

S4GA OFF-GRID AIRFIELD LIGHTING LED TO

DATE: AUGUST 2016

OPEN NIGHT TRAINING FOR PILOTS IN JUST ONE DAY

Flight training organisation gained ability to perform night flying training on its own airfield.

SUCCESS
STORY



FLIGHT TRAINING ORGANISATION

(further FTO) is a part of the School of Higher Education in Chelm (Poland). It trains students to become airplane and helicopter pilots. The license range includes PPL, CPL(A), CPL(H), MEP(L) and IR(A)



CHALLENGE

FTO operates its own airfield (ICAO code: EPCD). 18 months ago they have decided to upgrade existing lighting system due to its poor technical condition. They required ICAO compliant equipment in order to secure safety of night training.



OUTCOME

After exchanging an old existing lighting infrastructure for S4GA remotely activated off-grid lighting system, FTO gained ability to perform flight trainings on its arfield in just one day.



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FLIGHT TRAINING ORGANISATION CHALLENGES:



FTO had previously been using an old portable lighting system. FTO's management decided to upgrade outdated lighting because it:

- no longer provided visibility range sufficient for night training.
- required significant maintenance to keep working

FTO problems:

FTO was looking for low-cost alternative for conventional cable lighting



Traditional lighting was not a good fit due to high investment cost and expensive maintenance



Installation of traditional cabled lighting was too expensive.

Budget required to implement conventional cabled airfield lighting was too high. Because of the grass runway it would require constant and costly maintenance of entire infrastructure (cables, joints, CCR, transformers, etc.)



Conventional lighting requires airfield to invest to keep it in proper condition

Cable lighting is a complex system that requires permanent monitoring performed by qualified engineering personnel. Poor quality of any component of the system may lead to system failure. Failure diagnostics is time consuming.



SOLUTION:

After careful market research FTO management has chosen S4GA off-grid lighting as low-cost alternative for conventional cable lighting system. S4GA lighting system has been chosen because of:



Low cost of installation and zero operating costs

Autonomous lighting significantly decreases cost of airfield lighting installation. There is no need to invest and maintain electrical infrastructure



Quick installation

Installation of S4GA lighting takes only one day.



Air-band remote activation

S4GA lighting system can be remotely activated via air-band radio from distance of 15-20 km. Operating frequency is customizable and can be selected from the range of 118-136 Mhz. Lights are activated by 3, 5 or 7 clicks of PTT-button.

FTO requirements:

It must secure safety of night rating training

It must deliver proven visibility range compliant with ICAO regulations

It must be remotely activated by air-band radio

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Our practical experience with S4GA lighting has proven its reliability and low maintenance.

Our instructors and pilots are satisfied with visibility range provided by the lights.

