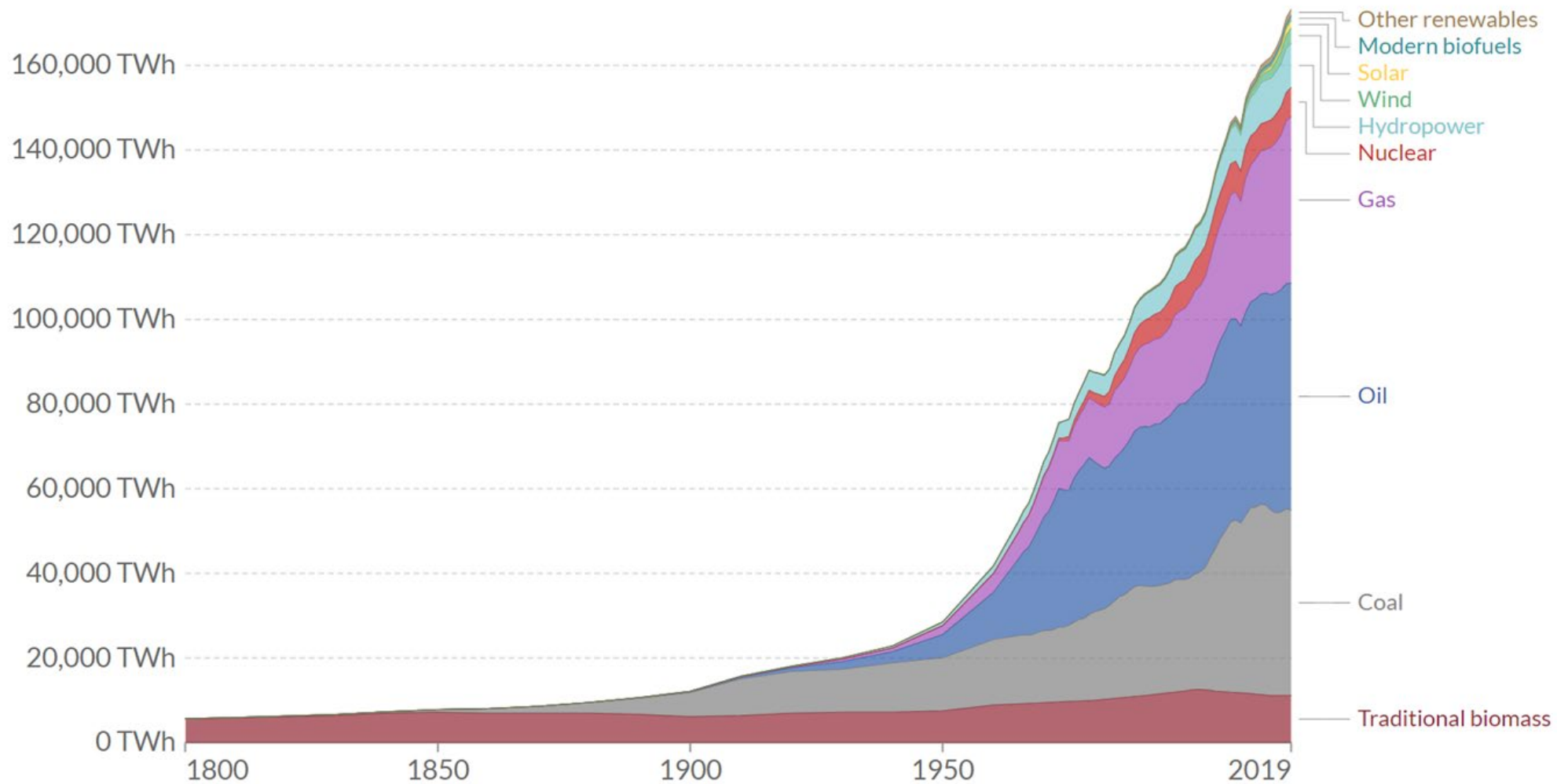
- Supply chain – Experienced, capable and competitive
- Workforce – Trained and organized
- Port services – Established and capable
- Power grid – Stable and accessible
- Decommissioned pipeline – OSW cable conduit



Capacity & Need
to Scale Up!



Energy Paradigm Shift





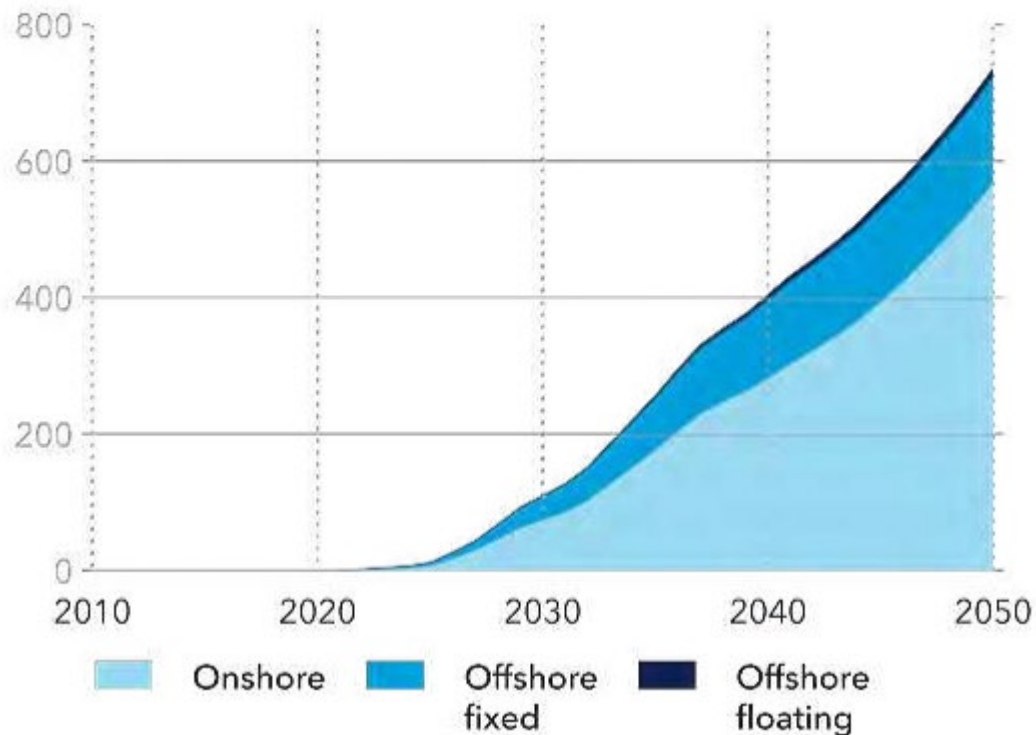
According to the new Energy Transition Outlook from DNV (dnv.com), Offshore Wind Could Grow 56-Fold by 2050 and Significantly Contribute to Green Hydrogen Production.

