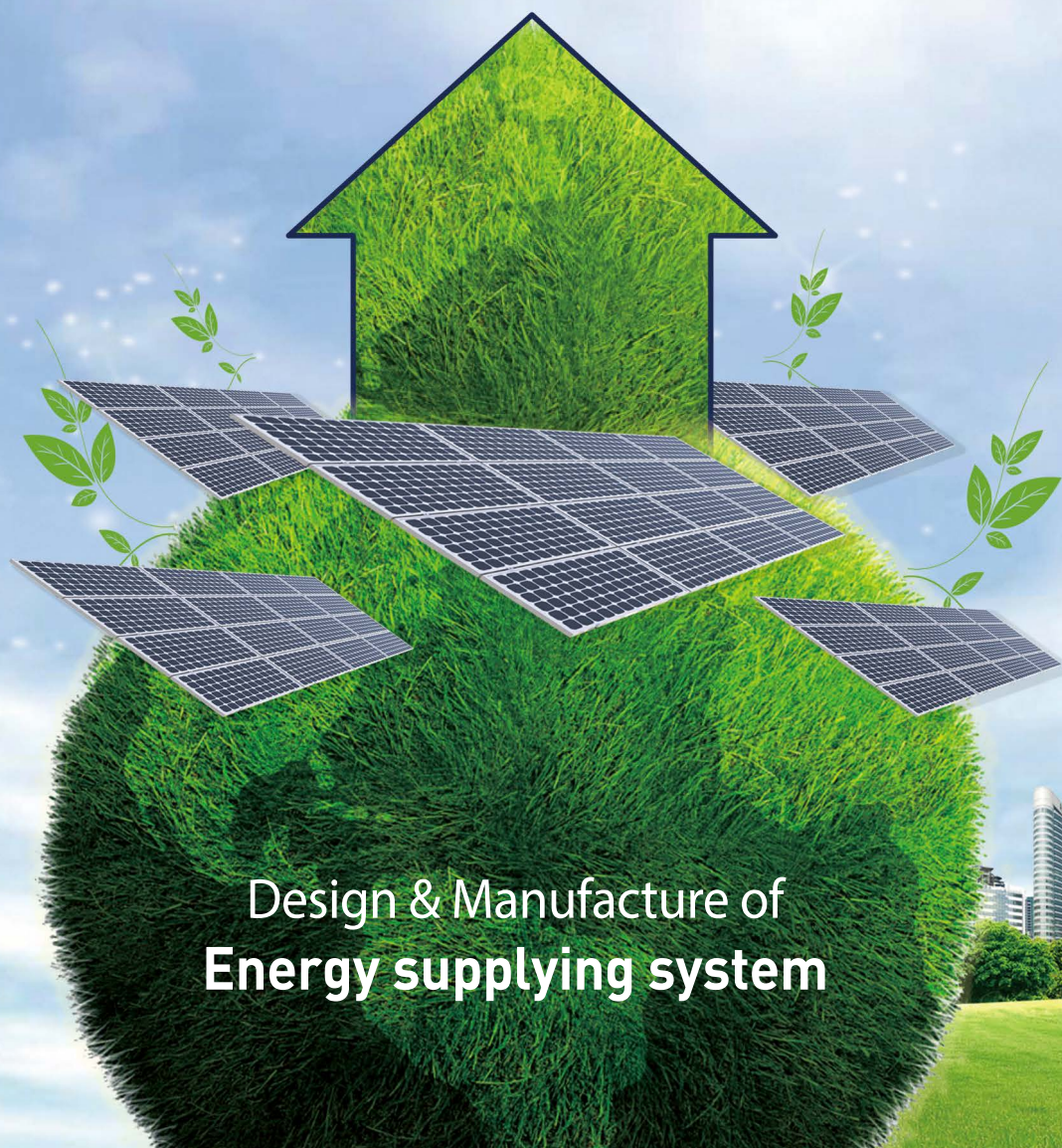


# **SOLARLIGHT KOREA**



Design & Manufacture of  
**Energy supplying system**



# SOLARLIGHT KOREA

## GREETING ○



We are specialized in energy supply system solution (Design and Manufacture).

Our mission is to provide energy to people who are in need, with very simple and easy setting. We hope that SOLARLIGHTKOREA is a best solution for energy need.

We are expert in designing & providing the best solution which can stabilize energy supplement. Our business includes Off-Grid Photovoltaic system, ESS, UPS, Solar photovoltaic power station, maintenance, home system. Our company member makes high efforts and support for customer. And we hope that our activity can contribute to improve our environment and sustainable development.



 Field of business

# WHO NEEDS ENERGY?



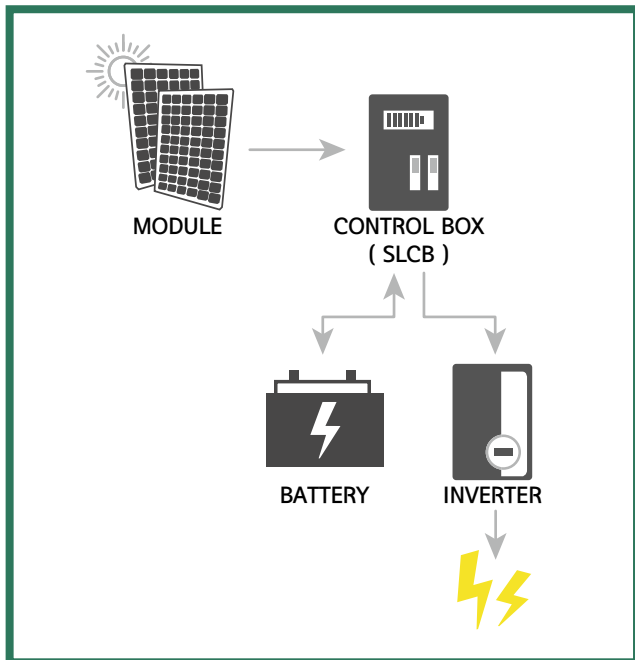
## SOLARLIGHTKOREA CAN HELP YOU!



