



Our solar solutions:
solar streetlights



TotalEnergies



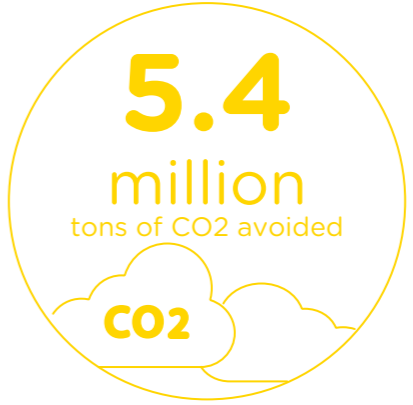
Access to energy at TotalEnergies

Providing reliable and affordable solar solutions

TotalEnergies is active in more than 130 countries. The company puts sustainable development in all its dimensions at the heart of its projects and operations to contribute to the well-being of people.

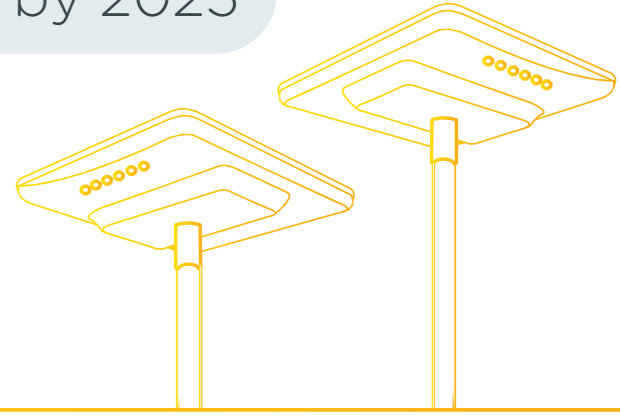
Because energy is vital and drives progress, it must be available to everyone. However, this access is still a daily challenge for 733 million* people who live without access to electricity. In this context, **our teams are committed to provide energy that is ever more affordable, clean, reliable and accessible to as many people as possible.**

In 2010, TotalEnergies launched the Access to Energy program and since 2018 we provide our own range of Sunshine solar solutions., in-station or through partners.



Our objective:
25 million people impacted by 2025

For further information, visit our website
accesstoenergy.totalenergies.com



Sources: Tracking SDG 7, The Energy Progress Report 2022 - indicator 2020. TotalEnergies - October 2022 indicators.

The advantages of solar streetlights versus traditional streetlights



Saving

Guaranteed savings, no energy expenses and no maintenance for 10 years!



Autonomy

A 100% solar solution, independent from the electricity grid and its overloads: no blackout.



Power

High performance levels in terms of lighting and autonomy to adapt to all projects.



Plug and Play

Our products are delivered ready to use!
It takes less than 10 minutes to install and turn on: no civil engineering (apart from pole foundation), no trench, no wires, no electrical connection needed.



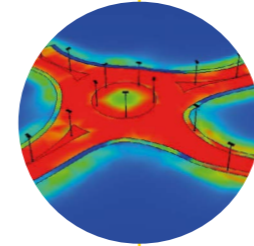
Tailor-made solutions to meet your need

OUR OFFER



1 An optimal sizing of your project

Depending on location and uses, solar streetlights have different characteristics and design. **Our preliminary studies will provide an optimal sizing of your project**, in order to propose efficient solutions: solar panel, battery and technology optimized to obtain the best possible performance.



2 Proposing a suitable product and an adapted layout plan

We **select solutions** - lighting profile, dimming, layout - most suited to the area you want to light up, **transport them up to the installation site**, so that they are integrated as naturally as possible within the environment.



3 Providing long-term support and assistance

We ensure **regular follow-up, even after projects** have been fully completed. Our remote monitoring tools allow us to analyze product performance and to respond when necessary to adjust certain installation features or settings.

