



- Why NGSS
- How Solution Works
- Solution Advantages
- Warranty
- Show Case



## **About NGSS**

NorthEast Generators & Solar Solutions Ltd was established in 2016, headquartered in Port Moresby. At present, Our goal is the leading provider of green energy solutions in Papua New Guinea. We provide our customers with comprehensive solar energy storage solutions. We provide customers with Solar storage system, Solar storage inverter, Solar charge controller, Solar lighting solutions etc.

## Our Mission

## **Enjoy Green Energy!**

We are committed to becoming the driving force behind the solar energy industry in Papua New Guinea, facilitating a transformation of energy usage across the country. We strive to establish ourselves as a sustainable model for solar technology in Papua New Guinea, maximizing the value of our customers' investments.

## Our Vision

To emerge as the most esteemed energy technology company in Papua New Guinea. We are dedicated to providing our customers with value-added products and services, fostering a growth-oriented environment for our employees, and creating exceptional investment returns for our shareholders.

# Why NGSS? – The One-Stop Solution Themes







# NGSS Partners - Top supplier in the industry



















And More.....



- Why Sigen
- How Solution Works
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- Warranty
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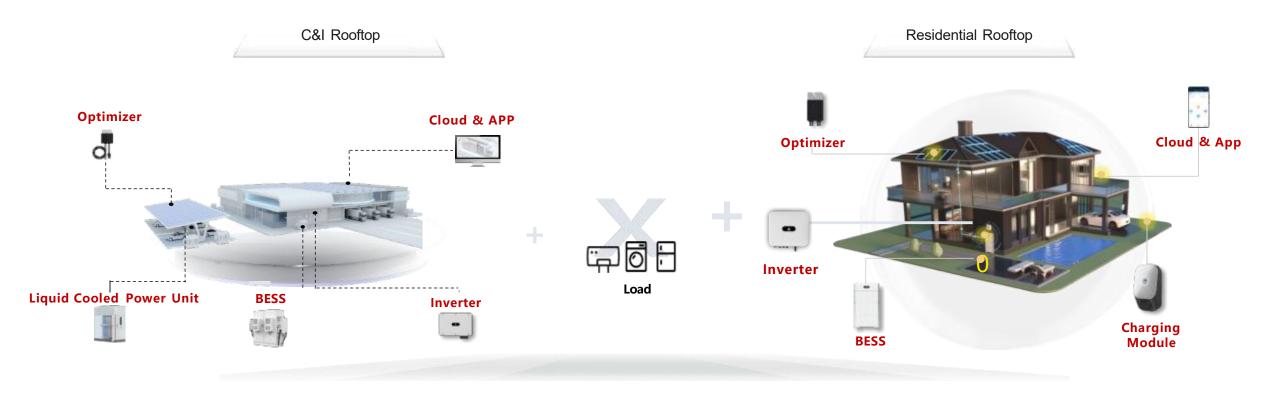


