

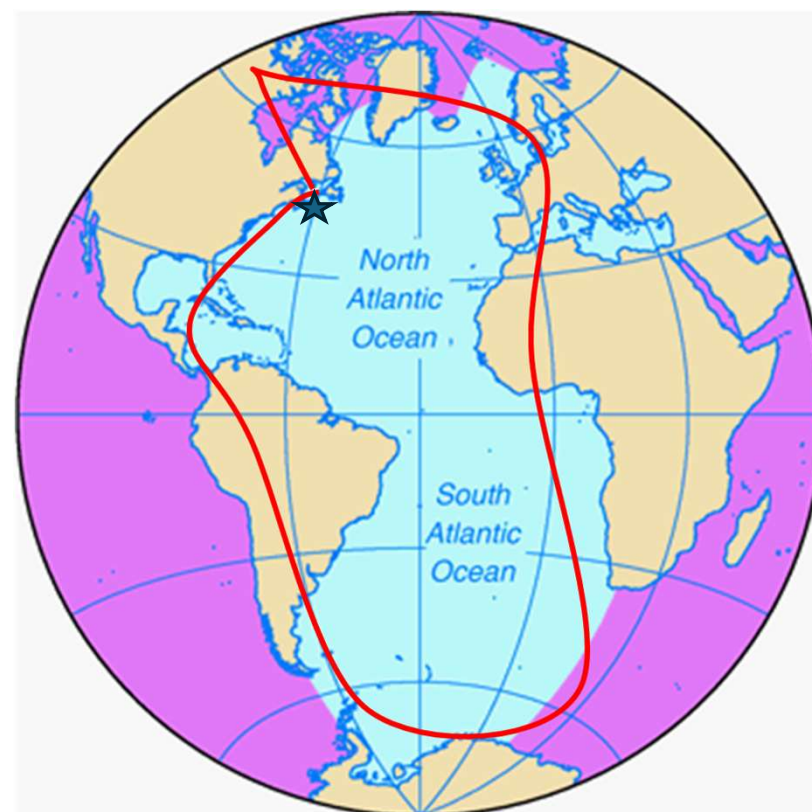
Regional Assessment Committee - The Offshore Wind Option for Nova Scotia



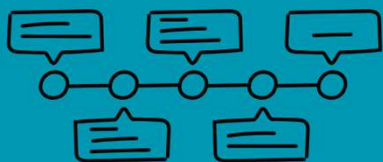
Graham R. Daborn
NZA R&D Forum
18 November 2024

Scotian Shelf Study Area

- A unique, biologically rich and diverse coastal shelf
- Biologically connected to the North and South Atlantic, North, Central and South America (including the Arctic) and Europe
- V. large economic importance to Nova Scotia & Canada
- Vulnerable to anthropogenic and climate changes.



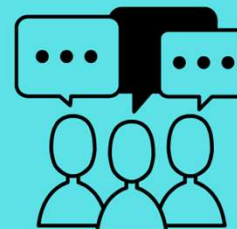
Approach



**22-month
timeline**



**TOR
very broad**



**Engagement
effort**



**Desktop
work**



**Interim
Report**



Draft Report

Why Offshore Wind Energy Development in Nova Scotia?

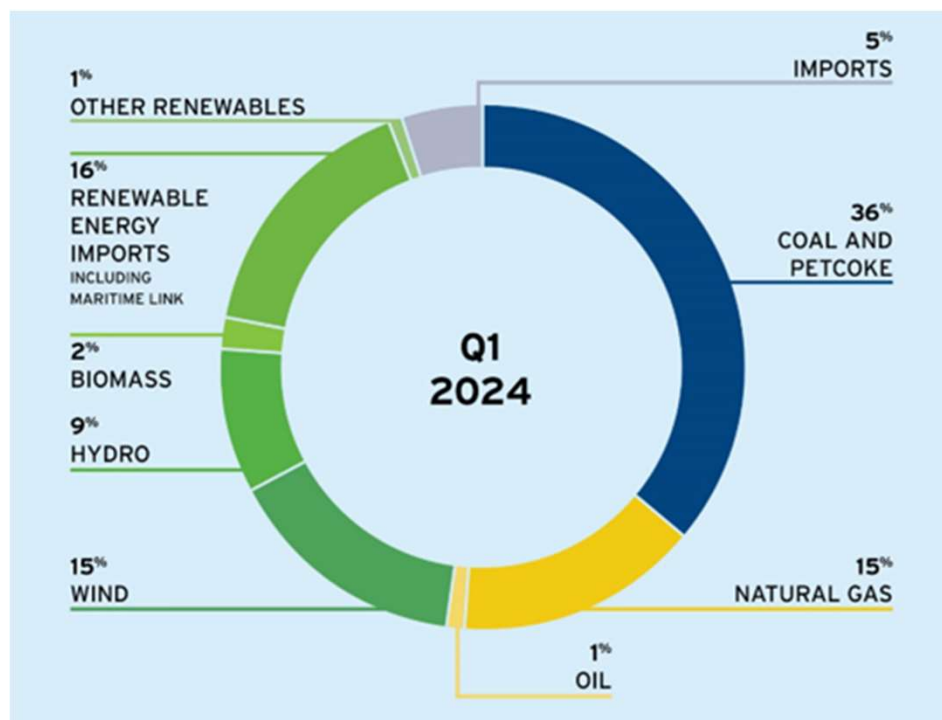


Figure Credit: Nova Scotia Power Our Energy Stats
(<https://www.nspower.ca/cleanandgreen/clean-energy>)

