

CASE STUDY

LITHUANIA

KAUNAS AIRPORT

PROJECT KEY FACTS

Location: Lithuania

Application: Domestic Airport

Solution: Solar Runway Lighting System

Products: Solar Runway Edge Lights, Solar Runway Threshold End Lights, Solar Taxiway and Apron Lights, UR-201 Control & Monitoring Unit, UR-101 Hand-held Controller

Buyer: Kaunas Municipal Government

Year of Delivery: 2019



OVERVIEW

S. Darius and S. Girėnas Airport (or Aleksotas Airport) is a domestic Lithuanian aerodrome located near the city of Kaunas. This is a civil airport which is primarily used by local flight schools and air clubs.

In 2017, local government decided to renovate airport for business and general aviation. The renovation program included installation of airfield lighting system at an aerodrome. The aerodrome was never equipped with any AGL system before.

CHALLENGE

The main challenge for airport management was to find cost-effective, and ICAO certified high-quality airfield lighting system. Due to limited budget set by government for this project, all offers received from suppliers of **traditional hard-wired runway lighting**, have been rejected. Airport budget was not enough for traditional wired runway lighting.

In the meantime, portable airfield lights –which were much cheaper - did not fit airport needs. Portable lights are designed for temporary usage, they require recharging from time to time. Whereas Kaunas Airport was looking for permanent lighting system. Airport management started looking for alternative solutions. They approached S4GA – EU-based manufacturer of certified airfield lighting systems – and requested the offer.

SOLUTION

S4GA offered **permanent solar runway lighting** system certified and compliant with ICAO regulations. The system is designed for permanent applications, it operates 365 days on solar energy. Control and monitoring of AGL is performed by UR-201 Unit installed in the ATC room. The Unit allows AGL **control from the ground and from the air**.

Installation of S4GA system was done by FIMA –one of the leading systems integrators working in Baltic Region. For this airport, FIMA engineers designed special mounting stakes for ground surface. It saved runway surface from drilling the holes for standard mounting plates.

The cost of S4GA solar airfield lighting was **few times less** than traditional cabled lighting. The Customer was satisfied with S4GA system in terms of both financial and technical outcome.



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S4GA PRODUCTS



**SOLAR RUNWAY
EDGE LIGHT**



**SOLAR RUNWAY
THRESHOLD END
LIGHT**



**SOLAR TAXIWAY
LIGHT**



**UR-201 CONTROL
& MONITORING
UNIT**



**UR-101 HANDHELD
CONTROLLER**

APPLICATION PHOTOS