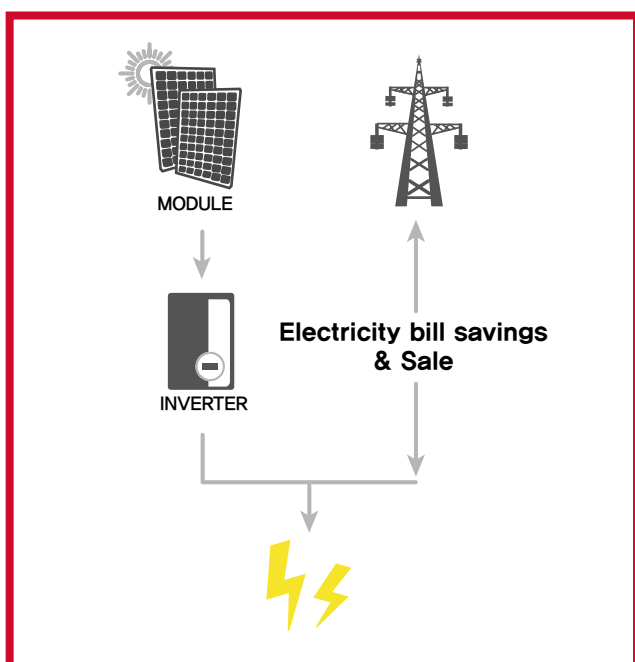
# SOLARLIGHT KOREA

## Design & Manufacture of Energy supplying system

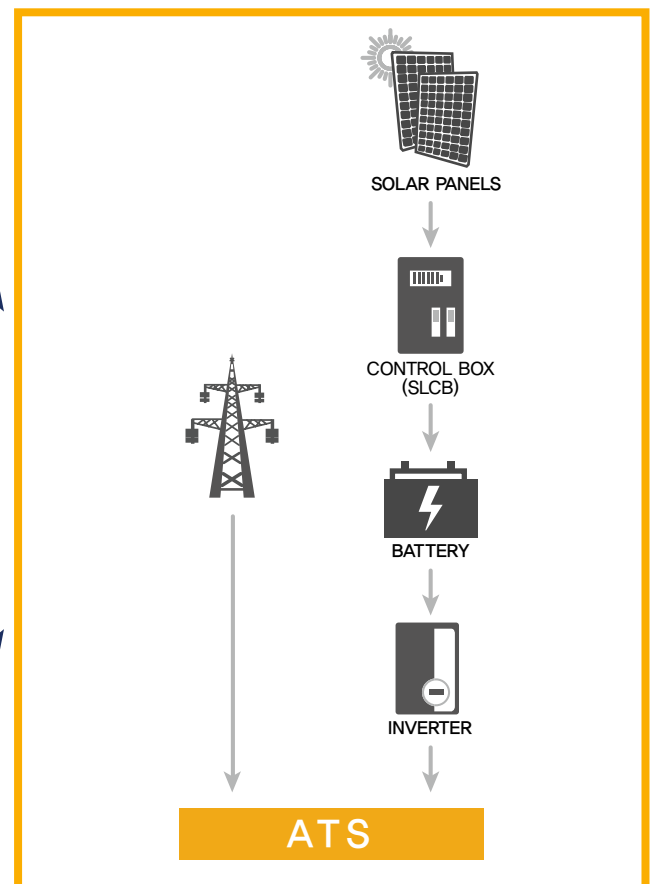
### OFF-GRID (STAND ALONE) solar system



### ON-GRID solar system



### HYBRID solar system



# 1. OFF-GRID SOLAR SYSTEM (STAND-ALONE)

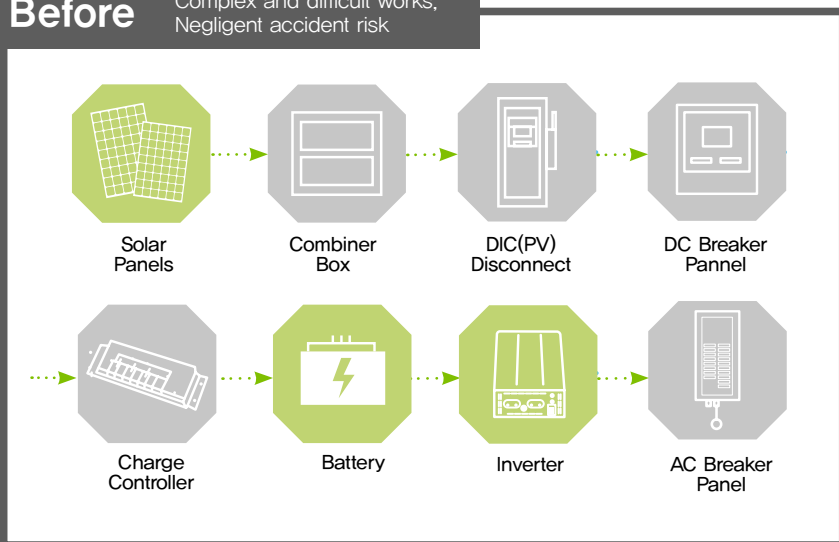
## 1-1

### OFF-GRID FOR HOME

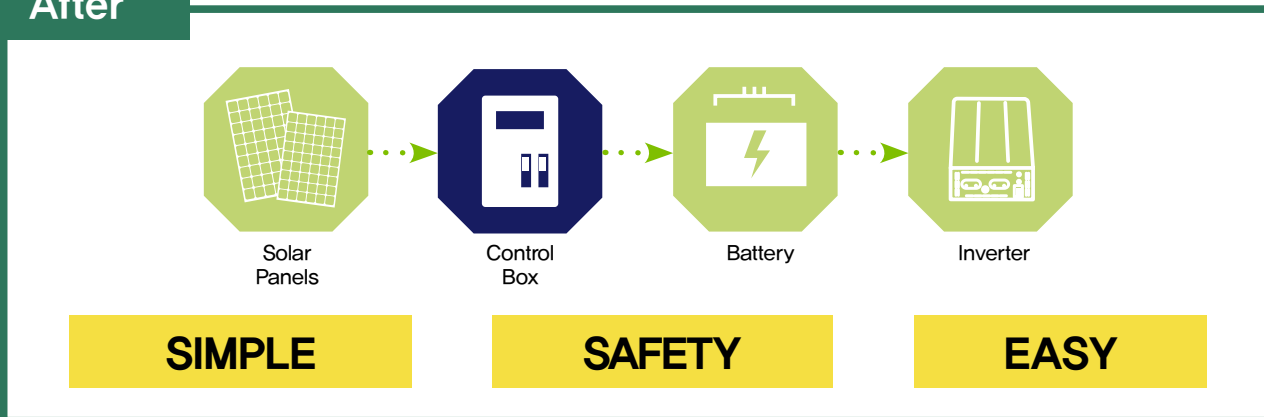
An Off-Grid solar power system supplies the electricity where it's not implemented. Expert know how to provide a solution design for various power needs. It used for home, hospital, school, island, street light, CCTV, temple etc.