Our offer includes

- ✓ **Technical studies** with an autonomy study, lighting profile, irradiance analysis and battery state of charge, photometric study and layout plan
- ✓ supply of **solar streetlight(s)**
- ✓ **international transport**



Options

- supply of poles
- solar streetlights installation
- extended warranty



We support you on your lighting projects

Everywhere in the world, up to the most remote places, we support you to set up your project with durable and robust products range. Interested in our solutions ?

accesstoenergy@totalenergies.com

Our solar streetlights

Multiple benefits and innovative features



Six-year warranty



Climate resistance



+Ten-year lifespan



Made in France



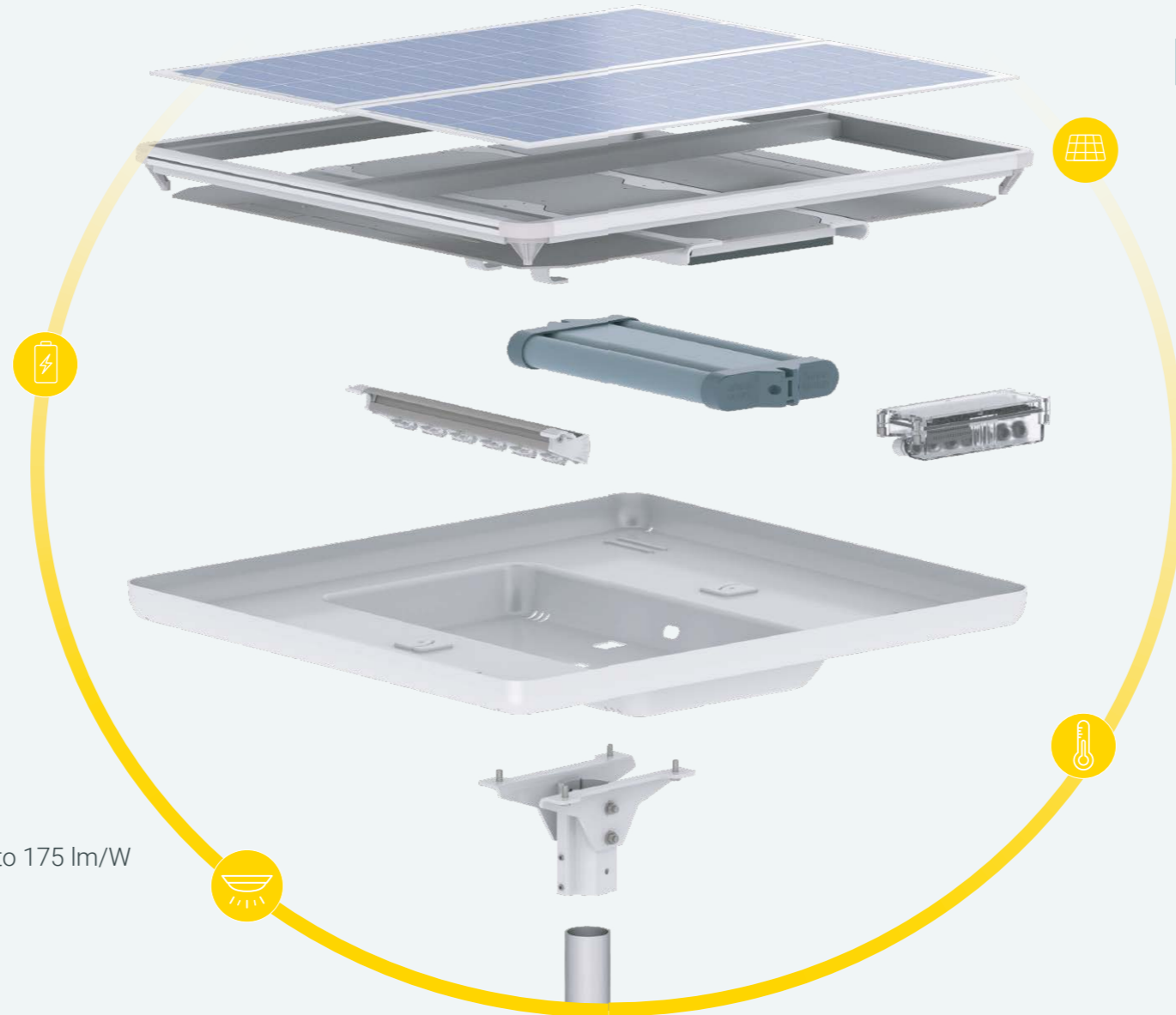
Anti-theft design

HIGH PERFORMANCE BATTERY & SMART STORAGE

- ✓ **smart energy management system:** to enhance the battery's life-cycle
- ✓ battery NiMH: **100% recyclable technology**
- ✓ lifespan: over **10 years under permanent high temperature (40°C)** or 15 years in temperate climate
- ✓ masthead battery = **no vandalism**

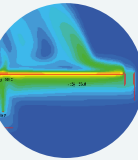
HIGH POWERED LED MODULE

- ✓ **best lumen/watt ratio** available on the market: up to 175 lm/W
- ✓ **motion sensor** available
- ✓ lifespan: 50.000 hours or **12 years**



HIGH-EFFICIENCY SOLAR PANEL

- ✓ **optimized thermal management:** increased efficiency of the solar panel by 10% and lifespan optimization!
- ✓ **self-cleaning solar panel:** unique dustproof coating
- ✓ lifespan: **25 years**
- ✓ invisible solar panel = **no vandalism**

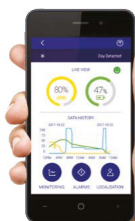


DESIGNED FOR EXTREME CONDITIONS

- ✓ suitable for all climates: **the widest operating temperature range on the market** (temperatures from -20°C to +70°C)
