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PROJECT REPORT

SOLAR POWERED WINDSOCKS INSTALLATION AT CARIBBEAN INTL AIRPORT



LOCATION The Bahamas

EQUIPMENT Solar Series LED Wind Cones

DATE 2025

APPLICATION Airfield Solar LED Wind Cones
24/7 Operations

CLIENT Lynden Pindling International Airport (NAS)

SYNOPSIS

Aviation Renewables supplied and installed four Solar Series LED Wind Cones at Lynden Pindling International Airport in Nassau, Bahamas. The project included replacing several grid-powered wind cones with solar-powered units.

The Solar Series Wind Cones were selected for their significant cost savings in both installation and for their long-term durability in harsh climatic conditions. The installation was completed in a single day, ensuring no disruption to airport operations while enhancing airfield safety and efficiency.



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CHALLENGE

Lynden Pindling International Airport desired an upgrade to its airfield wind cone system to improve durability in the salt-laden environment and reduce operational costs. The airport sought to replace several aging grid-powered wind cones with a more cost-effective, sustainable solution. LPIA is the busiest airport in the Caribbean, and as such needed to ensure there would be no interruption to air traffic during the installation work. Aviation Renewables was tasked with supplying, installing, and commissioning a turnkey solar-powered wind cone system to meet these objectives while ensuring compliance with international aviation standards.



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SOLUTION



The Solar Series LED Wind Cones provide a robust, maintenance-free solution, enhancing airfield safety at Lynden Pindling International Airport during both day and night operations. Designed with durable aluminum construction, the wind cones resist rust and oxidation in the humid, tropical environment. Maintenance is minimal, requiring only periodic battery replacement every four to five years and occasional windsock fabric changes. By replacing grid-powered units, the solar wind cones significantly reduced installation costs by eliminating the need for extensive electrical infrastructure and lowered ongoing operational expenses due to their energy-efficient solar design.

Aviation Renewables coordinated the supply and installation process, providing on-site guidance, staff training, and system commissioning. The rapid installation was completed in a single day, ensuring no disruption to airport operations. The system's reliability and cost-effectiveness make it an ideal solution for the airport's demanding operational needs, delivering long-term value and sustainability.



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