#### Before

Complex and difficult works,  
Negligent accident risk

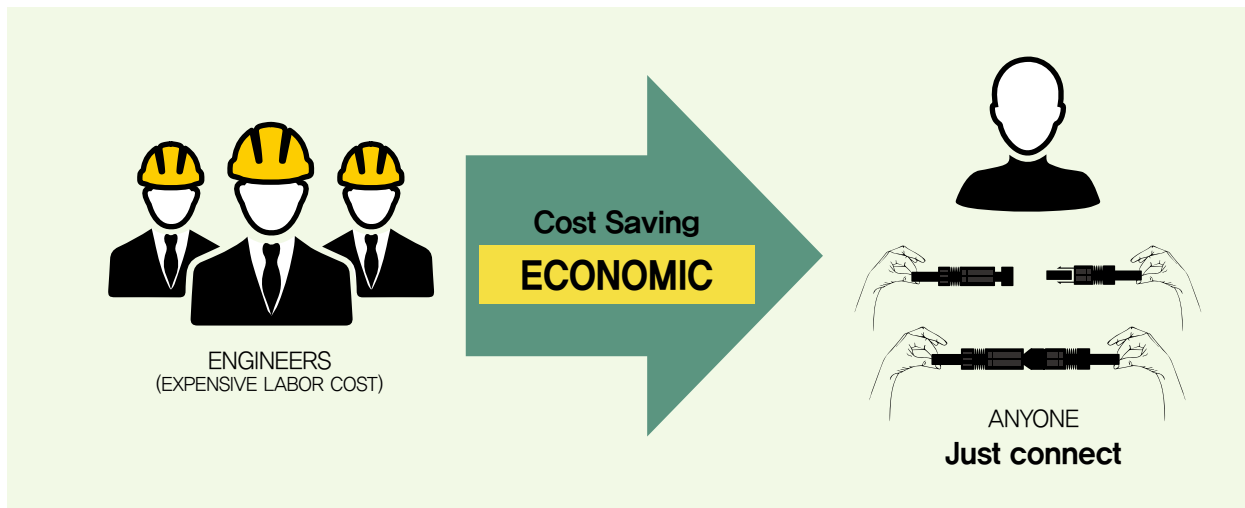


#### After

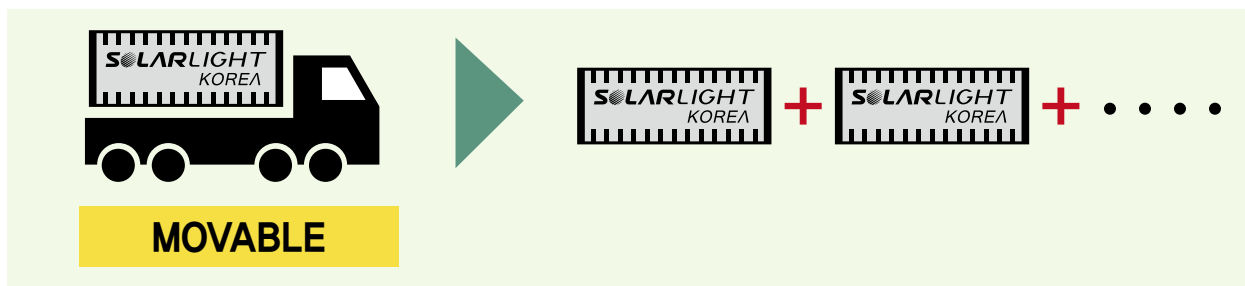


## Solarlight Solar System Feature

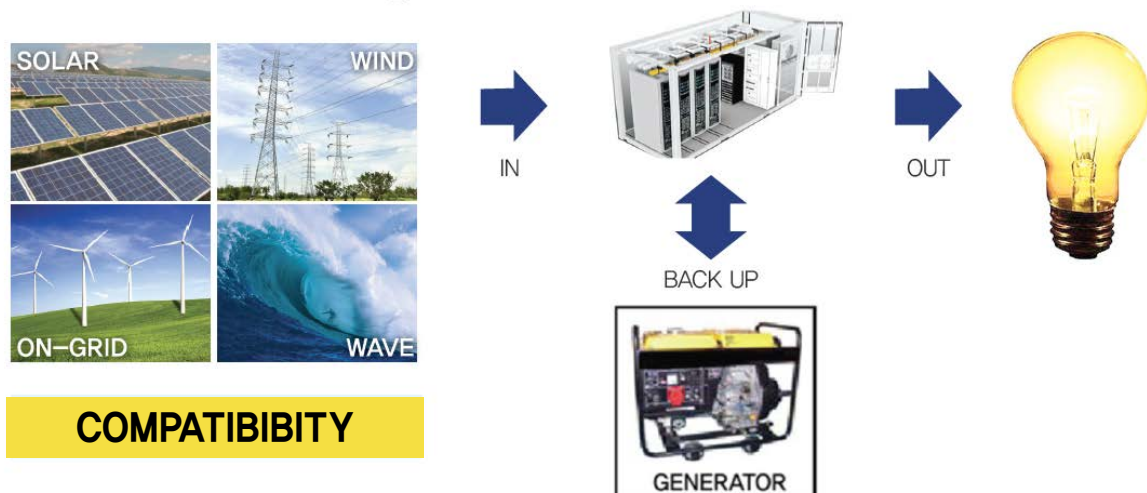
### ■ A reasonable cost



### ■ An easy expansion



### ■ Connect with various energy





## 1-2

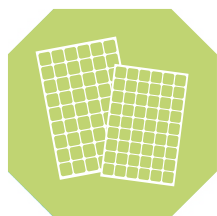
### OFF-GRID FOR WATER PUMP [SUNERGY]

SUNERGY contains Supercapacitor battery which can be used semipermanently.

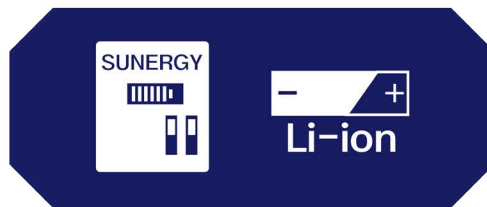
Also, It suits the cost of maintenance. SUNERGY can support various loads(water pump, etc) and produce electricity without storage battery & inverter.

The advantage of sunergy is SIMPLE & CHEAP. You can extend the capacity without storage battery system. So you can save the cost.

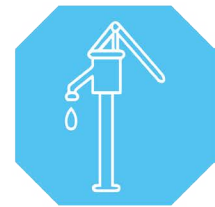
Furthermore, It's easy and safe to install. Even teenager can set up this just in 20 minutes.



Solar  
Panels



SUNERGY



Water  
Pump



#### ■ Off-Grid : Sunergy

- Off-grid without battery
- Sunergy for various Application (ex. water pump)

### Feature

- It can be interlocked with insolation (activate only daytime(from sunrise to sunset))
- It contained Supercapacitor battery(No need to storage battery & inverter)
- Supporting various loads
- Reasonable price, high quality for safety, semipermanently use
- Easy to install(simple component)



### Example

- Water for agricultural use, fish farm
- A Development country, drinking water(well, pump)
- Fountain
- The place which unstable power supply
- Landscaping, interior

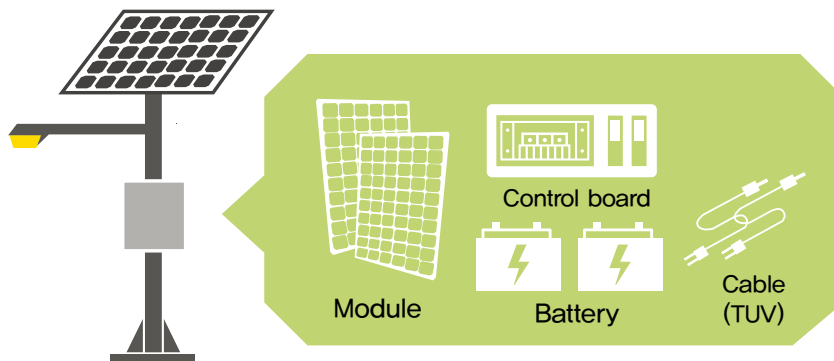




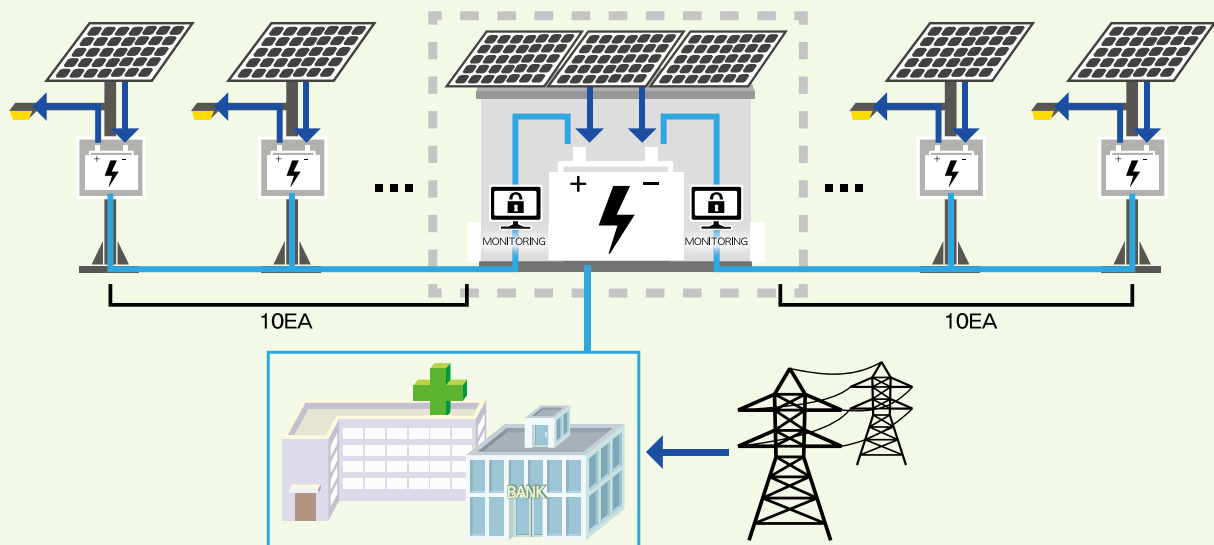
# 1-3

## OFF-GRID FOR STREET LIGHT

- Timer function
- Battery charge control (Prevent overvoltage)
- Prevent reverse current function
- Adopt a PLUG & PLAY method
- Use TUV certified product
- Flexible extension



