WORLD'S SAFEST RUNWAY LIGHTING



CASE STUDY NORTH AFRICA REMOTE MILITARY AIRBASE

PROJECT KEY FACTS

Airport: Military Airbase

Location: North Africa

Application: Military airport located in African desert

Solution: Solar LED Airfield Lighting System

Products: Solar Runway Edge Lights, Solar Runway Threshold End Lights, Solar Taxiway Lights, PAPI, Solar Engine for PAPI, UR-3 PAPI Controller-Converter, Solar Wind Direction Indicator, Taxiway Retro Reflective Markers, UR-201 Control & Monitoring Unit, ALCMS Basic, OCT-401 Chargers, Airfield Lighting Layout

Year of Delivery: 2019





OVERVIEW

S4GA supplied complete permanent solar airfield lighting system to military airbase located in African desert. This is the second project that S4GA did for the current Customer.

In 2015 S4GA delivered solar airfield lighting system to their another air base. The Customer was satisfied with S4GA products and, few years later, they requested S4GA for the second solar AGL system.

CHALLENGE

According to Customer's requirements, airfield lighting system had to be delivered and installed within only 4-week time. Traditional hard-wired runway lighting is impossible to install in such short period of time. Thus, the Customer started looking for alternative solutions.

Another challenge was lack of reliable constant power supply in the region. For airport it means sudden interruptions in airfield lighting work and acquisition of additional power generators to secure such interruptions.

SOLUTION

S4GA solar airfield lighting system has been already recognized as the best solution for remote airfields among civil and military customers.

S4GA lighting does not require any electrical infrastructure - the system **operates 365 days on solar** energy. No cables, CCRs, transformers, or any other electrical network is needed which makes installation of S4GA system much faster and easier than traditional hard-wired lighting.

Airfield lights are equipped with built-in power banks providing high level of autonomy of the lights. Each light is also connected to individual optimally tilted solar panel. In this way, every lighting unit in S4GA system has its own distributed power source and is independent from the other units. Due to power balance between energy consumed by lamps and energy produced by solar panels, S4GA solar AGL does not require any additional power sources except the sun.

S4GA runway lighting was manufactured, delivered and installed at the airbase within 4-week time as required. Now airbase is ready for night flight operations.

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S4GA PRODUCTS



SOLAR RUNWAY

THRESHOLD END

LIGHT



SOLAR TAXIWAY

LIGHT



TAXIWAY EDGE RETRO REFLECTIVE MARKER



PAPI LIGHT

SOLAR RUNWAY

EDGE LIGHT W/W





SOLAR ENGINE

FOR PAPI



WIND DIRECTION INDICATOR





& MONITORING

SYSTEM BASIC

UR-3 PAPI

CONTROLLER-

CONVERTER

UR-201 CONTROL ALCMS CONTROL & MONITORING UNIT

CHARGER



S4GA AIRFIELD LIGHTING LAYOUT



APPLICATION PHOTOS

