SUNNA
DESIGN

l'intelligence
solaire solar
intelligence

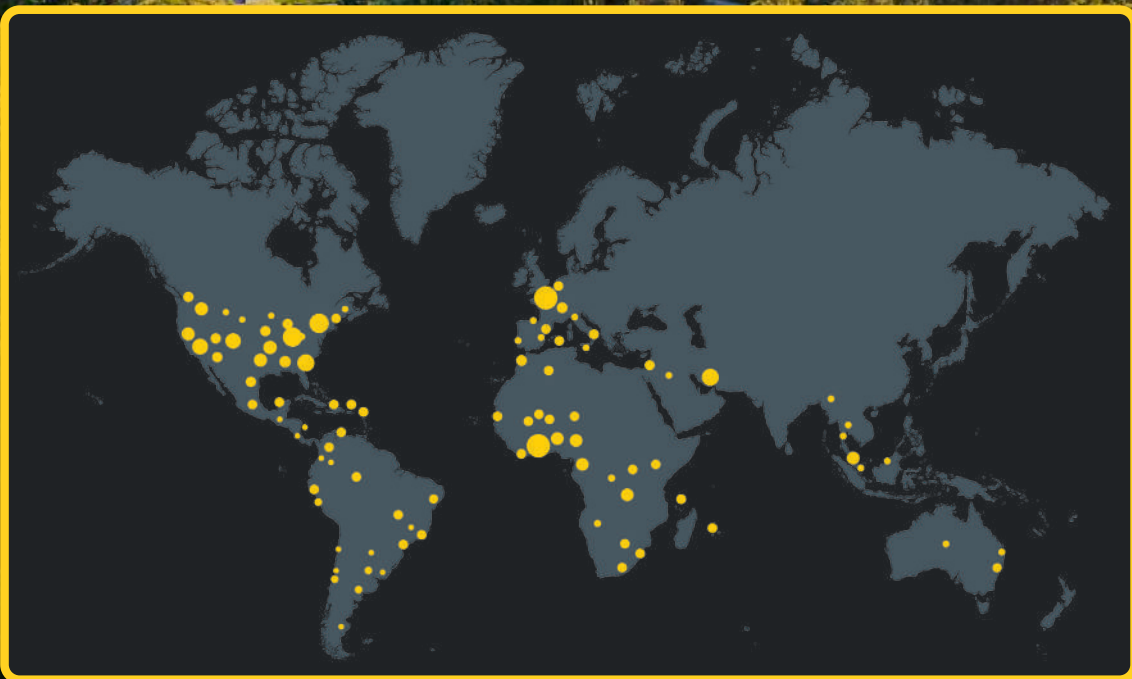# Solar Lighting
RELIABLE | DURABLE | CONNECTED

# Edito

**150,000+ PRODUCTS** INSTALLED IN **60 COUNTRIES**

**15+ MILLION PEOPLE** IMPACTED

**160+ PARTNERS**

**60 EMPLOYEES** IN **4 OFFICES**



## Smart Lighting for a Sustainable World

As a major player in public solar lighting globally, Sunna Design has embodied a revolutionary vision for more than 12 years: using smart solar energy to empower local communities to regain control over their energy production. This mission stems from a simple observation: global energy and climate crises accelerate behavior changes.

## Technology Serving Communities

Since its inception in 2011, our company has continuously innovated. Designed and manufactured in France, our solar streetlights are not only durable and smart; they are the heart of a system that also powers various autonomous and connected applications. Our technology lights up rural areas without electricity and facilitates the emergence of smart cities, addressing current economic, environmental, and social challenges:

> **Reducing their carbon footprint** and actively participating in environmental preservation.

> **Improving citizens' quality of life** by providing lighting where it is lacking.

> **Optimizing energy costs** with a sustainable and autonomous solution.

## Millions of People Impacted

With over 150 million solutions installed worldwide, Sunna Design already illuminates the lives of millions in 60 countries. Join the movement towards smarter and more sustainable cities and territories.

# 5 REASONS TO CHOOSE SOLAR LIGHTING

# NOT ALL SOLAR STREETLIGHTS ARE EQUAL

## 01. COST REDUCTION

Say goodbye to high installation costs and electricity bills with a 100% solar-powered autonomous solution.

**0€**
Electricity Bill

## 02. EASY & FLEXIBLE INSTALLATION

Unlike traditional lighting systems, solar lights don't require trenching or complex wiring, providing a quick, simple installation and maximum layout flexibility. (This is ideal for isolated areas far from the electrical grid.)

**15min**
Average Installation
*(per streetlight)*

## 03. ENVIRONMENTALLY FRIENDLY

Solar lighting is powered by the sun, a clean and inexhaustible energy source.

**-50%**
CO2 Emission
*(compared to the electrical grid)*

## 04. DURABLE & LOW MAINTENANCE

Sunna's solar lights are designed to withstand harsh weather and have a long lifespan. They also require little maintenance, further reducing long-term costs.

**20 years**
Average Lifespan

## 05. ENERGY INDEPENDENCE

Solar lighting offers an autonomous energy source, making it less vulnerable to power outages and electricity rate fluctuations. Your spaces remain illuminated for everyone's safety and comfort.

**100%**
Autonomous

### Solar Energy Capture

The cells integrated into the solar panels capture sunlight during the day.

*Sunna Design panels, which do not accumulate dust, are designed to maximize sunlight absorption.*

### Solar Energy Storage

The captured electrical energy is stored in rechargeable batteries integrated into the lighting system, allowing energy to be stored for nighttime use.

*Sunna Design offers various battery options (NIMH, LFP) to meet the needs of each project in all geographical areas.*

### Smart Programming

The electronic board manages the energy system and its distribution to the light source.

*Sunnacore, an electronic board developed and patented by Sunna Design, intelligently powers and controls the light source to follow the predefined lighting profile. This avoids service interruptions and preserves battery life.*

### Activate the Light Source

When natural light diminishes at sunset, the system automatically activates thanks to light sensors that trigger the LEDs.