## Applications available as a HYBRID TYPE



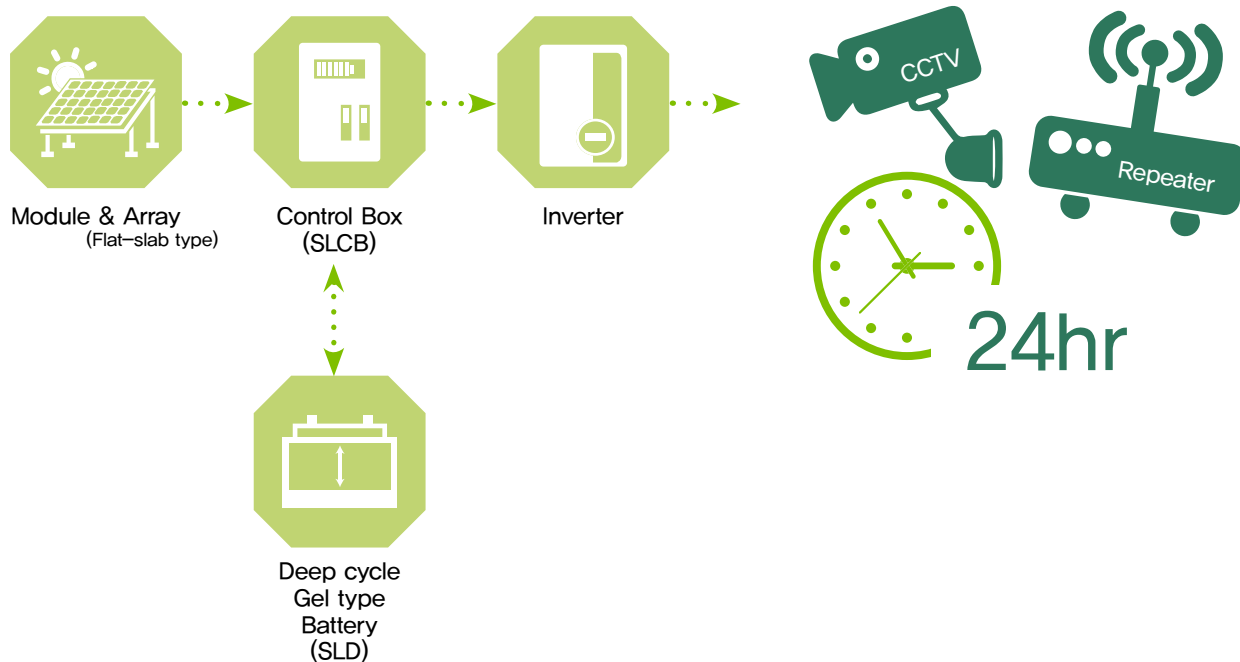
# 1-4

## OFF-GRID FOR CCTV, TELEPHONE REPEATER, MILITARY USE

Optimal solution for Using CCTV, Repeater(Load) in Off-the- grid area,  
Military use in military area,

Over capacity battery & Deep cycle battery for emergency  
situation

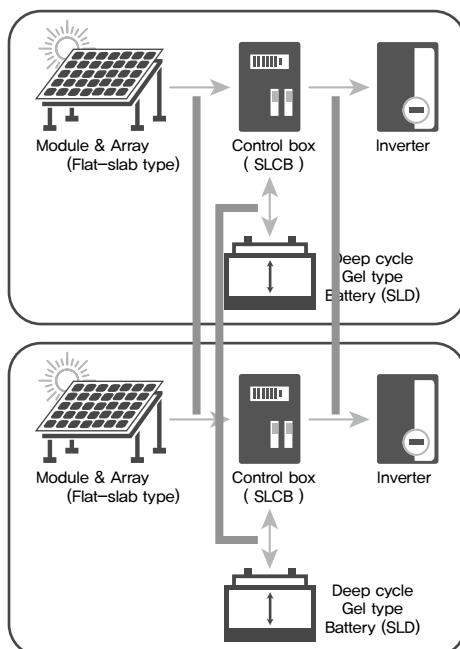
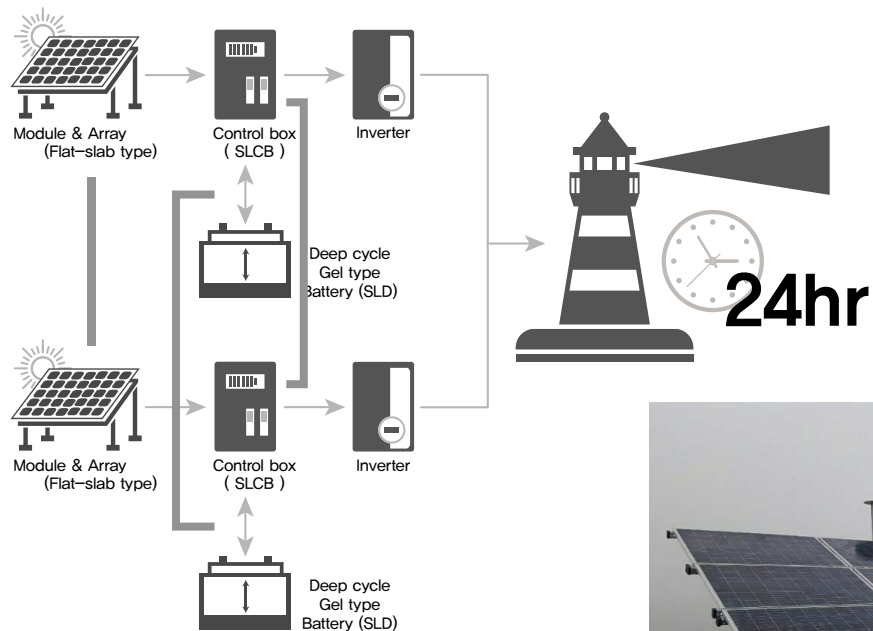
Pure sine Off-grid inverter for generality use (load compatibility)



## 1-5

OFF-GRID FOR  
LIGHTHOUSE,  
MARITIME

Optimal solution for island, seashore, artificial island (Off-the-grid area)  
Over capacity battery & Deep cycle battery for emergency  
situation  
back-up system