RMI (rmi.org) points to a significant near-term role for green hydrogen driven by a slew of new hydrogen projects in the works, coupled with sky-high fossil energy prices

FIGURE 3.12

Global wind capacity dedicated to hydrogen production

Units:GW



Weiss, T., Koole, C., Pesta, N. (2022) Hydrogen Reality Check: Green Hydrogen Can Scale This Decade. <https://rmi.org/hydrogen-reality-check-green-hydrogen-can-scale-this-decade/>

Historical Electrolysis Capacity Projections (GW Installed in 2030)

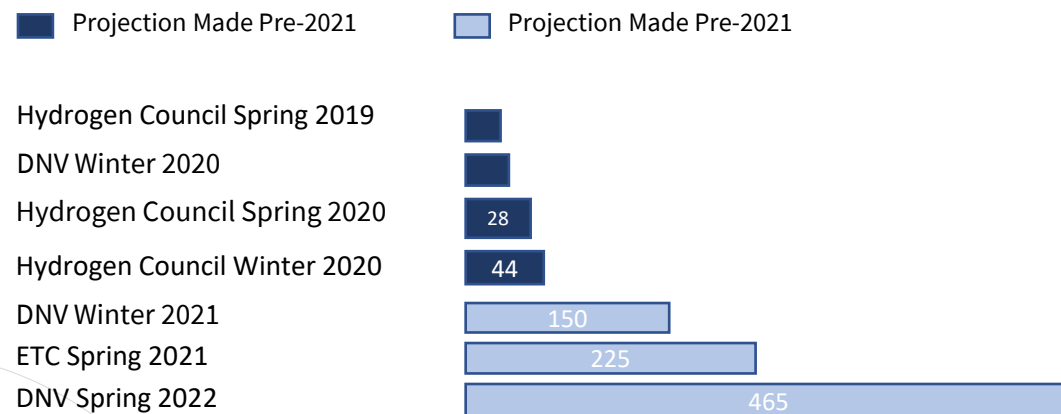
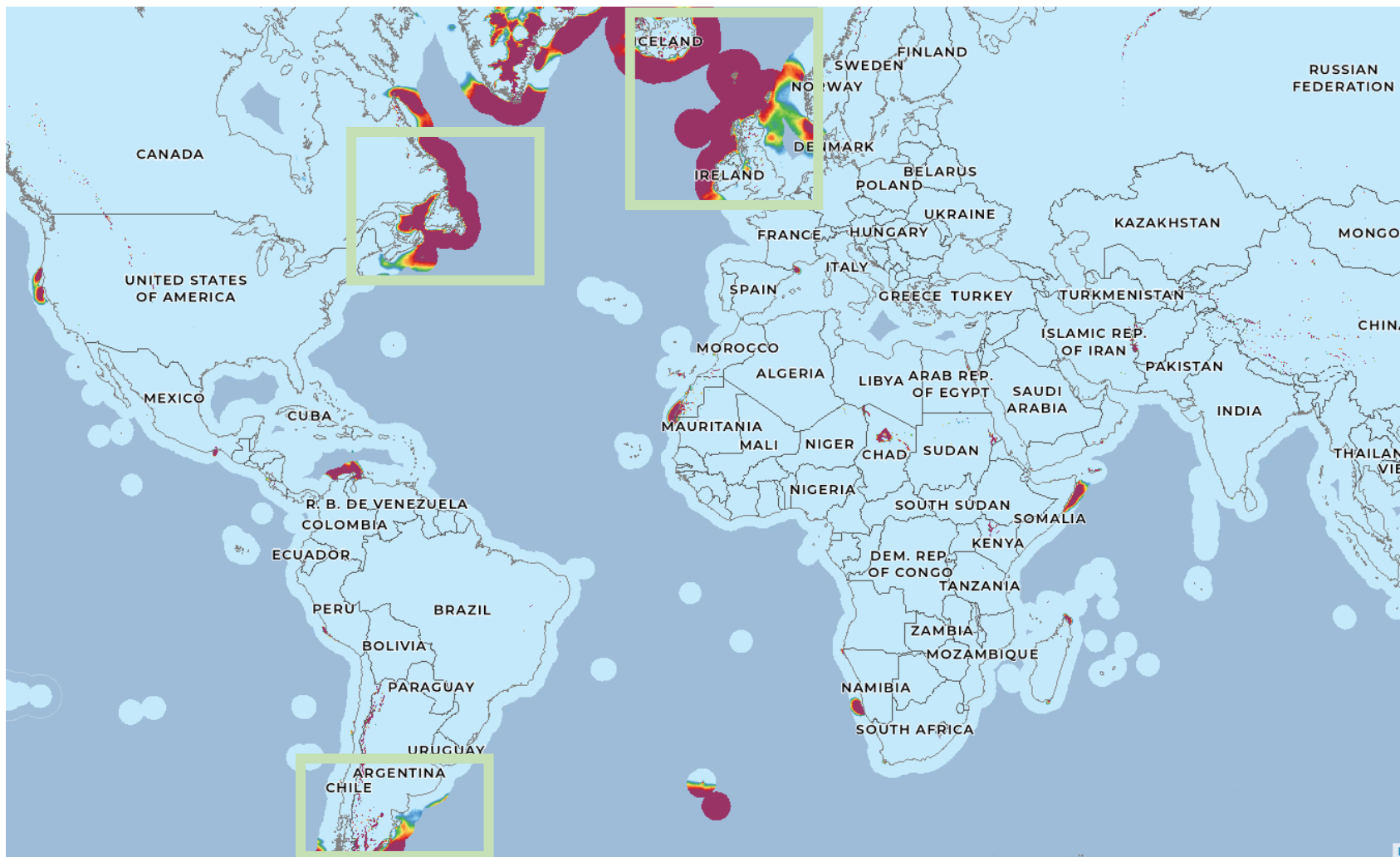


Exhibit 1: Historic estimations of electrolysis capacity in 2030. Sources: Hydrogen Council, DNV Hydrogen Forecast to 2050; DNV Energy Transition Outlook 2020 and 2021; ETC, Making the Hydrogen Economy Possible



We Have The World's Best Wind Resources!



