

UK SOLAR POWER LTD

Winner

2024

Solar Street Light Manufacturer of  
the year in Europe



**UK SOLAR**  
POWER  
UK'S GLOBAL SOLAR SHOP

Multi-award winning British  
solar manufacturer

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# Company Profile



Founded in 2016



Better standards than provided under ROW category



Looked beyond the trend of solar in the UK



Global perspective



Complete service at the point of decision



Innovation at the heart of decision



Training and ethics at the heart of the company



**Exclusive factory**  
**British R&D**  
**Experience** **Reliable British warranties**  
**UKEF Financing eligible**

# Why UKSP?



## Product Innovation

Working on smart solutions and applying to real situations. Designing, creating and trialing multiple ways to solve the situations that present.



## Experience and Bespoke offering

Experienced and deployed Engineers across 21 locations Globally. Listed and approved with all major NGOs, 43 state Governments and fully supported and endorsed by the British Government



## Always listening and evolving

All issues are observed and global teams are encouraged to share knowledge. UK Solar Power identified there is no 'one size fits all' approach and aims to make solar an easy choice.



## Service Innovation

Delivering high quality service solutions that allow us the best after-care service in the market. Always creating new and smart features that allow our products to appeal to broader market

# What we offer

In-house and externally sourced solar solutions to meet a variety of needs across the solar industry. Working with key hubs, UKSP has created partners across the globe to deliver solutions to every-day problems.

Working with governments globally to understand the core needs in solar and provide lasting solutions.