# Combine PV and energy storage and make the green PV a main energy source for every home and business



All-Scenario Smart PV + Storage Solution

# Solar Rooftop: Create an economic, green and safe electricity usage



#### Intelligent generation

- Adaptive to any rooftop for maximum capacity
- 5% to 30% higher energy yield

### Intelligent storage

- · Built-in energy optimizer
- 10% higher charge and discharge capacity

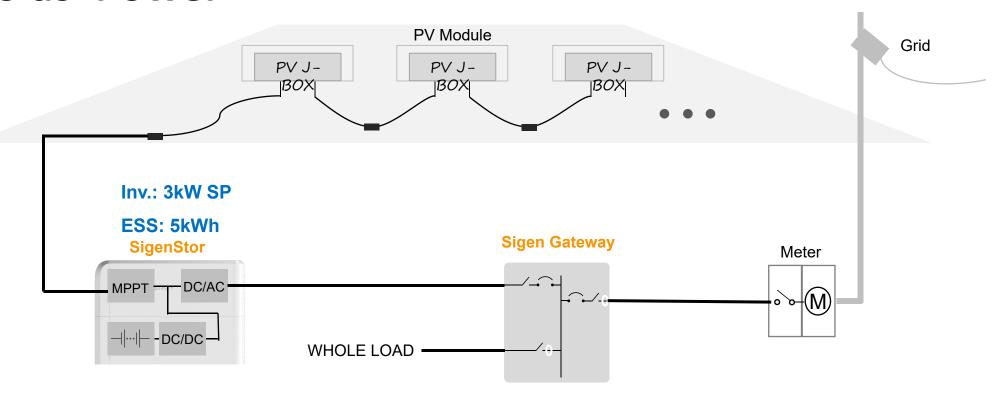
### Intelligent safety \_\_\_\_\_\_

- Module-level 0.5s rapid shutdown
- · Intelligent arc protection
- Al internal short circuit detection and intelligent fire suppression module

#### Intelligent consumption

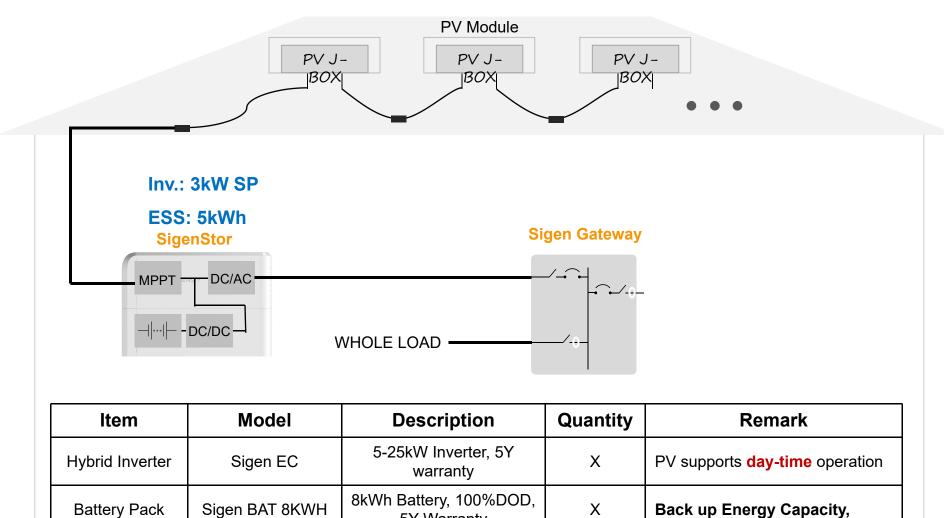
- Al-based PV+storage synergy
- 10% higher self-consumption rate

# **PV+ESS** as Power



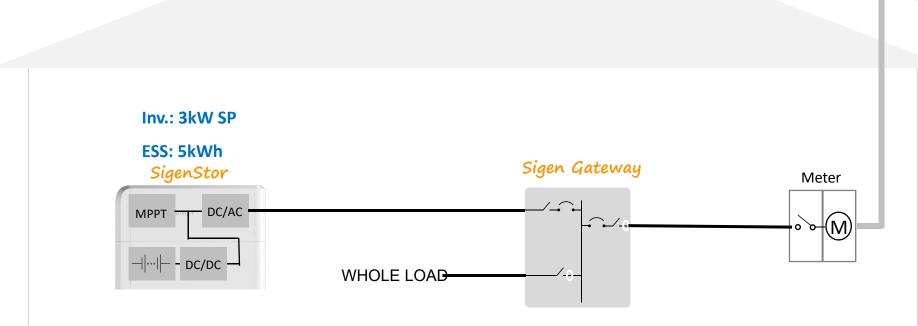
Item	Model	Description	Quantity	Remark
Hybrid Inverter	Sigen EC	5-25kW Inverter, 5Y warranty	Х	PV supports <b>day-time</b> operation
Battery Pack	Sigen BAT 8KWH	8kWh Battery, 100%DOD, 5Y Warranty	Х	Back up Energy Capacity,
Switching Box	Sigen Gateway	Switching from On Grid to Off Grid Mode	Х	0ms Switching Time

