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Progress on ECCC's contribution to a new initiative component that focuses on marine vessel emissions and mitigations in the Salish Sea.

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SALISH SEA INITIATIVE – MARINE EMISSION REDUCTIONS

Progress on ECCC's contribution to a new initiative component that focuses on marine vessel emissions and mitigation in the Salish Sea.

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Salish Sea Ecosystem Conference

April 2020 – Virtual

THE PROJECT - OVERVIEW

- On February 22, 2019, the National Energy Board (now the Canada Energy Regulator or CER) submitted its Reconsideration Report on the Trans Mountain Expansion (TMX) project, with an overall recommendation that the project is in the Canadian public interest and should be approved, subject to 156 conditions and 16 non-binding recommendations. These are intended to mitigate, avoid or lessen potential effects associated with the project and related marine shipping.
- The Government of Canada is implementing eight accommodation measures as well as programs that respond to the 16 recommendations. Part of the focus of the program responding to recommendation 1 will be on the cumulative effects of marine vessel air quality and greenhouse gas (GHG) emissions in the Salish Sea.
- The project described in this presentation falls under this element of the response to Recommendation 1 and supports the Salish Sea Initiative and Recommendation 10.
  - Information on the TMX recommendations can be found here
  - Information on the TMX accommodations can be found here

THE PROJECT - MILESTONES

- Key milestones for the project:
  - Launch public portal of Marine Emissions Inventory Tool (MEIT)
  - Engage Indigenous groups in use of the tool to better understand marine shipping emission impacts in the Salish Sea
  - Investigate and develop voluntary options and recommendations for reducing marine vessel emissions in the Salish Sea (in coordination with Transport Canada)
  - Implement projects for reducing emissions from marine vessels in the Salish Sea
  - Participate in monitoring efforts for Environmental Assessments (EAs) which result in increased shipping in the Salish Sea

- To achieve the milestones ECCC has five main areas of focus:
  - Map/inventory of Proposed Projects
  - Research/Case Studies
  - Grant funding
  - Marine Emissions Inventory Tool
  - Indigenous Workshops

MAP/INVENTORY OF PROPOSED PROJECTS

- ***Goal:*** To have a greater understanding of the current and proposed marine vessel traffic and cumulative effects on air quality and GHG emissions.
- ***Summary:***
  - Creation of an inventory of all Environmental Assessments (EAs) with a marine vessel component in the Salish Sea region that are proposed, newly approved, or recently constructed.
  - The inventory contains general project description (including location), marine vessel movements and types of vessels, air quality and GHG emissions.
  - This inventory will be turned into an interactive map.
  - Existing marine traffic will also be included at a later date, using existing information sources (Marine Emissions Inventory Tool/Port) with the goal of identifying any gaps in information (i.e., small vessel activity in the Salish Sea)
  - With this information, future projects with marine components can easily be compared to currently proposed or recently approved projects and allow for a more comprehensive cumulative effects analysis.
- ***Status:*** This inventory is nearly completed. The map is planned to be completed this year. Once these are completed they will be made public.

CASE STUDIES:

STUDY #1 - NORWAY

- ***Goal:*** to investigate ways other jurisdictions are reducing emissions from marine vessels and if those can be implemented in the Salish Sea.
- ***Summary:***
  - The first case study is currently being conducted by the National Research Council of Canada (NRC) and is focused on Norway.
  - The research will provide information on the marine vessel impacts in the Port of Oslo and what initiatives, regulations, and projects unique to Norway that enable the jurisdiction to reduce emissions from marine vessels
  - The research will then be compared to the Salish Sea to see if any of the emission reduction strategies implanted in Norway could also apply to the Salish Sea.
- ***Status:*** the report on Norway will be completed by the end of Spring. Identifying any of the initiatives from Norway that could be implemented in the Salish Sea will start following the completion of the Norway study.

GRANT FUNDING

- ***Goal:*** Reduce emissions of domestic / return-to-base vessels in the Salish Sea
- ***Summary:***
  - Under this Project ECCC expects to receive grant funding every year for next 4 years
  - Anyone operating a domestic / return-to-base vessel or fleet in the Salish Sea will eligible to apply for this funding.
  - The funding will be used for conducting a feasibility study on how a fleet may be able to reduce emissions or be used for direct emission reductions (ex., changing to a cleaner technology or fuel)
- ***Status:*** ECCC plans to post Request for Proposals before the end of the Spring with instructions and criteria for applying for the funding.

MARINE EMISSIONS INVENTORY TOOL (MEIT) – PUBLIC PORTAL

- ***Goal:*** Launch a public portal for MEIT and roll out updates to MEIT
- ***Summary:***
  - ECCC has developed the Marine Emissions Inventory Tool which calculates historic GHG and air pollutant emissions from vessels operating in Canadian waters, including domestic and international vessels.
  - The public portal can be found here.
  - MEIT data will also be used in doing further analysis on the cumulative effects of marine vessel emissions in the Salish Sea.
  - As the TMX/Salish Sea Project continues, MEIT will be updated as needed to account for any new information.
- ***Status:***
  - The public portal launched in September 2019.
  - ECCC plans to develop forecasts for marine emissions in future years, but this has been delayed due to the unknown impacts of the COVID-19 crisis on the demand for shipping.
  - ECCC is working on producing annual reports for each year of data currently in MEIT with the goal of posting these publically this fiscal year.
  - ECCC is currently updating MEIT to include more recent years of data (2017 and 2018) with the goal of having it available this fiscal year.

INDIGENOUS WORKSHOPS

- ***Goal:*** Engage with Indigenous groups in the use of the Marine Emissions Inventory Tool (MEIT) to better understand marine shipping impacts in the Salish Sea.
- ***Summary:***
  - ECCC plans to provide workshops to any interested Indigenous group on what MEIT is, how to use it, and what the information means.
  - ECCC also plans to provide information on the project inventory/interactive map at these workshops (see slide 4).
- ***Status:***
  - Indigenous Engagement for the whole of the TMX project will be rolled out together and these workshops will be combined with that larger engagement.
  - Dates for these workshops have not yet been set, however the goal is to start having the workshops this fiscal year if possible/COVID-19 dependent.

FUTURE WORK/RESEARCH

- ECCC plans to investigate additional ways to reduce marine vessel emissions and evaluate cumulative effects in the Salish Sea. Examples of proposed future work and research areas:
  - Link NRC's research on Norway to the Salish Sea.
  - Research another leading jurisdiction in marine vessel emission reductions (ex., California).
  - Research new and emerging technologies that could be applied to home bound fleets in the Salish Sea that would reduce emissions.
  - Inventory of the smaller home-bound fleets that do not have Automatic Identification System to include in MEIT.
  - Investigate ways to coordinate with other emission reduction initiatives in the Salish Sea.

CONTACT INFORMATION

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