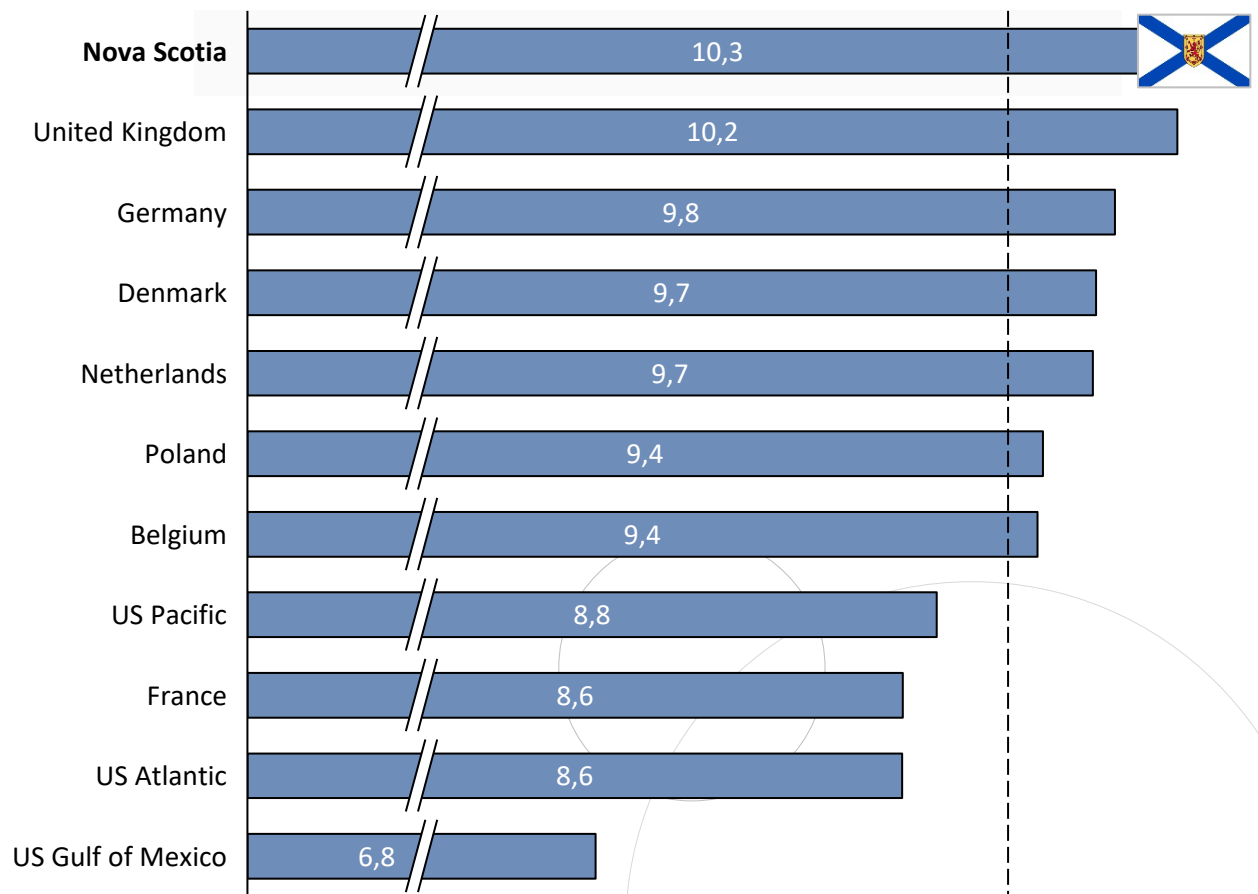
Sources: Global Wind Atlas,
Aegir analysis

AEGIR INSIGHTS



Nova Scotia Stands Out as Exceptional

Offshore wind speed of territorial waters, P50 m/s @ 100m⁽¹⁾



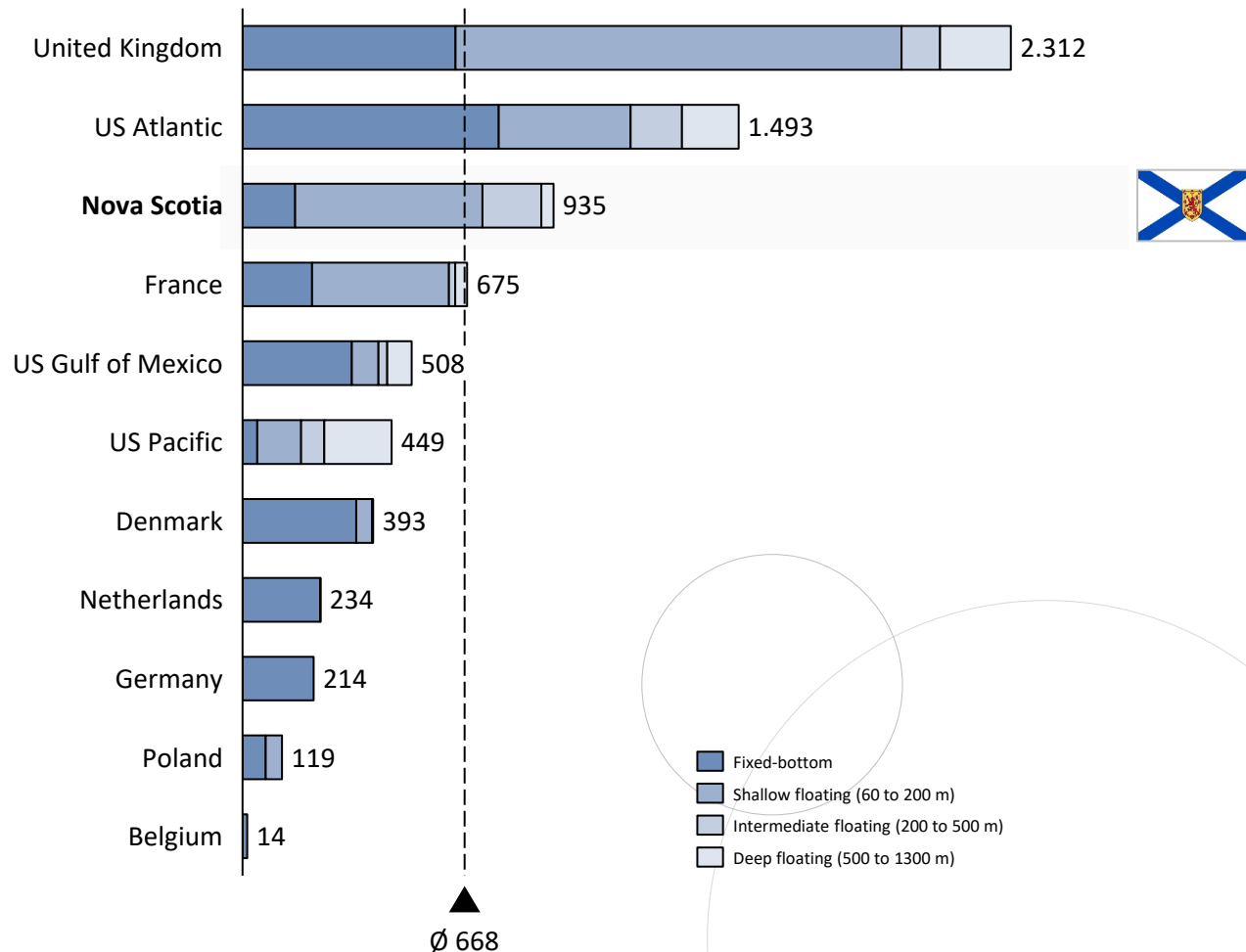
Nova Scotia offers one of the world's most competitive untapped offshore wind resources