# PV as Power, No Grid



5Y Warranty

# ESS as Power, No PV



Grid

Item	Model	Description	Quantity	Remark
Hybrid Inverter	Sigen EC	5-25kW Inverter, 5Y warranty	X	
Battery Pack	Sigen BAT 8KWH	8kWh Battery, 100%DOD, 5Y Warranty	Х	Back up Energy Capacity,
Switching Box	Sigen Gateway	Switching from On Grid to Off Grid Mode	Х	0ms Switching Time



### 5-in-One, highly integrated design



Sigen Energy Controller for solar + energy storage system

Sigen EV DC Charging Module
Ready for V2X

Sigen Battery

8.0 5.0 Energy capacity (kWh)

1 – 6 batteries stackbale for per stack

5 kWh - 48 kWh energy capacity range for per stack

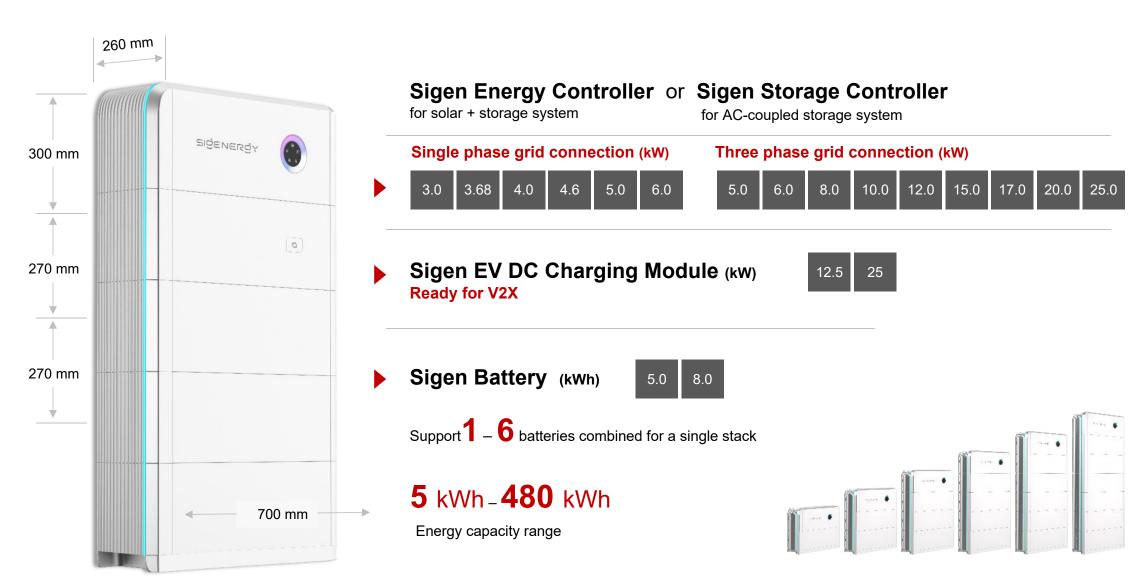
Multiple systems supported in parallel connection

Sigenergy is leading a new way of producing, storing, transferring, and consuming home energy. We provide a genuine all-in-one solar energy storage system, SigenStor. Its unique 5-in-One modular design integrates Solar Inverter, EV DC Charger, Battery PCS, Battery Pack, and EMS into one intelligent home energy system. Simple, robust and versatile, it will be a great addition to your home.

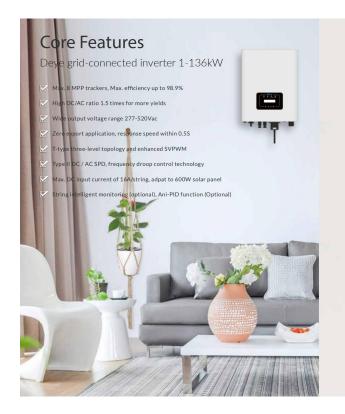
SIGENERGY







# Deye 德業®









- ▶ 48KW
- ► Lebanon
- ► SUN-12K-SG



- ► 72KW
- ► Lebanon
- ► SUN-12K-SG



- ▶ 24KW
- **▶** Philippines
- ► SUN-8K-SG



- ▶ 48KW ► Lebanon
- ► SUN-12K-SG



Lithium Battery Energy Storage

Lithium Battery Energy Storage

# EOS series

Battery module:

SR-EOS05B(5.12kWh)

SR-EOS10B(10.24kWh)

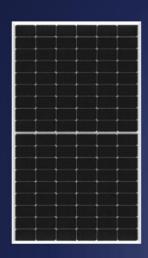
SR-EOS15B(16.07kWh)

- · Supports wall or floor mounting
- Up to 16 in parallel connection, expand to 257.12kWh
- · Min. width of just 19.1cm, saving space in the home
- Compatible with many brands of inverter protocols
- Support Wifi and BT view real-time data through APP
- SR-EOS15B supports secondary circuit breaker protection

# TIGER Neo 2023 Tiger-Neo New Products



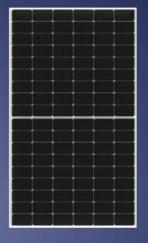




Mono-facial



Mono-facial All Black



#### JKMxxxN-66HL4M-JKMxxxN-54HL4R-JKMxxxN-54HL4R-(V) JKMxxxN-54HL4R-B BDV 600-620W 435-450W 430-445W 425-440W 21.77-22.52% 21.52-22.27% 21.27-22.02% 22.21-23.14% 2382\*1134 mm 1762\*1134mm 1762\*1134mm 1762\*1134mm 66P 54P 54P 54P

**TOPCon technology** 

Higher power

Higher efficiency

Lower degradation

Higher bifaciality

Bifacial

**Dual-glass** 

Bifacial

Dual-glass

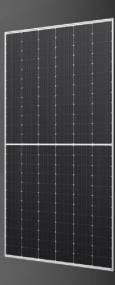
# LONG

Every LONGi's new product spearheads the transformation of the photovoltaics industry and becomes a new benchmark for the entire industry.

### **Optimal Size**

Optimal Scenario: Sensitive in initial investmen

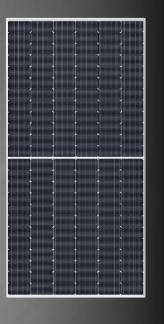
Hi-MO 5



### **Leading Value**

Optimal Scenario: High surface reflectivity High environmental temperature High labor costs

Hi-MO 7



### Technology for Beauty

Star product for DG
Optimal Scenario for Utility:
Low surface reflectivity
High environmental temperature
High labor costs

Hi-MO 6







LUXEON 5050 Chip brand Beam Angle 150\*65° > 180lm/W

Control Mode Light Control + Time Control +Motion Sensor Control

Product Dimension 1023x373x174mm/ 1341x373x174mm

CCT: 2700\_3000K /4000\_4500K /5000\_6500K

Operational Condition Temperature: -10°C-45°C Humidity: 10%-90%RH

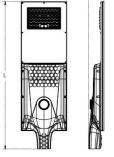


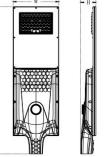


#### Performance Parameters

20W/40W/60W LUXEON 5050 150\*65° ≥ 180lm/W Luminous efficiency >70 Light Sensor Control + Time Control + Motion Sensor Control Control Mode Product Dimension 785x283x95mm/ 913x283x95mm/ 1041x283x95mm CCT; 2700-3000K /4000-4500K /5000-6500K

Operational Condition Temperature; -10°C-45°C Humidity; 10%-90%RH







- 1. The lamp adopts integrated structure design, with better heat dissipation design and longer life.
- 2. Using LUXEON 5050 lamp beads, the whole lighting effect is up to 180lm/W.
- 3. The solar panel is made of monocrystalline silicon, with a higher conversion efficiency, up to 22%, and a service life of up to 25 years.
- 4. Using the most advanced MPPT tracking control technology to improve system efficiency and reduce costs.
- 5. It has functions of light control, time control, dimming, intelligent power saving + morning light.
- 6. Solar controller built-in lightning protection module.
- 7. Using ternary lithium battery technology, the battery capacity is high.
- 8, 365 days uninterrupted power.
- 9. Three control model: Time control + light sensor control + motion sensor control.