- ✓ designed to last more than 10 years in extreme conditions (humidity, corrosion, wind gusts of 252 km/h)

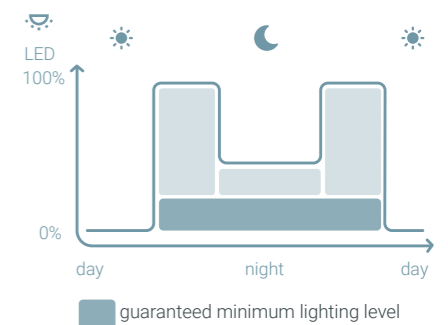
SMART AND CONNECTED

- ✓ automatic registration in the data base
- ✓ support for installation and commissioning
- ✓ real time and historic performance monitoring
- ✓ management of lighting profiles
- ✓ remote troubleshooting



INNOVATIVE ANTI-BLACKOUT LIGHTING PROGRAMS

- ✓ **equipped with patented no blackout function:** to ensure continuity of service, even in adverse weather conditions.
- ✓ based on the expected power use and the available battery power, **our system regulates the light intensity to avoid blackouts.**



iSSL range

All-in-one solar streetlights

Equipped with horizontal solar panels, the iSSL range is adapted for intertropical zone countries, where panel orientation is not required. It also features a self-cleaning and self-cooling design for high temperatures. All-in-one, its one-piece design facilitates installation and requires no wiring.



Available in



Available colors



Optional

motion sensor

All the products can be installed from 3 m. to 5 m. Applications are those generally recommended for the project that are closest to the examples proposed. To have an exact estimate of the products that would be adapted to the project, it will be necessary to carry out a technical study that will take into account all the elements of the project (size, customer needs etc.)

iSSL MAXI AREA

Recommended applications



Technical specifications

LIGHTING

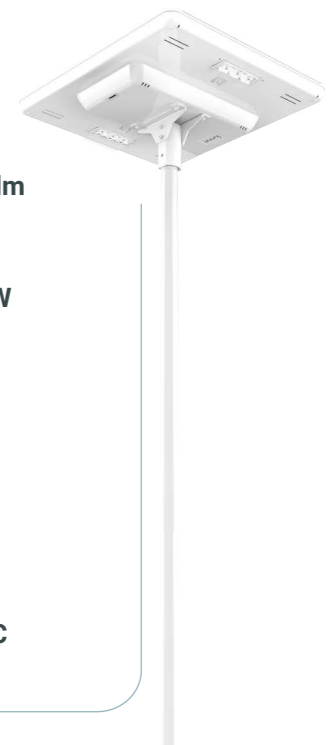
Luminous flux **1600 to 2800 lm**
 Number of flux **2**
 LED consumption **20 W to 50 W**
 LED efficiency **up to 164 lm/W**

