



LOCATION British Columbia, Canada

DATE 2020

CLIENT Hartley Bay

EQUIPMENT Solar Series Permanent LED Wind Cone for Helipad Surface

APPLICATION Solar Series LED Wind Cone 24/7 Operations

SYNOPSIS

Aviation Renewables supplied a Solar Series Heliport Windcone as part of a heliport repair program for the Canadian Department of Fisheries and Oceans at a remote heliport on the coast of British Columbia. The Solar Series Heliport Windcone provides clear indication of wind direction and speed for helicopters, both night and day, 365 days of the year.

CHALLENGE

The existing helipad is located in a remote community that is only accessible via boat, helicopter or seaplane. The helipad was scheduled to be reconstructed to bring it up to current standards. As part of the reconstruction, the heliport was equipped with a lighted wind direction indicator to add enhanced conspicuity.



As the community is very remote, with limited electrical infrastructure, a solar powered solution was required. Due to the rugged mountainous terrain and the northern latitude, the available solar insolation was quite limited, leading to design challenges.



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PROJECT REPORT

SOLAR WINDSOCK LIGHTING FOR REMOTE HELIPAD ON THE COAST OF BRITISH COLUMBIA

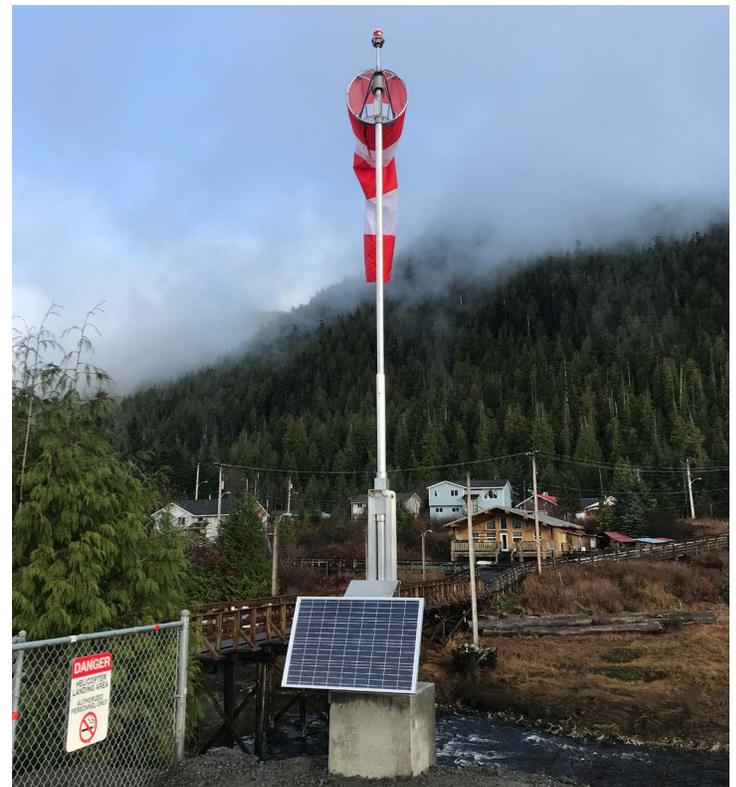
SOLUTION



The robust aluminum structure will not rust, and will provide years of service in the marine environment. There are only two maintenance items: The windsock fabric should be replaced every 2 years; and the battery should be replaced every 5-7 years. The Solar Series windsock will provide decades of service to the community, with many of the original windsocks still operational 40 years after manufacture.

The Solar Series Windcone was specially requested due to the ability to easily increase the solar charging capacity to combat the limited solar energy available. The windcone is easily mounted to a single concrete pad, which enabled the civil works contractor to quickly assemble and install the unit.

This version of the Solar Series Helipad Windcone was set up with dusk-to-dawn automatic operation, meaning the windcone will automatically illuminate in the evening, and turn itself off in the morning. The Windcone has a custom solar panel mount in order to maximize the collection of the available solar power in that region.



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