CASE STUDY
SCOTLAND

CAMPBELTOWN AIRPORT

PROJECT KEY FACTS

Airport: Campbeltown Airport

Location: Scotland

Application: Regional Airport

Runway Length: 3 049 m

Solution: Permanent Solar Runway Lighting

Products: Solar Runway Edge Lights, Solar Threshold Lights, Solar Runway End Lights, Solar Threshold End Lights, Solar Taxiway Edge Lights, Solar Turning Pad Lights, ALCMS Basic, UR-201 Control & Monitoring Unit, UR-101 Handheld Controller, UR-3 Halogen PAPI Controller – Converter, OCT-401 Charger, Uninterruptible Power Supply (UPS) for PAPI Lights

Buyer: Highlands And Islands Airports Limited (HIAL)

Year of Installation: 2022

– OVERVIEW

S4GA supplied Solar Airfield Lighting to Campbeltown Airport in Scotland. The contract was executed by Dewhurst Airfield Services Ltd.

– S4GA SOLAR AGL FOR THE SCOTTISH AIRPORT

S4GA Solar AGL system replaced a previously used battery-power solution. The old system required a daily recharge, which was a time-consuming inconvenience for the airport team. Therefore, with the runway refurbishment project, Airport Operator decided to source a lighting system that, while being available 24 hrs per day, wouldn't need a daily recharge. The new runway lighting solution had also to be easy to install, wireless, and remotely controlled. After performing a feasibility study it was clear - S4GA Solar AGL proved to be the best solution. Not only it met all of the Customer requirements, but also proved to be a viable lighting system for the harsh Scottish environment.

– S4GA ALCMS AT CAMPBELTOWN AIRPORT

The S4GA Airfield Lighting Control and Monitoring System was installed at Campbeltown Airport alongside the S4GA solar technology. The system is designed to provide full remote control & monitoring of runway lighting.

CONTROL FUNCTIONS OF S4GA ALCMS:

- Grouping of entire airfield lighting in 3 major groups
- Control of entire lighting system and groups of lights
- 5-step intensity level setup for a particular group of runway lights and PAPI
- Operating modes setup: Visible, NVG, Remote, Autonomous)
- Timer setup (for VHF-activated and GSM-activated modes)

MONITORING FUNCTIONS:

- Individual light Status Monitoring
- Monitoring of UR-201 Control unit status

- The preventive Maintenance function allows for planning maintenance works for individual equipment items.

Moreover, ALCMS installed by the Campbeltown Airport allows to collect light information by S4GA headquarters in Poland. Thanks to this unique feature of our ALCMS, our Team can not only provide up-to-date technical support but also by collecting light data we can constantly improve our system and bring solar airfield lighting solutions to the next level.

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– S4GA PRODUCTS

SOLAR RUNWAY EDGE LIGHT W/Y

SOLAR RUNWAY EDGE LIGHT W/W

SOLAR RUNWAY THRESHOLD END LIGHT

SOLAR RUNWAY THRESHOLD LIGHT

SOLAR RUNWAY END LIGHT

SOLAR TAXIWAY EDGE LIGHT

SOLAR TURNING PAD LIGHT

ALCMS CONTROL & MONITORING SYSTEM BASIC

OCT-401 CHARGER

UR-201 CONTROL & MONITORING UNIT

UR-101 HANDHELD CONTROLLER

UPS FOR PAPI LIGHTS

UR-3 HALOGEN PAPI CONTROLLER – CONVERTER

– APPLICATION PHOTOS