# 1-6

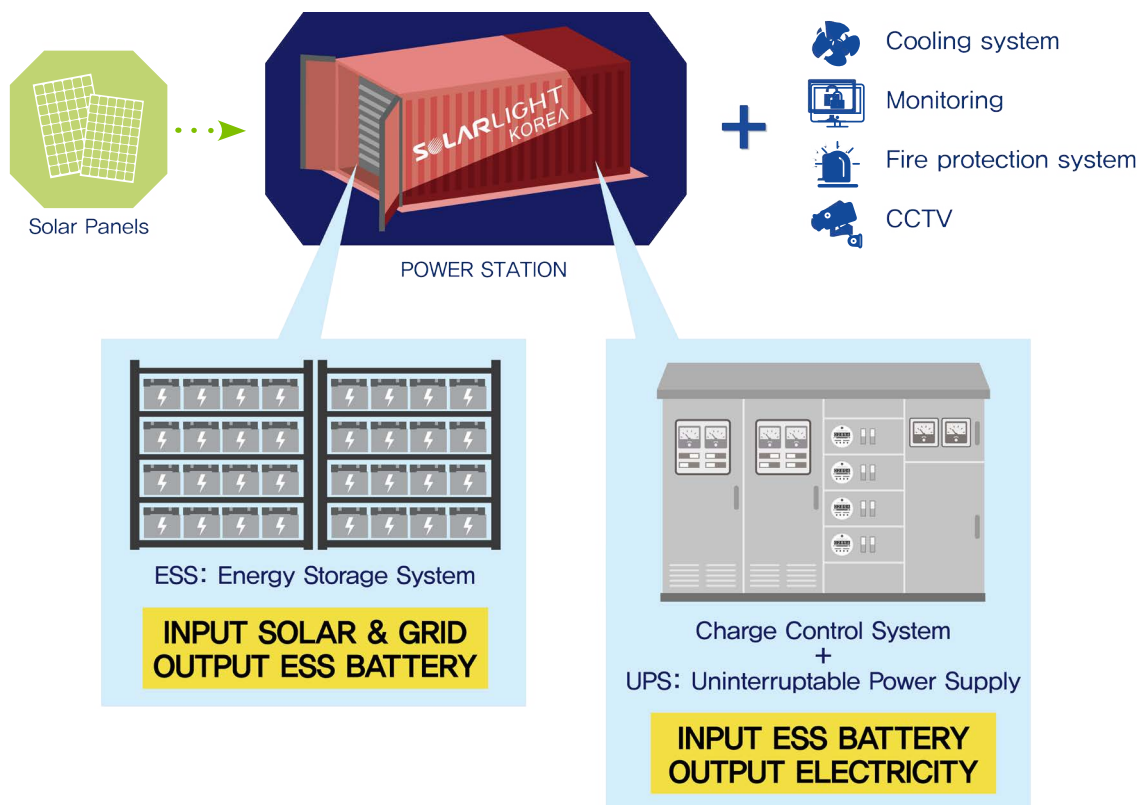
## OFF-GRID POWER STATION

The combination of Off-grid solar, ESS, UPS system.

The features of Plug in island is the solution which can supply electricity Easy & Economic.

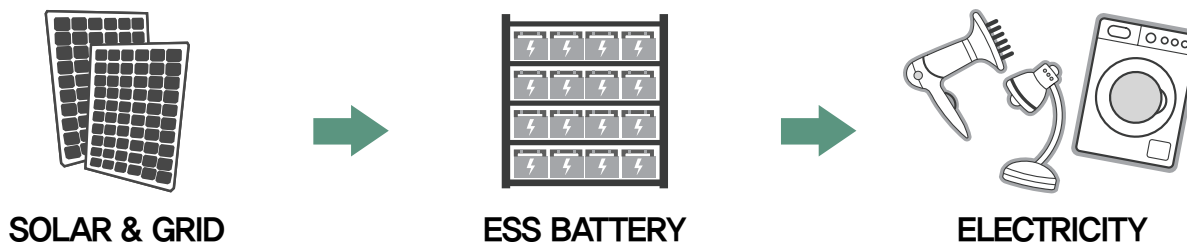
The solution is simple structure. Except the solar modules, the whole system set in container.

So, It can save construction time, Labor cost and can supply the electricity at a reasonable price.



**EASILY & ECONOMICALLY  
SUPPLY ELECTRICITY**

**Simple composition / Easy maintenance, Save construction time**



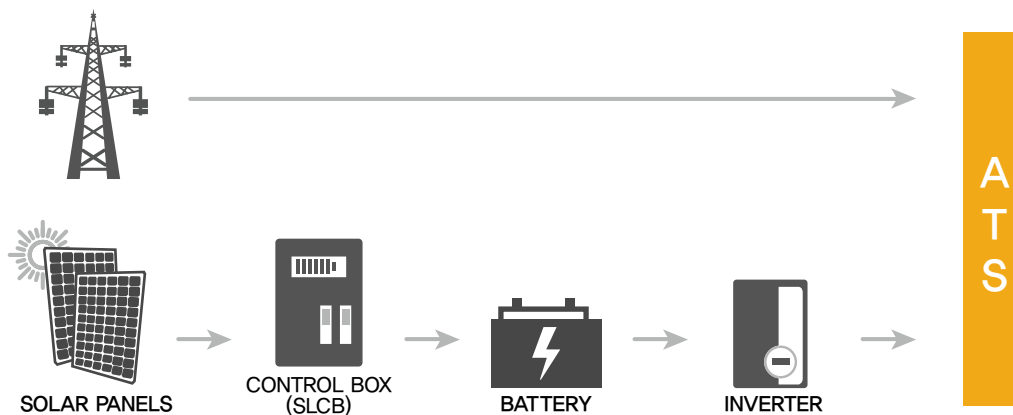


## 2. HYBRID SOLAR SYSTEM

### 2-1

#### HYBRID [VENUS]

- The system check the electricity bill and amount of consumption by Real time. The customer can choice the time slot(cheapest electricity bill) and use electricity
- generating system power source : replacing fossil fuel with renewable energy(Solar, wind, wave, etc)
- Merge IT technology to intelligent grid system : electricity supplier and consumer changing information interactively to optimize energy efficiency
- Preparation for Black out by decreasing Peak-time energy consumption



#### VENUS S-SERIES

Enhances Customer Service	Improves Operational Efficiency	Enhances Demand Response & Load Control	Transforms Customer Energy Use Behavior	Supports More Utility Energy Efficiency Investment
Enhances Customer Service	Reduced Line Losses & Voltage Control	Energy Savings Through Peak Demand Reductions	Direct Feedback to Consumers of Energy Usage via Display Devices	Support New Utility Business Models