**Solar Street lights**

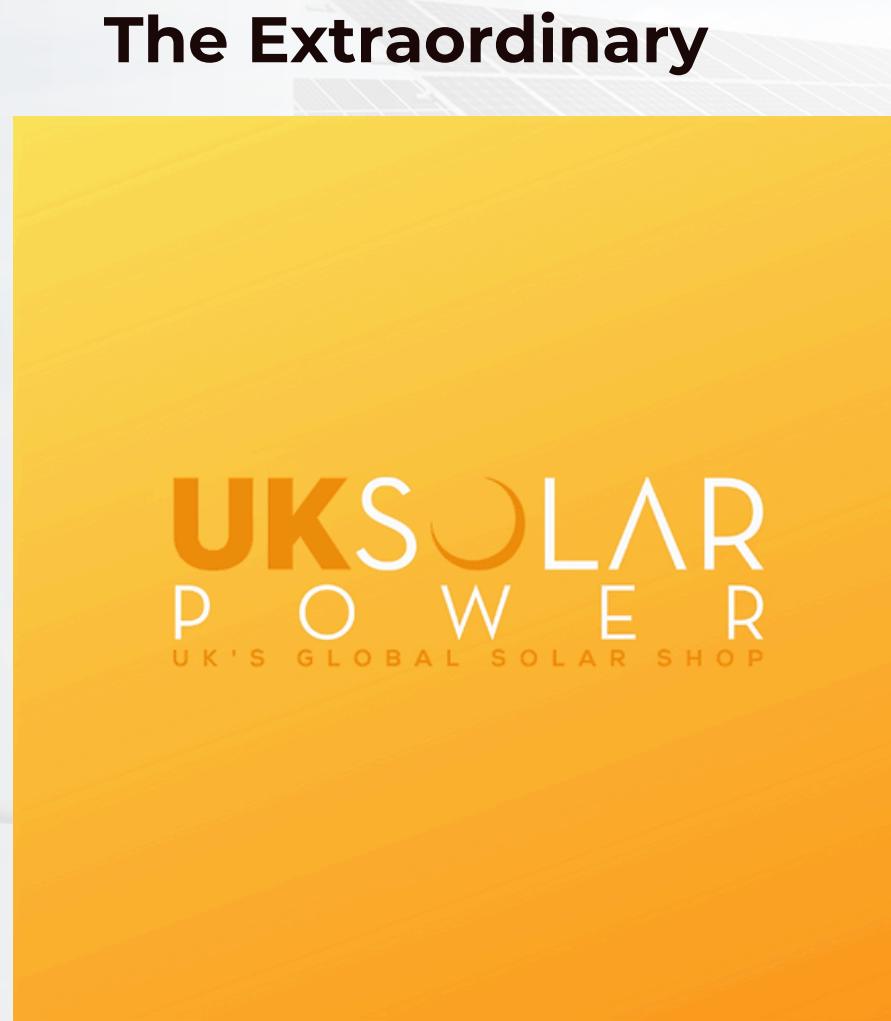
**Solar Panels**

**Solar pumps**

**Batteries and inverter**



# where do we sit?

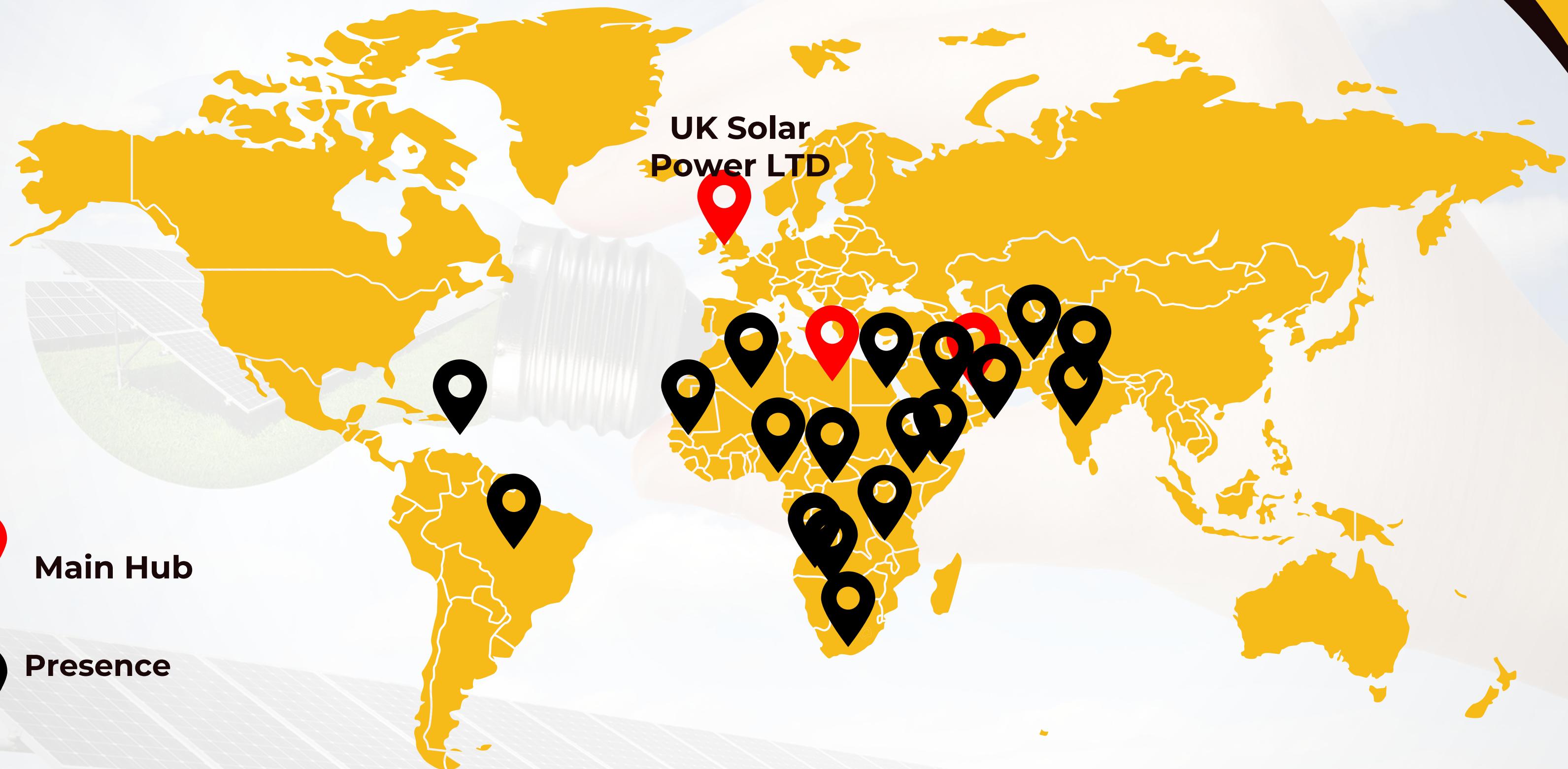


**The Extraordinary**



Bespoke service tailored  
to 360c the solar  
demands

# Reach



Since 2016, our mission has been to maximise solar applications in the MENA region as we embarked on our solar journey. Since then, we have focused on designing, testing, and discovering the most suitable applications for the area. After installing numerous units throughout the region, we have now integrated smart technology to provide the most optimized solar lighting solutions.



# OUR EARLY VISION

Throughout our projects, we have experimented with different versions of our current light in countries like Iraq, KSA, Libya, Egypt, and Chad. Additionally, we have collaborated in over 21 locations, partnering with NGOs, as well as B2G and B2B audiences.

The projects have allowed us to customize our product and explore research and development more thoroughly, leading to the creation of a versatile solar light unit that is suitable for multiple applications.



# THE SOLUTION

Our GenV9 Sahara street light represents the most recent advancement in our series of solar lighting solutions. It is designed to provide real-time data about the unit, along with operational features that can be modified and detailed fault reporting. This allows a team member to address any issues efficiently.





