

PHILIPS

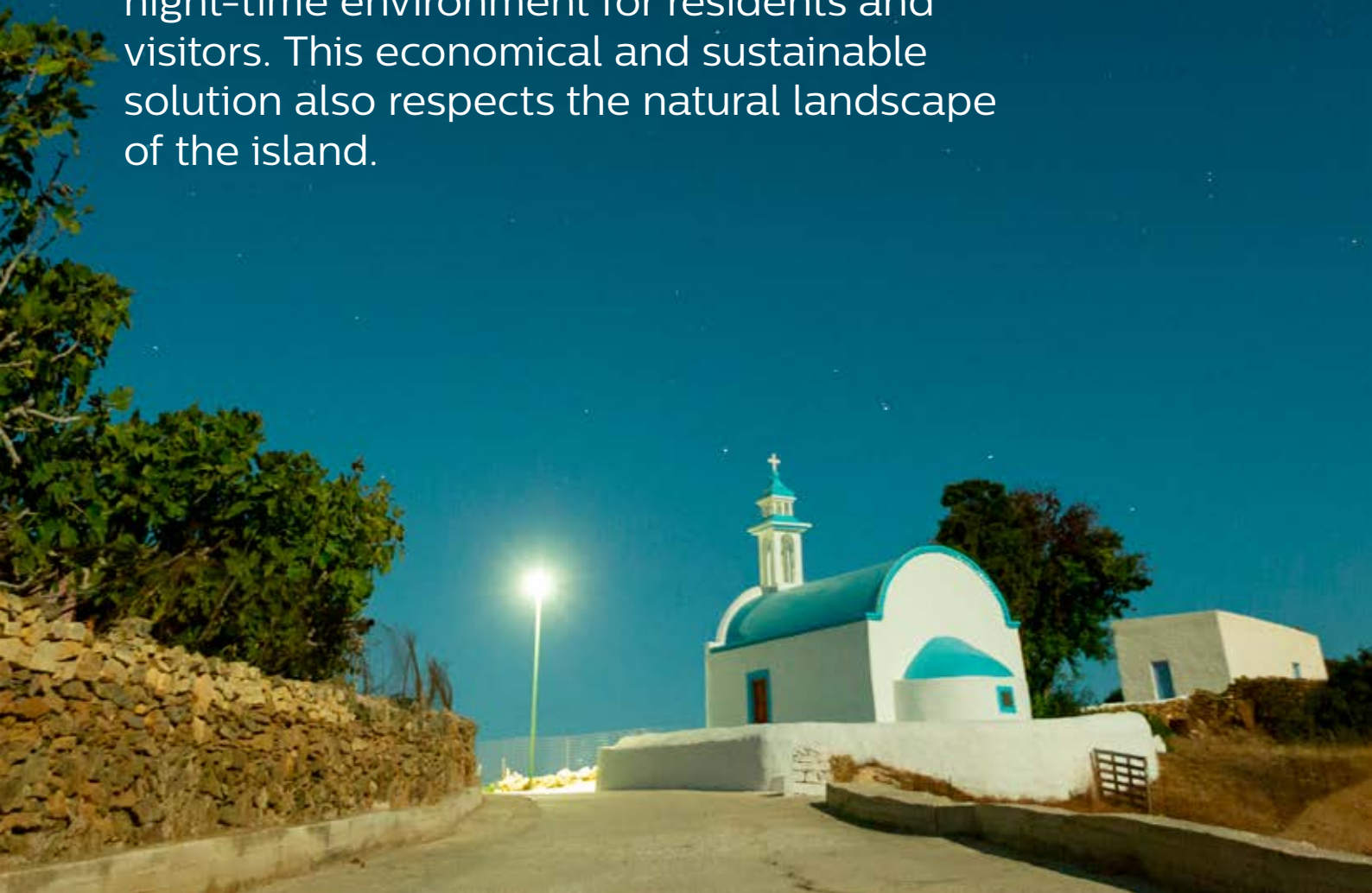
Solar lighting


SunStay

Case study

Lighting Leipsoi with SunStay

The Greek island of Leipsoi has installed 28 Philips SunStay autonomous solar luminaires, creating a safer and more useable night-time environment for residents and visitors. This economical and sustainable solution also respects the natural landscape of the island.





A natural sense of safety and style with LED solar powered streetlights



Customer challenge

The island of Leipsoi, in the Greek Dodecanese, needed to introduce night-time street and area lighting to a number of communities, including the childrens' playground area, to improve safety and useability. As with any island, imported energy is expensive, but an additional challenge was that the island's electricity grid does not always follow the street layout, making mains connection difficult and expensive.

At the same time, islanders wanted installations that would be aesthetically compatible with the natural landscape, and a level of lighting that, while effective, would not overwhelm the beautiful night skies.

The answer was the installation by Signify, the world leader in lighting, of 28 solar-powered Philips SunStay autonomous LED luminaires, providing what Mayor Fotis Mangos describes as "a very effective, very functional, and highly aesthetically compatible" solution.



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The lights have such an aesthetic design that they **blend in seamlessly with our island's natural landscape**”

Fotis Mangos
Mayor, Municipality of Leipsoi

The SunStay solution

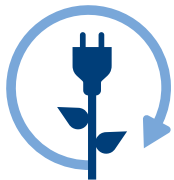
SunStay solar luminaires combine the photovoltaic array, charge controller, battery and LED light source in a single, compact housing, making for an elegant and unobtrusive luminaire that is completely autonomous from the external electricity grid. Installation is thus inexpensive and straightforward with no requirement for trenching, cable runs and electrical connections.

The luminaires on Lespoi have been fitted with Passive Infrared (PIR) sensors, which detect the approach of pedestrians or vehicles and automatically increase the light level to the maximum 3,000 lumens from a background level just 30% of that. This gives islanders a sense of safety while minimizing light pollution; it also means that the high efficiency (175 lumens/Watt) LEDs will operate for two full nights without receiving any solar energy, easing maintenance and optimising battery life.

As a result, confirms Mayor Fotis Mangos, not only was initial installation straightforward and inexpensive, but “we manage to have extremely low maintenance costs, and almost no operating costs since we do not pay for electricity”.

The Leipsoi installation demonstrates our commitment to sustainability and to climate action, while providing communities with the security that results from high-quality solar lighting.

All-in-one, integrated and autonomous Philips SunStay streetlights save on trenching, cabling and connection costs, reduce carbon footprint and lower capital expenditure, maintenance and operational costs. SunStay provides an output of 3,000 lumens of warm light, with an efficacy of 175 lm/W.



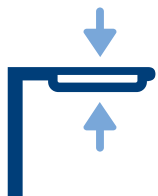
Savings

Maximize return on investment (ROI) by eliminating the cost of tubing, connections and cabling, while enjoying zero energy consumption.



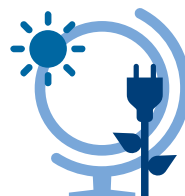
Durability

SunStay's battery can power it continuously for 24 hours, equivalent to more than two night's lighting. In addition, its motion sensor optimizes overall consumption.



Simplicity

Solar panel, luminaire, charge controller and battery combined in a single housing means Philips SunStay streetlights are compact and easy to install and maintain even in off-grid locations.



Sustainability

SunStay supports your commitment to sustainability and respect for the environment. It uses renewable solar energy, creates zero emissions and is completely silent.



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