*Sunna LED modules are particularly powerful with a high Lumen/Watt ratio.*
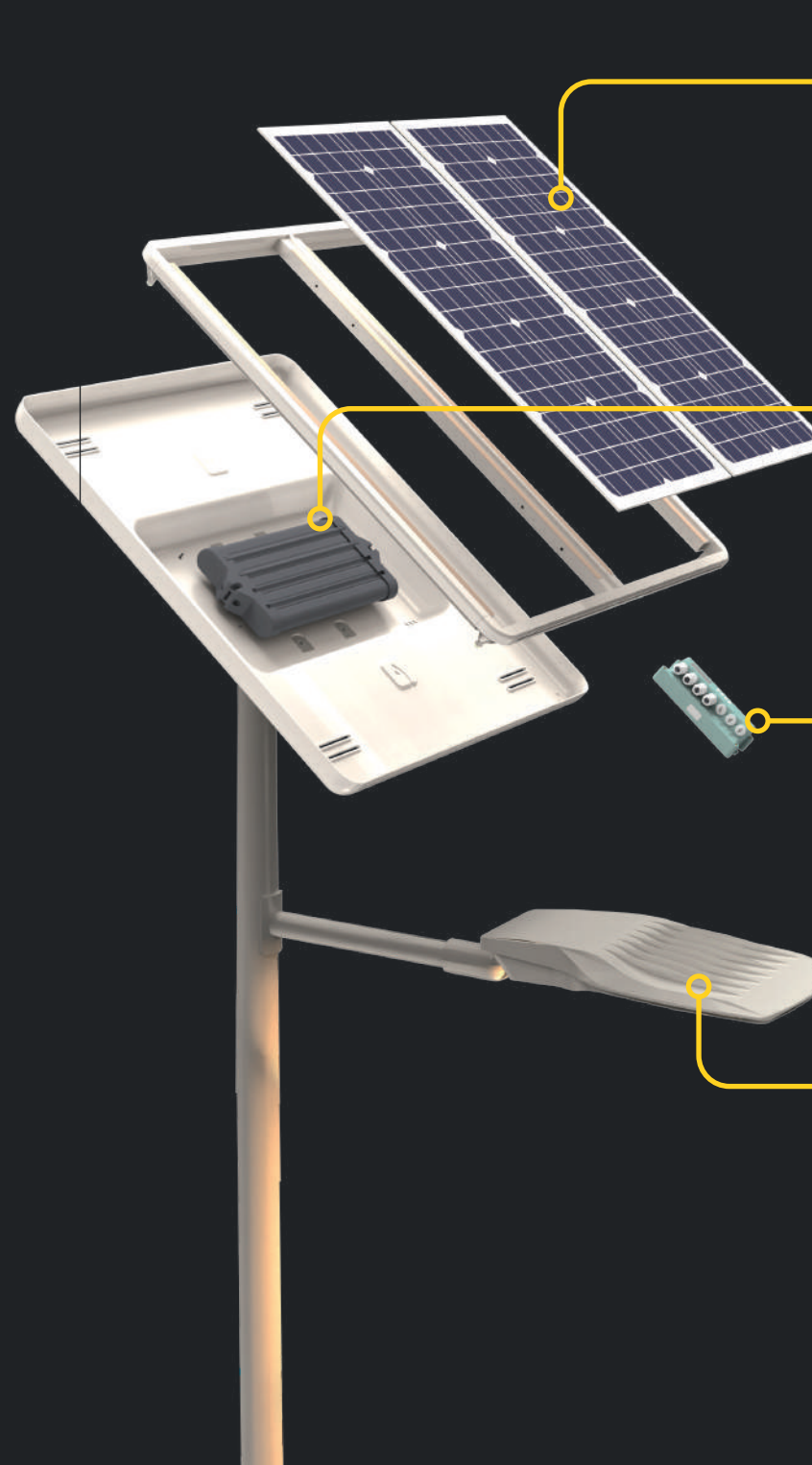
## THE CHOICE
## OF EXCELLENCE

**At Sunna Design, our identity is shaped by three fundamental pillars guiding our approach and vision for excellent public solar lighting.**

**At Sunna Design, we understand that each lighting project is unique. This is why we offer a personalized support service tailored to your specific challenges from design to final implementation.**

### INNOVATION AS DNA

We have developed a solid and proven technological platform. Our mastery of electronics, energy management, lighting, and connectivity ensures our solar streetlights are at the cutting edge of technology.
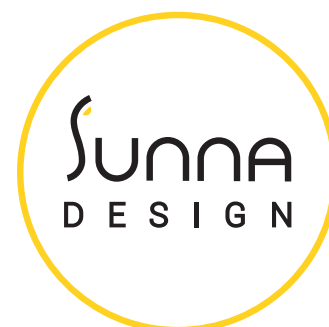
We offer the most comprehensive portfolio of solutions on the market. From our compact "all-in-one" solutions perfect for urban environments to our high-power offerings for large spaces, we have a solution for every need.

**01.** PRELIMINARY ANALYSIS

Understanding your needs, site study, and precise project quote.

### COMMITMENT TO PROXIMITY

We create a local partner ecosystem wherever we operate, allowing us to understand your specific needs and provide personalized service. Our solutions also enable us to address tomorrow's challenges, such as the pursuit of autonomy, relocation, and energy production reappropriation. Our goal is to revitalize territories through our connected services, such as allowing communities to supervise their solar lighting assets.

**02.** SOLAR STUDY AND SIZING

Collecting information and conducting a comprehensive study by our engineers (photometric study, solar study, and battery sizing).

### IMPACTFUL AND RESPONSIBLE MODEL

At Sunna Design, we offer an alternative to traditional lighting that addresses communities' environmental and economic challenges while using renewable and inexhaustible solar energy. We strive to build a more virtuous and respectful business model for its ecosystem.
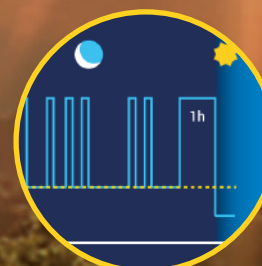
**03.** PRODUCT SELECTION

Choosing the most suitable lights, panels, and batteries for your project.

**04.** COMMISSIONING

Our trained teams will provide on-site intervention upon your request and support for quick, safe, and compliant implementation with current standards.

**Sunna DESIGN**

l'intelligence solaire solar intelligence

**05.** MAINTENANCE & MONITORING

Preventive and corrective maintenance service and monitoring platform for remote lighting management.

# A WIDE RANGE OF
## SERVICES FOR ALL YOUR PROJECTS.

In the field of solar lighting, each project has unique challenges. Sunna Design, with its experience and expertise, has developed a range of products and services to meet this multitude of needs. Our goal? To provide solutions tailored to each context, environment, and need.

## SOLUTIONS FOR EVERY APPLICATION

Whether you want to light up a bustling urban artery, a peaceful park path, a remote village, or an industrial complex, we have a capable and efficient solution. From the cold regions of the North to the hottest areas, our streetlights are designed to withstand and perform.

## COMBINED TECHNOLOGY AND AESTHETICS

We understand that lighting is not only functional but also aesthetic. Our range of products combines cutting-edge technology and elegant design, offering solutions that not only illuminate but also beautify the space they occupy.

## ADAPTABILITY AND FLEXIBILITY

The broad range of our product line allows unprecedented adaptability. Need a connected solution for remote monitoring? Or customized lighting for special environments? Each of our product can be customized according to your specifications for perfect integration into your project.

**Sunna Design's broad product offering reflects our mission: to illuminate the world sustainably and connectedly. No matter the scale or complexity of your project, we have the solution to make it shine.**

---

### ALL-IN-ONE SOLAR STREETLIGHT

**iSSL**

EASY INSTALLATION
● ● ● ● ●

AUTONOMY
● ● ● ○ ○

POWER
● ● ● ● ○

### COMPACT, SUITED TO ALL AREAS

**UP**

EASY INSTALLATION
● ● ● ● ○

AUTONOMY
● ● ● ● ○

POWER
● ● ● ● ○

### HIGH POWER LIGHTING

**EverGen**

EASY INSTALLATION
● ● ● ○ ○

AUTONOMY
● ● ● ● ●

POWER
● ● ● ● ●

## 3 RANGES, 5 TECHNOLOGICAL BENEFITS

> MODULAR, HIGH POWER RANGE

> REMOTE MONITORING & COMMUNICATION

> QUICK AND EASY INSTALLATION

> BUILT TO RESIST EXTREME WEATHER

> ANTI-BLACKOUT FEATURES

**iSSL Maxi Road**

Parking lot
Road & street
Pedestrian crossing

**iSSL Maxi Area**

Parking lot
Park & recreation
Zone lighting

**iSSL Maxi 4**

Parking lot
Road & street
Sports facility

# iSSL
## ALL-IN-ONE

The iSSL+ is a reliable and robust all-in-one **solar lighting system** with a simple and quick installation **(less than 5 minutes per pole)**. This innovative solution is particularly suitable for lighting pedestrian paths and bike lanes, offering unmatched performance and connected services.

