

**REGIONAL ASSESSMENT OF OFFSHORE OIL AND GAS EXPLORATORY DRILLING
EAST OF NEWFOUNDLAND AND LABRADOR**
Technical Advisory Group (TAG) Session on Climate Change
September 17, 2019
QUESTIONS AND ITEMS FOR DISCUSSION
PARTICIPANT INPUT FORM

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1) Are there any particular information sources or analysis (such as climate change projections) that you think should be accessed and used in the RA?

www.canada.ca Canadian Environmental Sustainability Indicators
 ① Greenhouse gas emissions Report April 2019
 ② Global greenhouse gas emissions Report April 2019
 www.exec.gov.nl.ca
 ③ Historical GHG Emissions Summary NL (1990-2017)

⊕ Operators can provide fuel usage for marine transport pieces which can be converted to CO₂e.

2) Are there any specific environmental phenomena or changes resulting from climate change that you feel are already having (or will likely have) an effect on the environmental conditions of the Study Area that should be a focus of the RA? In particular, any with implications for the potential environmental effects of future exploratory drilling activities in the Study Area?

3) Are there any particular environmental components and conditions that will likely change over the course of an exploratory drilling program and which therefore require consideration in its initial and on-going planning and implementation? To what degree can such changes likely be anticipated and addressed in initial planning and design, or is an "adaptive management" approach required?

Increased storm events

4) Do you have any suggestions around how the RA should consider climate change in its content and outcomes, including in the eventual recommendations of the Committee?

See back page.

- It is our belief based on the data that exploration drilling & potential for increased production will not significantly ↑ the GHG emissions.

If including future production in review then
 - Consideration should be given to NL Carbon Pricing Plan & the Mgmt of GHG Act requirements which include reduction targets & opportunity to avail of GHG reduction fund.

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5) Do you have any other input or recommendations that you would like to provide to the Committee on this topic?

- Run scenarios to show climate change impacts
- How do ~~the~~ ^{you} tease out climate change impacts caused by global climate change vs. NL oil & gas.?

⊗ ~~the~~ Consideration should be given to carbon leakage if we do not ^{complete} exploration/production in countries with lower environmental standards.

- New production facilities would be more efficient than previous ones & have gov't imposed reduction targets.

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- Based on Report ② Canada makes up 1.6% of Global GHG emissions (2014 dataset, expect to be similar in 2019 if not lower).

- Based on Report ① NL makes up 1.4% of Canada's GHG emissions & this translates to 0.01% of Global GHG emissions

- NL offshore is a subset of NL's total GHG emissions based on Report ③. It is listed as 1.5MT CO₂e of NL's 10.5MT CO₂e which is 10% and this also includes mining. (0.001% of Global).

- Exploration drilling ~~is a subset~~ ^{would be a} much smaller subset of the total 1.5MT.
 (maine: transportation not included)

- Thus ~~any~~ the increase in GHGs from exploration ~~transportation~~ would be negligible to the Global GHG emissions and Canada's total & very small increase for NL.
 (not a large part of drilling GHG emissions)

- If production ↑s 3x as per Advance 2030. then the emissions would go from 1.5 to 4.5MT (worst case) this would increase Canada's emissions from 716 to 720MT. (~~0.001%~~ 0.6%).