Solar’s time to shine
Why Solar?

“Europe’s man on the moon moment”

The European Green Deal is the world’s most comprehensive climate action initiative.

It aims to reconcile the economy and the way we consume resources with the planet, making sure that nobody is left behind.

The Green Deal calls for a number of measures, including linking renewables to the grid, promoting connected technologies and boosting the energy efficiency of electrical products and devices.

“Green Deal”- they say, “Green Switch” - we respond.

Infrastructure projects such as connected street lighting retrofits create 20 local jobs for every €1 million spent, benefitting the environment and the economy and building the digital platforms needed to ensure a green future.

Lighting is the quickest path to a greener, smarter and more prosperous Europe.

Read more about it here.

Solar energy is free and available everywhere on the planet. It reduces not only the consumption of energy, but also the transportation of it, leading to savings of 50 to 100%.

Solar lighting is a reliable partner not only for new installations, but also for renovation of current installations.

Thanks to technology, the Solar energy can be used instead of, or complementary to grid electricity every-night of the year.

Solar can decrease energy consumption by up to 100% compared to a conventional solution.

Solar lighting can decrease carbon emissions by 100 million tons per year.

More than 75% of the EU’s greenhouse gas emissions come from energy production and use.

The Green Deal aims to achieve a carbon-neutral continent by 2050.

Lighting is the quickest path to a greener, smarter and more prosperous Europe.
Why Signify?

Number one
In conventional lighting, LED and connected lighting.

6.5 billion
Euro sales in 2020

2.5 million
Connected streetlight points in
58 countries
and more than
2 250 projects

100% carbon neutral
Global operations

Read more about it here.
Why **Solar with Signify**?

Signify advocates the wide adoption of solar and hybrid solar powered street lighting as it paves the way to **lower carbon emissions** and **reduces the need** for extra power stations, while accelerating the scale of renewables.

There is a possibility for built-in Passive Infrared (PIR) motion sensor. When no motion is detected the light level **decreases to 30%**, reducing energy consumption and increasing battery backup.

Solar lighting offers high-quality and reliable lighting with a design that **fits into any environment** with **minimal requirements in terms of investment and maintenance**, even when it concerns a single luminaire. We offer expert follow up on every project.

Read more about it [here](#).
Myth
There is not enough solar light in my country for 365 nights.

Myth
Solar LED lighting is not reliable, nor durable.

Myth
Solar lighting system is not suitable for every area all year long. I’m afraid of a blackout.

Myth
Because of the batteries and solar panels used, solar energy is not that green.

Fact
Hybrid-solar technology uses clean solar-powered electricity when there is sunlight, and the mains grid when there is not. Whereas in off-grid systems it can be achieved thanks to right sizing and dimming of the solar system.

Fact
Thanks to advanced technology, it’s possible for:
Up to 100,000 hours lifetime for LED lights;
Up to 25 years lifetime for PV panel;
Minimum of 10 years lifetime for Li-ion and Fer-Pho batteries.

Fact
Efficient photo voltaics, energy storage, LED lighting and IoT technology allow solar applications anywhere, anytime. You shouldn’t be afraid of a blackout thanks to battery technology improvements and charge controllers.

Fact
Our batteries are super easy to recycle. Newer battery technologies are more environmentally friendly when compared with older ones. However it is recommended to follow safe disposal norms.
How Solar lighting works

The solar panel also known as a solar photovoltaic cell absorbs the sunlight during the day and transforms it into electrical energy that gets stored in the battery.

The pole offers security and stability, making the system safe for the surrounding area. As it meets the EN40 norm, it can be installed in every geographical location.

The rechargeable battery is a type of electrical battery or accumulator. It stores the energy received from the sun during the day for when it gets dark. It can vary in size depending on the climate conditions of the current city.

The combo charge controller switches on and off the lights and charging. Thanks to the controller, we avoid both overcharging and undercharging.

