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**World-class Hybrid Energy&Battery Storage  
Solution Innovator**









- Established in **2008**, Shanghai, China
- **High-tech** enterprise qualification
- World-class **hybrid energy & battery storage solution** innovator
- The **first publicly listed** company in diesel generator sets industry in China  
**Stoke Code: 832266**
- **12000 Sets** of Annual Production Capacity



**120** Countries

Products are exported to 120 countries



**45** Types

Three categories of 45 types of products



**12000** Sets

Annual production capacity



**50** Specialists

50 solution experts focused on different applications



**121** Patents

3 invention patents, 105 utility model patents, 8 software copyrights and 5 appearance patents.

# Strategy On **Hybrid Energy**

- **SEMOKii** established in **2021** with **2 automatic assembly lines**.
- State-of-the-art lithium BESS: residential ESS, portable power stations, battery packs.
- MPMC Energy Jiangsu with **6 automatic assebly lines**, 19,000m<sup>2</sup> workshop and 3,300 R&D center. Total investment \$20M USD. Completion date: Year 2023.





# MPMC GROUP

TOP G-OEM in China  
Products sold to 120+ countries



2021 Best Rechargeable Solar  
Battery Power Integration Project  
2022 Cutting-edge Company Of The Year



**MPMC UAE Office**  
(2013, Dubai)



**MPMC Factory**  
(2015, Jiangsu)



**MPMC Energy America Inc.**  
(2016, USA)



**MPMC UK Office**  
(2016, Peterborough)



**MPMC Supply Chain Corp.**  
(2018, Shanghai)



**MPMC South Africa Office**  
(2019, South Africa)



**Agen Powerclub Corp.**  
(2020, Fujian)



**SEMOOKII BESS CO., LTD**  
(2021, Jiangsu)

# Development Course

**32%**

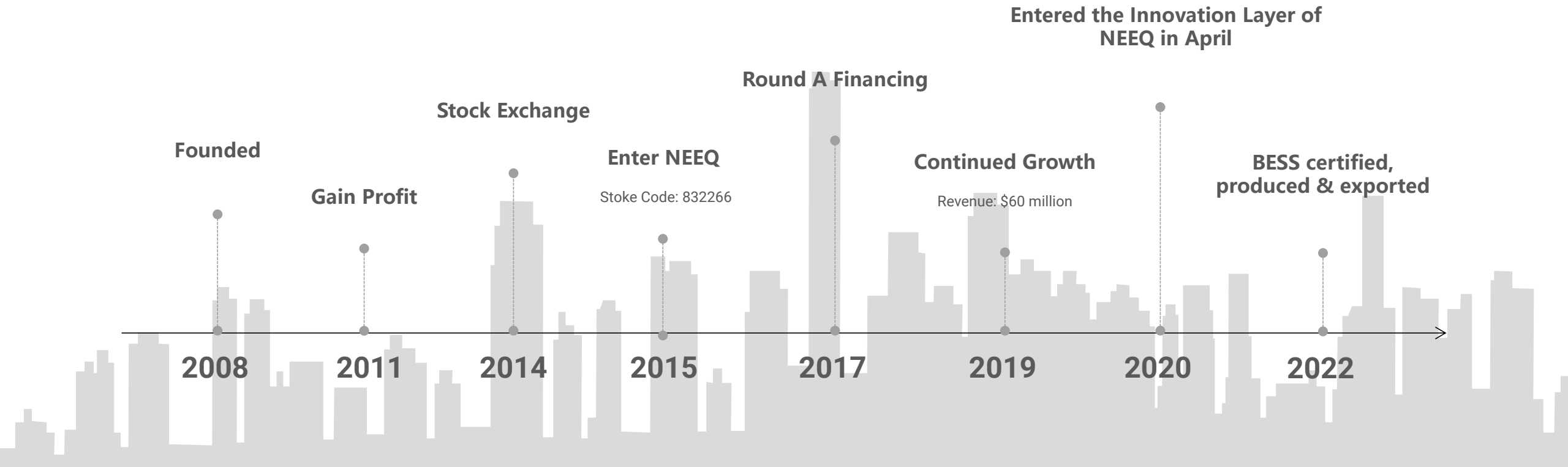
2009-2019 CAGR

**53.59%**

2021 v.s. 2020 CAGR

**National High-tech  
Enterprise**

Since 2012





# Corporate Culture



Efficiency | Profession | Cooperation  
Progress | Innovation | Responsibility

## Mission

World-class hybrid energy & battery storage solution innovator

## Vision

For Brighter, Safer and More Beautiful Life!

## Passion

To provide power independence and real energy freedom to homes and businesses anywhere in the world!



Quality is Dignity

# EHS Management & other system Certifications

- ISO9001
- ISO14000 environmental management system
- ISO45001 occupational health and safety management system



Every year, CQC and Huaxia certification review the above systems

In 2020, **the world-renowned ARCADIS company was hired as for the 3rd party** to review and guide the EHS of MPMC.

