WHES

TIER 1
BloombergNEF

WEIHENG ENERGY STORAGE

World's Leading Battery Energy Storage Provider



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Content

01 WHES Company Introduction

02 TIANWU-AIO 100/233 Introduction

03 TIANWU-AIO application scenarios

04 C&I BESS + EV Charger Solution

05 TIANWU-AIO Real Project Reference



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World's Leading Battery Energy Storage Provider

50+

Countries/Regions Covered

10+

Global Branch Offices

30+

Global Service Centers



400+

Number of Global On-site Projects

160+

Intellectual Property

30+

Number of Industries (or Sectors) Involved

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Milestones

TIER 1
BloombergNEF

4A1
dun & bradstreet

2017
Company Establishment

2021
Strategic Investment
Reorient Group

2022
Pre-A round financing
CATL / CD Capital, Inovance Group, JST

2023
A round financing
CATL / CD Capital, CIIT Asset Management, FURONG Capital, Wuxi Capital Group, Waterwood

2024
Overseas Growth
First Overseas VPP Project Launch, First Overseas Fast Frequency Regulation Project Launch, First Overseas Station Energy Storage Project Launch

2024
International Recognition
Ranked by BloombergNEF as Tier 1 global energy storage manufacturer, Achieved 4A1 rating from Dun & Bradstreet, Gold at International Exhibition of Inventions Geneva