## UK Solar Power Eco v9 VS electrical models

- Reduced civil works and labour costs
- Huge savings on electricity costs AND reduced pressure on local grid.
- Solar street lights are light sensitive thus sure to come on without the need for timers that sometimes fail.
- Zero failure due to cable, grid or fuse failure.
- Where there is failure there might be the odd one rather than an entire row reducing maintenance costs.
- Easy to install in any location as no need for a grid connection providing a night economy in remote areas.
- Significantly lower maintenance costs as they are independently installed.
- Zero carbon emissions, commit to your green agenda.
- Significant decrease in crime from stolen parts including copper theft.
- UK Solar Power solar street lights come with an IOT app thus auto fault detect and repair.
- Tailored solution to ensure better lighting and less glaring thus promoting better night time driving experience and less accidents.
- Up to 7 years double backed warranty

# Our superior Battery storage



- Longer cycles and better quality - 2,300 cycles at 100% DOD or 3,300 at 80% DOD
- Multi temperature material resistance - adaptable casing and material to allow for optimal performance in all-weather and climates. Fully waterproof casing ensuring battery safety even during stormy and rainy season.
- Longer life span- Works in temperatures from -30c to 65c without any issues on battery strain. Batteries are built to last longer. Tested in extreme conditions.
- Inbuilt safe housing - ensuring there is no dust and water penetration of the unit.
- **Anti-movement** - Battery is secured to unit to avoid movement that can lead to product failure - a common fault with many solar street lights.
- Truly eco - Green battery and eco build to ensure that the solar unit is fully green compliant.

**70ah VS 50AH**



# Smart Controller

- **Superior controller** - European engineered & Manufactured MPPT smart controller
- **Automatic programming** - We can program your lights to your preference. Option 1 - Maximum constant lighting achievable in dark conditions. Option 2 - Motion Detect Sensor in dark conditions
- **Smart protect** - The charger ensures that the unit doesn't over-charge or face any discharge during use.
- **Conversion efficiency** - Monitor and track peak conversion of 98% and Max output efficiency of 98%.
- **Top casing material**- A metal housing and IP67 waterproof level to ensure maximum performance even in poorer weather conditions.
- Housed within a protective barrier to prevent the damage from the extreme heat and sun.
- **Anti-movement** - Smart controller is secured with MP4 connectors to unit to avoid movement that can lead to product failure - a common fault with many solar street lights.



# GENV9 Sahara

- Perfect balance-5050 Phillips light chip used
- **Superior lighting experience** - Brighter than similar wattage solar street lights -
- **Weight**- 50% less weight vs traditional solar lights with the same functionality allowing for flex when wind conditions are high
- **Anti-theft** - With clever battery and wire integration there are **NO** opportunities for theft of elements.
- **Low maintenance** - Once installed there is very little by way of upkeep required. The units are under warranty for 7 years.
- **Water safe** -Tested in the most extreme weathers to ensure fully waterproof
- **Dust proofing** - One additional extra is the triple dust filtration in the unit.

# The GENv9 ECO application



- Immediate reporting of **ANY faults** via IOT networking
- Air quality and car reading technology
- Engineer and technicians deployed immediately within pre-agreed timeframe to repair or replace.
- Factory parts are our own so instantly available to use
- Application easy to apply
- Dim or increase light supply according to car flow