The LED luminaire offers hassle-free installation and maintenance, high lighting output compared to conventional luminaires, long shelf life, provision of portability and a two year warranty. Last but not least, it’s pollution-free.

When it gets dark, the lights turn on automatically consuming the energy gathered during the day and keep the city bright and safe all night long. Reusing energy allows achieving energy savings of up to 100%.

The off-grid option uses only the rechargeable battery which makes it fully sustainable and highly efficient in terms of energy costs. This option also gives opportunity for off-the-grid communities to live in a safer and better environment with 24/7 access to light.

The hybrid option offers the possibility of connecting the solar lights to the mains grid system. As a result, in case it runs out of battery, it can be powered by the grid. This option helps countries with less sunshine use solar as well.

Hybrid charging unit + SPD box

Off-grid and hybrid systems
From the beginning to the end of the project, we’re here for you!

Become our customer.

**Step 1**

Contact our team [here](#).

**Step 2**

Discuss together the project details the expectations, requirements, possibilities.

**Step 3**

Design the project
This is a crucial part of the process to make sure that our customer is taking the most of our products, systems, services and tools with the help of Signify experts and always aligned with the European Regulations and Standards.

**Step 4**

Execute the project.
We’re always on the spot to make sure installation is being done properly.

Solar technology can help more people access cheap, portable, and clean power to **alleviate poverty and increase quality of life.** But it can also enable developed countries – and those who are the largest consumers of fossil fuels – to **transition to sustainable alternatives.**

Solar streetlighting is fully **futureproof** and is no longer being attributed only to places where existing infrastructure lacks. Instead it is being seen as an **important part of the global energy mix.** The alternative is becoming the **new norm.**
Application and use

- Highways
- Parking
- Sea/river fronts
- Industrial areas
- Parks
- Cycle tracks
- Camping
Philips range of Solar lighting solutions

<5k lumens
- Pathways
- Rural areas
- Parks

5k-8k lumens
- Parks
- Plazas
- Cycle tracks

8k-15k lumens
- Office campuses
- Suburban roads
- Inner city roads

Solar boosting energy efficiency and safety on Greek island

“We are very satisfied about the installed solar luminaires by Signify. As we have many hours of sunshine throughout the year this is a very effective and functional solution for those areas on our island that are not connected to the power grid. Additionally, the lights have such an aesthetic design that they seamlessly blend in with our island’s natural landscape.”

Fotis Mangos
Mayor of the Municipality of Leipsoi

Read more about it here.
Seville steps up citizen’s safety with Signify’s solar streetlights

“Seville is a city committed to the fight against climate change and a model of a sustainable city that meets the objectives of the strategic plan Sevilla 2030 and the UN Sustainable Development Goals. All the municipal electricity supply is converted into 100% renewable energy. That is why it is so important that one of the green areas in the city is where we will develop an innovative business project to find solutions that improve citizens public spaces usage and, at the same time, contribute to the reduction of emissions and sustainability.”

Juan Espadas,
Mayor of the City of Seville

Read more about it here.

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Solar sub systems

### PV panel sub systems
- for 12V and 24V systems
- 30Wp-325Wp flat panel
- 100-190Wp vertical panel

### Battery sub systems
- In-ground gel batteries
  - 12V and 24V
  - 65-250Ah
  - 800 cycles at 70% DOD
  - IP68 rated
- In-ground LiFePO₄ batteries
  - 12.8V and 25.6V
  - 50-180Ah
  - 2000 cycles at 90% DOD
  - IP68 rated

### Combo CC Gen4.0
- 200Wp, 400Wp and 600Wp versions
- Support Gel and LiFePO₄ batteries
- Offgrid and hybrid solar

### Cables and connectors
- Waterproof IP67 connectors
- Plug and play, easy installation
- Error-proof to avoid the mistake of onsite installation
- Different length of cables are available for various application

Click on each image to find yourselves in our E-catalogue.