

CASE STUDY

CANADA

ELLIOT LAKE AIRPORT

PROJECT KEY FACTS

Airport: Elliot Lake Airport

Location: Canada

Application: Regional Airport

Runway: 1 371 m x 30 m

Solution: Permanent Solar Runway Lighting

Products: Solar Runway Edge Lights, Solar Threshold End Lights, Solar Taxiway Lights, Solar Engine, UR-101 Handheld Controller, UR-201 Control & Monitoring Unit, ALCMS Basic Control & Monitoring System, UR-3 PAPI Controller, UR-1 WDI Controller

Buyer: Elliot Lake City Council

Year of Installation: 2021



OVERVIEW

Elliot Lake Airport is a municipal aerodrome offering passengers, cargo, and air ambulance services.

In 2020 City Council issued a tender for a new airfield lighting system. After careful consideration, S4GA solar lighting proved to be the best fit for the Canadian Airport.

Approach Navigation Systems (S4GA exclusive distributor in Canada) has won the tender and successfully installed the Solar Lighting and ALCMS.

CHALLENGE

Elliot Lake Airport struggled with almost 40 year's old wired RWY lighting consisting of 113 conventional lights connected by 3,000 meters of underground wires. The system has been showing its insufficiency with lights no longer working due to the underground cable splicing.

At that critical point, the Airport started looking for innovative, reliable, yet cost-efficient solutions, that would replace the faulty wired system. In 2020 City Council issued a tender for a new airfield lighting system. In choosing the tender's winner, the government considered many factors that concluded in indicating S4GA as the lonely company that can provide a permanent solar solution capable to operate 365 days in Canada.

SOLUTION

S4GA offered a solar airfield lighting system that proved to meet all the Airport's criteria:

- Fast and easy to install
- Simple to maintain
- Operating 365 days on solar energy
- Real-time Individual Light Status Monitoring
- Remote activation and control
- Suitable for the harsh Canadian environment (limited solar potential, negative temperatures)

Moreover, saving expenses on underground cables, transformers, and ground digging works covered the cost of LED solar lights batteries that would come with a full 5-year warranty.



CASE STUDY CANADA ELLIOT LAKE AIRPORT

S4GA PRODUCTS

①



**SOLAR RUNWAY
EDGE LIGHT**

②



**SOLAR RUNWAY
THRESHOLD END
LIGHT**

③



**SOLAR TAXIWAY
LIGHT**



SOLAR ENGINE



**UR-201 CONTROL
& MONITORING
UNIT**



**UR-101 HANDHELD
CONTROLLER**



**ALCMS CONTROL
& MONITORING
SYSTEM BASIC**

APPLICATION PHOTOS

