WORLD'S SAFEST RUNWAY LIGHTING



SAGA CARBON MPACT

ON AIRPORTS INDUSTRY

CARBON FREE BY 2050

Global airports industry is experiencing total revision of its goals, priorities, and growth strategy related to climate changes we are facing today. With reaching high standards in safety and reliability of airport technologies over the last few decades, the priority was given to saving our planet by going green in all possible ways.



55 airports mapped their carbon footprints

 $\begin{array}{c} \textbf{40} \text{ airports actively} \\ \textbf{reduced their } \textbf{CO}_2 \\ \textbf{emissions} \end{array}$

 $\begin{array}{c} \textbf{15} \\ \textbf{airports reduced their} \\ \textbf{CO}_2 \text{ emissions \& engaged} \\ \textbf{others to do so} \end{array}$



A big step forward in this trend was the launch of Airport Carbon Accreditation in June 2009 and signing NetZero2050 Agreement between over 200 European airports.

The highest level of carbon management under Airport Carbon Accreditation is carbon neutrality. In order to reach it, airport has to reduce CO2 emissions as much as possible, and compensate for the remaining residual emissions with investment in high-quality carbon offsets.

Europe remains the most active region of Airport Carbon Accreditation. Currently, there are 161 accredited airports in Europe, 51 of them are carbon neutral.

ICAO, the main global aviation regulatory body, supports airports in their carbonfree management by providing a series of practical and ready-to-use information documents to support the planning and implementation of airport infrastructure projects that envisage significant environmental benefits.

ICAO identifies several renewable energy options available for airports: solar, wind, biomass, hydro and geothermal.



SOLAR ENERGY IMPACT

Solar energy is one of the renewables constantly growing in demand by aviation industry.

Following a year of stable demand, the solar PV market increased 12% in 2019 to a record 115 GW (direct current), for a total of 627 GW.



GIGAWATTS OF ENERGY ARE CONSUMED ANNUALLY BY INT'L AIRPORT

Solar power allows airports to cover the major part of their annual electrical energy needs and reduce CO2 emissions accordingly. Installation of photovoltaic solar farms, and switch to solar-powered electrical equipment - such as runway lighting – brings international airports in Europe as well as in the rest of the World few steps closer to its carbon neutrality.



TONS OF CO2 EMISSIONS CAN BE REDUCED WITH SOLAR POWER

400

SOLAR AIRFIELD LIGHTING



Airfield lighting is one of the airport's most common energy uses at airside. About € 100 000 are spent annually by an average European international airport on powering its airfield lighting system.

Luckily, we have today a solar solution that can cover airfield lighting energy needs and reduce CO2 emissions for up to 100%.





100% REDUCTION OF CO2 EMISSIONS ON AIRFIELD LIGHTING

Runway lighting powered by solar energy is becoming a standard permanent solution for regional and domestic airports. More than 500 airports are using solar runway lighting as a primary illumination on their airfields.

In the meantime, international airports are entering this tendency by adding solar AGL as backup solution or going to hybrid power supply system.

Solar runway lighting not only reduces CO2 emissions completely, but increases safety of airport flight operations.

ABOUT S4GA



WORLD'S SAFEST RUNWAY LIGHTING



GOVERNMENT-OWNED



CERTIFIED

S4GA is the world's leading manufacturer and supplier of certified permanent solar-powered airfield lighting systems. The Company is an ISO 9001:2015 certified manufacturer owned by Polish Government.

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S4GA SOLAR INSTALLATIONS WORLDWIDE













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