Due to its lightweight design and quick installation, the iSSL+ is ideal for **renovation or retrofit on existing poles.**

**ANTI-BLACKOUT FUNCTION**

**PLUG & PLAY EASY INSTALLATION**

**COMMUNICATION & SUPERVISION**

**UNIQUE RESISTANCE TO EXTREME CLIMATES**

ALL THE **RANGE INFO** ▶

| | | iSSL+ | iSSL Maxi Road | iSSL Maxi Area | iSSL Maxi 4 |
|---|---|---|---|---|---|
| **LIGHTING** | LED module | High efficiency LED light engine - Multichip Technology (IP 67) | | | |
| | Luminous flux | 1,750 to 3,500* lumens | 3,500 to 7,000* lumens | | 7,200 to 14,000* lumens |
| | Consumption | 10 W to 20* W | 20 W to 40* W | | 40 W to 80* W |
| | Lighting efficacy *(after optical losses)* | Up to 175 lm/W (4000 K) | | | |
| | Color temperature options | 2700 K, 3000 K, 4000 K | | | |
| | Lifespan | 50,000 certified hours | | | |
| | Certificates | EN 62031; EN 62471 | | | |
| **SOLAR PANELS** | Technology | Photovoltaic module (Monocrystalline silicon) | | | |
| | Power | 50 Wc | 80 Wc (2x40 Wc) | | 160 Wc (4x40 Wc) |
| | Electrical characteristics *(per panel)* | Isc = 3,07 A / Voc = 22,68 V Imp = 2,70 A / Vmp = 18,5 V | Isc = 2,19 A / Voc = 24,17 V / Imp = 2,01 A / Vmp = 19,9 V | | |
| | Panel dimensions | 39.4 x 13.8 in (1000 x 350 mm) | 30.5 x 13.8 in (776 x 350 mm) (x2 Solar panels) | | 30.5 x 13.8 in (x4 Solar panels) |
| | Lifespan | > 20 years at 80% of initial power | | | |
| | Inclination | Horizontal (0°) | | | |
| | Structure | Frameless | | | |
| | Certificates | IEC 61215 ; IEC 61730 I & II | | | |
| **BATTERY** | Battery technology | NiMH battery, maintenance free, extreme temperature resistance | | | |
| | Voltage | 12 V | 24 V | | |
| | Capacity | 120 Wh | 240 Wh | | 480 Wh (2x240 Wh) |
| | Operating temperature range | -40°F / +158°F (-40°C to +70°C) | | | |
| | Lifespan | 12 years in intertropical zone / 15-20 years in temperate zone | | | |
| | Certificates | EN 62133 | | | |
| **ELECTRONICS** | Technology | SunnaCore© | | | |
| | Communication | Bluetooth | | | |
| | Input voltage | 12 V | 24 V | | |
| | Max. PV open circuit voltage | 22,5 V | 45 V | | |
| | Max. charge/discharge current | 4,2 A | | | |
| | Electrical protection | Electronic fuse | | | |
| | Water resistance | IP65 with sealed plugs | | | |
| | Certificates | CE ; EN61000 | | | |
| **GENERAL** | Material | ABS PMMA casing (70% recycled) and aluminum | | | |
| | SCx (EPA) | 1.72 ft² (0.16m²) | 1.58 ft² (0.147 m²) | | 2.91ft² (0.27m²) |
| | Fixation | Top mounting Ø2.4 in (60 mm) | | | Top mounting Ø2.99 in (76 mm) |
| | Weight *(without pole)* | 28.7 lbs (13 kg) | 42 lbs (19 kg) | | 92.6 lbs (43 kg) |
| | Options | Motion detector (detection radius: 118.11 to 196.85 in (3 to 5 m) depending on installation height) / Anti-theft screws / Local supervision / Bird spikes | | | |

*Only available with motion detection*

**UP1**
- Isolated area
- Bike lane
- Park & recreation
- Pedestrian path

**UP2**
- Parking lot
- Road & street
- Pedestrian crossing

**UP4 Dual**
- Parking lot
- Road & street
- Sports facility

# UP
## COMPACT AND EFFICIENT

The UP is a compact and high performing two-in-one solar streetlight with a simple and quick installation **(less than 15 minutes)**. This solar solution is perfectly suited for lighting pedestrian paths, bike lanes, residential areas, and parking lots, offering unmatched performance and integrating connected services **to meet the requirements of modern and efficient lighting.**

With its unique design and advanced features, the UP stands out **as one of the best solar lighting solutions on the market.**

- **ANTI-BLACKOUT FUNCTION**
- **PLUG & PLAY EASY INSTALLATION**
- **COMMUNICATION & SUPERVISION**
- **UNIQUE RESISTANCE TO EXTREME CLIMATES**

ALL THE **RANGE INFO** ▶

|  |  | UP1 | UP2 | UP4 |
|---|---|---|---|---|
| **ÉCLAIRAGE** | LED module | High efficiency LED light engine - Multichip Technology (IP 67) | | |
| | Luminous flux | 1,650 to 3 300* lumens | 3,600 to 7,200* lumens | 1 lantern : 7 200 lm / 2 lanterns : 7,200 to 14,400* lumens |
| | Consumption | 10 W à 20* W | 20 W to 40* W | 1 lantern : 40 W / 2 lanterns : 80* W |
| | Lighting efficacy *(after optical losses)* | Up to 165 lm/W (4000 K) | | |
| | Color temperature options | 2200 K, 2700 K, 3000 K, 4000 K | | |
| | Lifespan | 110,000 certified hours | | |
| | Certificates | EN 60598 ; EN 62471 | | |
| **PANNEAUX SOLAIRES** | Technology | Photovoltaic module (Monocrystalline silicon) | | |
| | Power | 50 Wc | 80 Wc (2x40 Wc) | 160 Wc (4x40 Wc) |
| | Electrical characteristics *(per panel)* | Isc = 3,07 A / Voc = 22,68 V / Imp = 2,70 A / Vmp = 18,5 V | Isc = 2,19 A / Voc = 24,17 V / Imp = 2,01 A / Vmp = 19,9 V | |
| | Panel dimensions | 39.4 x 13.8 in (1000 x 350 mm) | 30.5 x 13.8 in (776 x 350 mm ) (x2 Solar panels or x4 Solar panels) | |
| | Lifespan | > 20 years at 80% of initial power | | |
| | Inclination | 5°, 25°, 50° | 10°, 25°, 40°, 50° | 0°, 20°, 30°, 45° |
| | Structure | Frameless | | |
| | Certificates | IEC 61215 ; IEC 61730 I & II | | |
| **BATTERIE** | Battery technology | NiMH battery, maintenance free, extreme temperature resistance | | |
| | Voltage | 12 V | 24 V | |
| | Capacity | 120 Wh | 240 Wh | 480 Wh (2x240 Wh) |
| | Operating temperature range | -40°F / +158°F (-40°C to +70°C) | | |
| | Lifespan | 12 years in intertropical zone / 15-20 years in temperate zone | | |
| | Certificates | EN 62133 | | |
| **ÉLECTRONIQUE** | Technology | SunnaCore© | | |
| | Communication | Bluetooth | | |
| | Input voltage | 12 V | 24 V | |
| | Max. PV open circuit voltage | 22,5 V | 45 V | |
| | Max. charge/discharge current | 4,2 A | | |
| | Electrical protection | Electronic fuse | | |
| | Water resistance | IP65 with sealed plugs | | |
| | Certificates | CE ; EN61000 | | |
| **GÉNÉRAL** | Material | ABS PMMA casing (70% recycled) and aluminum | | |
| | SCx (EPA) | 4.3 ft² (0,40 m²) (50° titled solar panel) | 6.35ft² (0.59 m²): 50° titled solar panel | 11.95ft² (1.11m²) : 45° tilted solar panel |
| | Fixation | Solar generator: Top mounting: Ø2.4 in (60 mm), Lantern: horizontal bracket** or console | | Solar generator: Top mounting Outside diamater Ø2.99 in (76 mm) ; Lantern: horizontal bracket** or console |
| | **Weight** *(without pole)* | Solar generator 13.5 kg(30 lbs) / Lantern 1.5 kg (3.3 lbs) | Solar generator: 19 kg(50,7 lbs)/ Lantern 1.5 kg | Solar generator: 43 kg (103,6 lbs) / 1 lantern: 5 kg or 2 lanterns: 2 x 1.5 kg |
| | Options | Motion detector (detection range: 118.11 to 196.85 in (3 to 5 m) depending on installation height (applies to UP4 Dual)) / Anti-theft screws / Anti-bird picks / Local supervision | | |