Source: Global Wind Atlas.
1: Wind speed shown is P50 value for territorial waters. Technical potential estimate is based on water depth cut-off of 1300m and 7 m/s



With Almost Unlimited Expansion Potential

Offshore resource technical potential by region, gigawatts⁽¹⁾

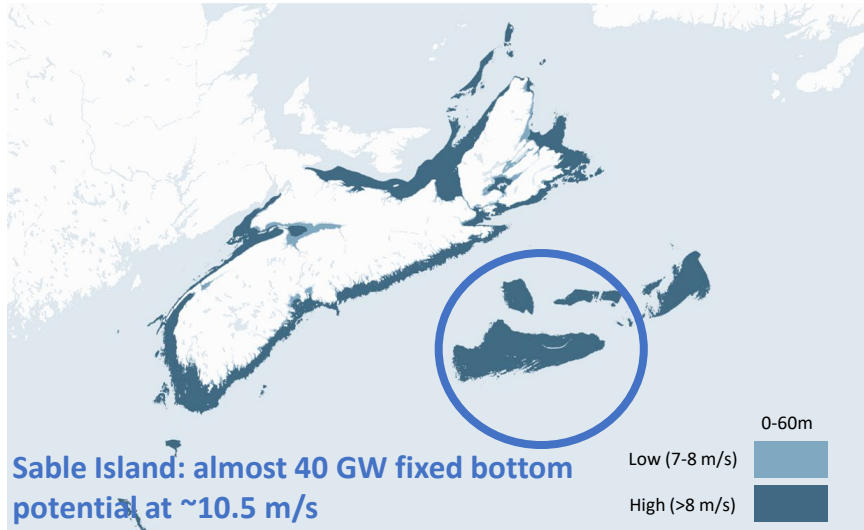


It holds a globally significant capacity of fixed-bottom and floating wind siting potential

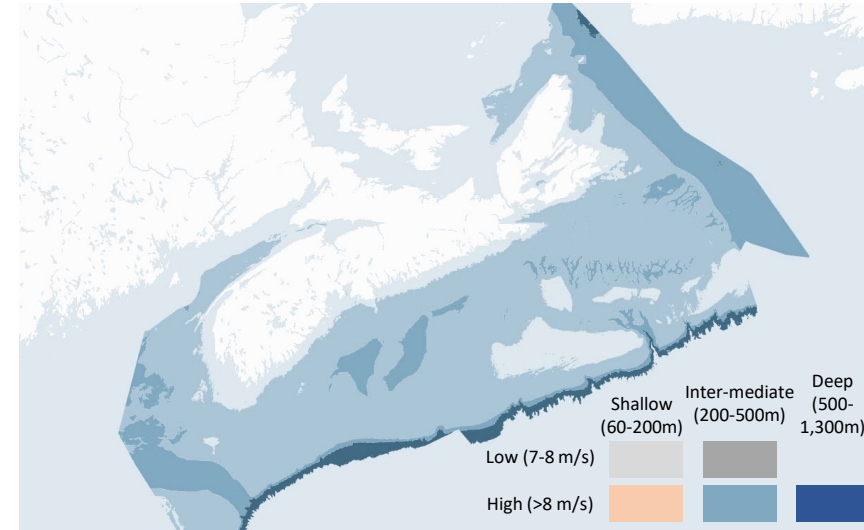
Source: Global Wind Atlas.
1: Wind speed shown is P50 value for territorial waters. Technical potential estimate is based on water depth cut-off of 1300m and 7 m/s

High Technical Potential in both Fixed-Bottom and Floating Wind

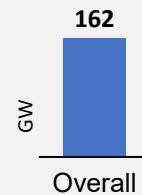
Technical potential for fixed-bottom offshore wind (162 GW)



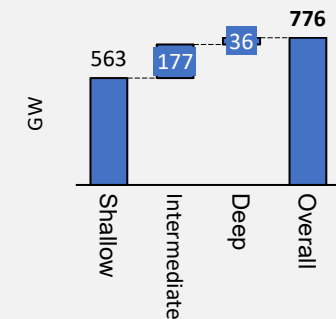
Technical potential for floating offshore wind (776 GW)



- Near shore areas are well-suited for fixed-bottom offshore wind as depths are below 60m
- A unique feature is the region around Sable Island where there is relatively shallow water with high wind speeds



- Most areas suited for shallow floating offshore wind have high potential (defined as wind speeds above 8 m/s)
- Coastal areas are well suited for shallow-floating wind (60-200m)



Source: Global Wind Atlas.

