# Public Notice

Green Island Lightstation – Wind and Solar Renewables Project

# Public Comments Invited

November 10, 2021 - The Fisheries and Oceans Canada must decide whether the proposed installation of a renewable solar and wind energy system, located on Green Island, B.C. is likely to cause significant adverse effects.

The project is being re-posted due to a scope change. To help inform this decision, Fisheries and Oceans Canada is inviting comments 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 **December 10, 2021** to:

Emily Sapsford

Project Engineer

Fisheries and Oceans Canada, Pacific Region

Real Property, Safety and Security

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# Assessment Summary

# DFO and CCG are proposing to erect two miniature 9 metre wind turbines, a gravel maintenance pad and install an electrical raceway as a required component of the new wind and solar renewable power system at Green Island Lightstation. Foundations for the wind turbines and solar panels have already been poured. Green Island is currently powered exclusively by diesel fuel. Renewable energy technology has advanced through recent years. Reliability and efficiency have made large improvements since early versions. In efforts to reduce fuel consumption, ease the load on the diesel generators on site, and reduce the carbon footprint of the lightstation, DFO is proposing to install a hybrid renewable power system consisting of solar panels and wind turbines. The completion of this project will allow the lightstation to function on renewable energy and contribute to the Government of Canada’s Greening Government Strategy of achieving net-zero operational emissions by 2050. The proposed construction will involve the installation of:

# • (2) 4” diameter electrical conduit, (2) 3” diameter electrical conduit, and (1) 1” diameter electrical conduit, at least 0.75m underground and at least 0.5m above ground. The total length of the conduit is 50 m;

# • Erection of (2) 9m wind turbine towers onto existing foundations;

# • Installation of a gravel installation pad;

# • Installation of (2) 200A fused disconnects fused at 40A for (2) wind turbines;

# • Installation of type (10) pull boxes;

# • Work is anticipated to take 12 days to complete with a crew of 4-5 workers;

# • Upgrades to battery room including lighting and ventilation; and,

# • Possible modifications to the solar panel foundations. In the event that additional concrete pouring is required, environmental mitigation measures will be implemented.

# The project works do require ground disturbance to connect the below ground power cable array from the solar panel and wind turbines to the Engine Room building. There is a potential of disturbing suspected subsurface contamination during the installation of the underground electrical conduit. Environmental mitigation measures will be applied to ensure disturbed soil is contained in the same general area of the site. Equipment will be helicopter slung onsite.

# Project Locations

The Green Island lightstation is located in Chatham Sound, about 35km northwest of Prince Rupert. The 2 – 2.5 hectare island consists mainly of rocky and sandy beaches and tall grass. The site is under the jurisdiction of DFO and CCG, and as such, is on federal land. The site is accessible by helicopter.

Coordinates:

Latitude: 54ᵒ34’06.99”N

Longitude: 130ᵒ42’31.5”W