

Guaranteed light every night

State of the Art technology

POWER 365

Ultimate Solar Lighting TECHNOLOGY BY FONROCHE

OFF-GRID SOLAR
STREETLAMPS

Complete Smartlight range

FONROCHE
solar lighting

A revolution in solar lighting
A Worldwide expertise in renewables

Improving the energy efficiency of public street lighting is a key concern and a major challenge. Leveraging our expertise as an energy producer and our flair for innovation, the Fonroche group, through our Fonroche Solar Lighting subsidiary, has developed a complete range of off-grid solar streetlamps.

The French-made Smartlight products, offer high output, long illumination times, and a unique 365 nights autonomy. Manufactured at our facility in SW-France, Fonroche Smartlight solar streetlamps are in a class of their own on the market today! This high-tech solution offers a real alternative to grid-connected lighting.



An international group

A major player in renewable energies, the Fonroche group has a breadth of expertise in photovoltaic energy, off-grid lighting, biogas and high-temperature geothermal energy.

Headquartered in South-West France, Fonroche manages all aspects of the projects for private and governmental clients. From manufacturing to installation, operation, maintenance, support and financing.

The Fonroche group offers its solutions worldwide.



**FRENCH LEADER IN
MANUFACTURING
RENEWABLE SOLUTIONS**

- ISO 9001 and ISO 14001 certified plant



AT A GLANCE

- Thousands of solar streetlights worldwide
- 410 photovoltaic powerplants worldwide
- 20 Biogas projects
- 10 deep geothermal projects
- 200 employees



*Reliable and
guaranteed lighting.*

An industry leading

**365 nights
autonomy**



POWER 365
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**THE NEW TECHNOLOGY
MADE BY FONROCHE**

First technology worldwide to guarantee 365 nights of lighting per year.

- WE MAKE OUR PANELS
- WE MAKE OUR BATTERIES
- WE MAKE OUR CONTROLLERS

INNOVATIVE TECHNOLOGY

high-performance components

One maintenance every 10 years



PV module

High-efficiency monocrystalline cells, the photovoltaic module is manufactured at our Roquefort facility in France and is **ISO 9001** and **ISO 14001** certified. Fonroche modules offer the highest levels of performance on the market today and are designed to maximize power production even in cloudy days.



LED fixture

The lamp is fitted with a high-performance LED array rated **20 to 80 watts**, with high performance LED. The efficiency of the LEDs combined with their colour temperature results in a higher quality of lighting and improved visibility. To ensure optimal operation, the LEDs also benefits from an excellent heat dissipation system.



Pole and arm

Made of anti corrosion powder coated steel, our poles and arm are manufactured in France and are compliant with the **EN40 standard** for wind load resistance.



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Power 365 battery

A unique system created and manufactured by Fonroche

Power 365 developed by Fonroche is a Nickel alloy battery, specifically created for solar streetlighting applications.



OPTIMAL STORAGE

With a minimum of 10 years lifetime, the battery can resist extreme weather conditions (-40° to +70° Celcius) thanks to its unique temperature regulation technology. The special chemistry of the Nickel Alloy cells allows a safe charge and discharge without any memory effect.



INTELLIGENCE

The Power 365 is controled by a smart EMS allowing adaptative storage and bespoke programming. Our R&D department has developed an advanced analysis software that screens solar irradiation on any point of the globe. This technology allows adapting the storage capacity in order to guarantee lighting 365 night per year.

HEAT MANAGEMENT

The Power 365 technology is equipped with a smart temperature regulation system that avoids overheatings. The battery cells are totally protected from power losses ensuring an industry leading lifetime.

