

CASE STUDY ETHIOPIA SEMERA AIRPORT

PROJECT KEY FACTS

Airport: Semera Airport

Location: Ethiopia

Application: Regional Airport

Runway: 2 500 m x 45 m

Solution: Permanent Solar Runway

Lighting

Products: Solar Approach Lights, Solar Runway Edge Lights, Solar Threshold Lights, Solar Runway End Lights, Solar Taxiway Lights, Solar Turning Pad Lights, ALCMS Advanced, UR-201 Control & Monitoring Unit, OCT-401 Charger, UR-1 Wireless Controller

Customer: Ethiopian Airlines

Year of Installation: 2021





OVERVIEW

S4GA supplied Solar Airfield Lighting System to Semera Airport in Ethiopia. The solution is used at the Ethiopian Airport on a permanent basis. It is for the second time that Ethiopian Airlines – the Airport Operator, decided to go solar with S4GA runway lighting for its projects.

CHALLENGE

The main challenge for the Airport in choosing AFL was to get around the problem of unreliable electrical power supply in the region – which bring a high risk of a blackout scenario. The expensive and time-consuming installation of airfield lighting was another challenge that had to be solved. After careful examination of the Airport's requirements, it was obvious that conventional wired runway lighting wouldn't meet any of them. At that point, the Airport's Authority started looking for alternative solutions.

SOLUTION

Among key factors that pointed to S4GA as the best fit for the Semera Airport, should be mentioned:

- Good experience with S4GA in 2018 Ethiopian Airlines acquired S4GA Solar Runway Lighting for its other airport located in Jijiga.
- Airfield lighting operates 365 days a year on solar energy solely no need for an electrical power supply
- Low Investment S4GA Solar system cost is 30% lower compared to conventional airfield lighting
- Fast project implementation
- Only minimum maintenance which takes less than 1% of the AGL system's total cost
- Compliance with international aviation standards such as ICAO, FAA, NATO STANAG



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S4GA PRODUCTS



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SOLAR APPROACH LIGHT

SOLAR RUNWAY EDGE LIGHT W/W

SOLAR RUNWAY EDGE LIGHT W/Y

SOLAR RUNWAY THRESHOLD LIGHT









SOLAR RUNWAY END LIGHT

SOLAR TAXIWAY

SOLAR TURNING PAD LIGHT

OCT-401 CHARGER



ALCMS CONTROL & MONITORING SYSTEM ADVANCED



UR-201 CONTROL & MONITORING UNIT



UR-1 WIRELESS CONTROLLER

APPLICATION PHOTOS





