



Solar-powered airfield lighting system operating independently from the electrical grid

Making Airports Greener with Solar Airfield Lighting

As airports around the world make decisions about acquiring and deploying new equipment, sustainability has become a top priority. Airport operators are increasingly looking for solutions that not only meet operational needs but also contribute to environmental goals. One such solution is <u>solar-powered airfield lighting</u>, which aligns perfectly with the growing trend towards achieving net-zero carbon goals.

S4GA: Paving the Way for Sustainable Aviation

Infrastructure

S4GA offers a solar-powered airfield lighting solution that is helping airports worldwide reduce their carbon footprints. This sustainable technology is already being successfully implemented by hundreds of airports, allowing them to meet their energy needs without relying on non-renewable resources.



By transitioning to solar-powered airfield lighting, airports are taking significant steps towards a greener future.



The Push for Net-Zero Emissions in Aviation

S4GA's solar airfield lighting is under testing by one of the African airports

In 2009, ACI EUROPE introduced the <u>Airport Carbon Accreditation program</u>, setting a global standard for carbon management in airports. This initiative laid the groundwork for the <u>2021 Net</u> <u>Zero by 2050 Agreement</u>, uniting airports around the world in their commitment to achieving net-zero carbon emissions by 2050. To meet these ambitious goals, airports are focusing on energy efficiency, utilizing

on-site renewables, and reducing reliance on grid power. S4GA's solar airfield lighting directly supports these efforts by providing an efficient, self-sustaining alternative to traditional lighting systems.

S4GA's Contribution to Carbon-Free Airports

- Renewable Solar Energy: S4GA's lighting systems harness solar energy, reducing reliance on fossil fuels and minimizing pollution. Solar power, an abundant and renewable resource, helps airports significantly decrease their environmental impact.
- Eliminating Grid Electricity Dependence: Traditional airfield lighting systems require significant electricity, often sourced from the grid. In contrast, solar AGL eliminates the need for grid power, reducing local energy demand and lowering overall carbon emissions.



S4GA SP-401 solar runway threshold end light



Real-World Impact of S4GA Solutions

S4GA's solutions are already helping airports around the globe achieve their sustainability goals:

- **Tefé Airport, Brazil**: In partnership with <u>VINCL Airports</u>, Tefé Airport installed S4GA's solar-powered airfield lighting system in 2024, supporting Brazil's commitment to reducing carbon emissions.
- Fortescue, Australia: As part of its decarbonization efforts, Fortescue upgraded the mining airstrip at <u>Fortescue Dave Forrest Airport</u> with S4GA's solar lighting, further advancing its goal to decarbonize iron ore operations by 2030.
- **Tiree Airport, Scotland**: Tiree Airport, managed by <u>Highlands and Islands Airports</u> <u>Limited (HIAL)</u>, has embraced sustainable practices by adopting S4GA's solar-powered airfield lighting. This initiative aligns with the UK's broader aviation sustainability efforts.

These projects are just the beginning. With more airports adopting solar lighting systems, S4GA is helping lead the way toward energy-efficient, environmentally responsible airport operations.



S4GA solar AGL installed at one of the Scotland airports



Measure Your Impact with S4GA's Free Trial Program

To help airports assess the environmental benefits of solar lighting, S4GA offers a Free Trial Program. Airports can receive a complete set of solar airfield lights to test at their facility for six weeks, allowing them to measure the carbon savings and operational performance in real-world conditions. This risk-free trial helps airports make informed decisions as they transition to more sustainable lighting solutions.

<u>Contact Us</u> today to learn how S4GA's solar airfield lighting can help your airport reduce its carbon footprint and contribute to global sustainability efforts.

