

CASE STUDY

Solar Airfield System

Airfield Lighting Solutions

*Belle Glade Municipal Airport, Florida
U.S.A.*



Avlite[®]
www.avlite.com



Avlite Systems is an international designer & manufacturer of complete aviation lighting systems; airfield, heli & obstruction

We believe technology improves navigation™

Project Overview

Application:

Airfield Lighting for Municipal Airfield

Product:

AV-70 Taxiway/Runway/Threshold Lights, Solar Powered Lighted Wind Cones, Solar Powered Pilot Activated Lighting Control (PALC), Ground Mounting System

Location:

Belle Glade, Florida U.S.A.

Site:

Belle Glade Municipal Airport

Owners:

City of Belle Glade, Florida

Date:

January 2017



Operating, Installation & Maintenance Efficiencies for Municipal Airport

First Completely Solar Airfield Lighting System in State of Florida

Background

The initial project plan called for lighting the Belle Glade taxiway and runway following a runway paving project. The lighting would be added at an unspecified future date when funding was available; this was due to the high cost of installing a traditional hard-wired lighting system. Project engineering firm, Kimley-Horne, investigated the installation and operational cost efficiencies of Avlite's solar, pilot activated lighting system for Belle Glade.

The Solution

The Avlite total airfield solution provided substantial cost savings, and when combined with grant money from the State of Florida, Belle Glade Municipal Airport was able to include all of the airfield's lighting as part of the initial paving project.

Belle Glade now offers an enhanced flight experience for existing flight operations and anticipates expanding its general aviation business as well as attracting new charter services.

"The project provides quite an improvement. Prior to the runway improvements, the field had no lighting. We had planned to install traditional lighting on the runway at a later date, as funding allowed. Based on the limited use, lower cost, eliminating installation and maintenance of an electrical vault at an airfield with little expertise or maintenance resources, the Avlite system was the best alternative."

- Laurie McDermott, State of Florida
Department of Transportation - Aviation, District 4

Benefits

- Fast & easy to deploy - no conduit or trenching for wires
- Cost effective and efficient
- Long life expectancy and practically maintenance free
- Typical applications include: taxiway and threshold edge lighting
- On-demand pilot activation option
- FAA and ICAO compliant

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The total cost for *both* of Avlite's lighting design *and* construction was less than just the design costs of a conventional lighting system."

- Dave Bardt, Principal Sr. Vice President
Kimley-Horn and Associates, Inc.

Kimley»Horn



Above: Avlite's AV-70 White (runway) and AV-70 Blue (taxiway) are compact solar aviation lights. Completely self-contained, each light features two high performance solar panels within the lens to maximize solar collection, and a user-replaceable battery. Made from durable, UV stabilized LEXAN® polycarbonate and incorporating an internal photodiode for automatic night activation once the ambient light threshold drops, the AV-70 can be installed in moments.

Right: Avlite's illuminated, solar powered wind direction indicator ensures pilots can determine wind speed and direction at night or in foul weather.



Right: A solar Pilot Activated Lighting Control (PALC) system enables approaching aircraft to activate threshold, runway, taxiway and windsock lighting. Typically used at non-towered or infrequently used airfields, PALC lighting controls offer an economical advantage to maintaining 24/7 staff coverage as well as constantly lit night operations.



All Avlite Systems products are manufactured to exacting standards under strict quality control procedures. Avlite's commitment to research and development, investing in modern equipment and advanced manufacturing procedures has made us an industry leader in solar aviation lighting.

By choosing Avlite Systems you can rest assured you have chosen the very best.

Experienced & Trained Personnel

•
Worldwide Distribution Team

•
Agile Manufacturing

•
Product Innovation

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Precision Construction

•
Total Quality Management

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ISO9001:2008

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Rapid Turnaround



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