Putting safety and occupational health in the first place, only paying attention to people can pay more attention to products and services.





# Certifications



CE certificate

CE



TUV Rheinland certificate

TUV



SGS certificate

SGS



SABER

UN38.3

UN38.3



Customs Union

Russian Customs Union



BV certificate

France BV



TLC certificate

China TLC



SONCAP certificate

Nigeria SONCAP



UL certificate

America UL

# Our Main Products



## Diesel Power

Smart Generator Set  
Mobile Light Tower  
Pump Genset  
Reefer Genset  
Emergency Power Vehicle

## Hybrid Power

Hybrid Power Stations  
Hybrid Light Towers

## Clean Energy

Energy Storage Systems  
(Industrial/Commercial/  
Residential)  
Portable Power Station  
Lithium Battery Packs  
Gas Generator Set

## Parts & Service

Genuine Parts  
Accessories



# Diesel Power



## Our Customers

 bhpbilliton  aggreko  RioTinto

 coateshire

 **中铁特货物流股份有限公司**  
CHINA RAILWAY SPECIAL CARGO LOGISTICS CO., LTD.

## Event Cases



**中国国际进口博览会**  
CHINA INTERNATIONAL IMPORT EXPO

# **Battery Energy Storage Solutions**

Portable Power Stations

Residential BESS

Industrial/Commercial BESS

Battery Packs










# Battery Packs

## OEM / ODM Service

Battery Voltage                    12.8V / 48V / 76.8V / 80V  
Max. In Parallel                    6 Units

### Various Scenarios Of Application

-  Hybrid Power Solutions
-  Solar Farms
-  RV Battery
-  Low-speed Electric Vehicles
-  Utility Electric Vehicles



# Portable Power Stations

## Plug & Play

System Capacity	280Wh ~ 1843Wh
Rated Output Power	300W ~ 2000W
Cell Chemistry	Ternary Lithium / LiFePO4
PV Rated Output	75W / 100W / 200W



3 Ways To Recharge: PV / Grid / Car Outlet



Built-in BMS, Compact Structure



Fire-proof Materials Incorporated



Charge Multiple Devices At The Same Time



# Residential BESS

## All-in-one Series

Modularized Battery	5.12kWh / 10.24kWh
Rated Output Power	3.6kW ~ 6kW
Ingress Rating	IP65
Net Weight	68kg / 115kg
Dimensions	550x233x1125 mm / 550x233x1750 mm



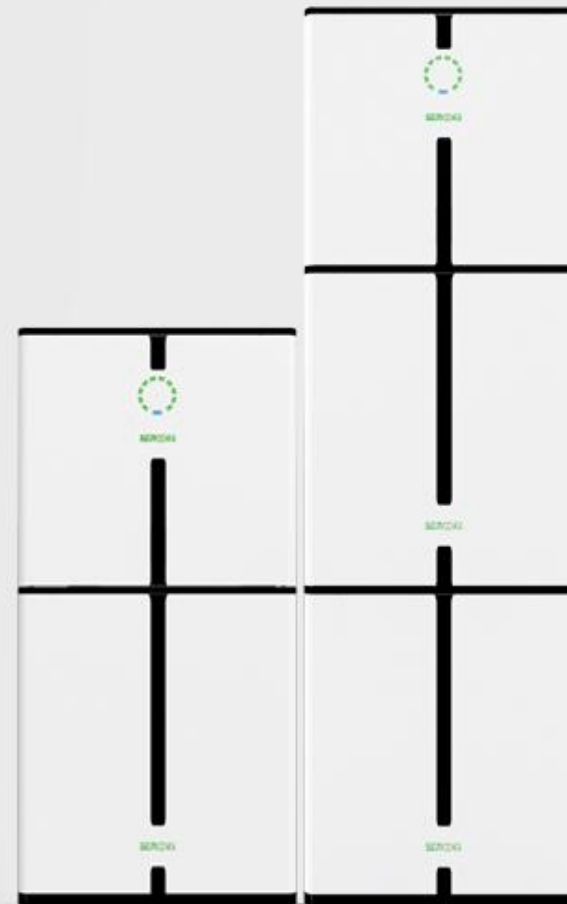
Hybrid Inverter, Simple Solution



Smart System Support VPP & AIOT



Cyclelife 6000; UPS < 10ms





# Residential BESS

## Classic Series

Modularized Battery	3.07kWh / 4.92kWh (90% DOD)
Max. In Parallel	6 Units
Ingress Rating	IP20
Net Weight	40kg / 56kg
Dimensions	628x440x151 mm / 628x440x216 mm
Warranty	10 years 70% EOL capacity



# Residential BESS

## Pro Series

Modularized Battery	4.92kWh (90% DOD)
Max. In Parallel	6 Units
Ingress Rating	IP65
Net Weight	55kg
Dimensions	710x440x184 mm
Warranty	10 years 70% EOL capacity