Solar panel charges in sunny daytime.Light works at night with the

When people leaves 8



1. Suitable for the highways, urban roads and secondary roads, stadiums, sidewalks, residential areas, industrial areas, squares , parks , schools , villas , gardens and other places.

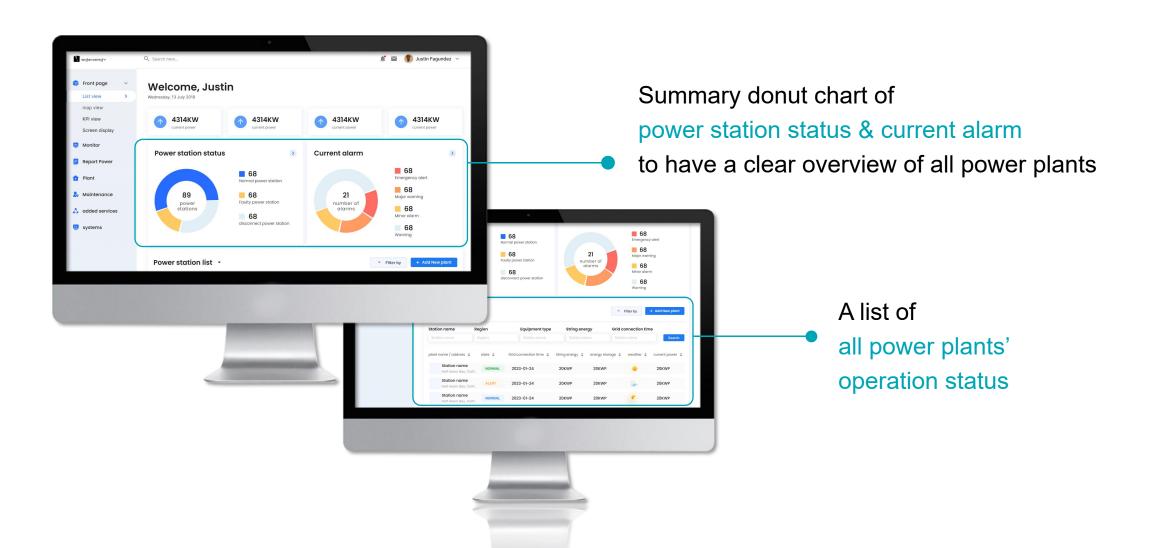


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# Sigen Cloud: One screen to track all

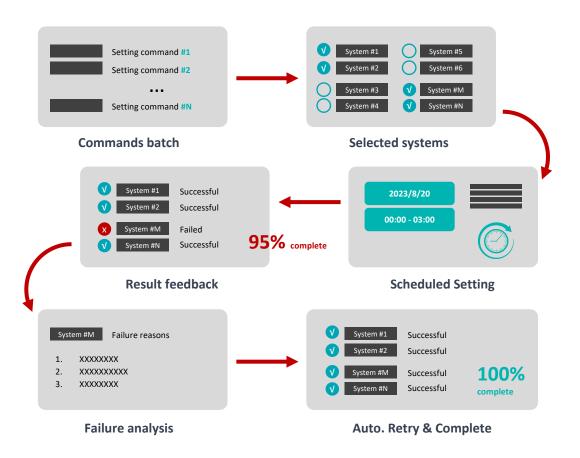
Manage and track all power plants on one screen