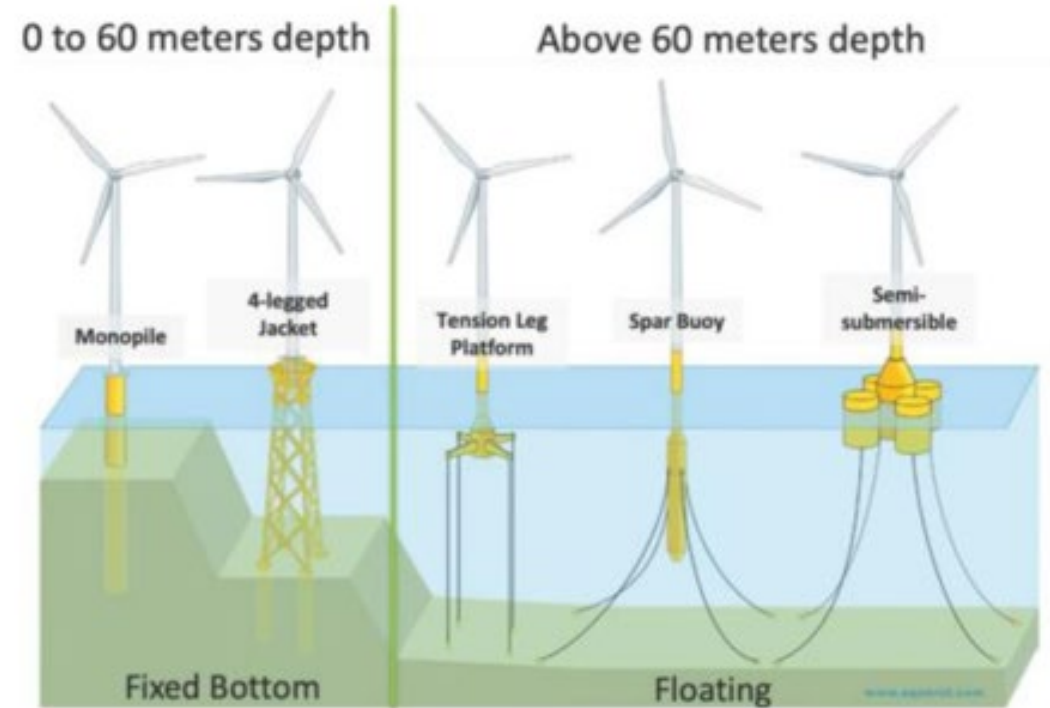
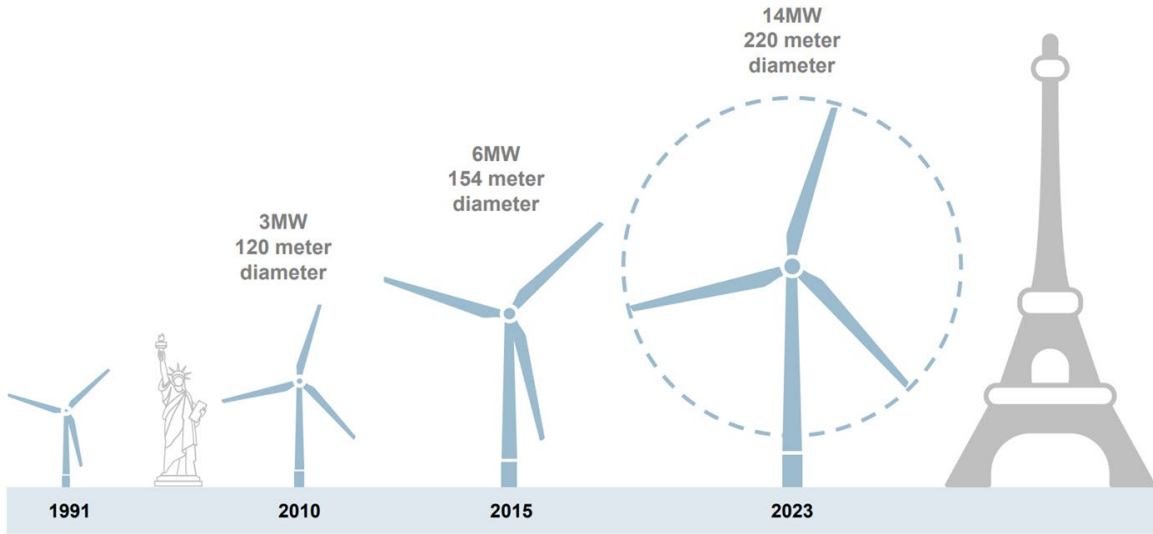
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Offshore Wind Base Configuration

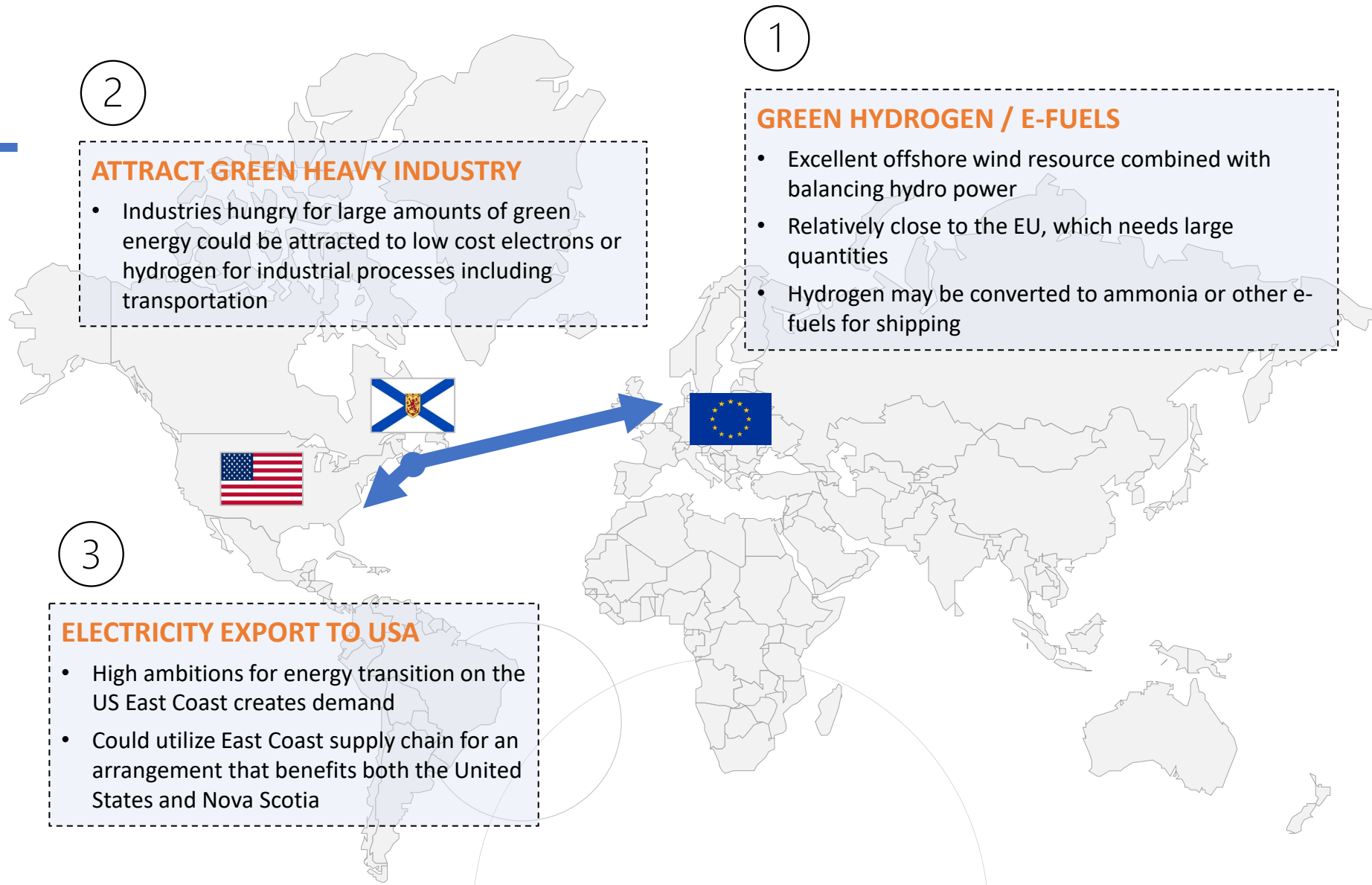
1. WHY OFFSHORE WIND?