SOLAR PANEL

Panel **80 Wp**
 Lifespan **25 years**

BATTERY

Capacity **240 Wh**
 Technology **NiMH**
 Temperature **-40°C to +70°C**
 Autonomy **up to 5 days**



iSSL MAXI ROAD

Recommended applications



Technical specifications

LIGHTING

Luminous flux **3200 to 5600 lm**
 Number of flux **1**
 LED consumption **20 W to 50 W**
 LED efficiency **up to 164 lm/W**

SOLAR PANEL

Panel **80 Wp**
 Lifespan **25 years**

BATTERY

Capacity **240 Wh**
 Technology **NiMH**
 Temperature **-40°C to +70°C**
 Autonomy **up to 5 days**



iSSL+

Recommended applications



Technical specifications

LIGHTING

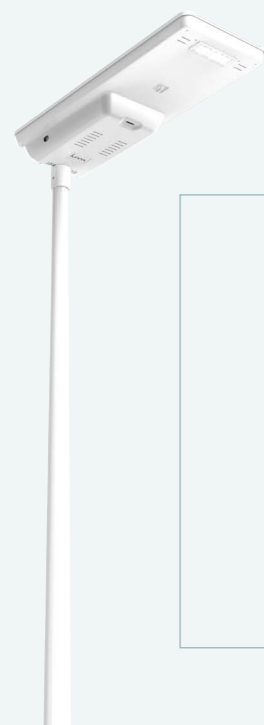
Luminous flux **1600 to 2800 lm**
 LED consumption **10 W to 25 W**
 LED efficiency **up to 164 lm/W**

SOLAR PANEL

Panel **50 Wp**
 Lifespan **25 years**

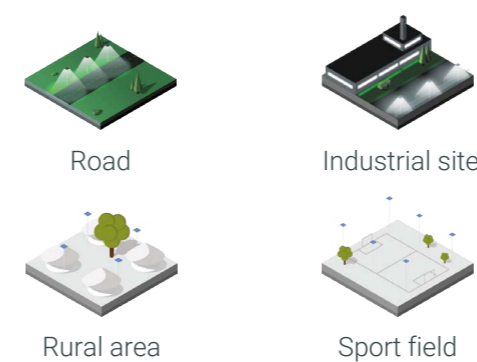
BATTERY

Capacity **120 Wh**
 Technology **NiMH**
 Temperature **-40°C to +70°C**
 Autonomy **up to 5 days**



iSSL MAXI 4

Recommended applications



Technical specifications

LIGHTING

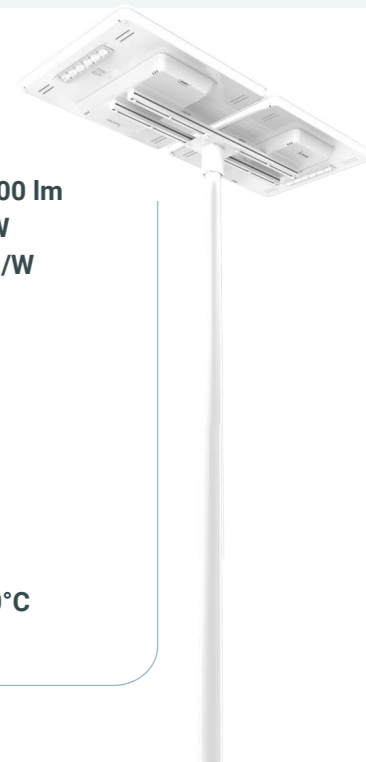
Luminous flux **6400 to 11200 lm**
 LED consumption **40 W to 80 W**
 LED efficiency **up to 164 lm/W**

SOLAR PANEL

Panel **160 Wp**
 Lifespan **25 years**

BATTERY

Capacity **480 Wh**
 Technology **NiMH**
 Temperature **-40°C to +70°C**
 Autonomy **up to 5 days**



UP range

All-in-two solar streetlights for temperate zone

Equipped with inclined solar panels, the UP range is particularly suitable for areas far from the equator, allowing for optimal energy collection. Performance is unrivaled thanks to intelligent battery storage.