2025
B round financing
VIRTUE POWER (HK) LIMITED, Waterwood, JST

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Global Footprint

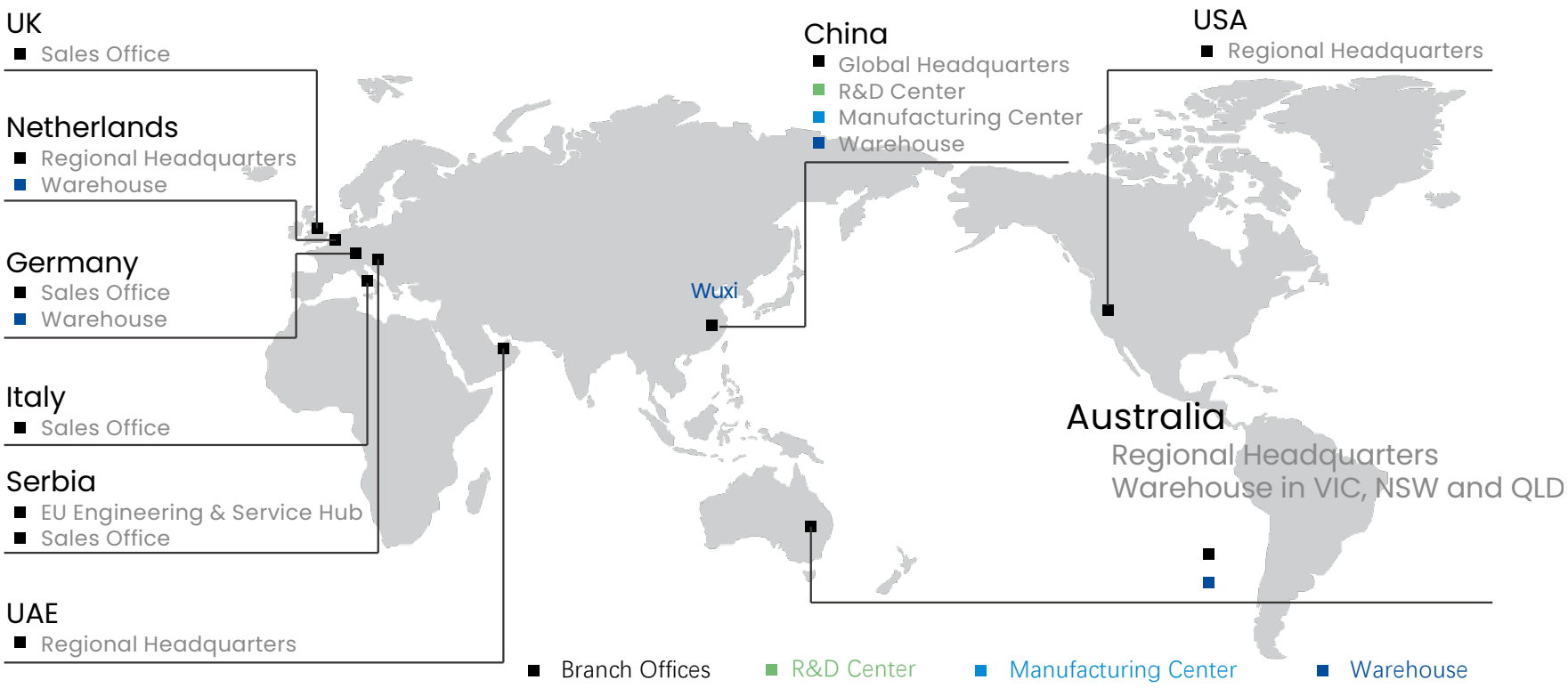
3
R&D Centers

3
Manufacturing Centers

6
Warehouses

10+
Branch Offices

30+
Service Centers



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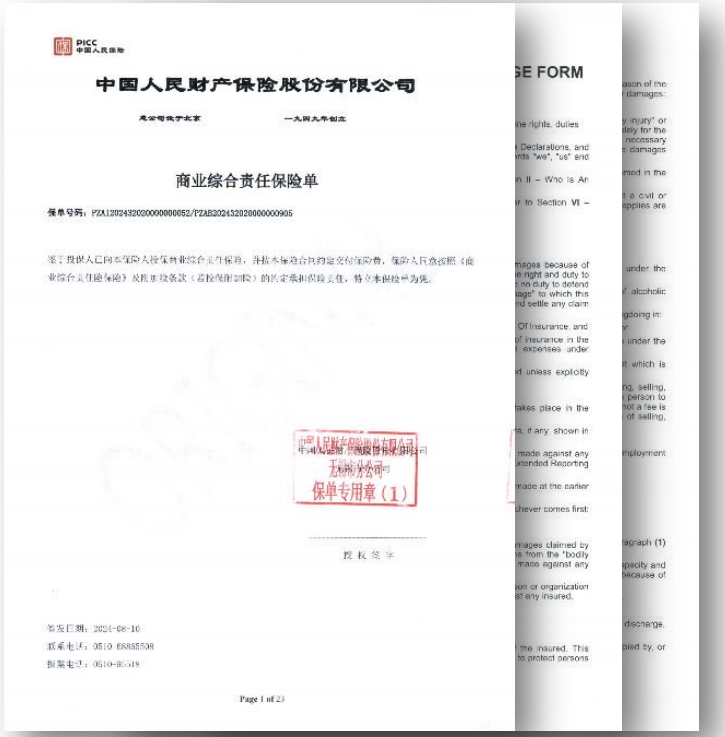
Insurance

Free

Commercial General Liability Policy

10 million

Maximum Payout



PICC
中国人民保险

In the event that an accident occurs within the coverage area involving products or goods manufactured or sold by the insured, resulting in bodily injury, death, or property damage to a third party, the insured shall be legally liable for compensation as required by law.