# Residential BESS


## LV Hybrid Inverter

MODEL					
Phase	Single	Single	Single	Single	Three
Rated AC Output Power	3kW	5kW	3kW	5kW	10kW
Start Up DC Voltage	100V	100V	125V	125V	160V
Max. PV Input Voltage	550 V	550 V	500V	500V	800V
Max. PV Input Current	18.5 + 18.5 A	18.5 + 18.5 A	13 A	13 + 13 A	26 + 13 A
MPPT Voltage Range	90 ~ 500 V	150 ~ 500 V	150 ~ 425 V	150 ~ 425 V	200 ~ 650 V
Number of MPPT / Strings per MPPT	2/1+1	2/1+1	1/1	2/1+1	2/2+1



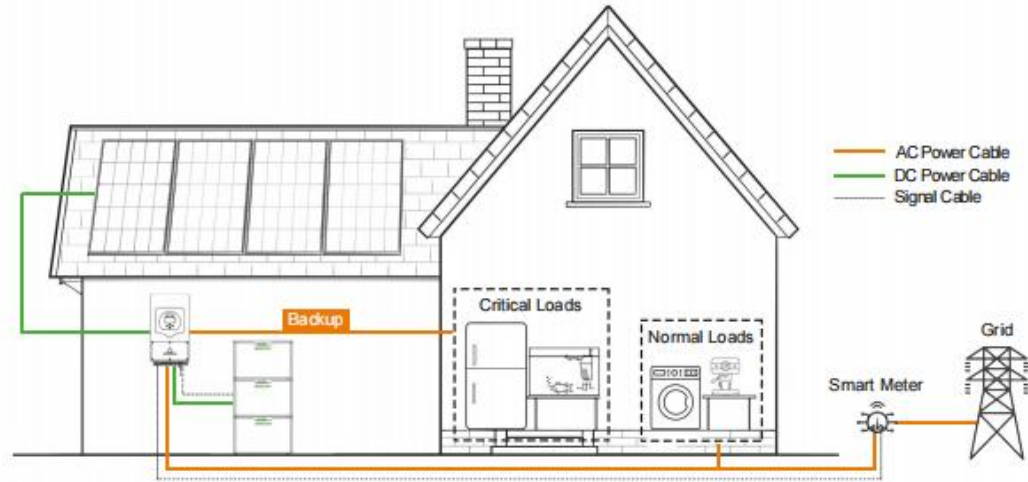
# Residential BESS

## HV Hybrid Inverter

MODEL				
Phase	Three	Single	Single	Three
Rated AC Output Power	10kW	3kW	5kW	10kW
Start Up DC Voltage	150V	70V	70V	145V
Max. PV Input Voltage	1000V	600V	600V	1000V
Max. PV Input Current	36 + 18 A	13 + 13 A	13 + 13 A	15 + 15 A
MPPT Voltage Range	200 ~ 850 V	80 ~ 520 V	80 ~ 520 V	150 ~ 850 V
Number of MPPT / Strings per MPPT	2/2+1	2/1+1	2/1+1	2/1+1

