

Solar CAT I Airfield Ground Lighting

ICAO-compliant alternative
to **conventional systems**



MEETS STANDARDS

Without cables,
Power stations,
Complex infrastructure



Solar CAT I Simple, Reliable, Compliant

Delivers full performance **without**
costly infrastructure.



Proven Solar Technology



70+ countries



365 days
energy availability



Operates
in any climate

Which **Airports** Is It For?

Solar CAT I is designed for airports that
face **real-world operational challenges**

- Low-traffic airports with **formal CAT I** lighting requirements
- **Remote or hard-to-access locations** with unreliable power supply
- Sites with **limited personnel**, reactive maintenance, and no system monitoring



ICAO-Compliant

Meets all ICAO CAT I performance standards on photometrics, control, and redundancy.



Solar High-Intensity Runway Lights

Each light is powered
by Solar Engine Mini



Solar CAT I Approach Lighting

Entire approach bar is powered
by Solar Engine Compact




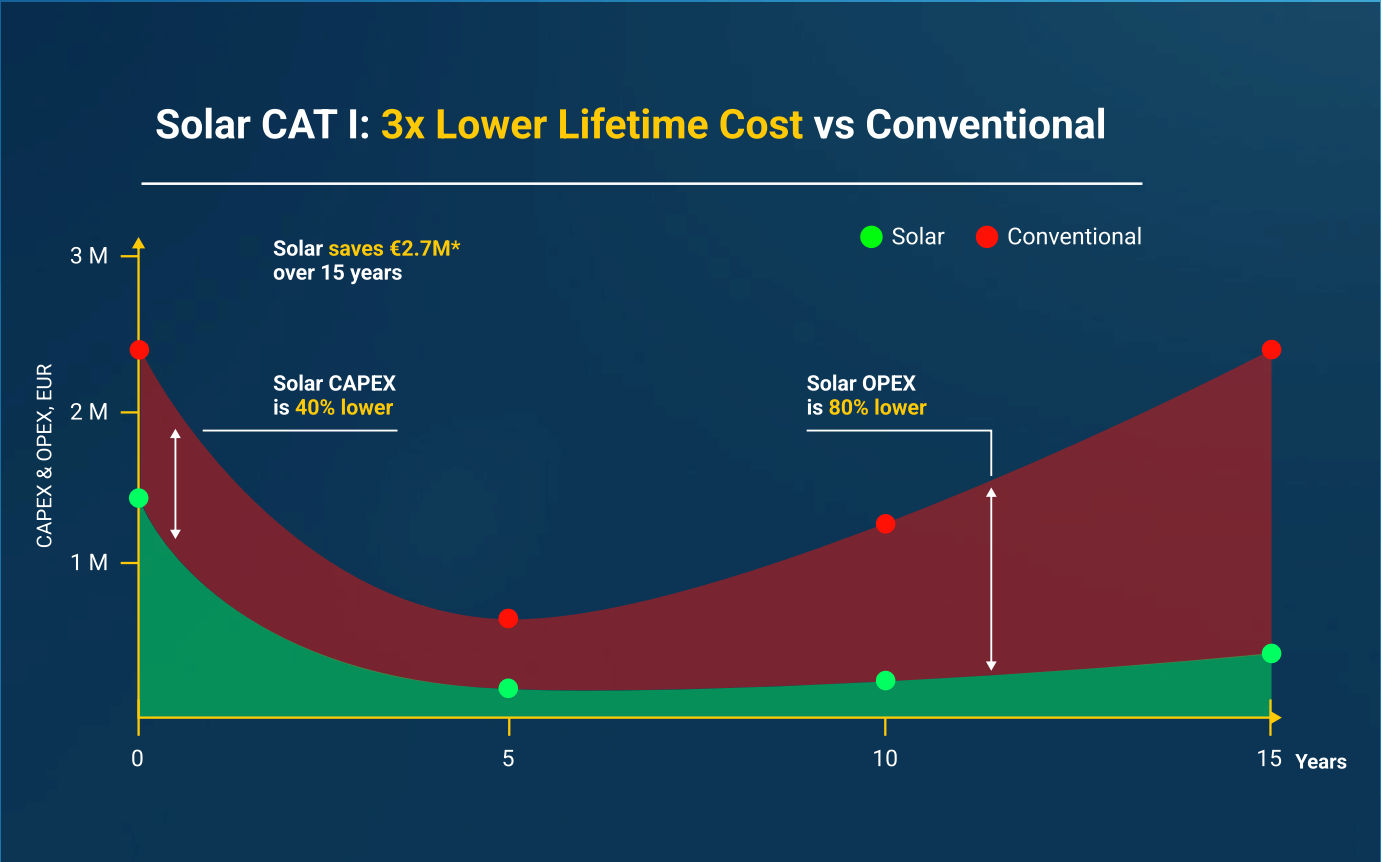
Fail-Safe **Wireless**
Control System

Solar CAT I

Lower Cost, Higher Value

How is it **different from conventional** systems?

	Conventional	 Solar
ICAO CAT I	Compliant	Compliant
Capital Expenditures (CAPEX)	\$\$\$\$	\$\$
Maintenance Cost	7% total cost p.a.	0.5% total cost p.a.
Deployment Time	6-12 months	1-2 months
Safety	1 level	5 levels
Blackout Risk	High	Ultra low