*\* Available with motion detection ** Bracket not included*

| | Parking lot |
| EverGen | Highway |
| | Urban area |
| | Industrial site |

| EverGen Hybride | Parking lot |
| | Shaded site |
| | Low sunlight |

| EverGen Rise-On | Parking lot |
| | Secured site |
| | Smart City |

# EverGen

## HIGH POWER LIGHTING

The EverGen range offers high-power solar streetlights **that light up your large projects** in all areas: main and secondary roads, avenues and boulevards, and large parking lots.

**Fully configurable** and **customizable,** the EverGen range offers powerful lighting adapted to various applications. The **hybrid version** allows switching between autonomous solar and the electrical grid as needed, while the **Rise-On version** uses produced solar energy to power external electrical devices (surveillance cameras, industrial IoT, sensors, etc...).

**EMBEDDED INTELLIGENCE**

**UNMATCHED SERVICE CONTINUITY**

**COMMUNICATING DETECTION**

**DATA SUPERVISION**

ALL THE **RANGE INFO** ▶
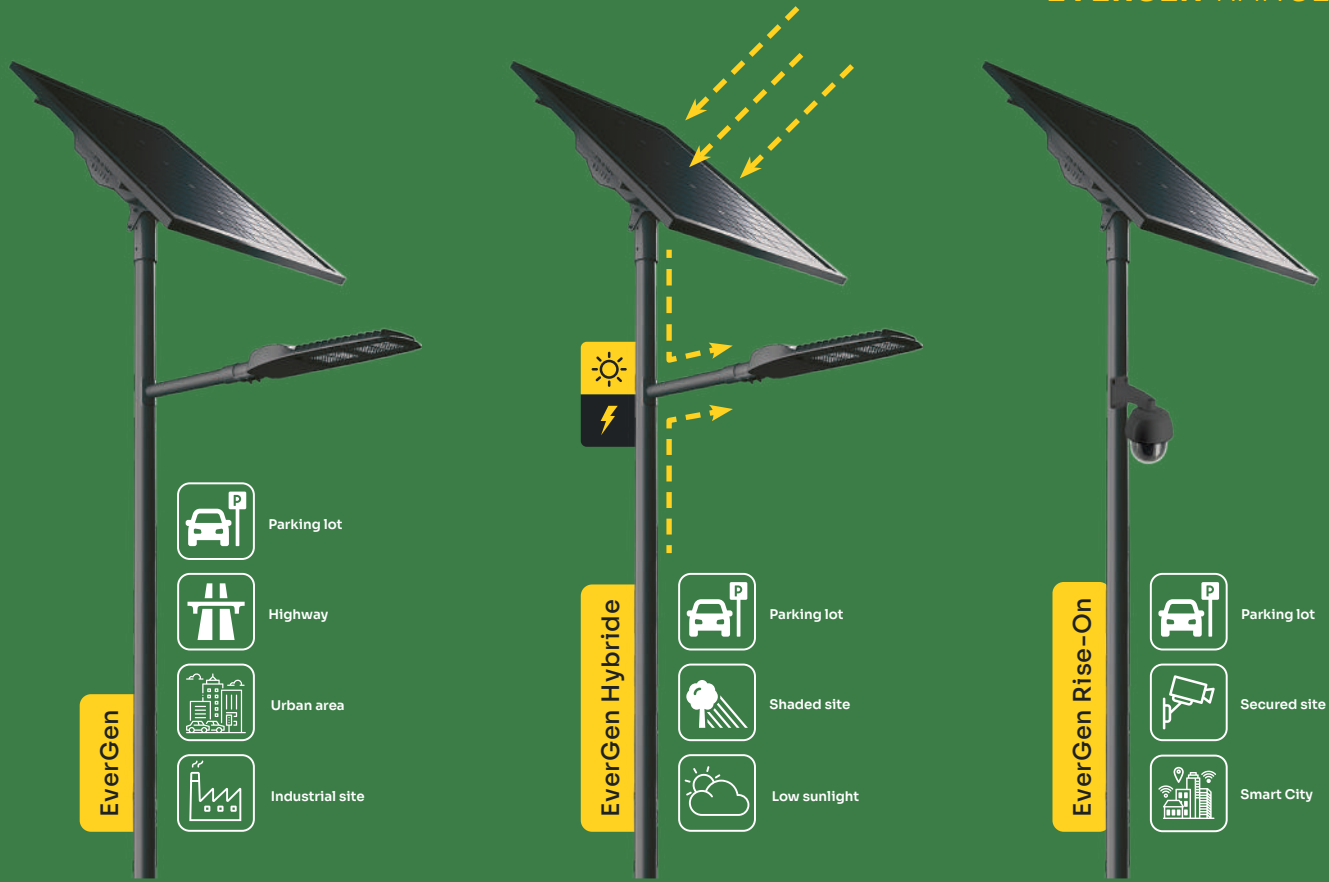
|  |  | EverGen-L | EverGen-N |
|---|---|---|---|
| **LIGHTING** | LED module | High efficiency LED - Multichip Technology (IP 66) | |
| | Luminous flux | 3,300 to 26,400 lumens | |
| | Consumption | 20 to 150 W max (or 2 x 80 W max) | |
| | Lighting efficacy *(after optical losses)* | Up to 165 lm/W | |
| | LED1 power (W) | 20 to 150 W | |
| | LED2 power (W) | 20 to 80 W | |
| | Available color temperatures | 2200K, 2700K, 3000K, 4000K | |
| | Lifespan | 110 000 hours certified by IESNA LM-90 B-50 | |
| | Certificates | In compliance with EN 60598 | |
| **SOLAR PANELS** | Technology | Photovoltaic module (Polycristalline silicon) | |
| | Power | 150, 290 or 350 Wp | |
| | Electrical characteristics *(per panel)* | 150 Wp : VOC = 45.55 V / VMP = 36.7 V / ISC = 4.41 A / IMP = 4.09 A / Nb of cells = 72<br>290 Wp : VOC = 39.28 V / VMP = 32.47 V / ISC = 9.38 A / IMP = 8.93 A / Nb of cells = 60<br>350 Wp : VOC = 47.12 V / VMP = 38.93 V / ISC = 9.38 A / IMP = 8.99 A / Nb of cells = 72 | |
| | Dimensions *(per panel)* | 150 Wp : 58,3x 26,4x1,4 in (1480x670x35 mm)<br>290 Wp : 64,5x39x1,4 in (1640x992x35 mm)<br>350 Wp : 77x39x1,6 in (1956x992x40 mm) | |
| | Lifespan | > 20 years at 80% of initial power | |
| | Tilt | 15° / 30° / 50° | |
| | Structure | Anodized aluminum alloy | |
| | Certificates | IEC 61215 ; IEC 61730 ; IEC 61701 ; IEC 62716 | |
| **BATTERY** | Technology | LiFePO4 | NiMH |
| | Voltage | 25,6 V | 24 V |
| | Capacity | 676 Wh, 845 Wh, 1105 Wh, 1352 Wh, 1775 Wh, 2028 Wh ou 2534 Wh | 480 Wh, 960 Wh |
| | Charge operating temperature range | -20°C to +60°C (-4°F to +140°F) | -40°C to +85°C (-40°F to +185°F) |
| | Lifespan | > 10 years | |
| **ELECTRONICS** | Total output power LED 1 + LED 2 (W) | 20 to 160 W | |
| | Waterproofing | IP65 | |
| | Operating temperature range | -40°C to +70°C (-104°F to +158°F) | |
| | Weight | 2lbs (900g) | |
| | Certificates | CE ; EN61000 | |
| | Materials | Pre-galvanized steel and zinc powder-coated steel | |
| **GENERAL** | SCx (EPA) | 150 Wp : 0,29 m² (15°) / 0,56 m² (30°) / 0,86 m² (50°)<br>290 Wp : 0,50 m² (15°) / 0,97 m² (30°) / 1,5 m³ (50°)<br>350 Wp : 0,60 m² (15°) / 1,16 m² (30°) / 1,79 m² (50°) | |
| | Fixation* | Recommended pole end diameter : 3.5 in (89 mm), solar engine spigot outside diameter :2.99 in (76 mm), Fixture : horizontal bracket * | |
| | Poids *(without pole)* | From 176lbs (80kg) | |
| | Smart lighting options | Local or remote supervision / Motion detection | |