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Global Partner

Strategic Cooperation



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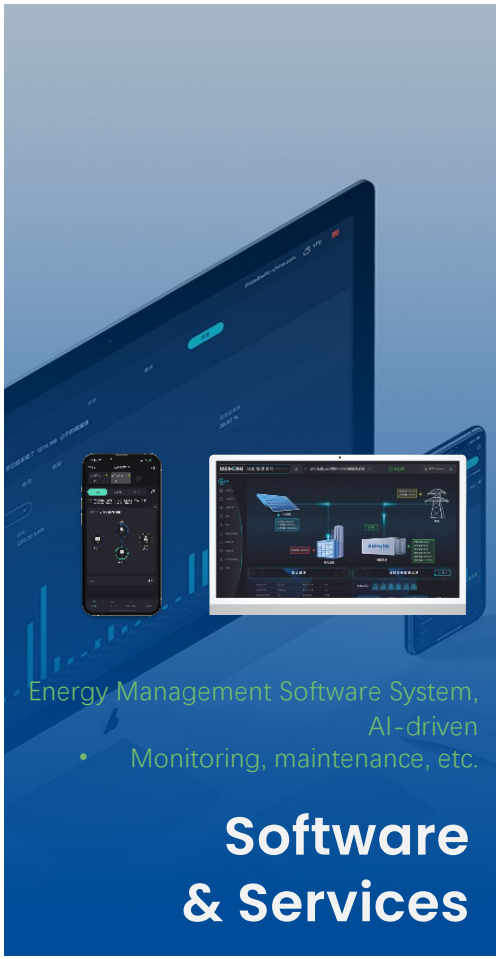
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Products