Available in



Available colors



Optional

motion sensor

All the products can be installed from 3 m. to 6 m. Applications are those generally recommended for the project that are closest to the examples proposed. To have an exact estimate of the products that would be adapted to the project, it will be necessary to carry out a technical study that will take into account all the elements of the project (size, customer needs etc.)

UP1

Recommended applications

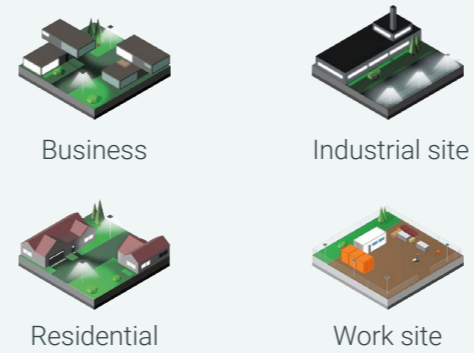


Technical specifications

LIGHTING	
Luminous flux	1600 to 2800 lm
LED consumption	10 W to 25 W
LED efficiency	up to 164 lm/W
SOLAR PANEL	
Panel	50 Wp
Lifespan	25 years
BATTERY	
Capacity	120 Wh
Technology	NiMH
Temperature	-40°C to +70°C
Autonomy	up to 5 days

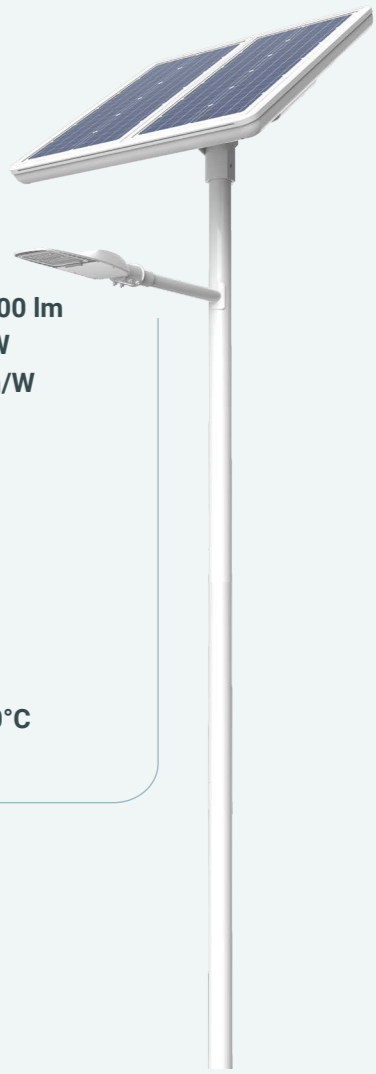
UP2

Recommended applications



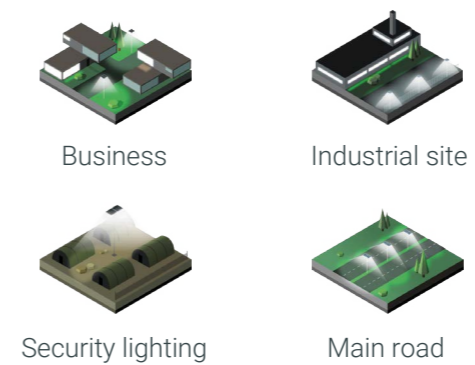
Technical specifications

LIGHTING	
Luminous flux	3200 to 15600 lm
LED consumption	20 W to 50 W
LED efficiency	up to 164 lm/W
SOLAR PANEL	
Panel	80 Wp
Lifespan	25 years
BATTERY	
Capacity	240 Wh
Technology	NiMH
Temperature	-40°C to +70°C
Autonomy	up to 5 days