14

15

# WHY ADOPT OUR
# SMART LIGHTING?

Imagine a world where public lighting intuitively responds to your needs, lighting your way when you walk at night and dimming to let nature take over. This is the promise of motion detection in our solar streetlights.



LED
100%
3h     1h
20%     Minimum permanent lighting
MOTION DETECTION
0%
DAY          NIGHT          DAY
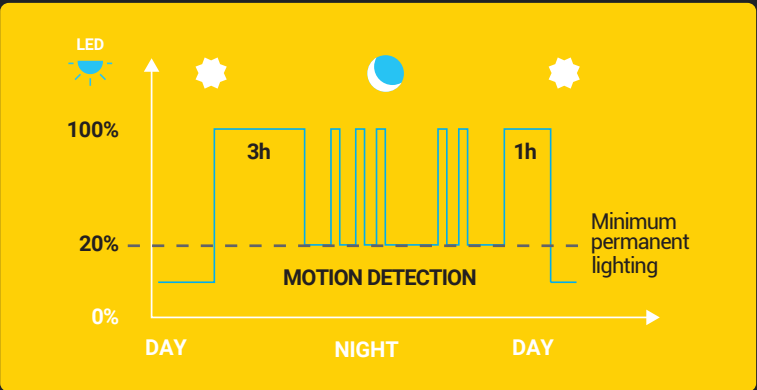
### ENERGY SAVINGS:

Lighting turns on only when needed or during a predefined time frame, significantly reducing energy consumption.

### SAFETY FIRST:

The responsiveness of our lighting ensures optimal safety for all users, pedestrians, and drivers.

### PRESERVE THE BEAUTY OF THE NIGHT:

Less light pollution for a preserved starry sky and a lesser impact on the environment.

### DURABILITY:

Our smart streetlights have a prolonged lifespan thanks to their optimized use.

## COMMUNICATING DETECTION FOR OPTIMAL SAFETY
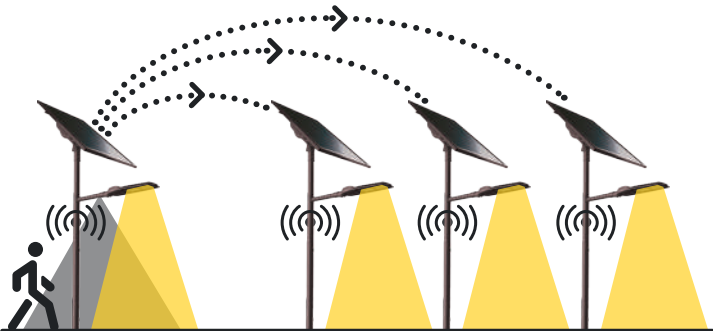


Streetlights equipped with communicating detection contain sensors and transmitters that allow them to communicate with neighboring streetlights. When motion is detected by one of the streetlights, it informs the others, allowing a group of streetlights to react simultaneously. This mesh network ensures extensive coverage, reactivity, and adaptability of the entire lighting system.

# WHY ADOPT OUR
# HYBRID LIGHTING?

Available in the EverGen range, the hybrid streetlight primarily draws its energy from the sun, with a grid power as a backup to ensure constant lighting. This combination of renewable energy and grid energy ensures both reliability and durability.



### 01. ADAPT, DON'T REPLACE!

Reduce your energy costs and carbon footprint with our hybrid solar streetlights. An autonomous and compact solution that integrates perfectly with the existing electrical grid without modifying your infrastructure.

### 02. LIGHT RESPONSIBLY!

By harnessing the sun's power, our hybrid solar streetlights offer a significant reduction in energy consumption compared to a 100% grid streetlight.

### 03. UNFAILING RELIABILITY!

- **Operating assured 365 nights/year:** Thanks to its hybrid design, our streetlight guarantees constant lighting every night of the year. Even on days without sunlight, the backup system takes over, ensuring uninterrupted lighting.
- **Reduced failure risk:** Power outages and grid interruptions are a thing of the past. The hybrid solar streetlight operates independently of the grid, ensuring quality lighting in all circumstances.

*During the day, the battery recharges through the photovoltaic panels that capture solar energy.*

*At night, the energy stored in the battery is used for lighting. If the energy reserve is too low, the lantern is directly powered by the electrical grid to ensure lighting all night.*



1 Solar panel     2 Fixture     3 Battery     4 Electrical grid

# SYSTEM MONITORING
## INTELLIGENCE FOR YOUR LIGHTING NETWORK

Public lighting, while crucial, requires optimized management to ensure its efficiency, durability, and cost-effectiveness. With our advanced supervision systems you can monitor, analyze, and manage your lighting network like never before.

Our remote supervision system is the ultimate solution for modern and efficient management of your solar public lighting. It adapts perfectly to your needs using two of the most reliable and effective communication technologies on the market.

### EFFICIENCY

Manage your lighting fleet proactively rather than reactively.

### SAVINGS

Reduce maintenance costs and optimize energy consumption.

### LONGEVITY

Better management increases the lifespan of your equipment.