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WEIHENG

C&I All-in-one Battery Energy Storage System

| Liquid cooling | Modules Pre-installed | Europe Certified |

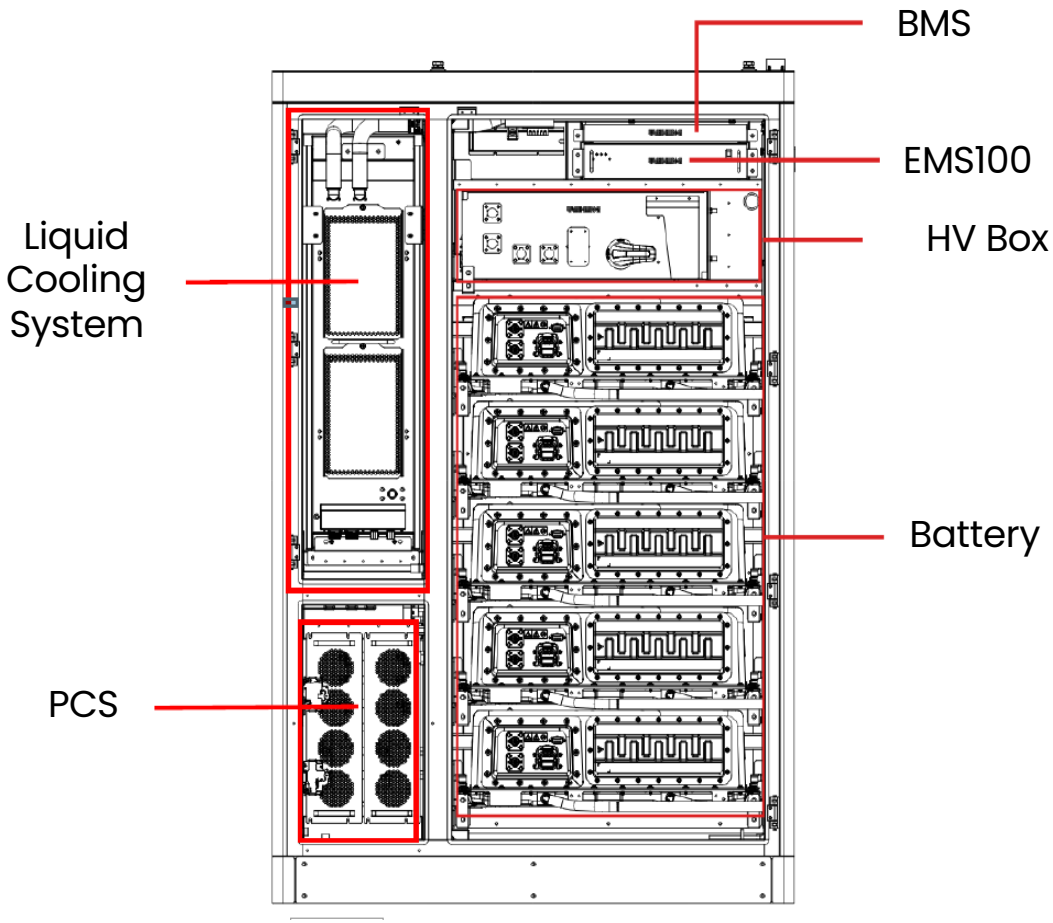


Cell module by CATL

TIANWU-AIO-L

100kW/233kWh

TIANWU AIO Battery Parameter



Model	WH-TIANWU-50-233B	WH-TIANWU-100-233B
System Parameters		
Rated capacity	233kWh	
Rated voltage DC	832VDC	
Max. DC Voltage	936VDC	
DC voltage operating range	728-936VDC	
Battery type	LFP(LiFePO4)	
Cell specification	3.2V/280Ah	
Connection mode	1P260S	
AC Parameters		
Input Start-Up Voltage	680V	
Rated Power	50kW	100kW
Max. Output Power	50kW	100kW
Rated Output Power in VA	50kVA	100kVA
Rated Output Current	72A	144A
Rated Voltage AC	400V,3P+N+PE	
Rated Frequency AC	50Hz	
Max. THD of Current	< 3%	
Power Factor	-1~+1	
General Data		
Overvoltage Category(OVC)	II for DC Side III for AC Side	
Method of Active Anti-islanding	Frequency shift	
Protective Class	IP55	
Cooling Method	Air Cooling(PCS) Liquid Cooling(Battery)	
Environmental Relative Humidity	0~100%	
Altitude	2000m	
Communication Protocols	Modbus, TCP/IP	
Dimensions(W*D*H)	1400*1350*2100mm	
Weight	~2700kg	
Manufacture Country	China	

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C&I All-in-One Energy Storage System

Approved By

CLEAN ENERGY COUNCIL



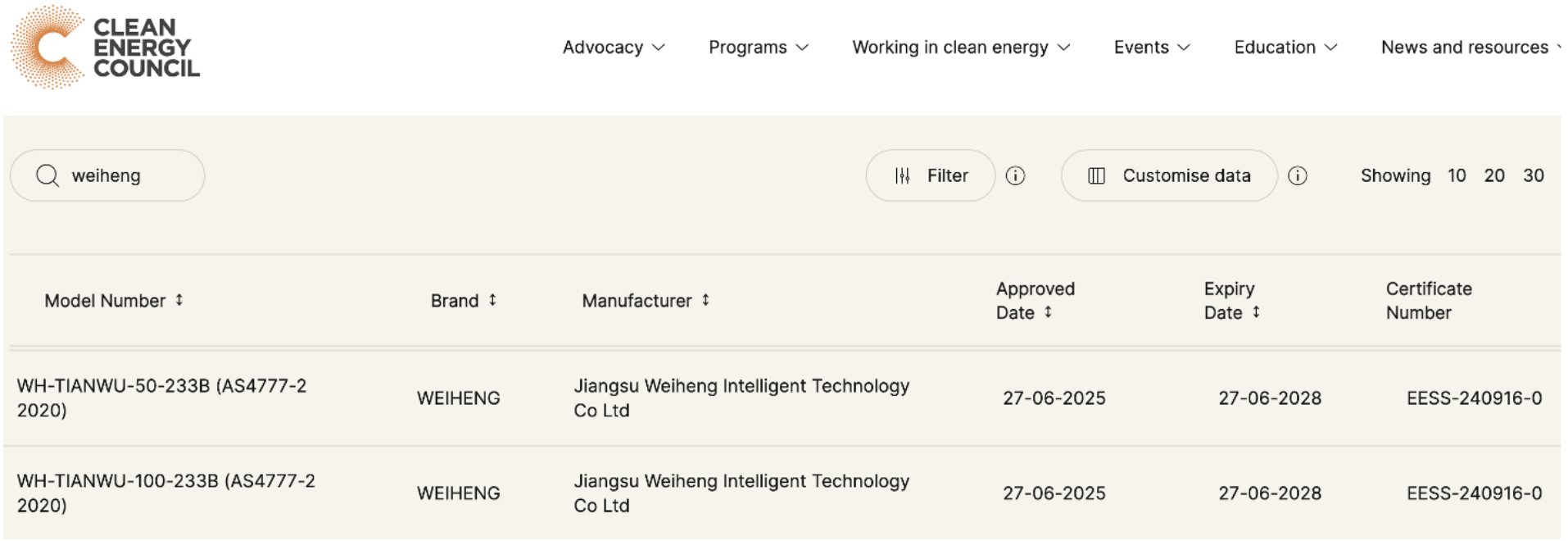
TIANWU
C&I All-in-One Energy Storage System
100kW / 233kWh

