# Public Notice

# Ivory Island Lightstation – New Wind and Solar Energy System

# Public Comments Invited

**December 13, 2022** - The Fisheries and Oceans Canada must decide whether the New Wind and Solar Energy System, located at Ivory Island Lightstation on the west coast of British Columbia, is likely to cause significant adverse effects.

To help inform this decision, Fisheries and Oceans Canada is inviting comments from the public on the project and its potential effects on the environment. All comments received will be considered public. For more information, individuals should consult the [Privacy Notice](https://www.ceaa-acee.gc.ca/050/evaluations/Protection?culture=en-CA) on the Registry website.

Written comments must be submitted by **January 14, 2023** to:

# Emily Sapsford, Project Engineer

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# Assessment Summary

# DFO and CCG are proposing to install a renewable energy system at the Ivory Island Lightstation. The lightstation is staffed by two lightkeepers 24/7 as per maritime safety requirements. Currently, the station is powered by diesel fuel powered generators, which supply electricity to the three residences, radio communication equipment, weather monitoring system, and the many other buildings and assets on station. The proposed design was chosen as a means to reduce the fuel consumption on site by incorporating renewable sources of energy.

# This proposed project involves the installation of 2 arrays of Solar Panels with supporting concrete footings with a footprint of approximately 26m x 12m, as well as two 3kW wind turbines with 2.2m x 2.2m concrete foundations. The new infrastructure will be connected to an energy storage system comprised of batteries and inverters, housed in the existing Engine building.

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# Ground disturbance is expected in the areas where concrete foundations will be laid, as well as the conduit lines. A series of cable trays of 125m in length will be installed alongside the walkways from the proposed solar array to the Engine Building where the battery banks will be stored. The cable trays will be raised and secured to the existing walkway or drilled into bedrock where required.

# Helicopter slinging will be used to mobilize and demobilize equipment with the support of a tug and barge.

# Project Locations

# The Ivory Island Lightstation is located approximately 22 kilometers northwest of Bella Bella, B.C.

# and approximately 1.5 hectares in size. It can be accessed by ship offshore or by helicopter only. The light tower is recognized as a Federal Heritage Building through the Lighthouse Protection Act.

# Coordinates Latitude: 52ᵒ16’11”N

# Longitude: 128ᵒ24’23”W