**LoRaWAN TECHNOLOGY :** *For extended areas requiring wide coverage and low operational cost.*

**GSM TECHNOLOGY :** *In dense urban areas where cellular connectivity is robust.*
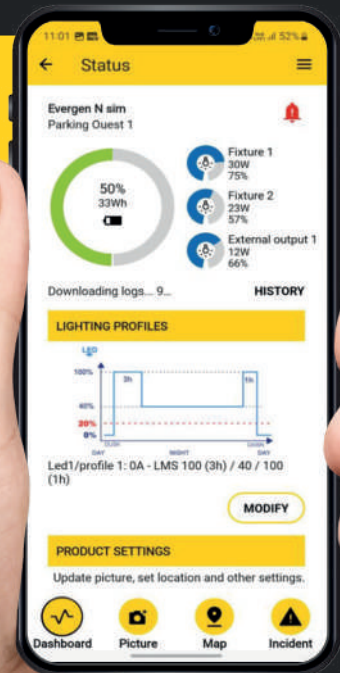
## SUNNAPP

### POINT-TO-POINT SUPERVISION FOR CONTROL AT YOUR FINGERTIPS

Monitor your products in real-time from your smartphone: maximize the control of your solar streetlights with our Bluetooth SunnApp application. Collect all product data and manage your lighting.

- INSTALLATION AND COMMISSIONING SUPPORT
- ASSET REGISTRATION AND MANAGEMENT
- PERFORMANCE TRACKING AND HISTORY
- LIGHTING PROFILE MANAGEMENT

## SUNNA CLOUD

### MANAGE YOUR ASSETS FROM ANYWHERE

Using our intuitive cloud-based software, you an easily access all of your assets' locations and performance data from anywhere with an internet connection.

- PRODUCT GEOLOCATION
- REAL-TIME OVERALL PARK STATUS
- REMOTE DIAGNOSTICS
- PREVENTIVE MAINTENANCE

# EXCELLENCE
## AT THE HEART OF OUR PRODUCTION

## INNOVATION AND FRENCH KNOW–HOW

At the heart of the solar lighting industry, Sunna Design stands out with its state-of-the-art industrial tool, a true engine of our innovation and quality guarantee. Located in France (in Gironde), our production site combines technical expertise and operational excellence, illustrating our commitment to providing high-performance and durable solar lighting solutions.

## CUTTING–EDGE TECHNOLOGY AND INDUSTRY 4.0

A factory that, as early as 2016, was one of the first in France to obtain the "Factory of the Future" showcase label thanks to its excellent results designed to facilitate operators' work.

This factory embodies modernity, equipped with advanced technologies that ensure precision and efficiency. Each component of our streetlights is manufactured and assembled with meticulous attention, demonstrating the excellence of our industrial know-how.

Thanks to the modularity of these production lines and their low energy consumption, Sunna Design can transfer part of the production process abroad. This local approach supports the regional economy and also optimizes transportation, making the entire process much more sustainable.

**100,000 PRODUCTS PER YEAR**

**5 MINUTES PER PRODUCT**

**80% TRAINING TIME SAVED**

## UNCOMPROMISING QUALITY

Quality is a constant quest at Sunna Design. Our industrial tool integrates quality control stations at every production stage. From material selection to the final check before shipment, each product undergoes rigorous testing, ensuring its reliability and longevity. This process guarantees that every streetlight leaving our factory meets the highest industry standards.

**ISO**
**QUALITY MANAGEMENT**
**ISO 9001**

Our production process is ISO 9001 certified, a testament to our unwavering commitment to quality at every stage. This distinction recognizes the efficiency of our quality management system (QMS), the continuous optimization of our processes, and our desire to fully satisfy our customers' expectations.

## INDUSTRIAL ECO–INNOVATION

Our industrial tool also expresses our commitment to the environment. We have integrated eco-responsible practices into our production, such as reducing energy consumption, recycling waste, and optimizing resources. This commitment is reflected in our product life cycle, designed to be as eco-friendly as they are functional.

**ISO**
**ENVIRONMENTAL MANAGEMENT**
**ISO 14001**

With its ISO 14001 certification, Sunna Design illustrates its ongoing commitment to environmental protection and the implementation of effective environmental management systems to minimize its impact.

# BRIGHT INNOVATION
# SUSTAINABLE IMPACT

We are committed to turning global challenges into sustainable development opportunities by aligning our actions with key Sustainable Development Goals (SDGs) – particularly SDGs 7, 9, 11, 12, and 13. Our commitment in these areas highlights our contribution to global efforts to establish a harmonious balance between human needs and our planet's capacity.

**7**

### AFFORDABLE AND CLEAN ENERGY
Providing access to energy and replacing traditional lighting with solar lighting.

**Target**

300,000 SOLAR POINTS INSTALLED AND CONNECTED IN RURAL AREAS BY 2027

**9**

### INDUSTRY, INNOVATION, AND INFRASTRUCTURE
Building resilient and quality infrastructures globally through the sustainable industrialization of innovative solutions.

**Target**

ECO-DESIGN SUPPLY CHAIN RESPONSIBLE PRODUCTION AND LOGISTICS

**11**

### REDUCED INEQUALITIES
Promoting the economic and social development of underserved populations through access to energy and data.

**Target**

30+ MILLION PEOPLE IMPACTED BY 2027

**12**

### SUSTAINABLE CITIES AND COMMUNITIES
Making lighting and IoT resilient and sustainable in smart cities.

**Target**

300,000 SOLAR POINTS CONNECTED IN URBAN AREAS BY 2027

**13**

### RESPONSIBLE CONSUMPTION AND PRODUCTION
Adopting eco-friendly practices from the design of our solutions to their recyclability at the end of their life.

**Target**

20% REDUCTION IN THE COMPANY'S CARBON FOOTPRINT BY 2027

---

# ECO-DESIGN AND RECYCLING
# THE SECOND LIFE OF OUR PRODUCTS

We design each solar streetlight to ensure durability and environmental respect, even at the end of its life. **Our recyclability rate, among the highest on the market, ensures that each component - from photovoltaic panels to batteries - can be upgraded or recycled.** This significantly reduces our ecological footprint and supports a circular economy.

**RECYCLABILITY**   **LIFESPAN**

### SOLAR PANEL
96%   |   > 25 years

### BATTERY
NiMH : 85%
LifePO4 : 65%   |   > 20 years

### METAL PARTS
100%   |   ∞

### LED SOURCE / FIXTURE
95%   |   > 100 000h

### POLE
100%   |   25 – 40 years

Sunna Design closely collaborates with specialized recycling partners to ensure the proper treatment of end-of-life streetlights.

