

# CASE STUDY

## SCOTLAND

### TIREE AIRPORT

#### PROJECT KEY FACTS

**Airport:** Tiree Airport

**Location:** Scotland

**Application:** Regional Airport

**Runway Length:**

Rwy 1: 1360 m

Rwy 2: 800 m

**Solution:** Permanent Solar Runway Lighting

**Products:** Solar Runway Edge Lights, Solar Threshold End Lights, LED PAPI, UR-101 Handheld Controller, OCT- 40 Charger

**Buyer:** Highlands and Islands Airports

**Year of Installation:** 2023



#### OVERVIEW

Tiree Airport, located in Northern Scotland, was in need of an upgraded lighting system. They had been using an outdated portable system that required constant recharging and lacked sufficient photometrical output.

After successfully installing the S4GA Solar System in Campbeltown Airport supported by Dewhurst Airfield Services, the HIAL (Highlands and Islands Airports) chose the same solution for Tiree.

#### CHALLENGE

One of the main challenges of this project was the airport's location on an island, making accessibility an issue for maintenance of a conventional lighting system. Additionally, Tiree experiences limited sun energy during the winter months, which posed limitations for a solar-powered system. However, considering the limited airport operations during winter, the airport accepted the operational limits of the Solar AGL system provided by S4GA.

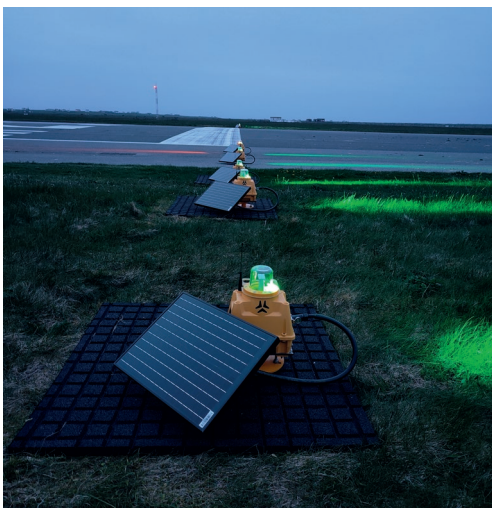
#### SOLUTION

Following the successful installation of S4GA Solar AGL at Campbeltown Airport, Airport Tiree recognized its effectiveness and made the decision to implement the same solution. For S4GA Solar Airfield Lighting, Tiree airport challenges are not a problem due to its unique features and capabilities.

- Despite the airport's location on an island, the system's design ensures accessibility for maintenance without the need for complex infrastructure typically associated with conventional lighting systems.
- Moreover, S4GA's Solar AGL system is designed to operate efficiently even with limited sun energy during the winter months, allowing it to meet the airport's requirements.
- The airport's acceptance of the operational limits during winter further demonstrates the flexibility and suitability of the S4GA solution for challenging environments.

#### S4GA LED PAPI IN THE UK

Notably, this project marks the debut of S4GA LED PAPI in the UK, a significant milestone. Prior to the system's official commissioning, the Precision Approach Path Indicator (PAPI) underwent a specialized "Flight calibration" to ensure precise visual guidance for pilots. S4GA has been positively approved! This meticulous testing further reinforces the reliability and exceptional performance of the S4GA system!



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## S4GA PRODUCTS

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**SP-401S SOLAR  
RUNWAY EDGE  
LIGHT W/W**

②



**SP-401S SOLAR  
RUNWAY  
THRESHOLD END  
LIGHT**

③



**SP-401S SOLAR  
TAXIWAY  
EDGE LIGHT**



**OCT-401  
CHARGER**



**UR-201 CONTROL  
& MONITORING  
UNIT**



**UR-101 HANDHELD  
CONTROLLER**



**UPS FOR PAPI**



**LED PAPI**

## APPLICATION PHOTOS