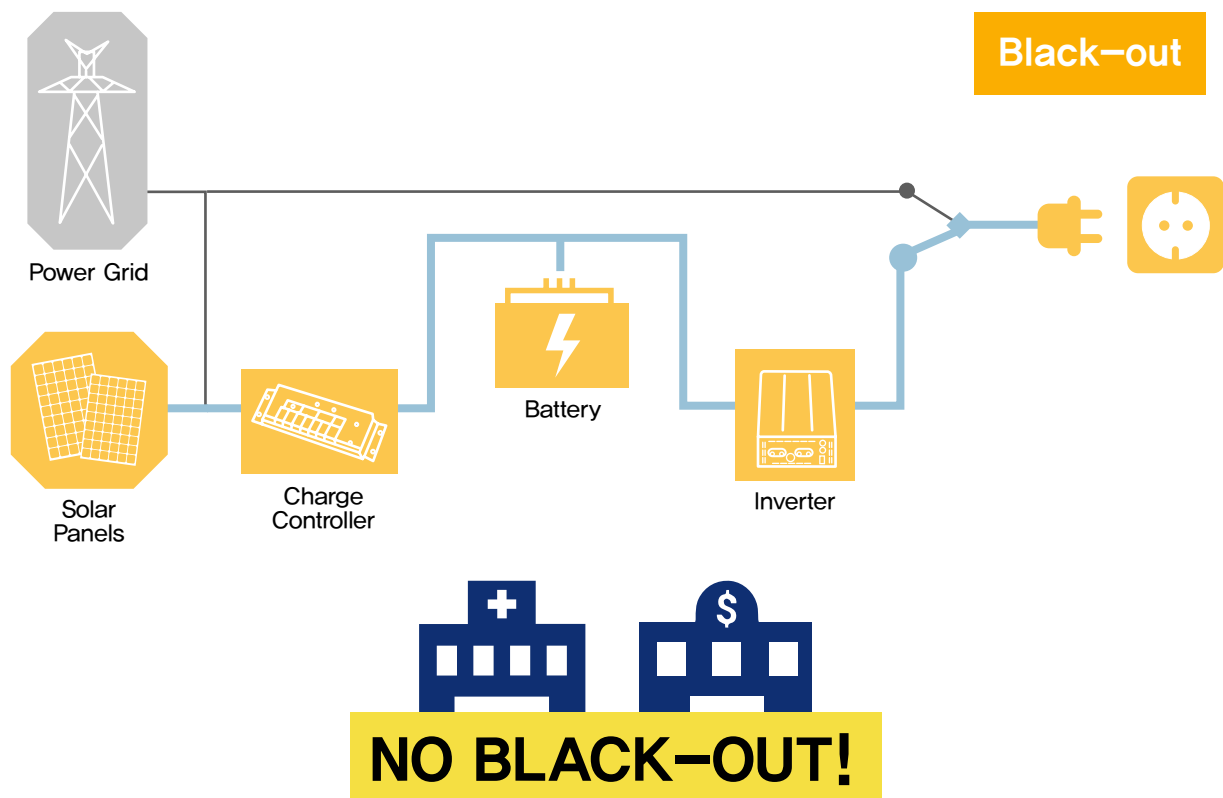
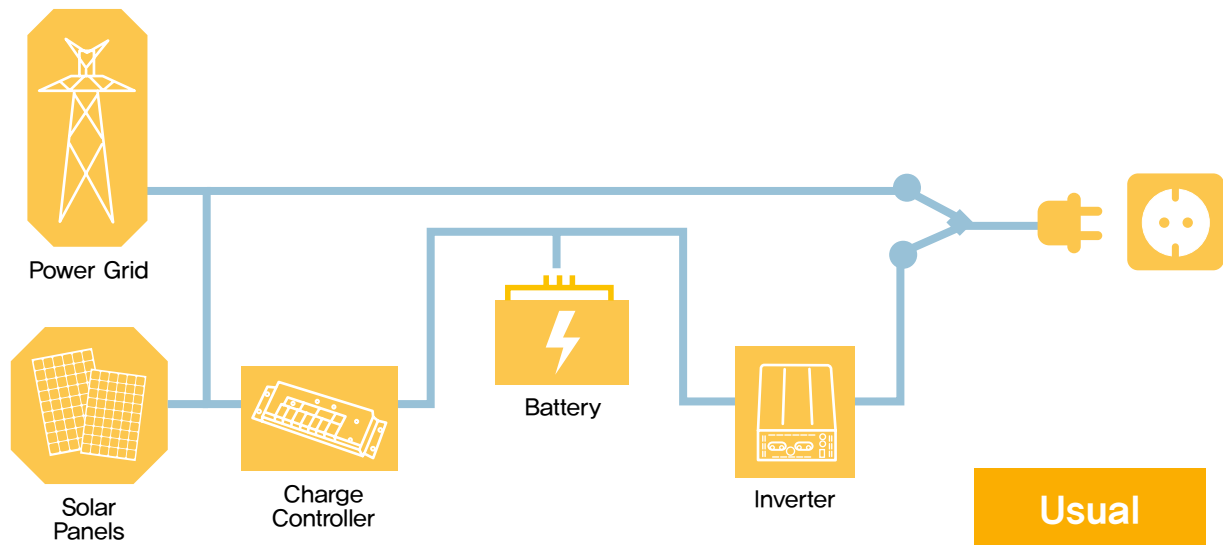
The Smart Grid utilizes demand response and energy efficiency to allow for customer choice.



## 2-2

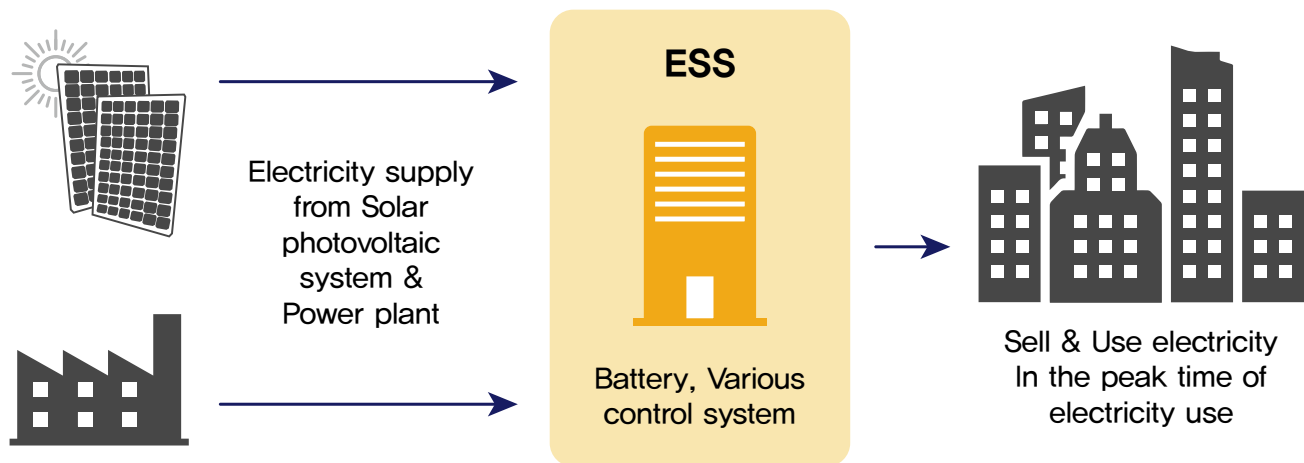
### HYBRID UES (=UPS+EES)

This On-Grid Uninterruptible Power Supply and Energy Storage System automatically changes to Photovoltaic power system when blackout occurs. Maintain electricity supplement continuously, It used for large capacity load in the bank, hospital, server, home, etc (No damage on temporary shut down).

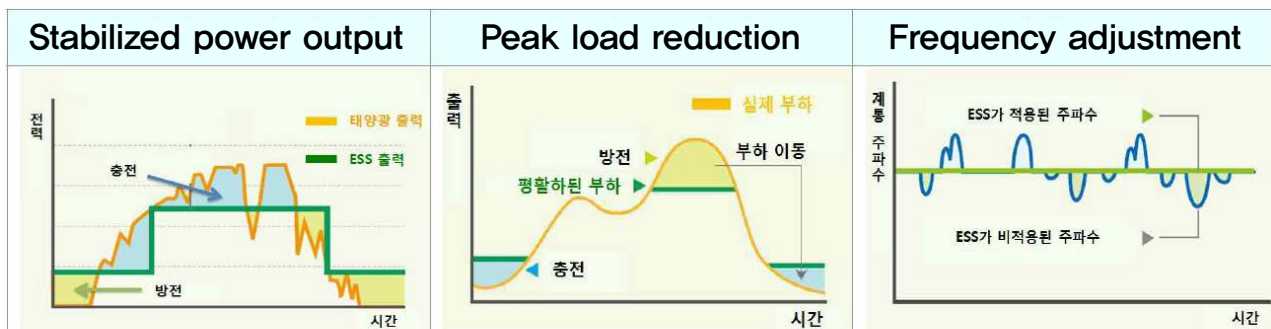


## 2-3 HYBRID ESS (FOR SOLAR PLANT)

Recently, On-grid lability is increasingly unstable by connecting electricity generation from Renewable energy. Because of this, adopting ESS is urgent issue to stablised the output of electricity generation from Renewable energy. And, In situation what the government considerate additional subsidy, the needs of developing system which combine solar power plant with ESS is going to increase.



