

# CASE STUDY

## CROATIA

### MALI LOŠINJ

# AIRPORT

#### PROJECT KEY FACTS

**Airport:** Mali Lošinj Airport

**Location:** Croatia

**Application:** Private Airport

**Runway Length:** 900 m

**Solution:** Permanent Solar Runway Lighting

**Products:** Solar Runway Edge Lights, Solar Threshold End Lights, Solar Taxiway Edge Lights, Solar Turning Pad Lights, ALCMS Basic, UR-201 Control & Monitoring Unit, UR-101 Handheld Controller, LED PAPI 230 VAC, UR-1 – ON/OFF Wireless Relay

**Installer:** Macula AERO

**Year of Installation:** 2023



#### OVERVIEW

Airport Mali Lošinj, a private airport, located on the island of Lošinj in Croatia, primarily handles local and charter flights, especially during the tourist season.

In 2023 the airport improved its operational capabilities by installing the S4GA Permanent Solar Runway Lighting System. The design, installation, and commissioning are done by **Macula AERO**, an aviation solutions company and S4GA partner in Croatia, to address specific operational needs of the airport, which serves as a gateway for tourists arriving from Zagreb.

#### CHALLENGE

The lack of a permanent lighting system restricted flight operations to daytime only. This constraint impacted the airport's ability to provide flexible travel options for its passengers, who often prefer to travel at various times of the day. The absence of adequate lighting also posed potential safety concerns and limited the airport's overall functionality.

#### SOLUTION

After careful consideration, the S4GA Solar Permanent Runway Lighting was confirmed as the optimal solution to overcome the airport's challenges.

Before completing the full installation, the airport tested solar equipment under the **S4GA Free Trial Program** to assess the solar system's performance in actual conditions.

The successful trial convinced the airport's administration of the system's reliability and efficiency in providing consistent and strong lighting essential for safe airport operations. As a result, the airport decided to acquire the S4GA Solar Runway Lighting System.

The new runway lights setup at Airport Mali Lošinj allows night-time operations for aviation enthusiasts and HEMS operation. Together, it gives operational flexibility and supports the island's tourism industry.

#### OFFICIAL APPROVAL BY CROATIAN CAA

This installation marked the first solar-powered Airfield Lighting System approved by the Croatian Civil Aviation Authority, emphasizing its compliance with stringent aviation safety standards.

The S4GA Permanent Solar Runway Lighting System at Airport Mali Lošinj is an achievement, that improves operational capacity and establishes the airport as a leader in sustainable aviation technologies in Croatia. This project sets a standard for other regional airports, showcasing the benefits of innovative and eco-friendly solutions in airport infrastructure.



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## S4GA PRODUCTS



SOLAR RUNWAY  
EDGE LIGHT W/W



SOLAR RUNWAY  
EDGE LIGHT W/Y



SOLAR RUNWAY  
THRESHOLD END  
LIGHT



SOLAR TAXIWAY  
LIGHT, TURNING  
PAD LIGHT



LED PAPI  
POWERED BY  
230 VAC



ALCMS CONTROL  
& MONITORING  
SYSTEM BASIC



UR-201 CONTROL  
& MONITORING  
UNIT



UR-101  
HANDHELD  
CONTROLLER

## APPLICATION PHOTOS

