



aviationrenewables

PROJECT REPORT



LOCATION Southeast Africa

EQUIPMENT Solar Series Non Directional Beacon
Solar Series MAPPS Power System

DATE May 2011

APPLICATION NAVAID 24/7 Operations

CLIENT Airfield

SYNOPSIS

Aviation Renewables was tasked with the design of a Solar Series NDB powered by the Solar Series MAPPS system for an AC Non Directional Beacon with back up generator to provide 24/7 continuous operations for the Department of Civil Aviation Operation in the island.

CHALLENGE

The airfield was required to provide a ground based navigational aid operating from a Non Directional Beacon

completely powered by the Solar Series MAPPS due to the lack of power and communications on the island.



SOLUTION

Aviation Renewables and its global partner Systems Interface Ltd. teamed up to provide a Solar Series Non Directional Beacon for the Department of Civil Aviation Operation in the island. The North Island airfield required a Solar NDB, powered by the Solar Series MAPPS, to provide non-precision approach capability while operating independent of the electrical grid 24/7. With a remote location, the lack of electrical power and limited communications, a proven solution was required. Systems Interface carried out the civil works, installation and commissioning of the Nautel VR250 Vector Dual Solid State 250W NDB system.

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Aviation Renewables designed and delivered installation training for the Solar Series MAPPS power system, a self-contained solar power system designed to suit both the climate of the airfield and the power requirements of the NDB for continuous 24 hour operations. Operations Director, Paul Gurney said "Since 2009 SIL has successfully delivered three projects to the DCA and we are delighted to have received a fourth contract award and continue our on-going relationship with the DCA. SIL were chosen to deliver this complex and challenging project due to our proven high success rate."



Lying some 1100km north of the island territory it comprises two islands: North Island - 12.5 km long and 1.5 km wide, and the South Island - 7km long and 4.5km wide. The North Island has one landing strip used by light aircraft. With no harbour, visiting provisions ships have to anchor in the high sea at about 500m from the North Island's jetty. The Islands will benefit greatly from the solar powered system in both ecological and financial terms.



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