2024 will be world's hottest year on record, EU scientists say

By [Kate Abnett](#) and [Alison Withers](#)

November 7, 2024 4:52 AM AST

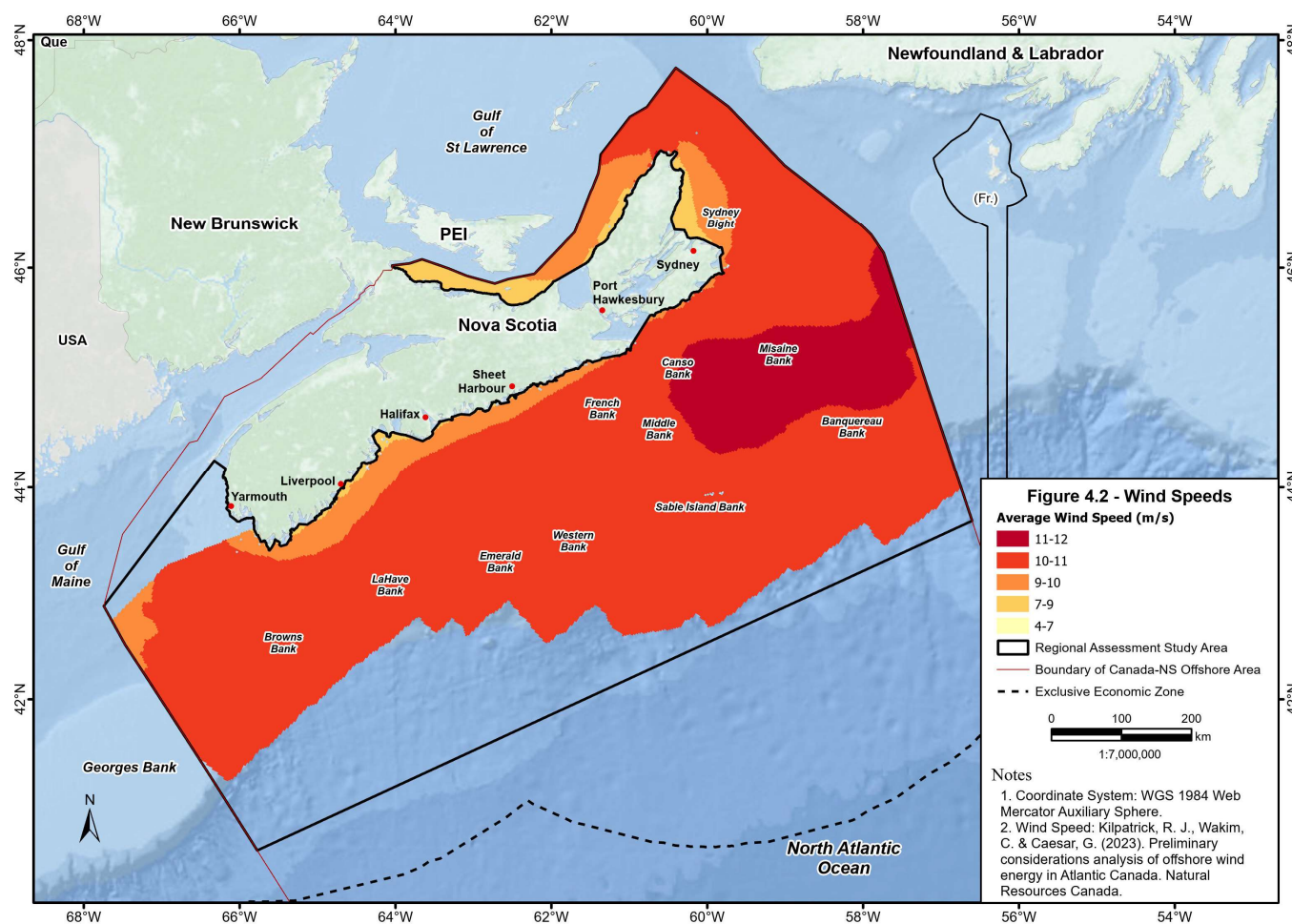
The 2024 state of the climate report: Perilous times on planet Earth

BioScience, biae087, <https://doi.org/10.1093/biosci/biae087>

Published:

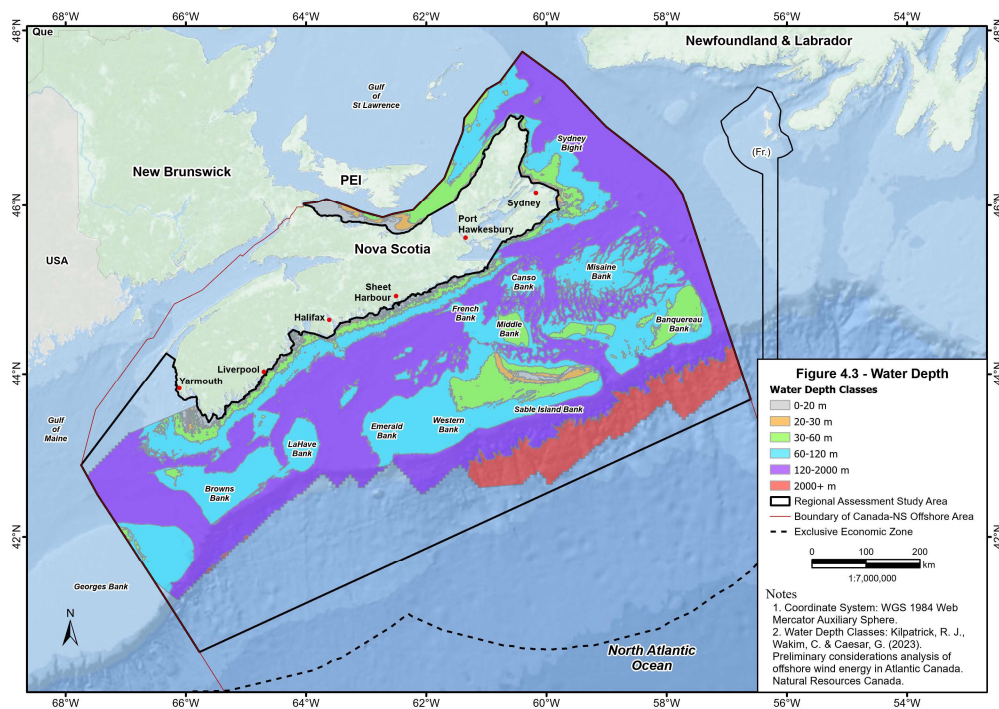
08 October 2024

Nova Scotia's Offshore Wind Regime



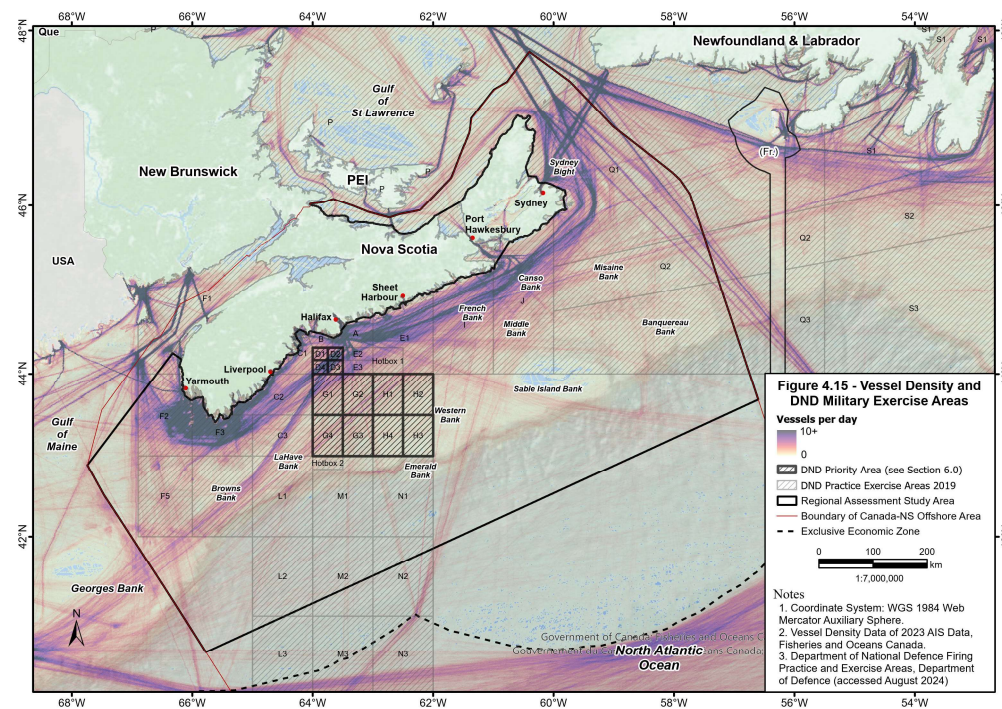
Constraints:

Water Depths



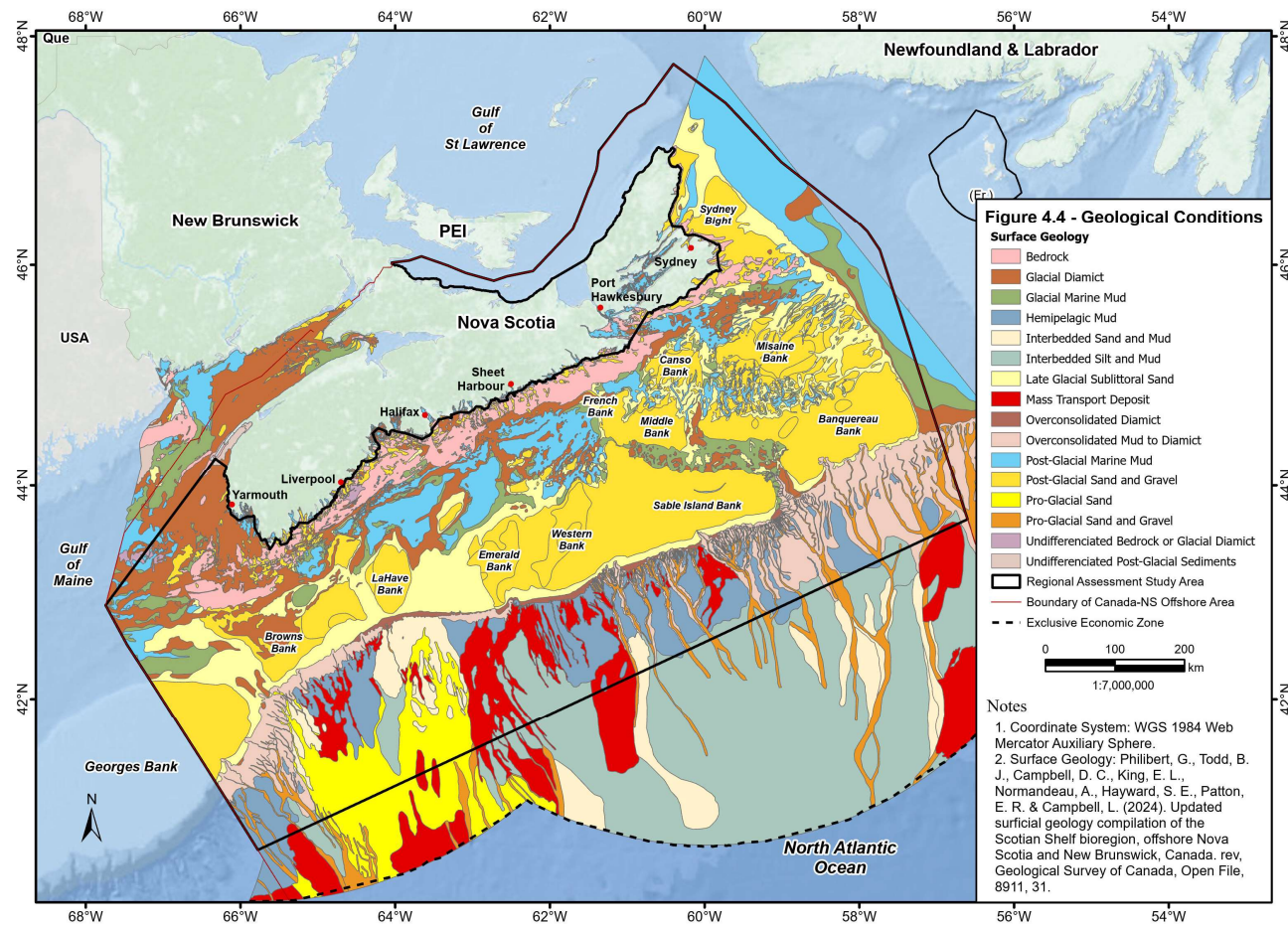
Marine Traffic & DND

Exercise Areas



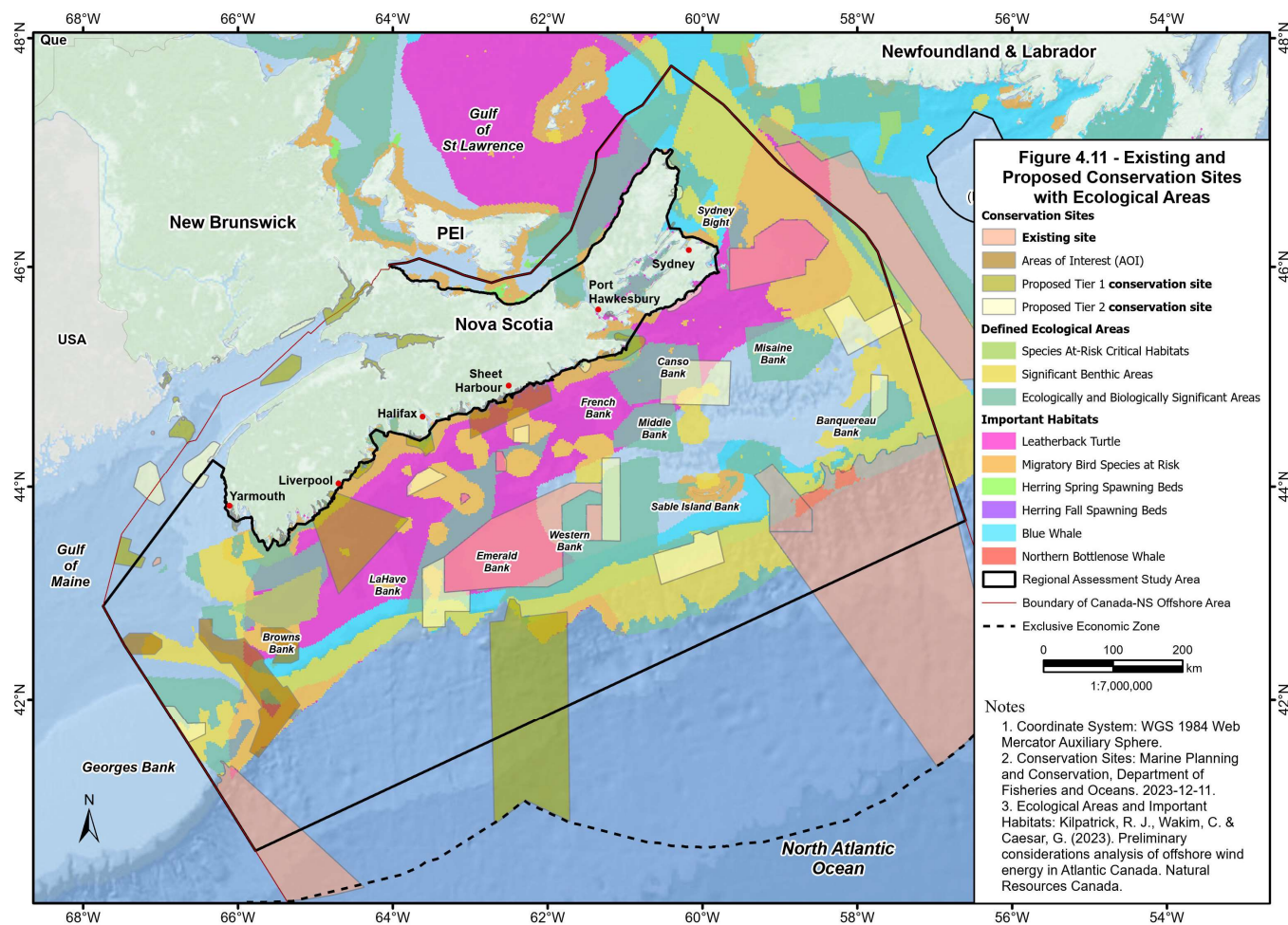
Constraint:

Geological Setting

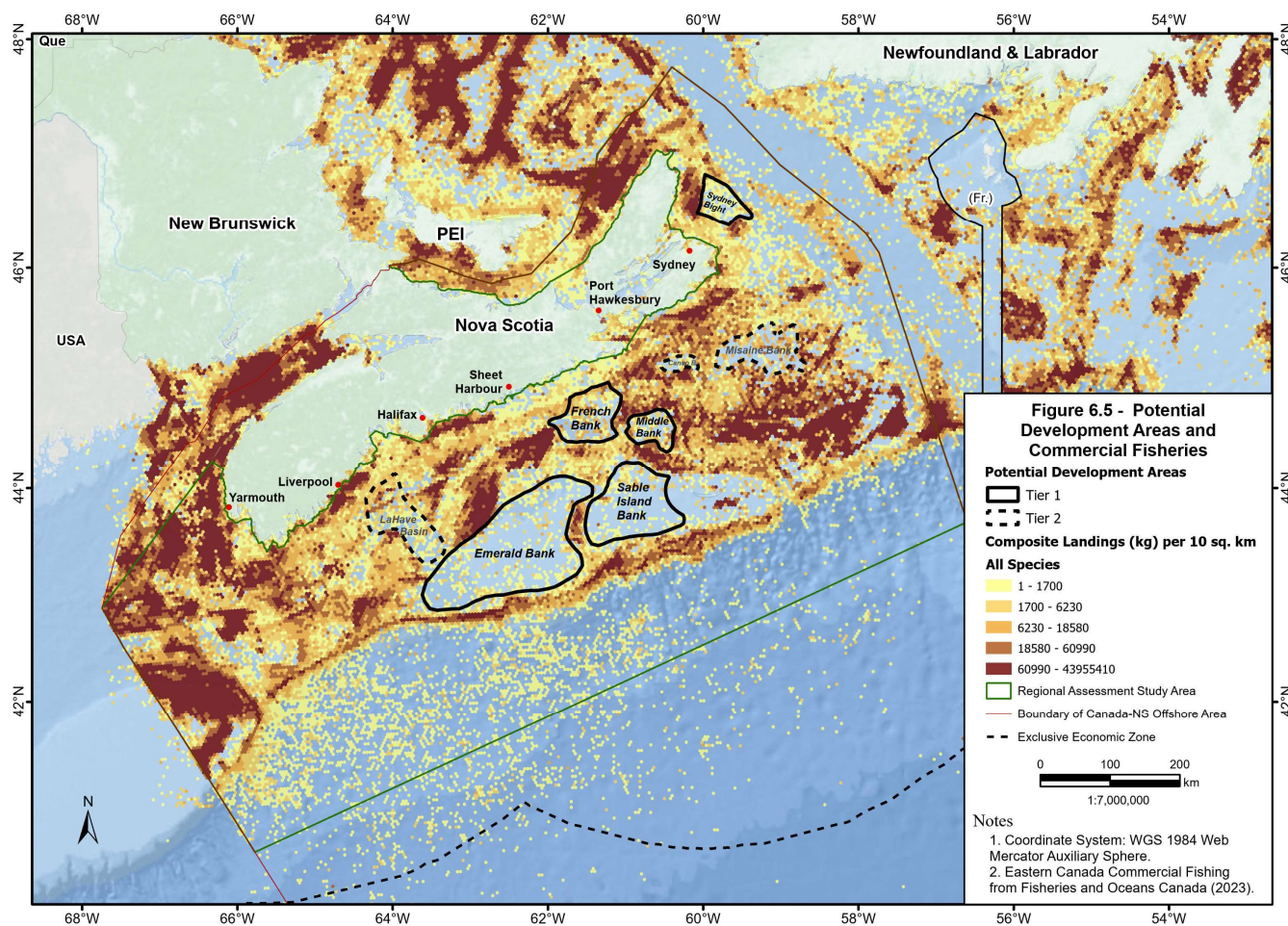


Constraint: Conservation Areas & Important Habitats

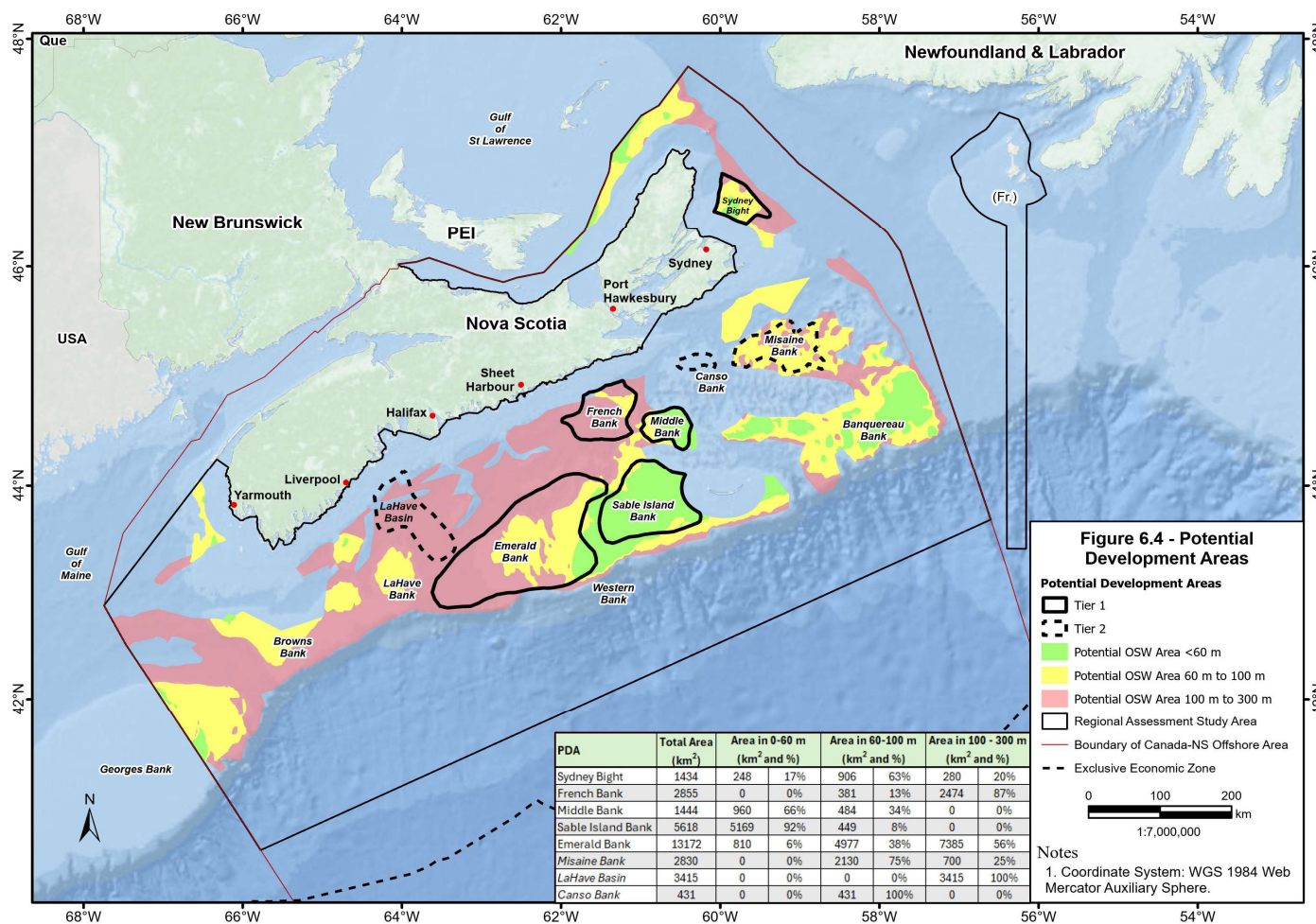
