

# CASE STUDY BRAZIL TEFÉ AIRPORT

## PROJECT KEY FACTS

**Airport:** Tefé Airport

**Location:** Brazil

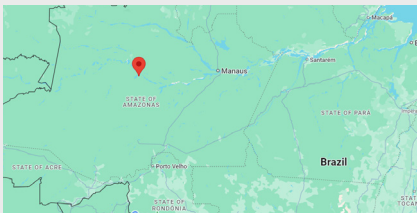
**Application:** Regional Airport

**Runway:** 2 200 m

**Solution:** Permanent Solar Airfield Lighting

**Buyer:** VINCI Airports

**Year of Installation:** 2024



## OVERVIEW

In 2024, Tefé Airport, a crucial regional hub in Brazil, advanced its sustainability efforts by installing S4GA's Solar Airfield Ground Lighting (AGL) system.

This project was initiated by VINCI Airports, a global leader in airport management, as part of their ongoing commitment to reducing their carbon footprint and enhancing sustainability and cost-effectiveness across their operations.

VINCI Energies managed the installation, ensuring a smooth and timely execution.

## SOLUTION

S4GA's Solar AGL system was the ideal choice for Tefé Airport, offering:

- **Environmental Impact:** Aligns with VINCI's sustainability objectives, significantly reducing carbon emissions.
- **Cost Efficiency:** Solar energy leads to lower operational costs and long-term savings.
- **Advanced Technology:** The inclusion of the S4GA ALCMS ensures precise control and monitoring, enhancing operational efficiency.
- **Regulatory Compliance:** Successfully passed ANAC's initial inspections, paving the way for final approval.
- **Efficient Installation:** VINCI Energies ensured a seamless installation process, minimizing disruptions to airport operations.

## APPROVED BY BRAZILIAN ANAC



The primary challenge of this project was navigating the regulatory landscape in Brazil. The Agência Nacional de Aviação Civil (ANAC), Brazilian national civil aviation authority, had not previously approved solar-powered runway lighting for commercial airports.

To address this, S4GA initiated a pilot program at Manaus Airport in collaboration with VINCI Airports. After successful trials, the results were presented to ANAC, demonstrating the system's reliability and safety. Based on these results, ANAC approved a trial at Tefé with ongoing inspections for the first year.

The project has already passed the initial commissioning inspection, a significant milestone in gaining ANAC's full endorsement.

The Tefé Airport project demonstrates how S4GA Solar AGL can effectively meet stringent safety standards, even within a complex regulatory framework. S4GA's system not only supports VINCI's environmental goals but also proves that solar-powered runway lighting is a viable, cost-effective solution for the future of aviation in Brazil.



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## S4GA PRODUCTS



SOLAR RUNWAY  
EDGE LIGHT W/W



SOLAR RUNWAY  
EDGE LIGHT W/Y



SOLAR RUNWAY  
THRESHOLD END  
LIGHT



SOLAR TURNING  
PAD LIGHT



SOLAR TAXIWAY  
EDGE LIGHT



AIRFIELD WIND  
DIRECTION  
INDICATOR



SOLAR ENGINE  
MINI



SOLAR ENGINE  
OPTIMA



OCT-401  
CHARGER



ILLUMINATED  
TAXIWAY  
GUIDANCE SIGNS



ALCMS CONTROL  
& MONITORING  
SYSTEM



UR-201 CONTROL  
& MONITORING  
UNIT



UR-101 HANDHELD  
CONTROLLER

## APPLICATION PHOTOS