# Residential BESS

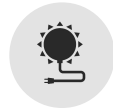
## DC Solution



■ PV inverter NOT REQUIRED



PV Power Collection



Critical Load Guarantee

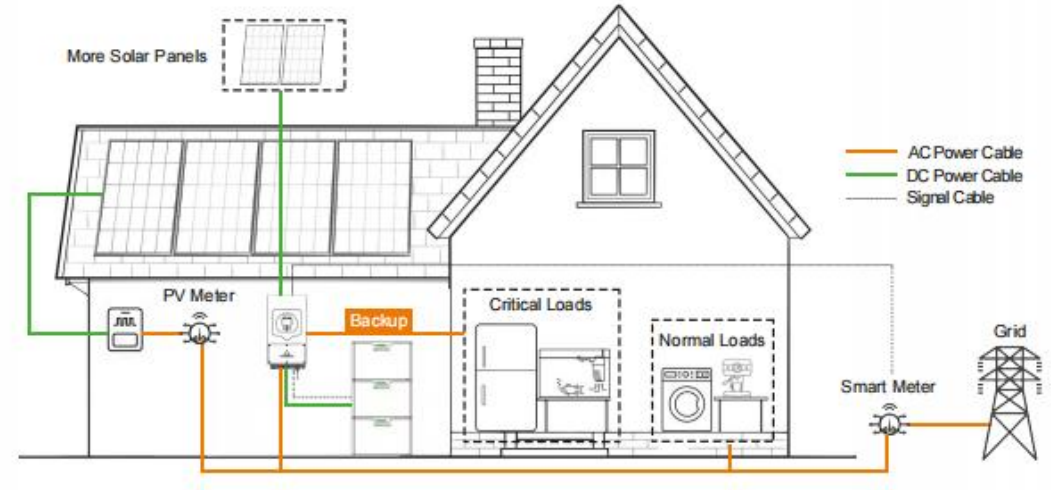


Peak Load Shaving



Standby Genset Available

## AC+ Solution



■ Cooperate with PV System You Installed  
■ Add PV System Freely

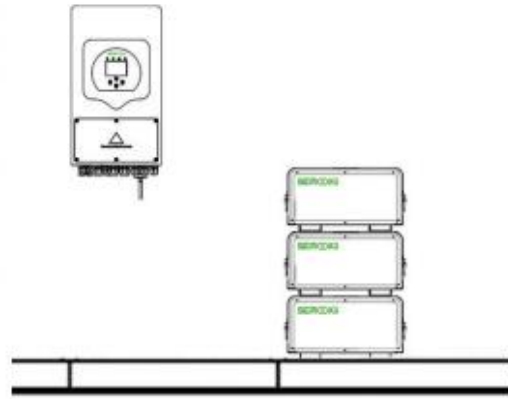


APP Control

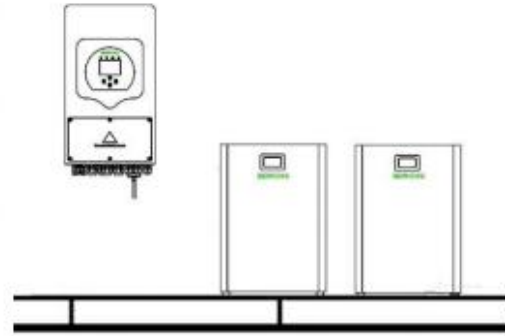


On/Off Grid

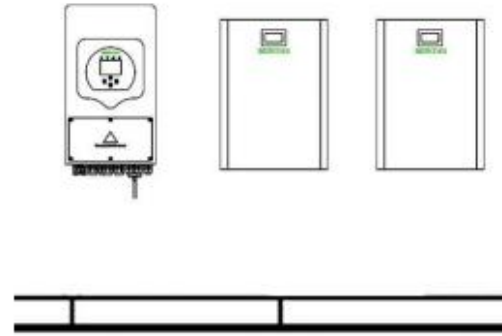
# Easy Installation



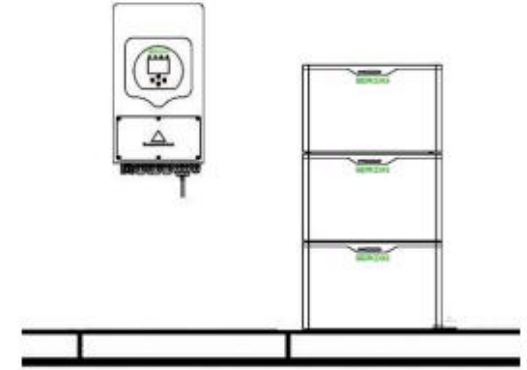
Stacked



Floor-mounted



Wall-mounted



Standalone

# Safety is first, second and third.



## Indoor & Outdoor

Modular design with  
Built-in BMS & IP 65.



## Heat Shield

Max. 1100°C Thermal Insulation.  
Melting Point: 1800°C



# Details



**Rated AC Output 3kW/5kW/10kW**  
**Module Capacity 3.07kWh/4.92kWh**

# Industrial Commercial BESS

## Expert For Rental

Rated Power	30kW ~ 1000kW
BESS Capacity	31.4kWh ~ 2559kWh
Phase	3
Pack Qty.	9 ~ 204pcs
Cycle Life	6000 @ 0.5C