UNCLASSIFIED - NON CLASSIFIÉ



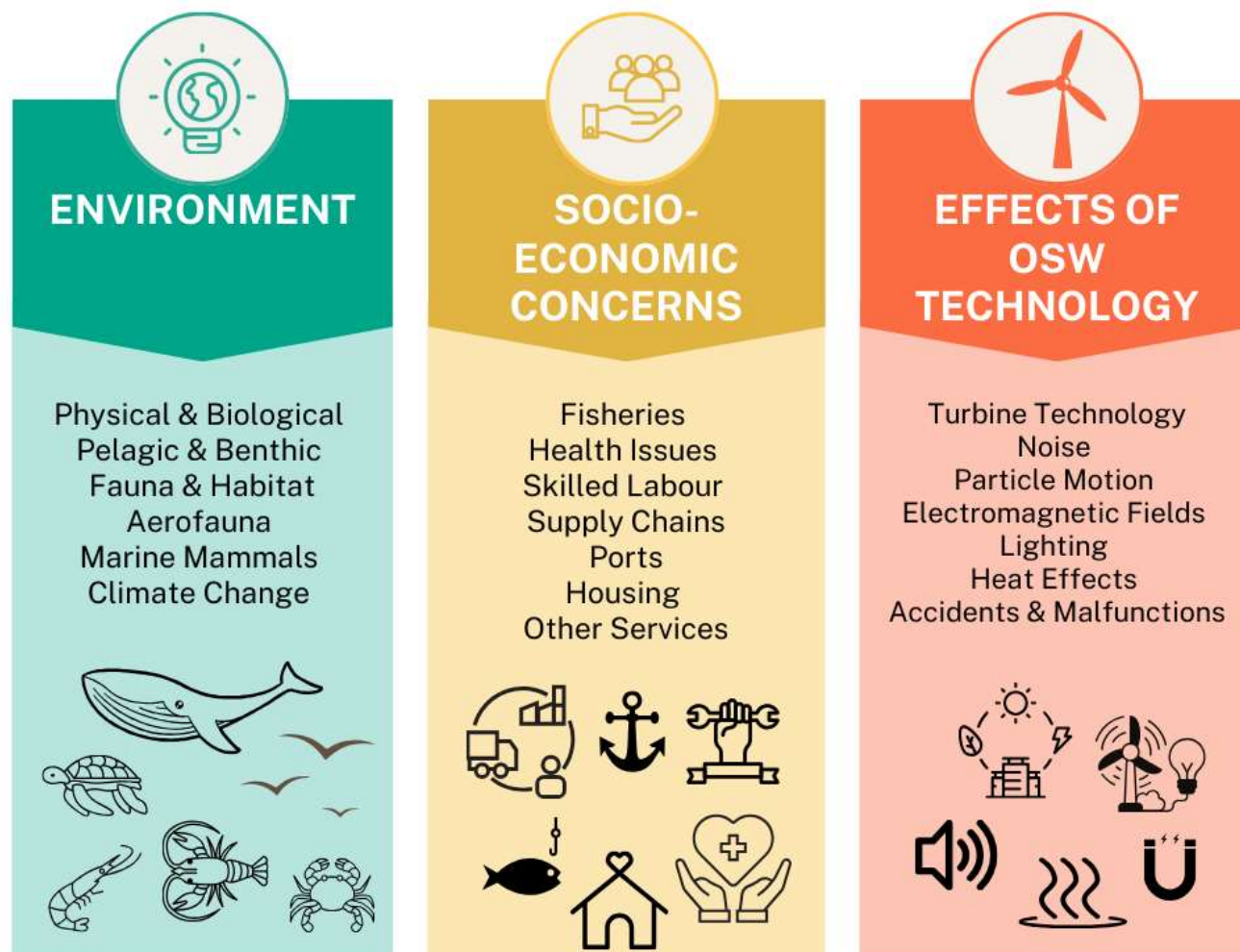
Constraint: Commercial Fisheries and PDAs