Scale of turbines have been a key contributor to lower prices, with turbine heights approaching that of the Eiffel tower



Sources: Aegir research

6



2

ATTRACT GREEN HEAVY INDUSTRY

- Industries hungry for large amounts of green energy could be attracted to low cost electrons or hydrogen for industrial processes including transportation

1

GREEN HYDROGEN / E-FUELS

- Excellent offshore wind resource combined with balancing hydro power
- Relatively close to the EU, which needs large quantities
- Hydrogen may be converted to ammonia or other e-fuels for shipping

3

ELECTRICITY EXPORT TO USA

- High ambitions for energy transition on the US East Coast creates demand
- Could utilize East Coast supply chain for an arrangement that benefits both the United States and Nova Scotia



“Nova Scotia Launches Ambitious Plan” (CBC)

Nov 2021: Minister Rushton announces at MRC that Nova Scotia is actively Exploring the Economic Development Opportunity of Offshore Wind

Sep 2022: The Province has set a target to offer leases for five gigawatts of offshore wind energy by 2030 to support its budding green hydrogen industry.

The Province also announced that it is developing a green hydrogen action plan to be released in 2023. The plan will outline the role green hydrogen can play in the transition to clean energy and the steps the government will take to build this industry, which will help Nova Scotia reach net-zero emissions by 2050.



Setting this target sends a clear signal to the world that Nova Scotia is open for business and becoming an international leader in offshore wind and green hydrogen development.

Tim Houston,
Premier of Nova Scotia

This clean energy target represents an ambitious step forward towards delivering a net-zero economy powered in part by wind and hydrogen, while delivering sustainable jobs for Nova Scotians and Canadians.

Jonathan Wilkinson, Federal
Minister of Natural Resources



NOVA SCOTIA VALUE PROPOSITION - OFFSHORE WIND POWER TO X

CONTEXT

- **Large** scale offshore wind potential widely recognized by industry
- **Competitive** due to wind speed, sea bed, water depth and local capability
- **Formerly Stranded** resource with no commensurate scale domestic load requirements

KEY MESSAGES

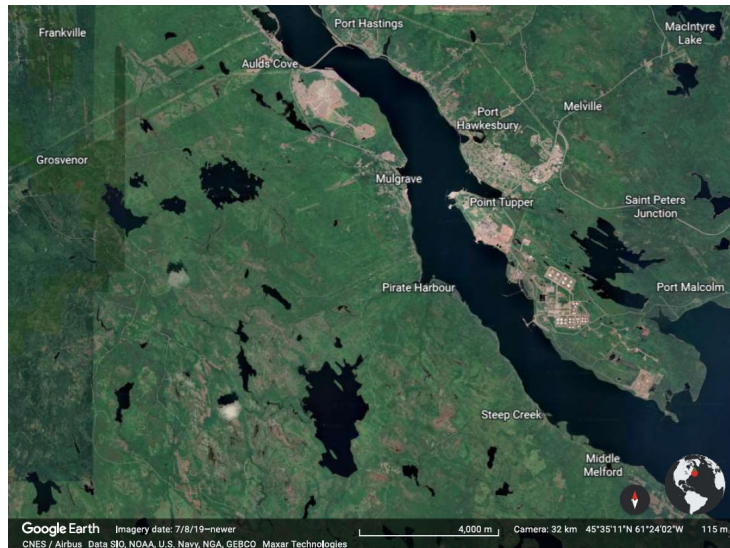
- Rapidly emerging market opportunities for hydrogen and clean fuels mean this tremendous resource is **no longer stranded**
- Value is recognized by **global investors** who are racing to establish large scale ventures in Nova Scotia – and more specifically right here in the Strait Area
- Municipal, provincial and federal governments embracing the opportunity to support development of offshore wind to serve key **economic, climate and geo-political imperatives**