UP4

Recommended applications



Technical specifications

LIGHTING	
Luminous flux	6400 lm
LED consumption	40 W to 80 W
LED efficiency	up to 164 lm/W
SOLAR PANEL	
Panel	160 Wp
Lifespan	25 years
BATTERY	
Capacity	480 Wh
Technology	NiMH
Temperature	-40°C to +70°C
Autonomy	up to 5 days



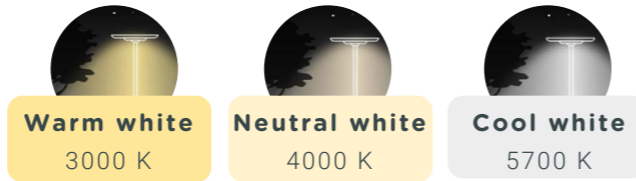
EverGen-L range

Configurable solar streetlights for large projects

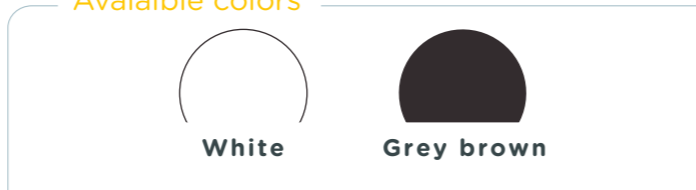


The EverGen-L range is a fully configurable solution that can precisely meet the needs for large projects, thanks to our integrated engineering support. With a wide range of panel size, battery capacity and lighting power, it can be equipped with one (mono) or two (dual) lighting module.