*3,000 m runway: high intensity runway lights + single-ended CAT I approach + 2x PAPI + small taxiway

How **Solar CAT I** Delivers ROI?

- Lower CAPEX
- No grid dependency
- No downtime losses
- Minimal maintenance
- 15+ years system lifespan
- Predictable budget

40% Lower CAPEX

- No trenching, no ducting
- No cabling, no CCRs
- No power substation
- No backup generators
- Scalable deployment

80% Lower OPEX

- Zero electricity bills
- Zero fuel consumption
- No CCR overhauls
- No cable insulation testing
- No technician call-outs
- Remote monitoring via ALCMS

100% Reduced Disruption Costs

- No emergency repairs
- No total runway outages
- No reactive maintenance
- Proactive issue detection by ALCMS
- Predictable OPEX

Proven Solar Technology

Tested in
70+ countries

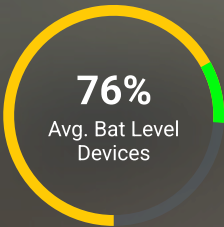





 Airports with installations



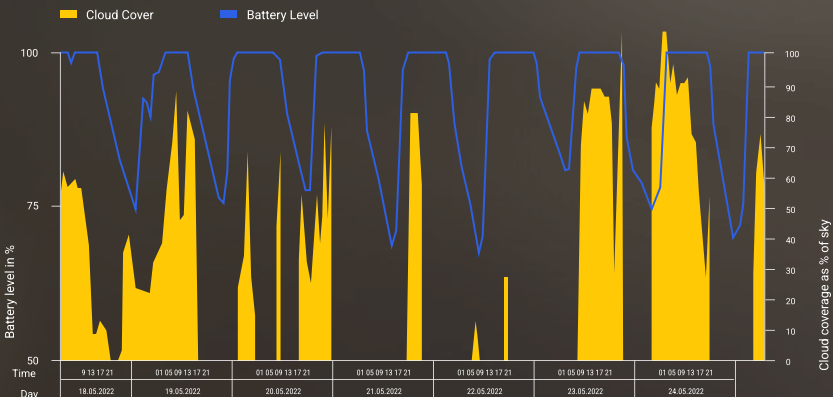
Proven in all weather
Reliable performance in **rain**,
fog and **low visibility**

20M+
monitored operating hours



 **57 sec ago**
Last Update
 **686 days**
Replace Battery
 **34°C**
Avg. Temp
Devices

Battery Level vs. Cloud Cover History



Backed by **real-time data** from
thousands of in-field units

Run a **Free Trial**

Test Solar CAT I in your local climate and conditions. See **how it performs** where it matters most.

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