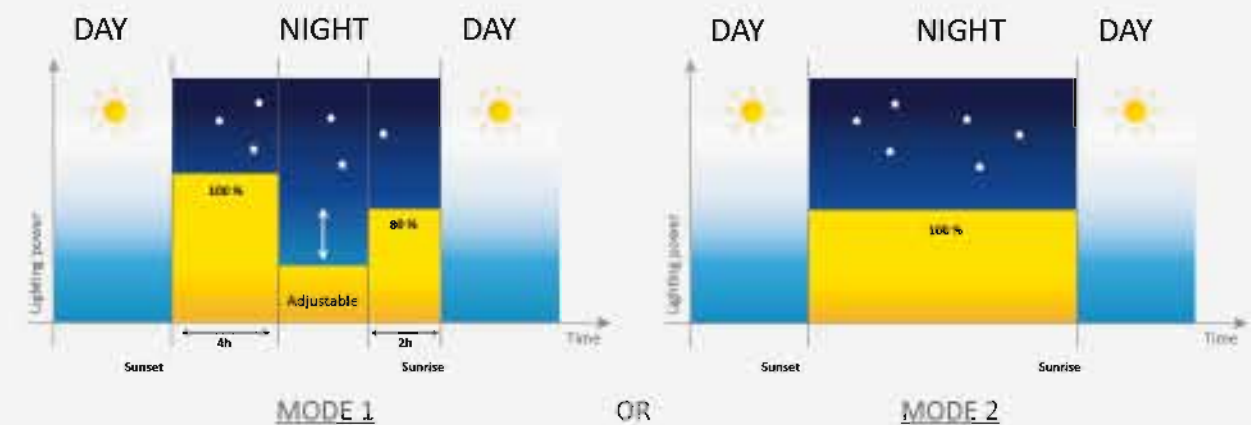
Solar lighting

How does it work?

During the day, the PV panel captures the sun's energy and stores it in a battery.

At night, the Power 365 battery releases the stored energy to power the LED array. The smart energy controller manages the flow of energy and ensures a guaranteed light is provided, no matter the weather conditions.

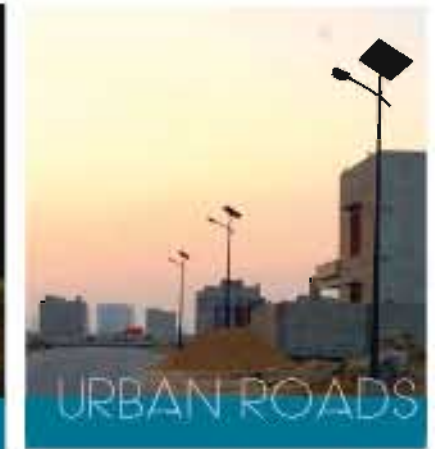
Bespoke lighting scheme



A COMPLETE RANGE of solar streetlamps



For all types of applications



Thousands of installations
in France and worldwide



Car parks, car-pool parks, city access roads,
greenways, bus stations, urban networks, business
parks, refineries, etc.



Presence on 4 continents

Inhouse Light design team to assist with your project

FONROCHE has its own design office, where our lighting experts evaluate the feasibility of your project. The team works closely with the Group's R&D department to offer innovative solutions, based on the most advanced technologies.



Custom made projects

For all your off grid lighting needs

A team of lighting and energy experts is happy to assist with your specific solar lighting projects.

APPLICATIONS

- Airports, Industrial areas, estates, urban networks, bus shelters etc ...

Contact us for any question.



OUR APPROACH

1] UNDERSTANDING OF YOUR NEEDS

2] ENERGY FLOW ANALYSIS

- Calculation of solar potential
- Calculation of energy needed to meet your lighting requirements

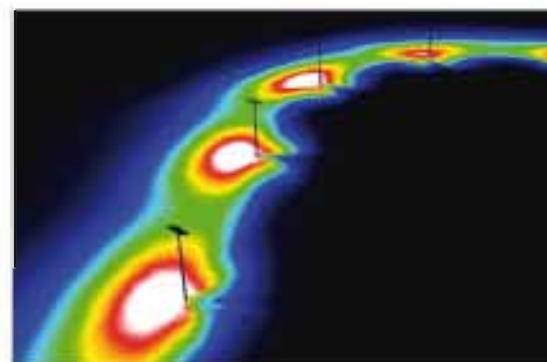
3] PHOTOMETRIC STUDY

- Compliance with roadsafety
- Uniformity & light level
- Sizing of systems

4] RECOMMENDATIONS AND OFFERS

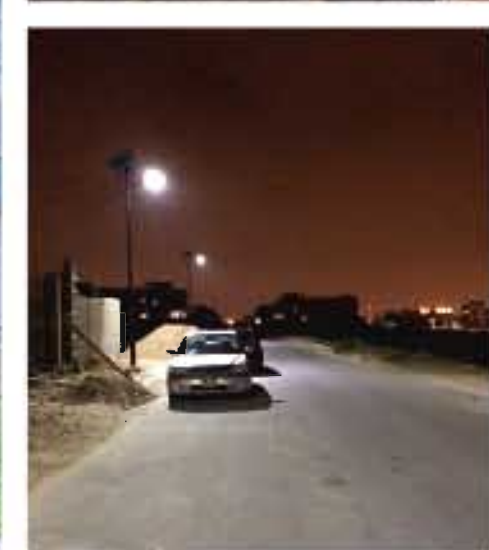
- Calculation of layout
- Optimization of budget

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solar lighting



Example of a Dialux study





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FOR MORE INFORMATION
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