Available in



Available colors

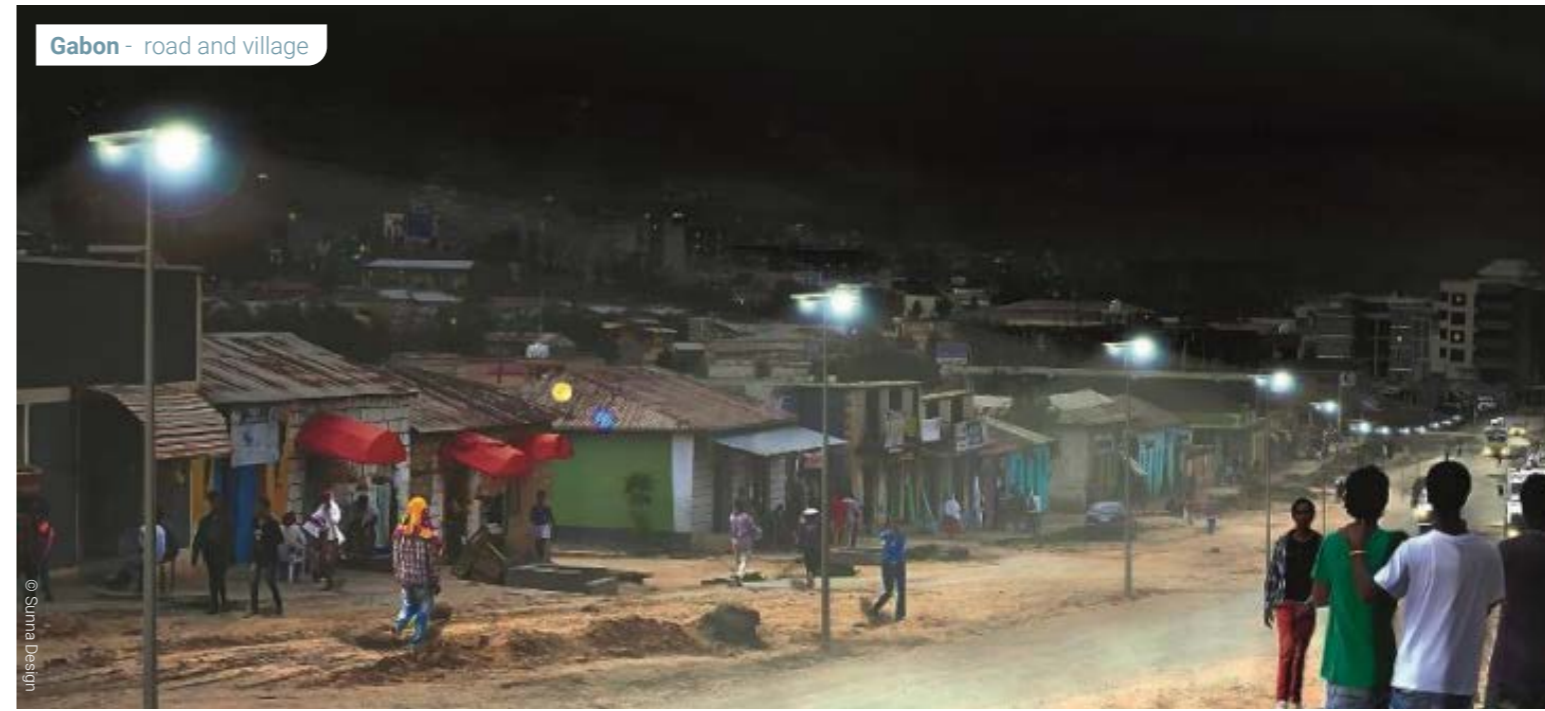


Optional

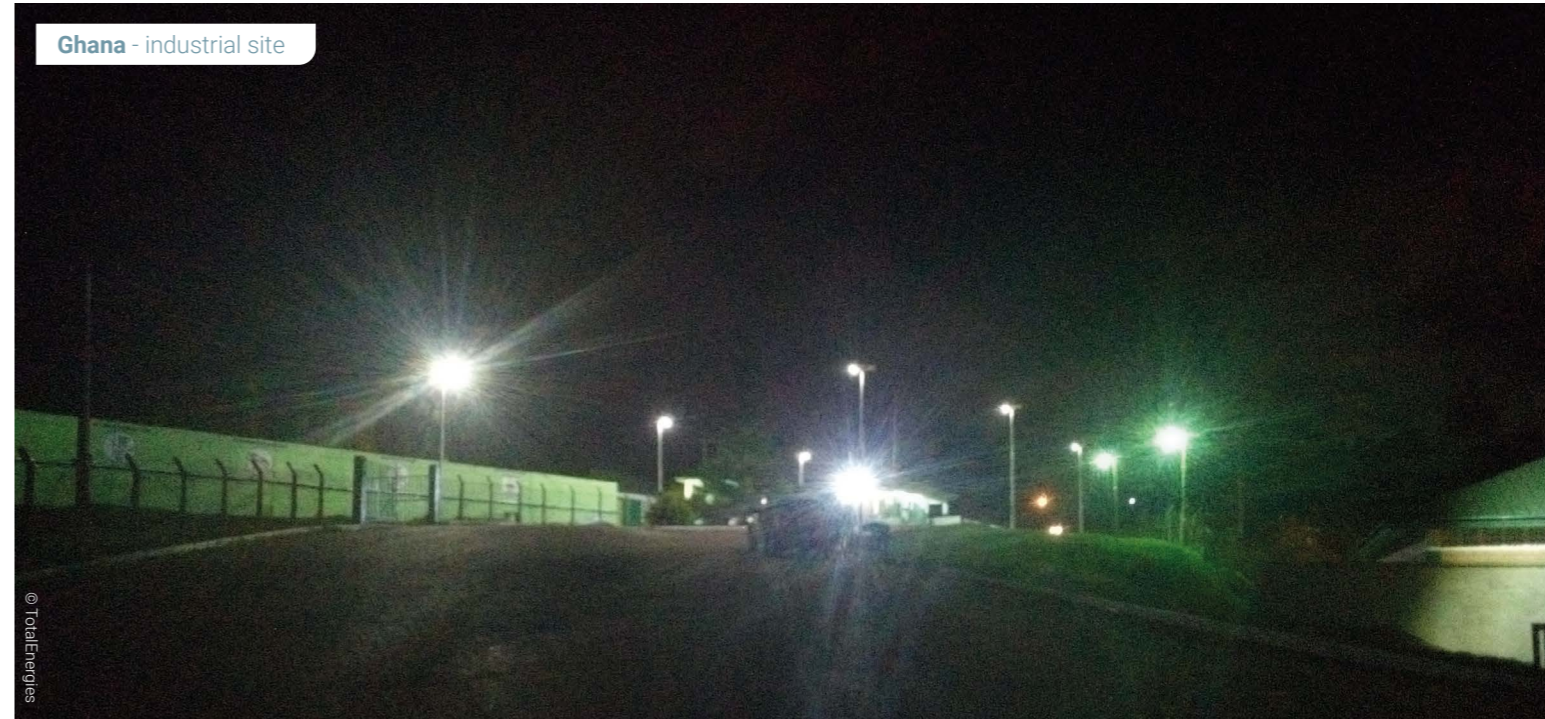
motion sensor

All the products can be installed from 3 m. to 12 m. Applications are those generally recommended for the project that are closest to the examples proposed. To have an exact estimate of the products that would be adapted to the project, it will be necessary to carry out a technical study that will take into account all the elements of the project (size, customer needs etc.)

Gabon - road and village



Ghana - industrial site



Benin - school



EverGen-L

Recommended applications



Technical specifications

LIGHTING

Luminous flux **6500 to 26000 lm**
LED consumption **40 W to 150 W**
LED efficiency **up to 164 lm/W**

SOLAR PANEL

Panel **150, 260 or 320 Wp**
Lifespan **25 years**

BATTERY

Capacity **680 Wh to 2530 Wh**
Technology **LiFePO4**
Temperature **0°C to +50°C**
Autonomy **up to 3 days**

Mozambique

Zone lighting

USE CASES

TotalEnergies EP Mozambique Area 1 Limitada teams are deploying autonomous solar street lights to provide public lighting in the Cabo Delgado region.



In northern Mozambique, after sunset, most villages are often in complete darkness. The project led by TotalEnergies EP Mozambique Area 1 Limitada aimed at lighting three villages: Maganja, Mondlane and Senga. These products are intended to provide security lighting and improve the quality of life.