### ■ Status of Photovoltaic ESS utilization



\* 출처 : Panasonic, "Storage Battery System Using Lithium-ion Batteries", '12.6

## 2-4 HYBRID SOLIGHT

SOLAR + LED = NATURAL LIGHTING

Provide Natural lighting effect, Just solar system and LED blub

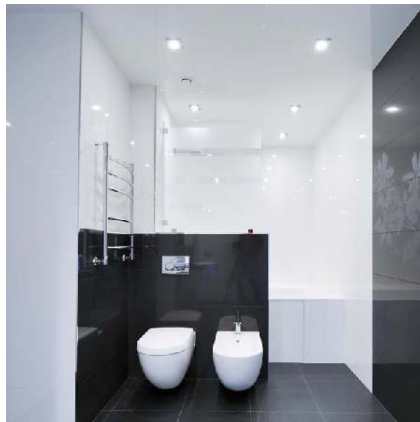
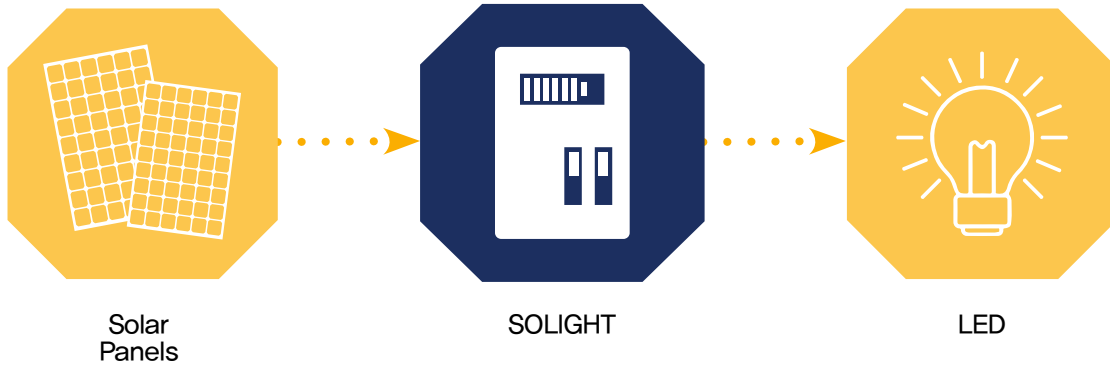
Natural lighting effect on indoor lighting : sync with sunlight brightness

Economic efficiency : No electricity charges

Without building exterior damage, Economic and fast installation

: Innovative Cost-effect

In night time, automatically connect with on-grid and use LED lighting

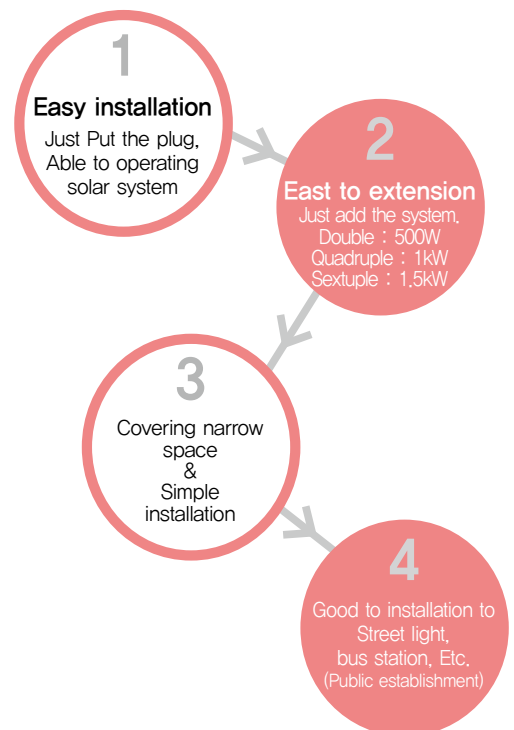
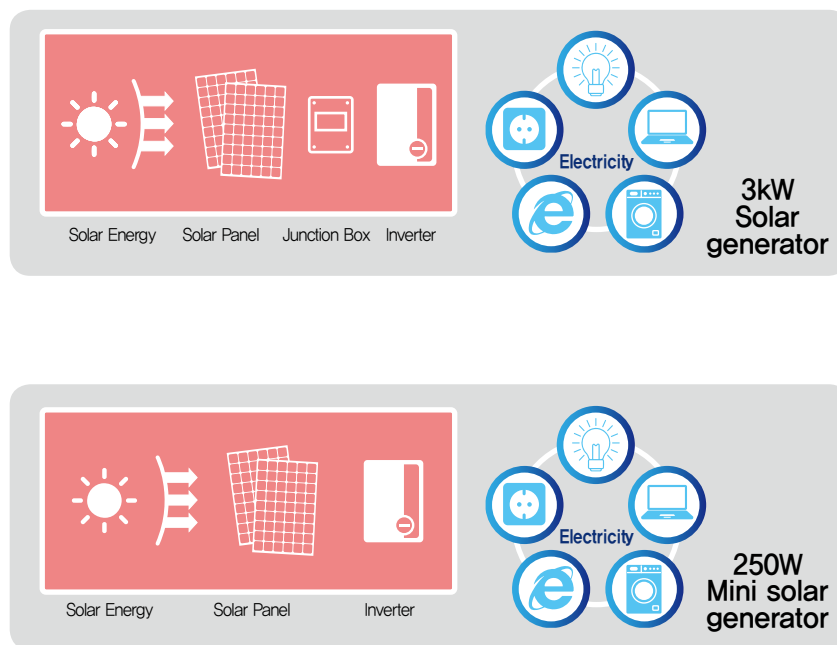




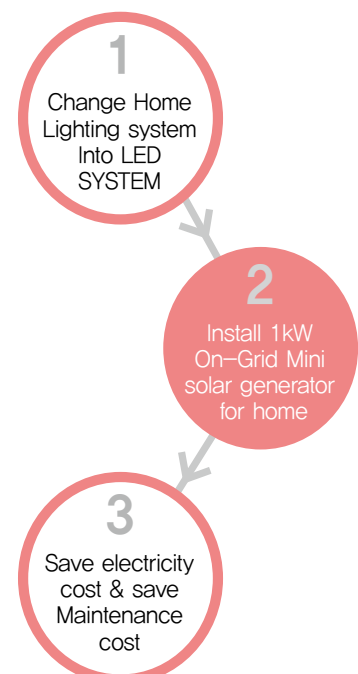
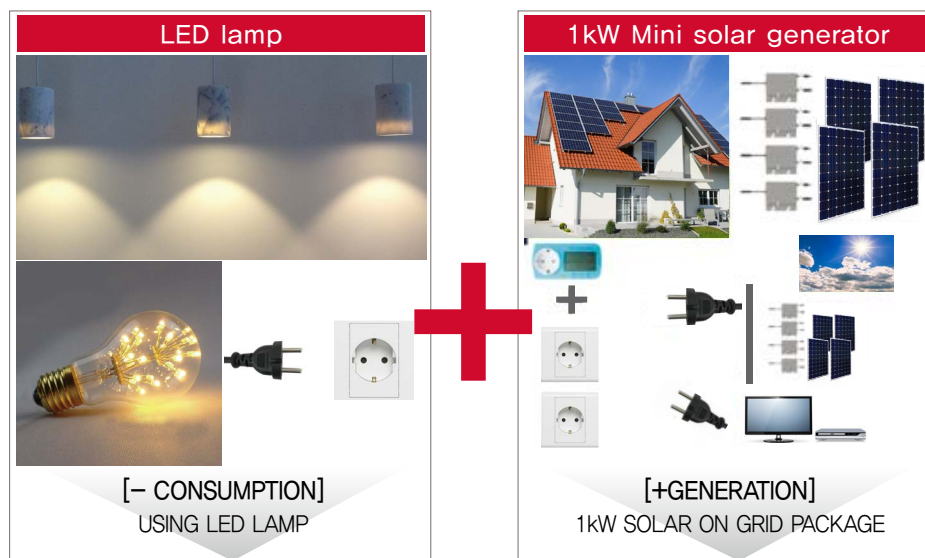
## 3. ON-GRID SOLAR SYSTEM