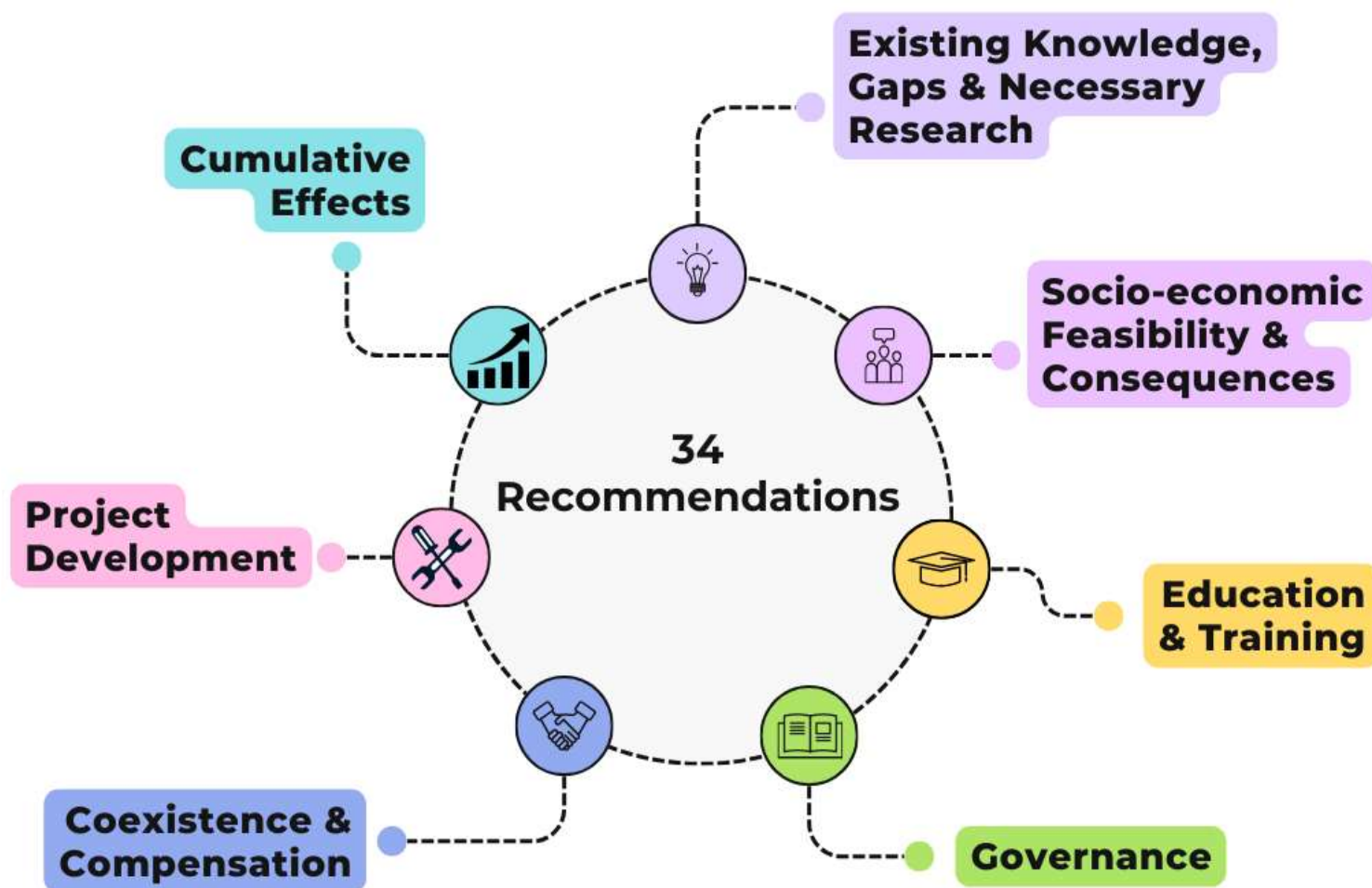
Potential Development Areas (PDAs)



Data & Knowledge Gaps



Recommendations



Theme 1: Existing Knowledge, Gaps and Necessary Research

T1-1, 3 & 6	Develop a Scotian Shelf Collaborative Research Initiative (SSCRI) & Create a shared repository of data and sources & Support for development of environmental and analysis of data within the RA Study Area
T1-2 & 5	Fund Mi'kmaw Ecological Knowledge Studies (MEKS) & Provide funding to Mi'kmaw organizations for research on adaptive management
T1-4	Provide support for ongoing research in federal departments on modelling and marine spatial planning
T1-7	Open discussions with the State of Maine to contribute to and develop a mutually supportive research agenda associated with their proposed floating OSW test site
T1-8	Establish Participant Funding to last at least five years



Photo credit: Apoqmatulti'k.