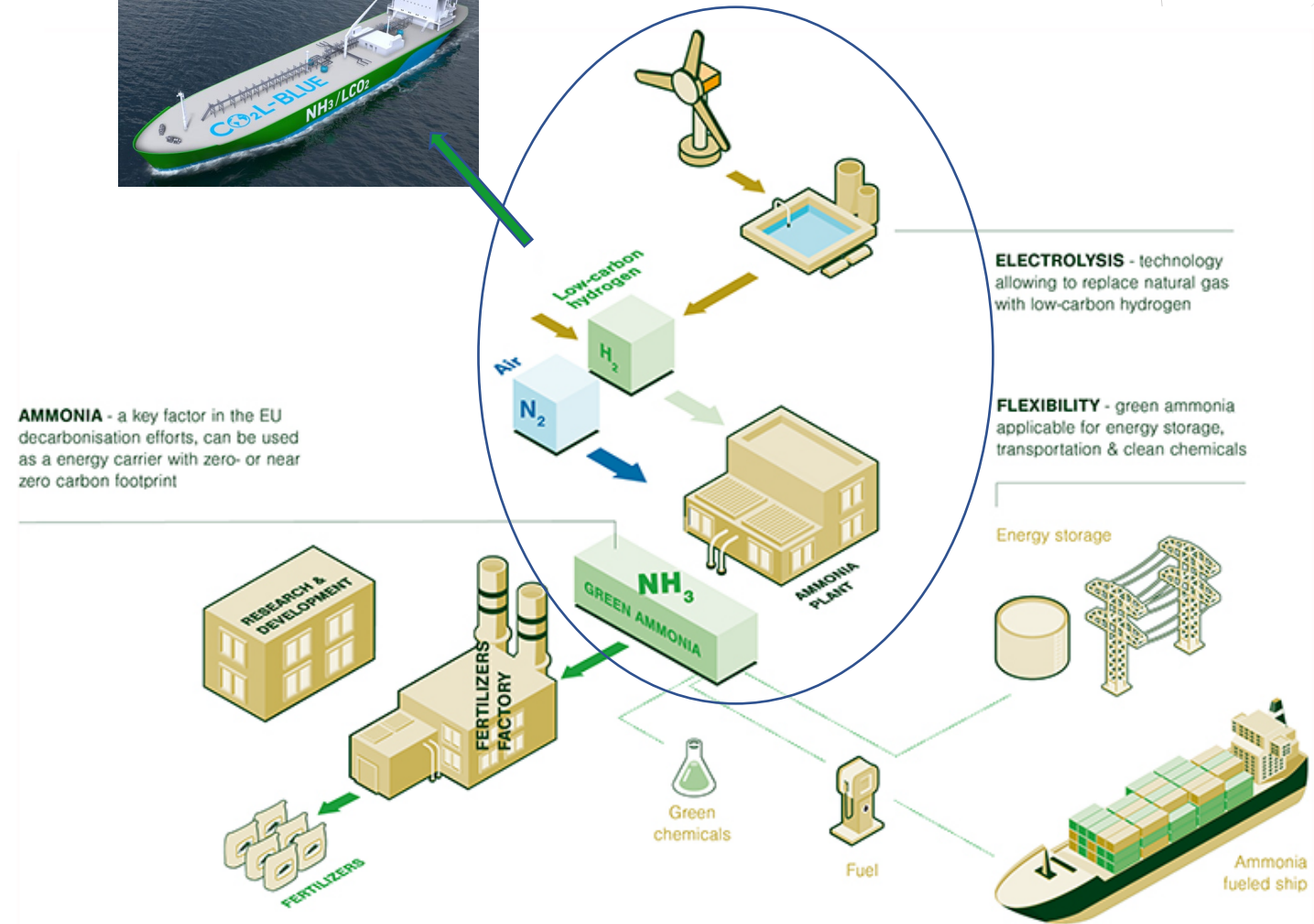
NOVA SCOTIA EXPORT PROJECT ANATOMY

Phased Development Approach

- Running room to 2030 (RFA & VPPA):
 - 2GW BTM wind (45% CF)
 - <100MW grid (average)
 - 1.5GW electrolyzer (60% CF)
 - H2 storage
 - Close to 1MTPA NH3
- Post '30 multi GW OSW scale up
- Industrial sites on Strait of Canso and other suitable port areas



AMMONIA - a key factor in the EU decarbonisation efforts, can be used as an energy carrier with zero- or near zero carbon footprint