### 3-1

#### ON-GRID FOR HOME



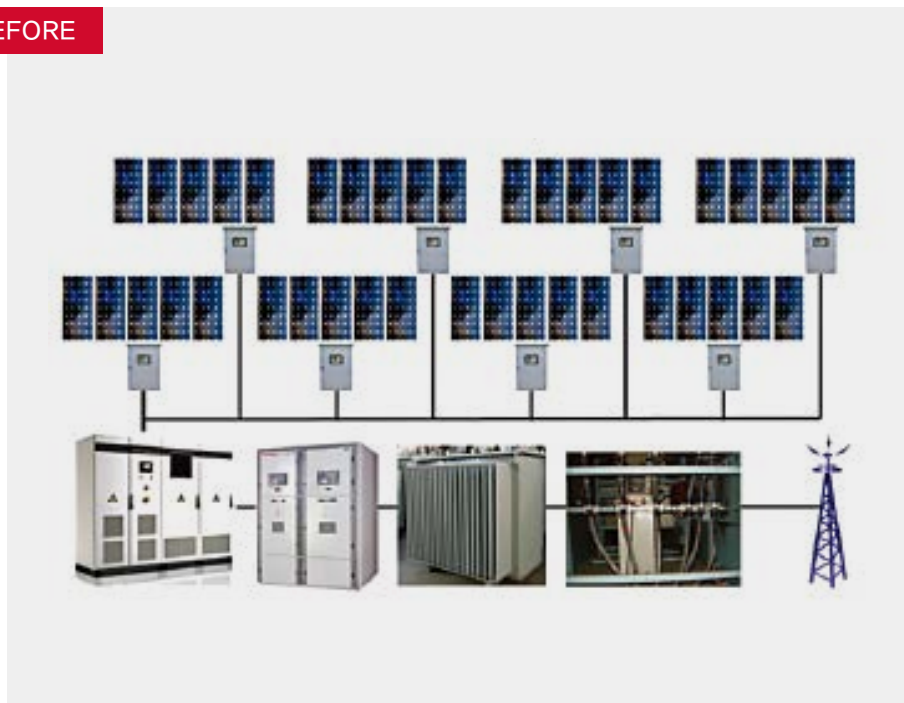
#### ■ [LED + SOLAR] PACKAGE



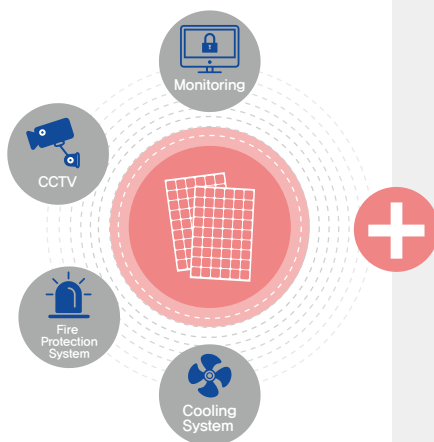
## 3-2

### ON-GRID POWER PLANT

BEFORE



AFTER



## 4. MAINTENANCE



Protect your investment  
Produce effectively  
Keep everything under control



### ASSESSMENT

Residual value of Solar Power Station(FIT, RPS)  
Check current status of PV power plant  
Estimate & figures of generate progress  
Business appraisal

### PARTS MANAGEMENT

check & change  
(bracket)  
(cable)  
(Distribution board & junction box)  
(etc)

### DISPATCHING

Report for regular period  
Data analysis  
Monitoring



## Major Accomplishments

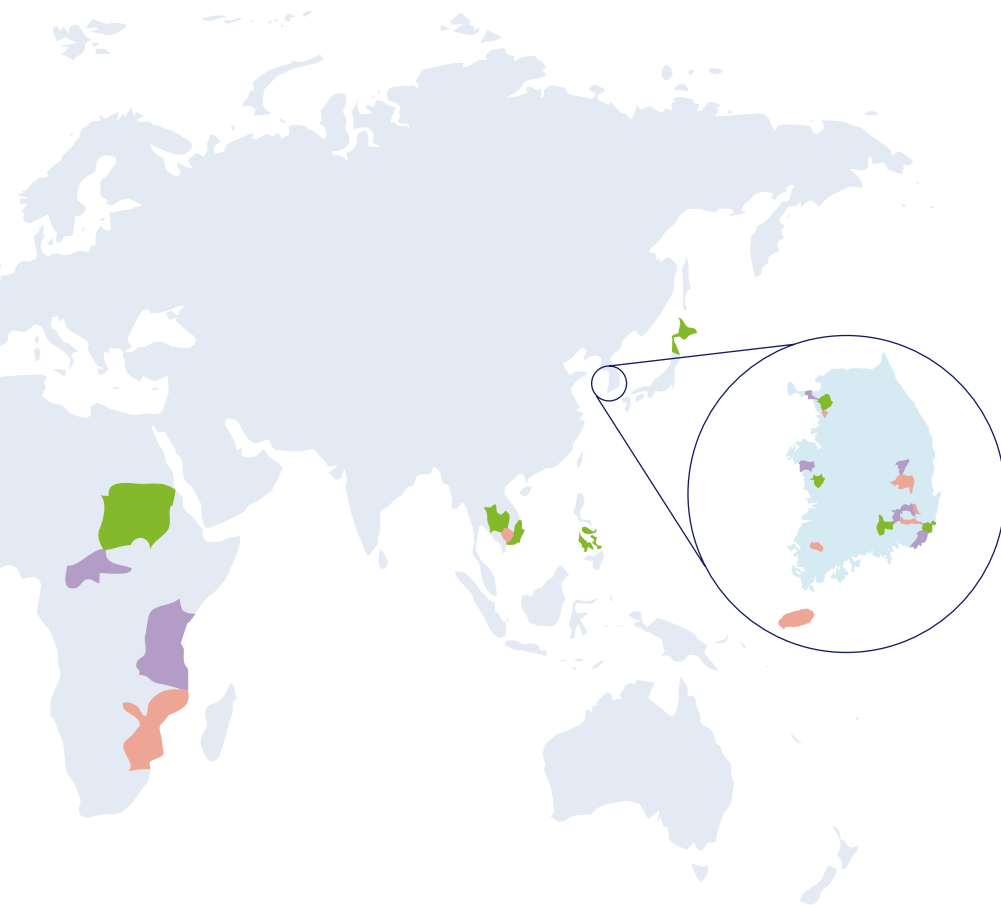
### Exports status



## Company Activity

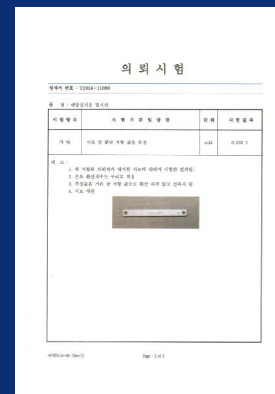








# Certification







**Web**  
<http://solarlightkorea.com>



**On-line shop**  
<http://solight.co.kr>

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