Theme 2: Socio-economic Feasibility and Consequences

T2-3

Adopt a regional/national planning approach for the provincial OSW Roadmap

T2-4 & 7

Initiate socio-economic studies for key communities including disadvantaged & vulnerable groups

T2-5 & 6

Engage the Departments of Education and Early Childhood Development and Skills, Labour and Immigration in the evolution of the OSW Roadmap & includes consideration of recruitment programs



Theme 3: Project Development

T3-1	The establishment of a 25 km coastal buffer zone
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T3-3(a)-(f)	Development of bid criteria and bidder pre-qualification
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T3-5	Requirement for adequate security related to abandonment and decommissioning activities
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Theme 6: Governance

- | | |
|------|--|
| T6-4 | Consider requiring all vessels to have an approved vessel tracking system installed and operating while in the RA Study Area |
| T6-5 | Government departments to review their management and regulatory processes |
-



Theme 7: Education and Training

T7-1 Nova Scotia Department of Education to work with elementary, middle and high schools, colleges and universities to develop curriculum, educational and training programs related to OSW and other renewables

T7-2 Nova Scotia Department of Education to develop curriculum for new upskilling, retraining and micro-credential programs to enable the current marine workforce to transition into new roles in support of OSW development



Photo credit: Aberdeen Science Centre.



Photo credit: IQTC.

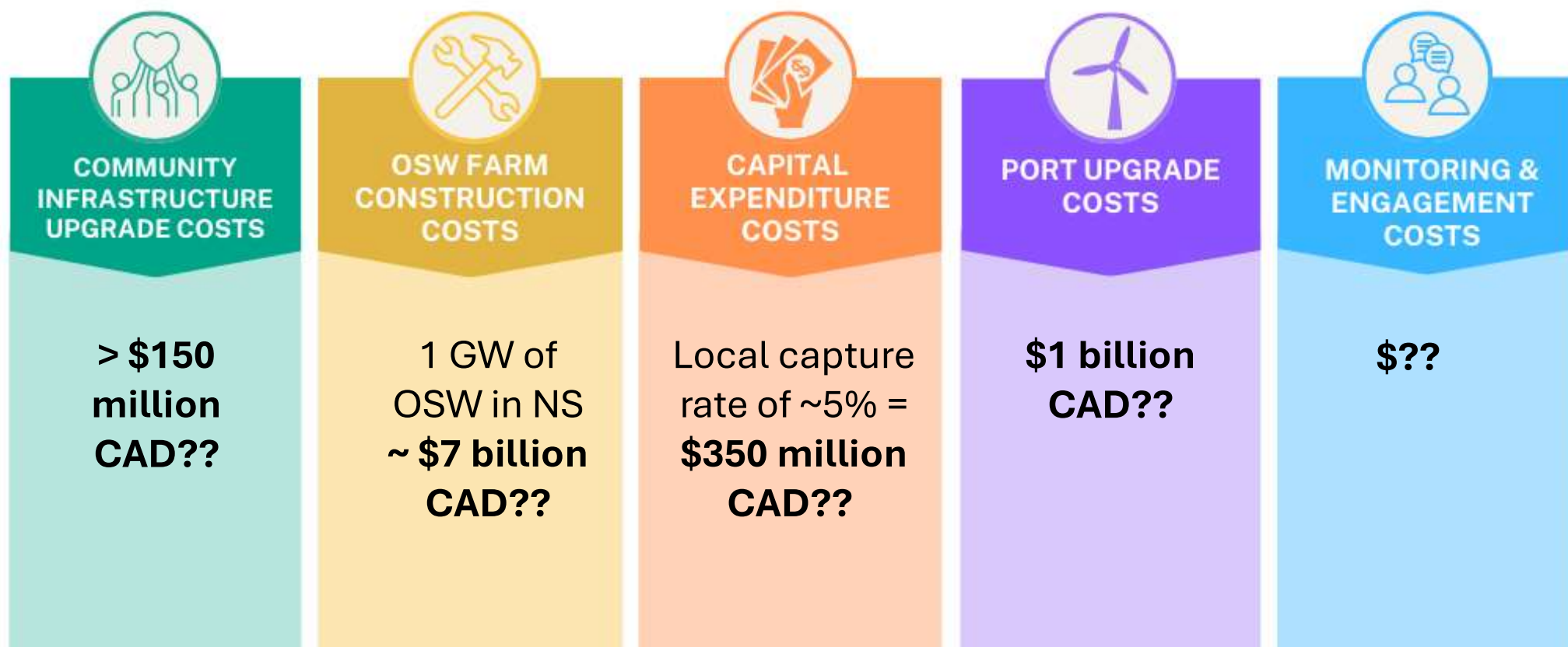
Cost of Industry Development

Varies depending on:

- scale and predictability of industry,
- supply chain availability,
- size, location and timing of projects,
- location of ports and their associated upgrades,
- grid connection, among others.



Estimations of Development Costs in Nova Scotia



Reality Check!

*“Nova Scotia cannot undertake an OSW project of this magnitude on its own. It is unlikely even the combined resources of Atlantic Canada will be sufficient. Rather, **leveraging this opportunity will require a national-level consolidation of resources** and industry development strategy, as well as an **innovative international trade agreement on OSW with the United States** to facilitate resource sharing along the east coast of North America, from the Chesapeake up through the Gulf of Maine and the Atlantic shores of Nova Scotia.”*

~ NS RA Committee, Draft Final Report. Pages 295-296



Final Remarks

*"The last temptation is the greatest treason:
To do the right deed for the wrong reason."*

~ T.S. Eliot (*Murder in the Cathedral*)