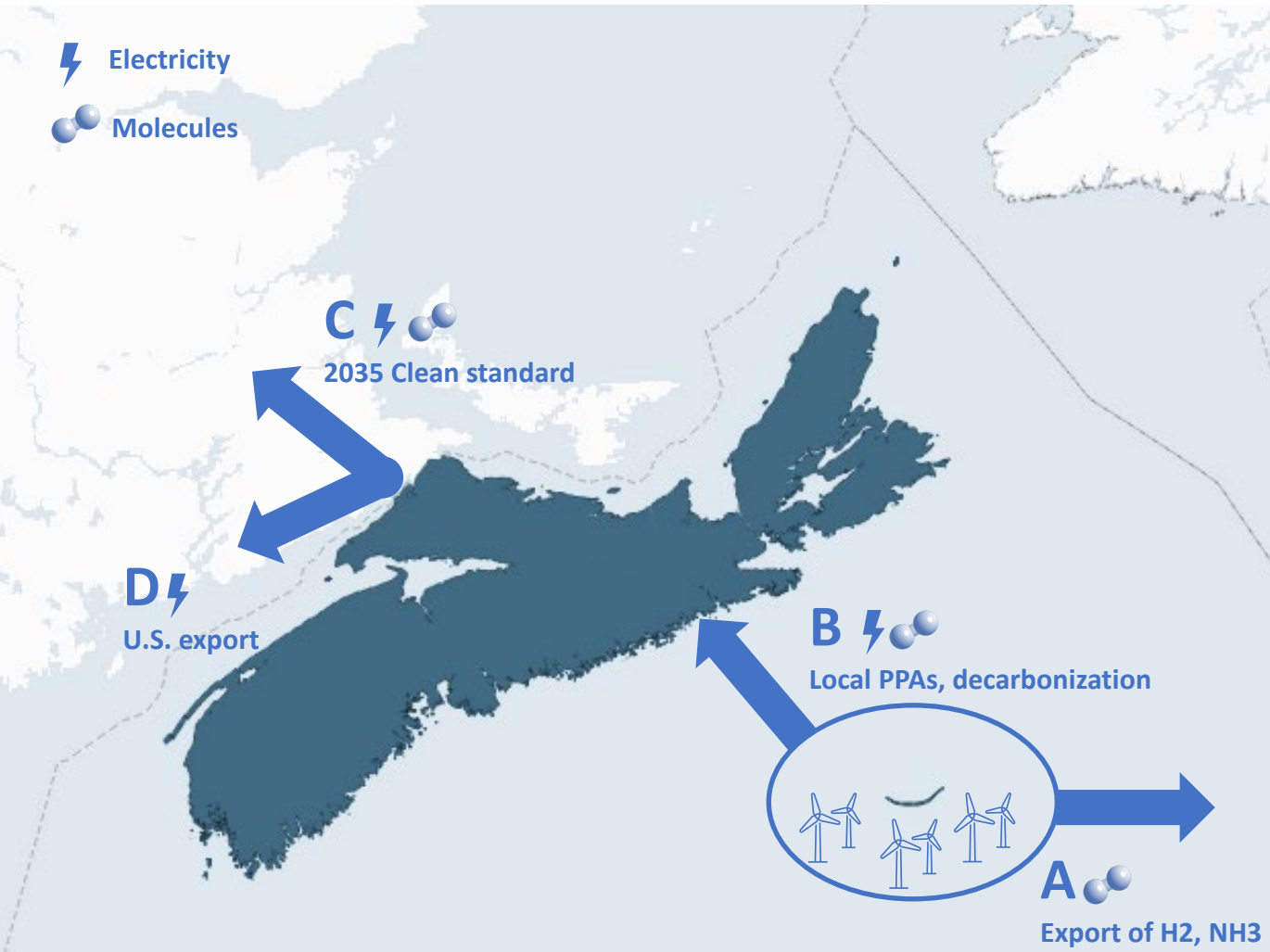




Domestic Role for OSW: Small Relative to Resource

- Relatively small (11TWh) winter peaking system (2200MW). Anticipated growth through electrification is mitigated by efficiency gains across heating and other technologies.
- Once the 2030 targets of 80% renewable electricity supply and elimination of coal for electricity generation, additional renewable energy resources will need to provide non-energy products in addition to energy in order to compete. Resources that can provide firm capacity during peak winter periods will be more valuable. These types of resources will be important in meeting the (as yet undefined) federal Clean Electricity standard for 2035.
- Correlation of offshore resources and peak demand, or the ability of offshore wind to pair more cost effectively with storage resources to deliver capacity and energy could drive more market opportunity for offshore wind compared to onshore wind and solar.

Four routes-to-market for OSW via electrons or molecules

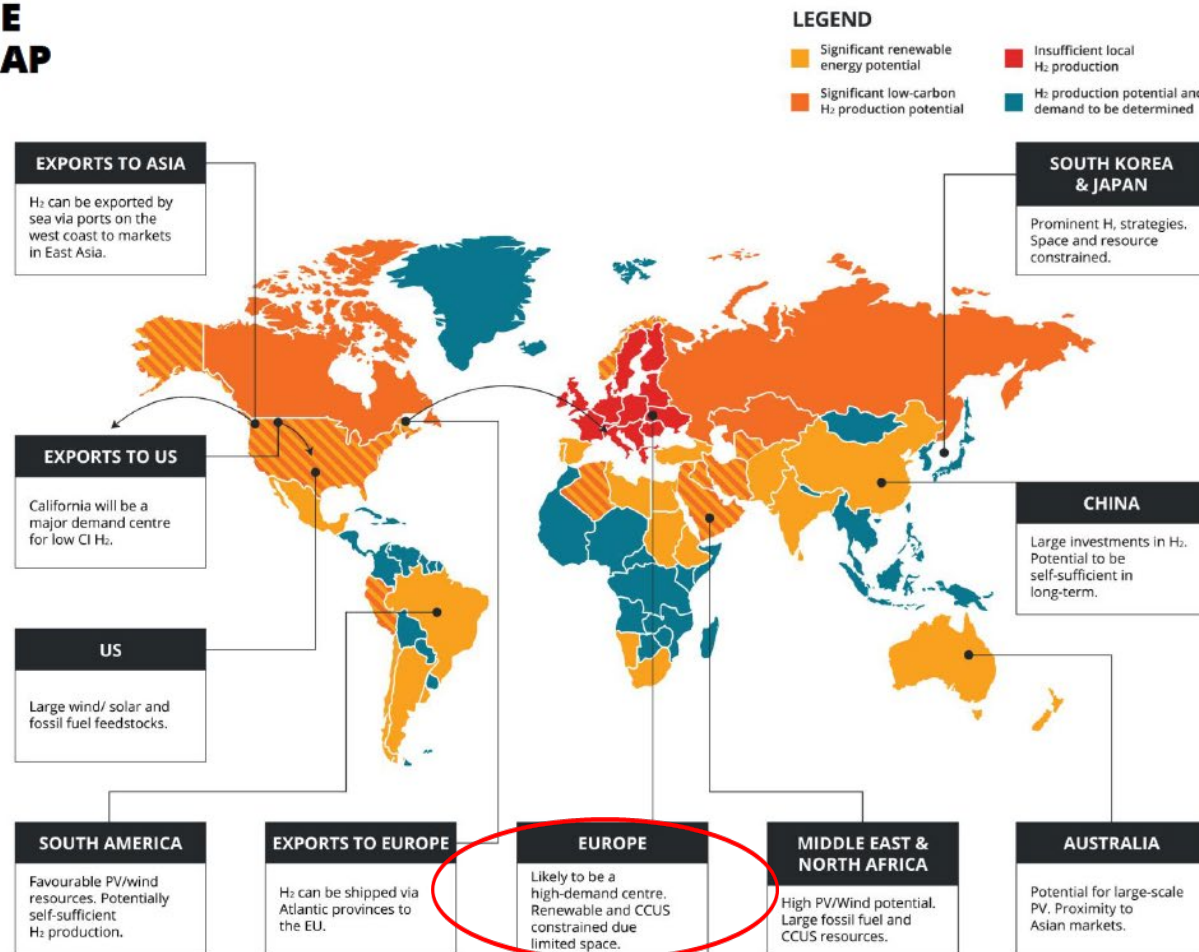


- OSW must be considered for two end use scenarios ‘electrons or molecules’:
 - A. International demand for clean energy (H₂, NH₃, other e fuels)
 - B. Local demand: Corporate PPAs or post-2030 demand increase connected to cross-sector decarbonization
 - C. Regional/national demand for clean electricity or green fuels under 2035 Clean Standard
 - D. United States electricity demand
- Current investor interest is predominantly PtX route-to-market via molecules



Global Hydrogen Trade

CARBON-FREE EXPORTER MAP



Source: [Hydrogen Strategy for Canada](#)



Canada's Hydrogen Ambition

CANADA'S HYDROGEN VISION



Source: [Hydrogen Strategy for Canada](#)

THE ROAD TO 2050



Joint declaration of intent between the Government of Canada and the Government of the Federal Republic of Germany on establishing a Canada-Germany Hydrogen Alliance

Canada and Germany signed a statement of intent to form an alliance for the export of hydrogen fuel to Germany by 2025. The document was signed in Canada in the presence of Prime Minister Justin Trudeau and German Chancellor Olaf Scholz.



Foundations for sector success



Existing institutions and regulations oriented for offshore leasing and resource development



Port infrastructure and commercial maritime sector *



Stable democracy and regulatory frameworks, making Canada a globally preferred trade partner

Nova Scotia has strong foundations to build a world class OSW + green hydrogen sector by 2030