EcoLogic | ecosystem recycler c'est protéger | Corepile | soren

# 150,000+ PRODUCTS
## INSTALLED **IN 60 COUNTRIES**
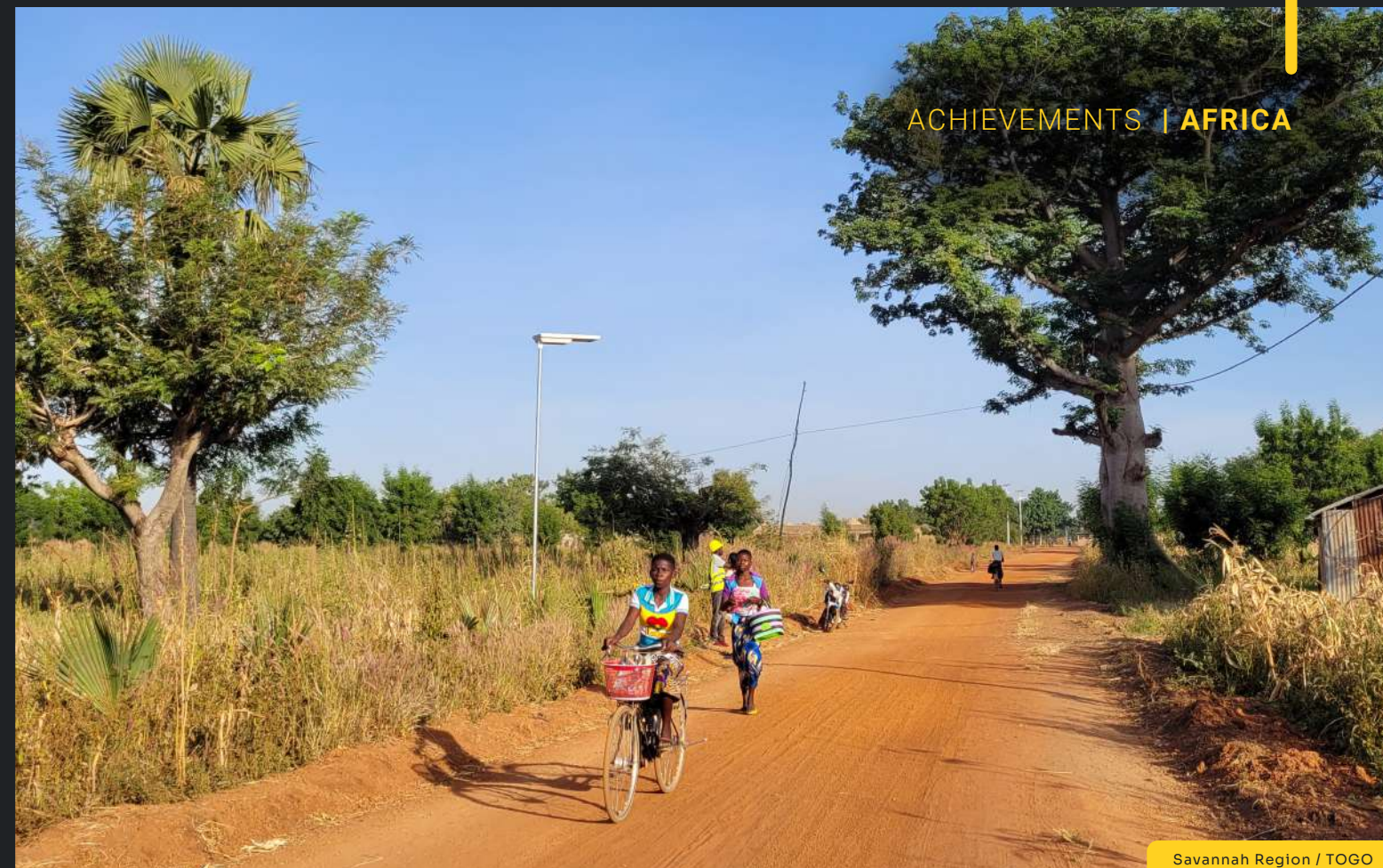


Savannah Region / TOGO

## A GLOBAL NETWORK

With established partnerships in over 60 countries worldwide, Sunna Design relies on a solid international network to meet our clients' needs. Our presence in various regions allows us to understand and appreciate local specificities while offering global expertise in solar lighting.

## INSPIRING PROJECTS

From our headquarters in France to our installations in Africa, Asia, America, and beyond, we have had the opportunity to work on inspiring projects that change people's lives. Our lighting solutions adapt to varied environments, from isolated rural areas to dynamic metropolises.