Mobility Oriented



Power Source: PV/Wind/Grid/Genset



Fast Recharge < 3 hours

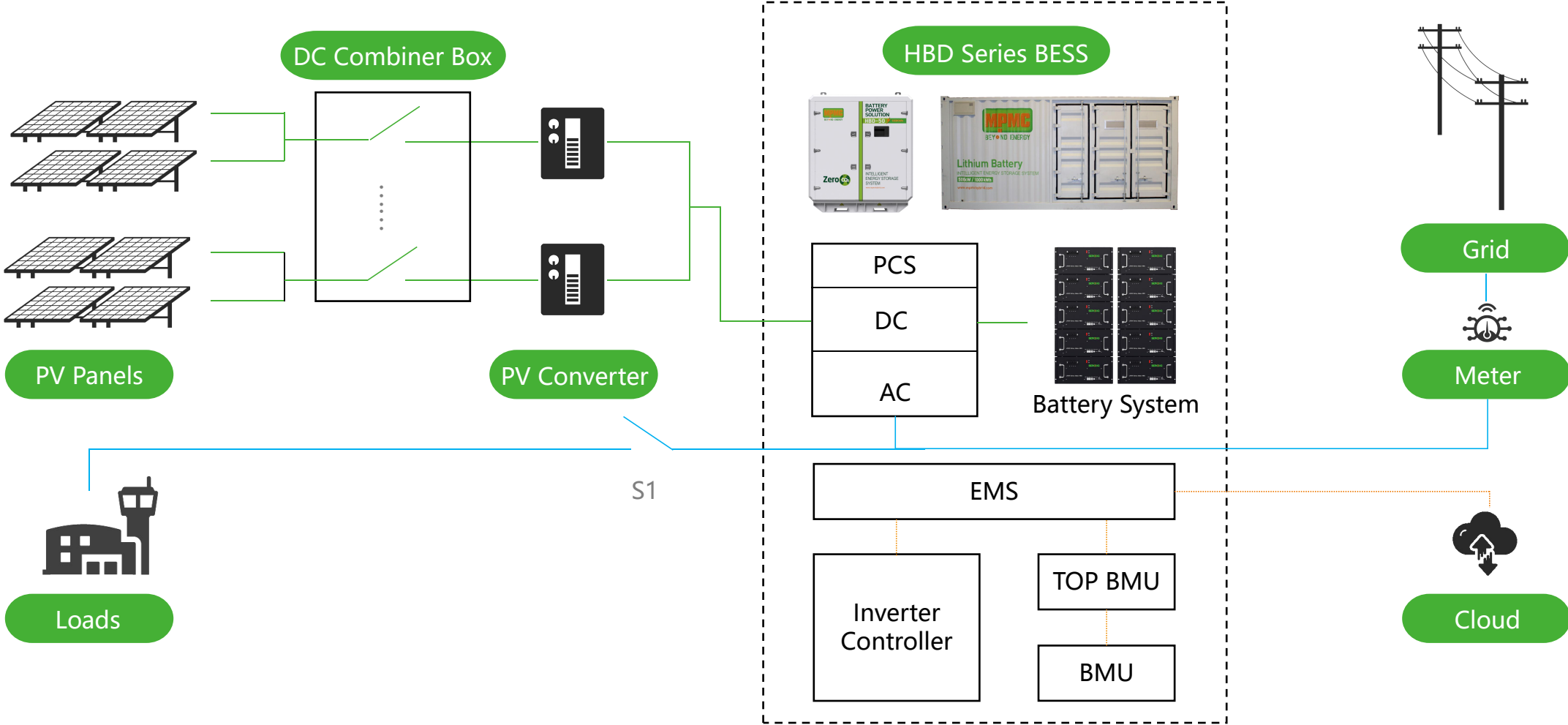


Built-in EMS



# Industrial Commercial BESS

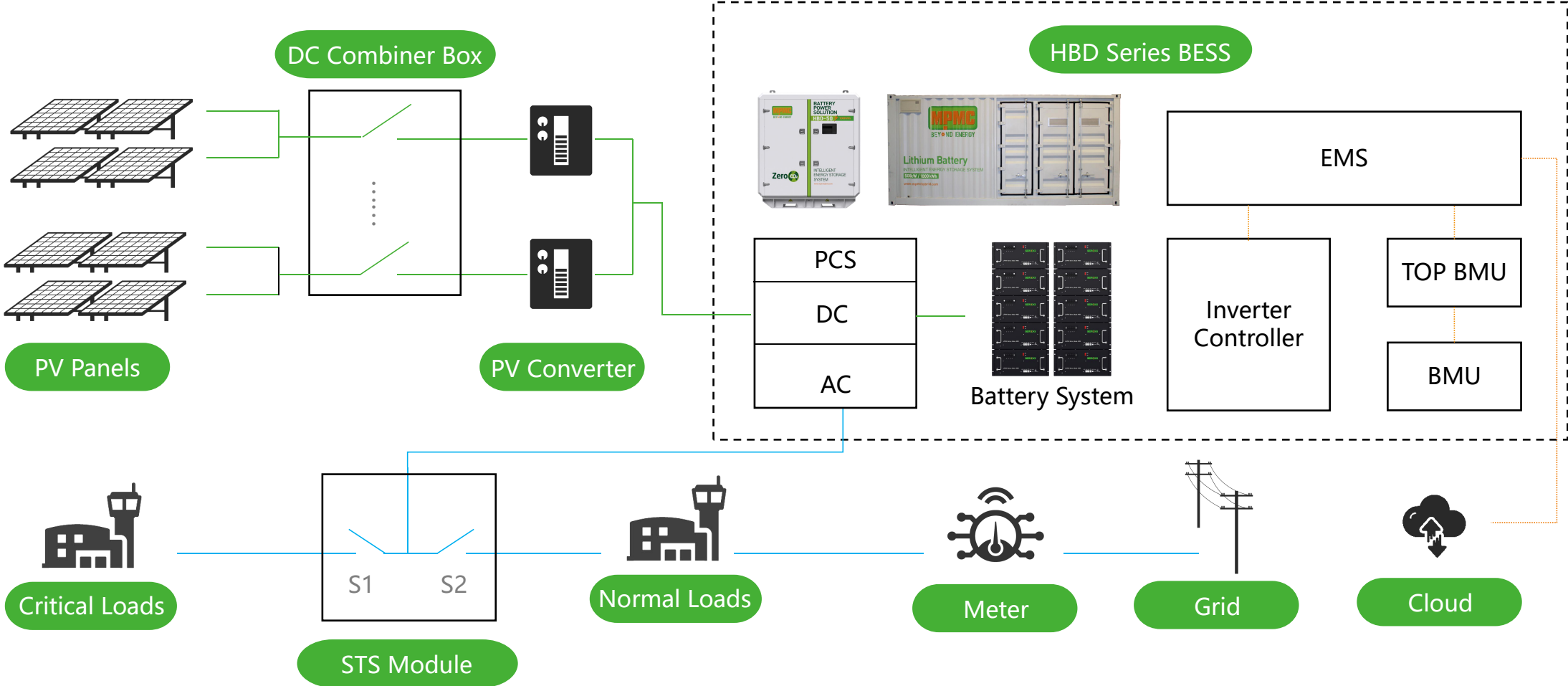
## Grid-tied Solution





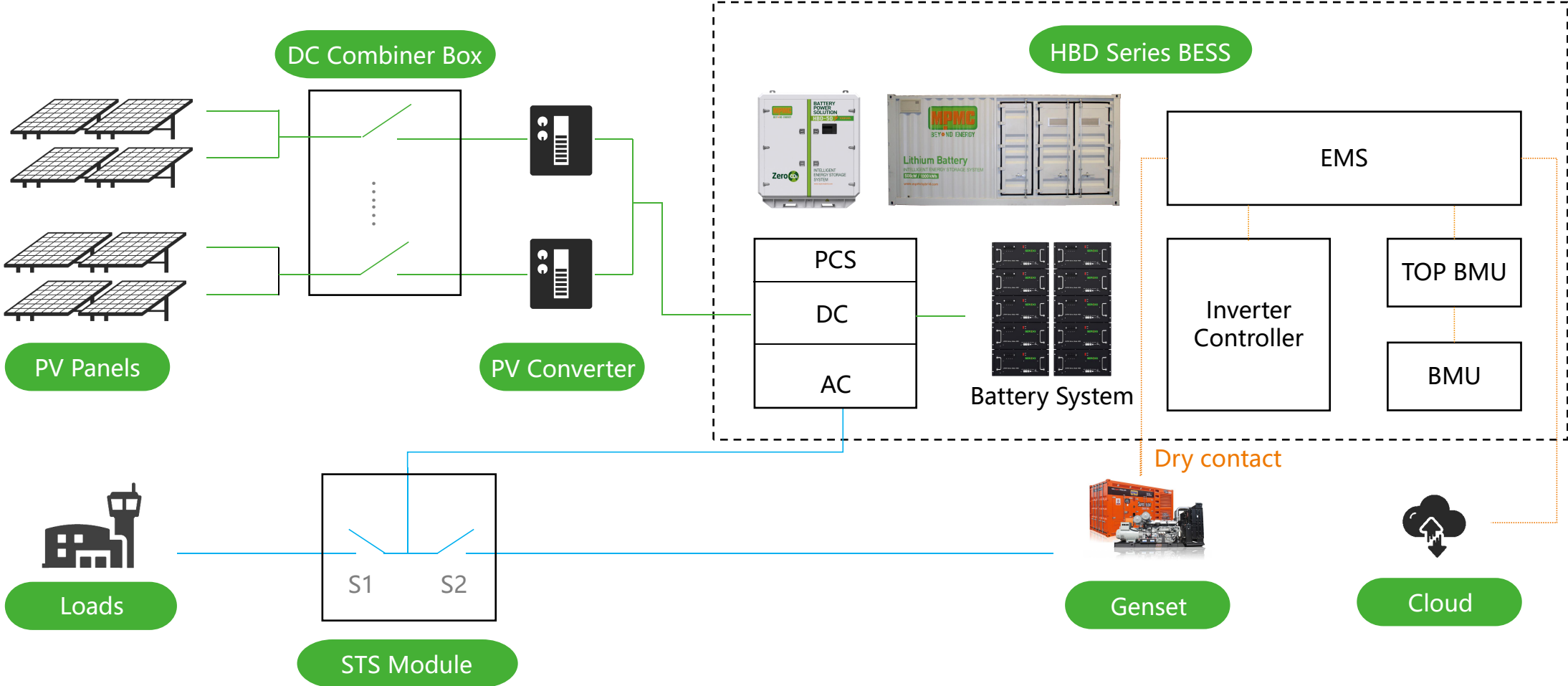
# Industrial Commercial BESS

## On & Off Grid Solution



# Industrial Commercial BESS

## Off Grid Solution





# **Diesel Replacement**

# Construction/Rental



**K-loader**  
 Rated power: 3 units\*11kW  
 Starting current: 60kW  
 Operation: 10h/day, 25times\*3mins/day

## ■ Diesel Only

10 hours/day with 75% of time running at low load, consuming 26,640L fuel per year.