# Remote batch configuration supported

**Centralized management on customized scope of devices** 







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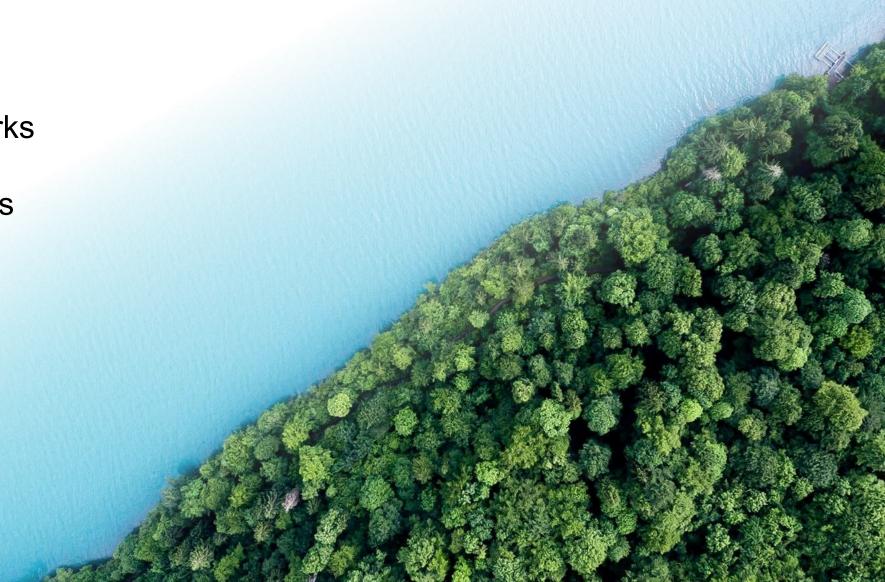
# Warranty terms

- > Entire Replacement;
- > Quick Recovery within 24h;
- > 5+ years performance warranty for whole system;

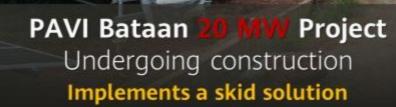
Product	Product Warranty
Battery	5 years
Energy Controller	5 years
Solar Panels	12 Years



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NV Vogt SE4 8.84 MWp Located in Armenia, Tarlac 0.5% failure rate from 2016 onwards Cabanatuan 10 MW Project
Located in Nueva Ecija
0.2% failure rate after 5 years

## **Residential Energy Storage**

ASF48100U200-H with EOS48-5.0A-E0

Application Residential Energy Storage

Address Jo

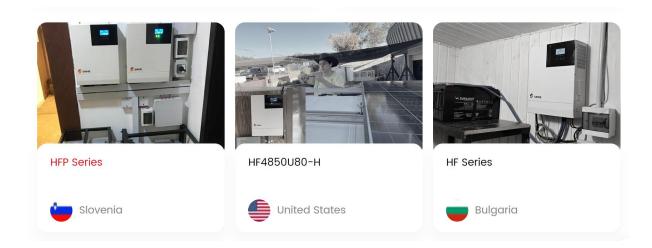
Project

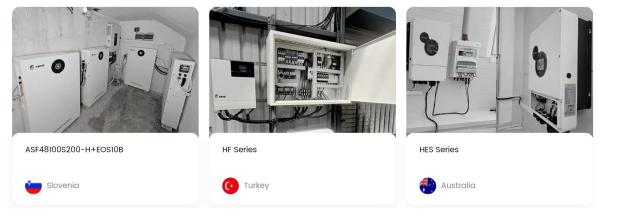


Residential Energy Storage

Philippines

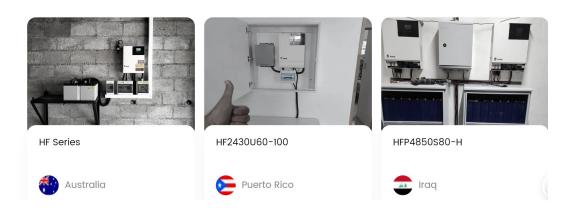
# **Solar Charge Controller & Inverter**





Application

Address



## **Solar LED Street Light**

50W All-In-One Solar LED Street light In Australia





Sword LED Street Light In China





### More Show Cases

https://www.sigenergy.com/en/stories

https://www.srnesolar.com/article/Case.html

https://www.longi.com/en/cases/

https://www.leyond.com.cn/al



# Thank you.

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# **Enjoy Green Energy**

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