In this context, 181 ISSL+ street lamps were installed. The illuminated area creates a favorable space for economic and social activities. A few months after the installation, residents are already seeing the difference: more security and sales activities that continue at night.



« The population is very happy, the lights bring security, we can see the movement of people at night. »

Project Manager



« The lights allow us to keep selling late into the night! »

Local vendor

« It's like we are now in the city! »

Village resident



« All the lights are working [...] Some residents are asking for more street lights because Maganja is big and some areas are not yet covered! »

Community Mobilizer

Which products for this field of application?

ISSL MAXI ROAD

Product mix
181 street lights + Motion sensor
 Luminous flux
3,200 to 5,600* lumens
 Power consumption
20 W to 50* W
 Luminous efficiency
Up to 164 lm/W

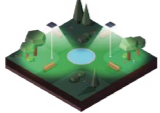
Application Type(s):



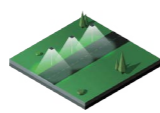
Parking



Pathways



Park



Road



Mayotte - parking

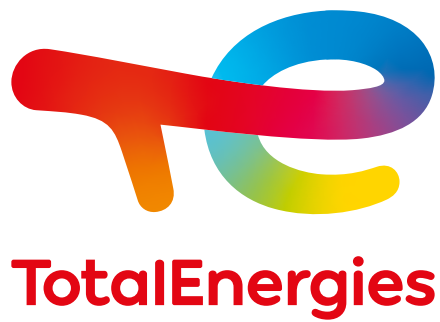


Senegal - off-grid area



France - industrial site





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