MPMC Diesel Genset  
 Rated Power **80kW**



MPMC HBD® BESS  
 100kW - 80kWh

🕒 3h/day running

## ■ Diesel + BESS

Genset charges the BESS for 1 hour twice a day; BESS supply power for the K-loader. Fuel consumption is reduced to 12,240L per year.

**GENSET + HBD® BESS**

↓ **54.1%**  
 Genset + HBD® Combo  
**Fuel & CO<sub>2</sub>**  
 Reduction Ratio

**65kW**  
 Genset Average Output

Genset 80 kW

**81%**  
 Genset Average Load

**Saving \$16,105/Year**  
**ROI in 3.3 Years**

**Annual Potential Saving**





# Construction/Rental



**Welding machine**  
Rated power: 2 units \* 10.4kW  
Utilization factor: 35%  
Operation: 10h/day with 3.5h @ 100% load

## ■ Diesel Only

10 hours/day with 65% of time running at low load, consuming 13,860L fuel per year.



MPMC Diesel Genset  
Rated Power **24kW**



MPMC HBD® BESS  
30kW - 40kWh

🕒 3h/day running

## ■ Diesel + BESS

Genset charges the BESS for 1.5 hour twice a day; BESS supply power for the welding machine with output @24kW. Fuel consumption is reduced to 7,776L per year.

**Saving \$6,805/Year**  
**ROI in 4.3 Years**

**GENSET + HBD® BESS**

**↓ 43.9%**  
Genset + HBD® Combo  
**Fuel & CO<sub>2</sub> Reduction Ratio**

**24kW**  
Genset Average Output

**100%**  
Genset Average Load

**Annual Potential Saving**





# Construction/Rental

## Tower crane

Rated power: 45kW Starting current: 133kW  
 Operation: 10h/day with 2h @100% load, 1h @ 75% load, 2h @ 50% load, 3h @ 25%, 2h @ 0% load.

## Tower crane

Rated power: 45kW Starting current: 133kW  
 Operation: 10h/day with 2h @100% load, 1h @ 75% load, 2h @ 50% load, 3h @ 25%, 2h @ 0% load.

## ■ Diesel Only

10 hours/day with 75% of time running at low load, consuming 95,054L fuel per year.



MPMC Diesel Genset  
 Rated Power 200kW



MPMC HBD® BESS  
 150kW - 400kWh

🕒 4h/day running

## ■ Diesel + BESS

Genset charges the BESS for 2 hour twice a day; BESS supply power for the tower crane.

Fuel consumption is reduced to 47,334L per year.

