

# CASE STUDY MALDIVES DHAALU AIRPORT

## PROJECT KEY FACTS

**Airport:** Dhaalu Airport

**Location:** Kudahuvadhoo Island, Maldives

**Application:** Regional airport  
located on remote island

**Runway:** 1 800 m x 30 m

**Solution:** Complete Solar LED Airfield  
Lighting System

**Products:** Solar Runway Edge Lights,  
Solar Runway Threshold End Lights,  
Solar Taxiway Lights,  
Solar PAPI, Solar Engine for PAPI,  
UR-201 Control & Monitoring Unit,  
ALCMS Basic

**Year of Installation:** 2016



## OVERVIEW

Dhaalu Airport is a category 3C domestic airport located in Kudahuvadhoo Island. Airport is designed to accommodate DASH-8, ATR – 72 & 42 Aircraft and private jets.

The airport was developed by reclaiming land from the Dhaalu Kudahuvadhoo lagoon and according to local news sources, approximately USD 20 million were invested in the project.

## CHALLENGE

Airport managing company has been working toward design of conventional lighting system with one of Maldivian engineering companies. After design phase has been accomplished it turned out that valuation of the system significantly exceeded airport budget planned for AGL. In order to find more affordable solution airport started looking for alternatives.

## SOLUTION

S4GA company responded with an offer to supply a complete solar LED airfield lighting system to Dhaalu Airport. As a result:

- Budget required for S4GA solar AGL system was lower than for conventional lighting.
- Airport is located in the area where electricity can only be produced by diesel generator which is expensive and not ecofriendly. S4GA solar lighting operates 365 days on solar energy.
- S4GA solar AGL has 5-level protection against system failure which minimizes the risk of total AGL breakdown; in case of any light(s) malfunction, airport personnel is immediately notified by SMS about the problem and which lamp has a problem.

The system is compliant with ICAO Annex 14, all required certificates and technical specifications were provided accordingly. S4GA solar AGL has been approved by Maldivian Civil Aviation Authority.



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## S4GA PRODUCTS

①



**SOLAR RUNWAY  
EDGE LIGHT**

②



**SOLAR RUNWAY  
THRESHOLD END  
LIGHT**

③



**SOLAR TAXIWAY  
LIGHT**



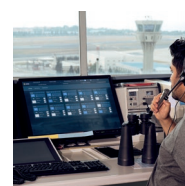
**SOLAR PAPI  
LIGHT**



**SOLAR ENGINE  
FOR PAPI**



**UR-201 CONTROL  
& MONITORING  
UNIT**



**ALCMS CONTROL  
& MONITORING  
SYSTEM BASIC**

## APPLICATION PHOTOS