Safi / MOROCCO

Saly / SENEGAL

Entebbe / UGANDA
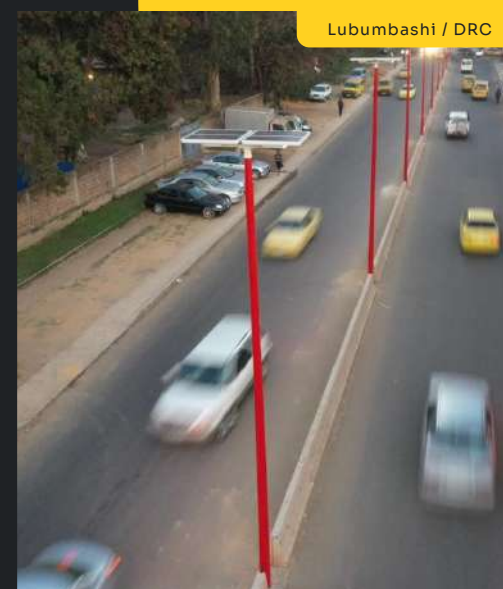
Lubumbashi / DRC

Ouèdo / BENIN

Arcachon Bassin / FRANCE

Guiana / FRANCE

Clermont, Florida / USA
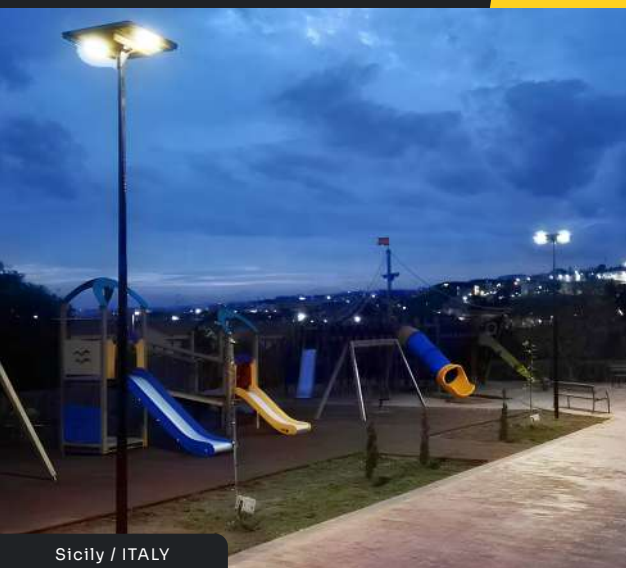
Faro / PORTUGAL

Kuala Lumpur / MALAYSIA

Sicily / ITALY
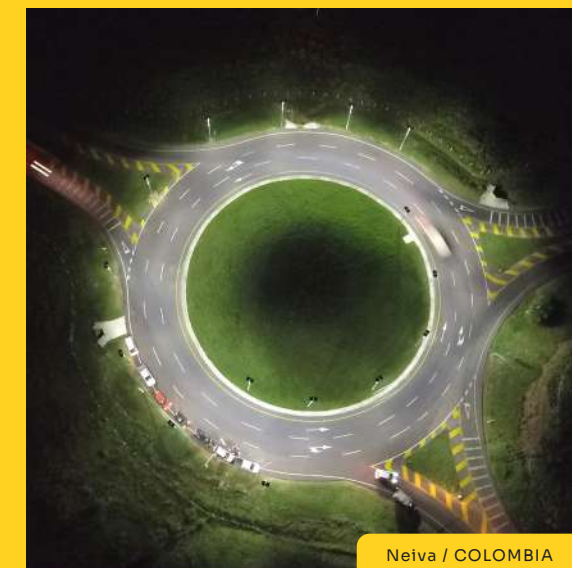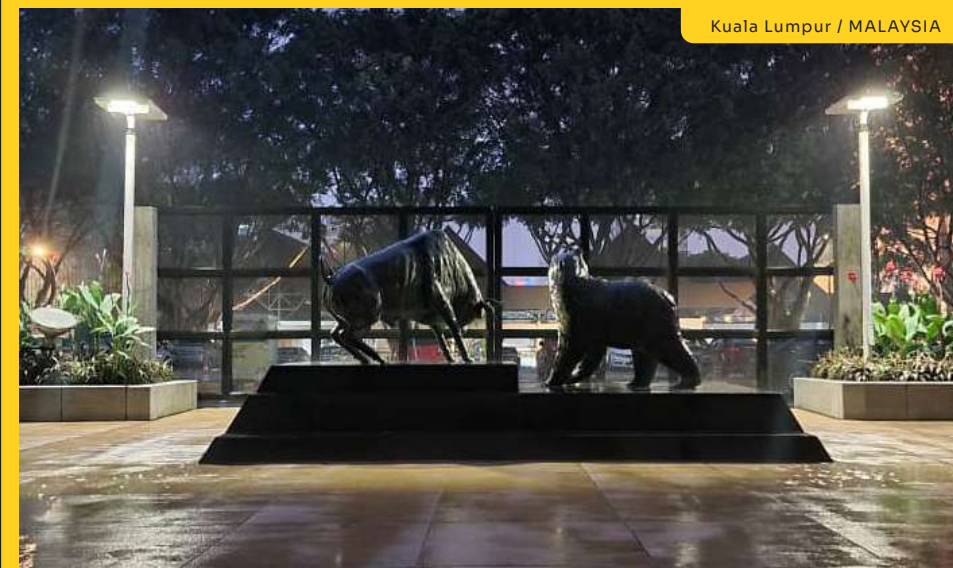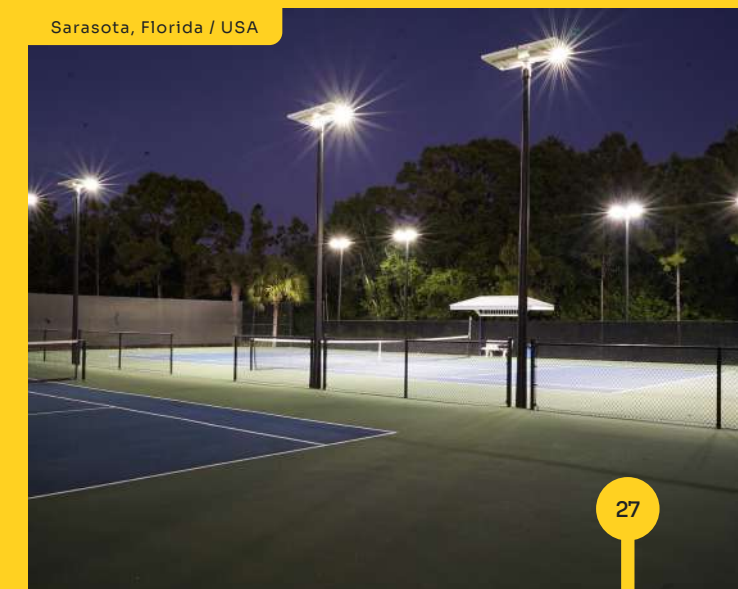
Neiva / COLOMBIA

Valencia / SPAIN<
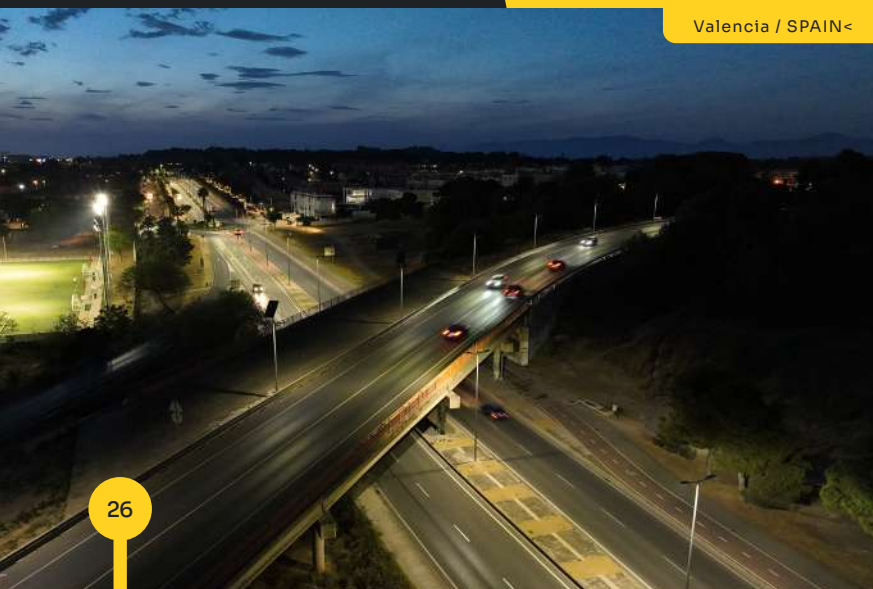
Sarasota, Florida / USA
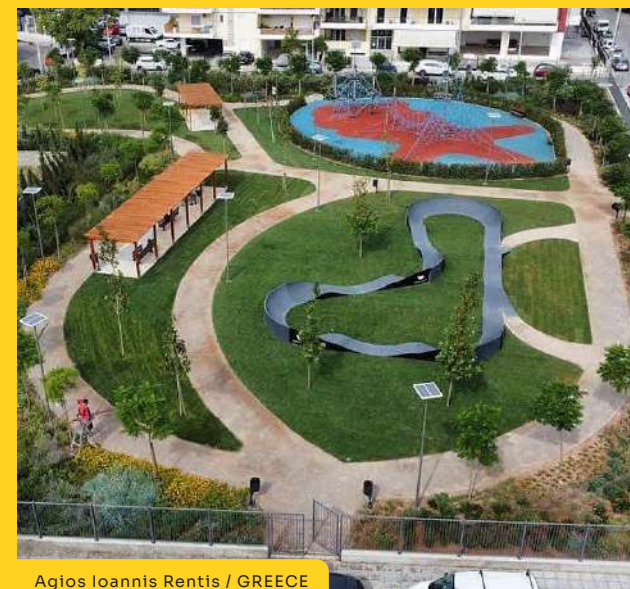
Agios Ioannis Rentis / GREECE

New York / USA

26

27
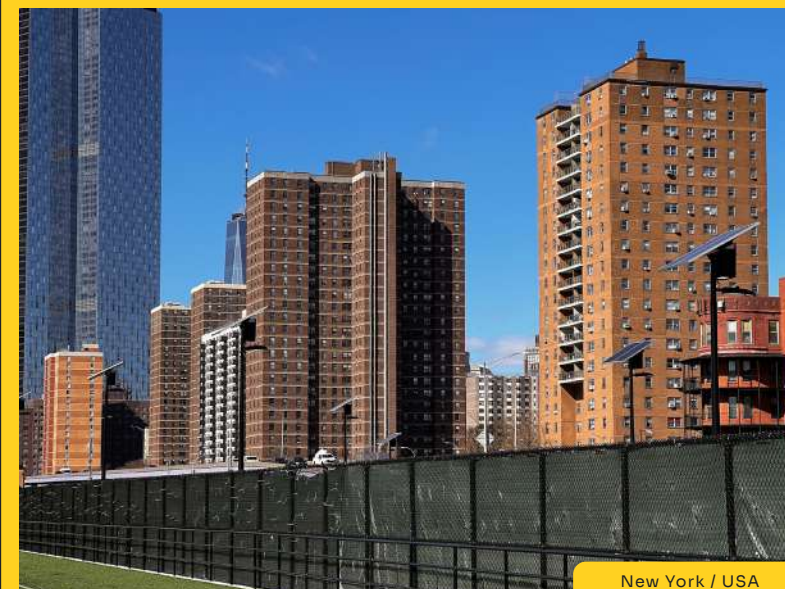
**SUNNA DESIGN,** SOLAR INTELLIGENCE

17 rue du Commandant Charcot
33290 Blanquefort - FRANCE

contact@sunna-design.com

**sunna-design.com/en**