**Saving \$40,265/Year**  
**ROI in 4.2 Years**

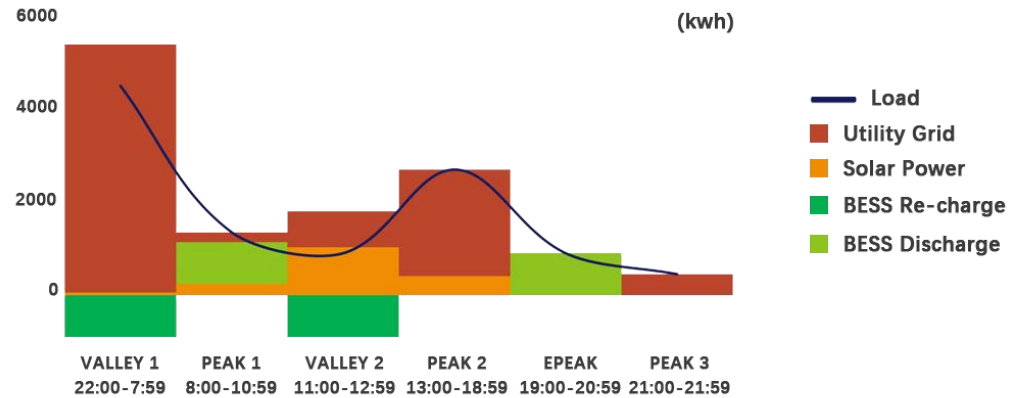


**Annual Potential Saving**





# Self-consumption Arbitrage Solution



## Location: South Australia

Valley: \$0.056 USD/kWh

Peak: \$0.1335 USD/kWh

EPeak: \$0.1787 USD/kWh

Saving \$164 USD/day, \$206,575 USD/year

Period of ROI **4.47 Years**







BESS 250kW - 400kWh



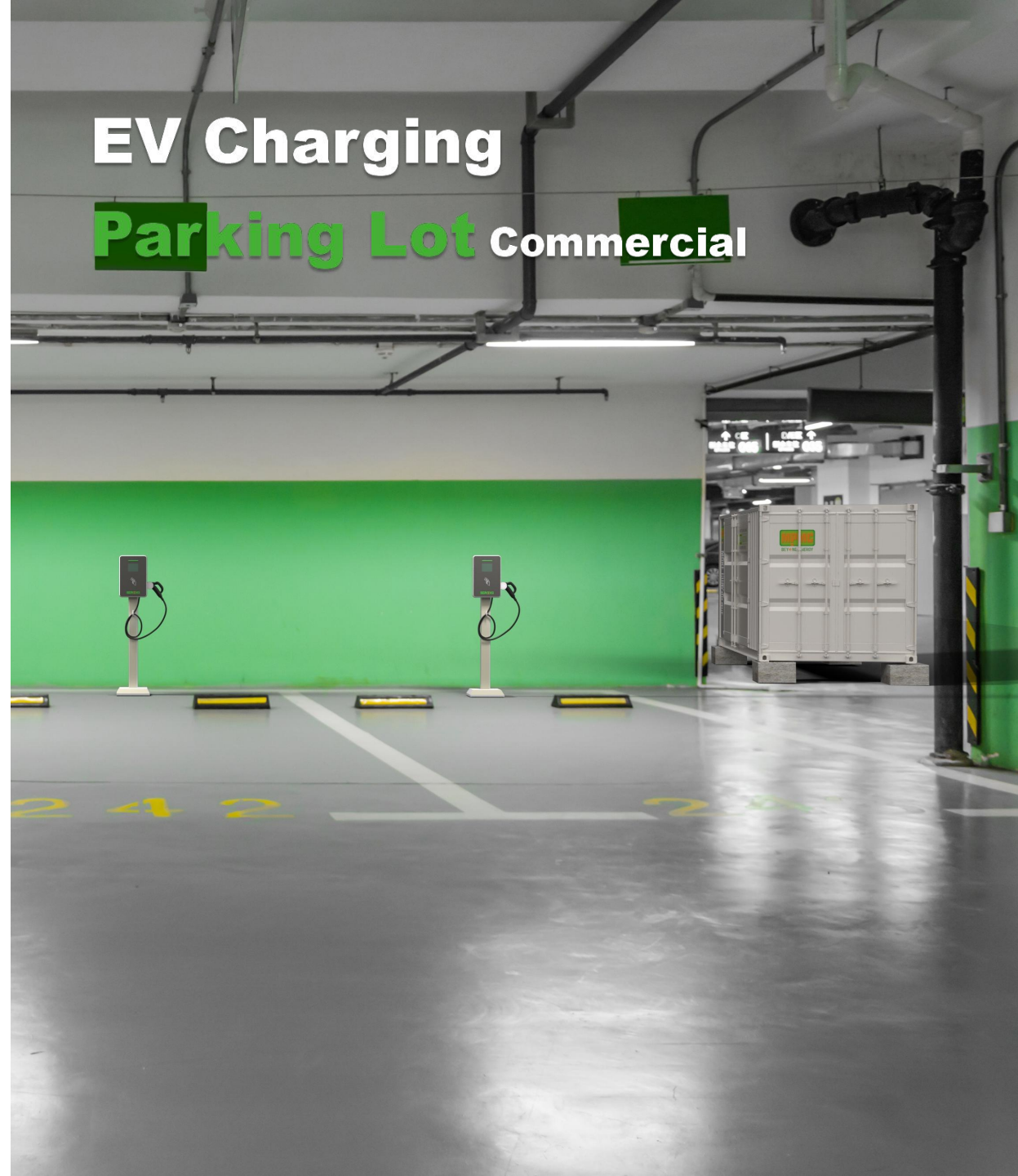
Charging Gun DC Charging Pile  
Rated power 60kW\*10

**Location: Australia**  
**ONLY 2 hours to recharge**

Valley: \$0.109 USD/kWh  
Peak: \$0.224 USD/kWh

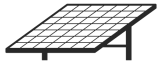
Saving \$164 USD/day, \$59,787 USD/year  
Period of ROI **3.6 Years**

# EV Charging Parking Lot Commercial



# EV Charging

## Solar + BESS



PV Panels 100kWp



BESS 250kW - 400kWh



Charging Gun DC Charging Pile  
Rated power 60kW\*10

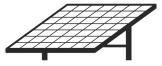
**Location: Australia**  
**ONLY 2 hours to recharge**

Valley: \$0.109 USD/kWh  
Peak: \$0.224 USD/kWh  
Shoulder: \$0.137 USD/kWh

Saving \$88,019 USD/year  
Period of ROI **2.8 Years**







PV Power Collection



BESS 250kW - 400kWh



Charging Gun DC Charging Pile  
Rated power 60kW\*10



Diesel Genset 100kW

**Location: Australia**  
**ONLY 2 hours to recharge**

Generating: \$0.420 USD/kWh  
Charging: \$0.420 USD/kWh

Saving \$76,650 USD/year  
Period of ROI **3.5 Years**



# Our Solutions



Diesel Power



BESS & Hybrid





**MORE POWER**  
**MORE CONFIDENCE**  
**THANK YOU**

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