



aviationrenewables

PROJECT REPORT



LOCATION The Caribbean

DATE January 2015

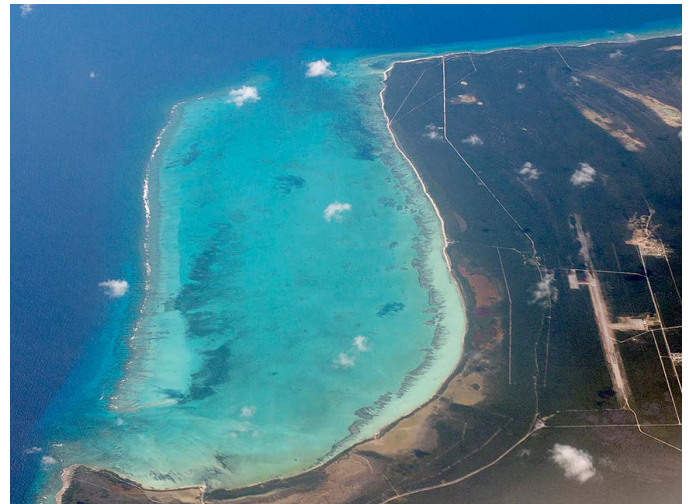
CLIENT International Airport

EQUIPMENT Solar Series LED Wind Cones
Solar LED Runway Lighting System

APPLICATION Solar Series LED Wind Cones
24/7 Operations

SYNOPSIS

Aviation Renewables designed and oversaw the installation of solar powered LED Wind Cones for an airport in The Caribbean. The system features Solar Series LED Wind Cones operating with a solar LED runway lighting system via a hand held radio controller. With an urgent need to be operational, the wind cones were installed in a single day with the solar runway lighting system installed and operational in less than 3 weeks time at a fraction of the cost compared to a conventional system.



CHALLENGE

A resort developer required a new airfield lighting system in order to accommodate night landings for medevac operations or during inclement weather for scheduled flights during the daytime. The Solar Series Wind Cone and solar airfield lighting system needed to be installed without disruption to air traffic while providing 24-hour access to and from the island. Due to local regulations, the wind cones and lights needed to be controlled by a ground-based controller, so only known aircraft would be able to utilize the runway lighting system. The developer enlisted Aviation Renewables to design, install, train and commission a complete turnkey solar LED airfield lighting system to accomplish these goals.

solarseries™

Web: www.aviationrenewables.com
Email: arc@aviationrenewables.com
Phone: +1 (250) 590 1272



SOLUTION

The rugged Solar Series Wind Cones will provide maintenance free operation while increasing airfield safety at both ends of the runway during night and daytime operations for years on end. A simple battery replacement every four to five years, and a windsock fabric change periodically is the only necessary maintenance. With an aluminum design, no rust or oxidation of the wind cones will take place in the humid tropical marine environment. In addition, a solar powered LED airfield lighting system will provide runway edge, threshold, taxiway and apron lighting for pilot landings and take offs. The entire solar LED airfield lighting system can be controlled from a single handheld controller, and can be customized to the customer's individual needs.

Aviation Renewables traveled to the remote family island and undertook installation guidance,

product training and system commissioning. As the system has multiple products and components from several different manufacturers, proper installation, training and testing was key in ensuring the long-term effectiveness of the system.