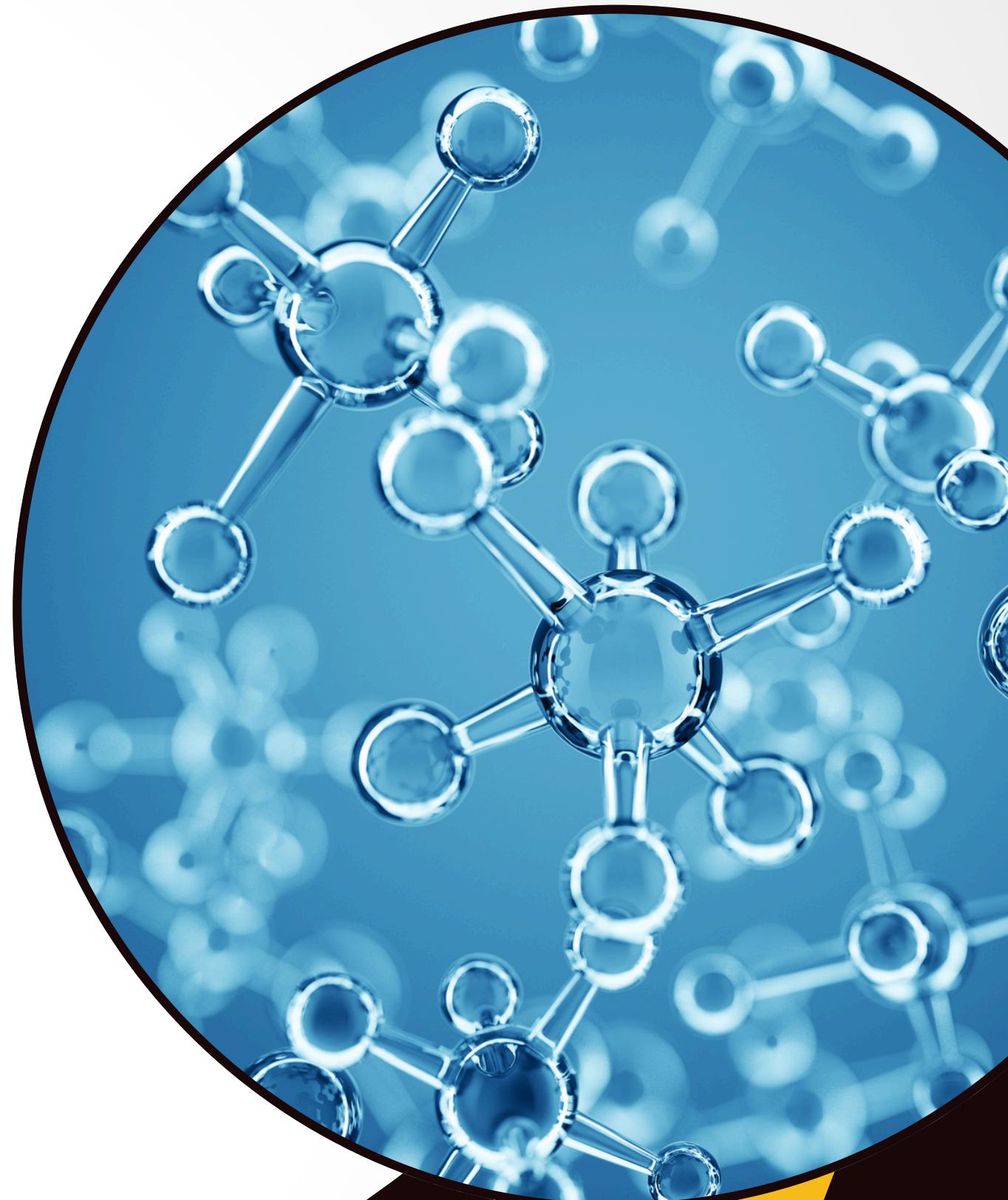


# Nantronics

## Applications we can use on

KOREA NANOTRONICS is one of the Leading Flexible Nano-Semiconductor and Displays device's Researcher and manufacturer Group, based on its advanced nanomaterials for magnetics, optic & plasmonics property by nanofabrication, & nano-processing & nano-manufacturing. Dep't Se mi-conductors & Transisters is nanostructured multi-layer Transparent Flexible Graphene & CNT films types for nanoelectronic applications. and another Dep't of Advance Display, is Flexible transparent Thin Film types.

- 1 **Coating on lights and panels**
- 2 **Batteries enhancement**
- 3 **Solar cells**



# Our projects 2024



**Road lighting**

28,200 streetlights  
installed in Libya  
\$9,000,000 Supply  
only



**10MW Grid  
system - Iraq**

Full design, supply and  
installation oversite  
\$5,900,000



**2MW grid connected  
system - Libya**

Full design and supply  
\$2,100,000



**695KW stand alone  
system - Ghana**

Supply and design of  
systems  
\$1,700,000



**10MW of panels -  
Ukraine**

Supply of panels  
\$2,250,000

# UK Solar Power Sahara

## EcoV9 Summary

- **IOT Technology** - auto-detect light failures via our GENv9 ECO app. for immediate repair.
- **QR code** - Distinguish individual lights and precise location.
- **Nano coating** - Self cleaning solar panels ensuring optimal performance of solar street lights and less maintenance
- **Unique housing** - Our industry Unique GenV9 housing ensures maximum filtration of dust and water even in the most extreme weather conditions. - tested in desert conditions -
- **Superior battery** - 70ah battery compared to 50ah industry standard.
- **Superior LED brightness.** - We only use the highest grade Philips 5050 chip LED light ensuring superior brightness.
- **EU MPPT Controller** - Our smart controllers are always European manufactured to guarantee unparalleled longevity of our lights
- **Superior internal and external finish** - All internal cables and nuts fixed properly using MP4 to avoid loose ends and malfunction.
- **7 years British advance replacement Warranty** - One of the highest warranty in the industry on any solar street light.
- **UKEF funding eligible** - UK solar power solar street lights are eligible for the United Kingdom's UKEF Financing.
- **European award winning solar street light**