86 %	**15** Years	**PPB** Level
Average Round Trip Efficiency	Design Life	Battery Quality Control
± **2°C**	IP **55**	< **1** Day
Difference Between Battery Cells	Protection Level	Installation Time

CATL PANGUOS

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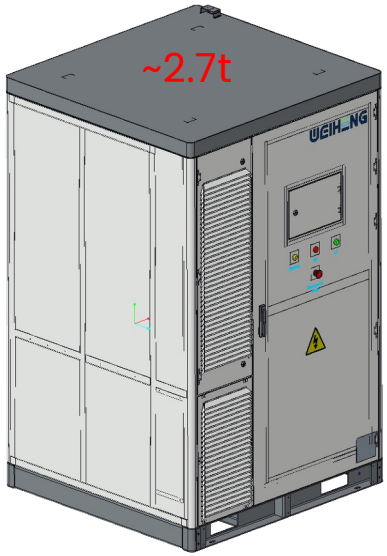
C&I All-in-One BESS CEC Approved List



Model Number	Brand	Manufacturer	Approved Date	Expiry Date	Certificate Number
WH-TIANWU-50-233B (AS4777-2 2020)	WEIHENG	Jiangsu Weiheng Intelligent Technology Co Ltd	27-06-2025	27-06-2028	EESS-240916-0
WH-TIANWU-100-233B (AS4777-2 2020)	WEIHENG	Jiangsu Weiheng Intelligent Technology Co Ltd	27-06-2025	27-06-2028	EESS-240916-0

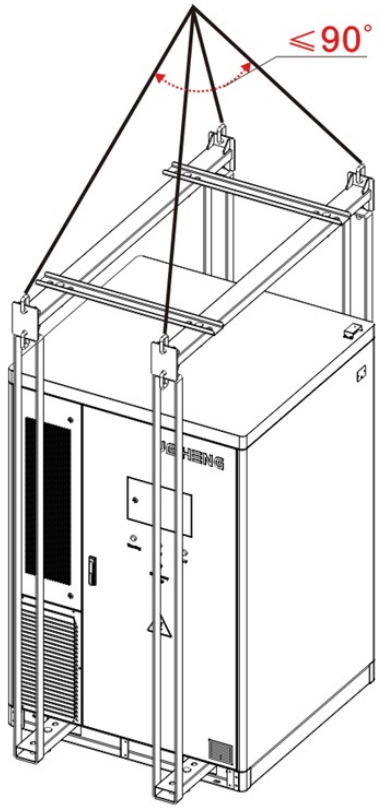
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TIANWU AIO Battery Highlight-Transportation





Forklift



Hoisting

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6 Level Safety Design

System design principles based on avoiding mechanical hazards、electric shock hazard and noise hazards……



Battery Safety

CATL Pack is the **first** battery pack certified by UL9540A
Self-developed BMS Control



Transportation Safety

UN38.3；1.4M Drop Test

Electrical Safety





Electromagnetic safety

IEC61000

Firefighting System (FS) Safety

Composite detector, aerosol, fire controller
With Pangu OS EMS 24hrs monitor
Prevention first、Action precise

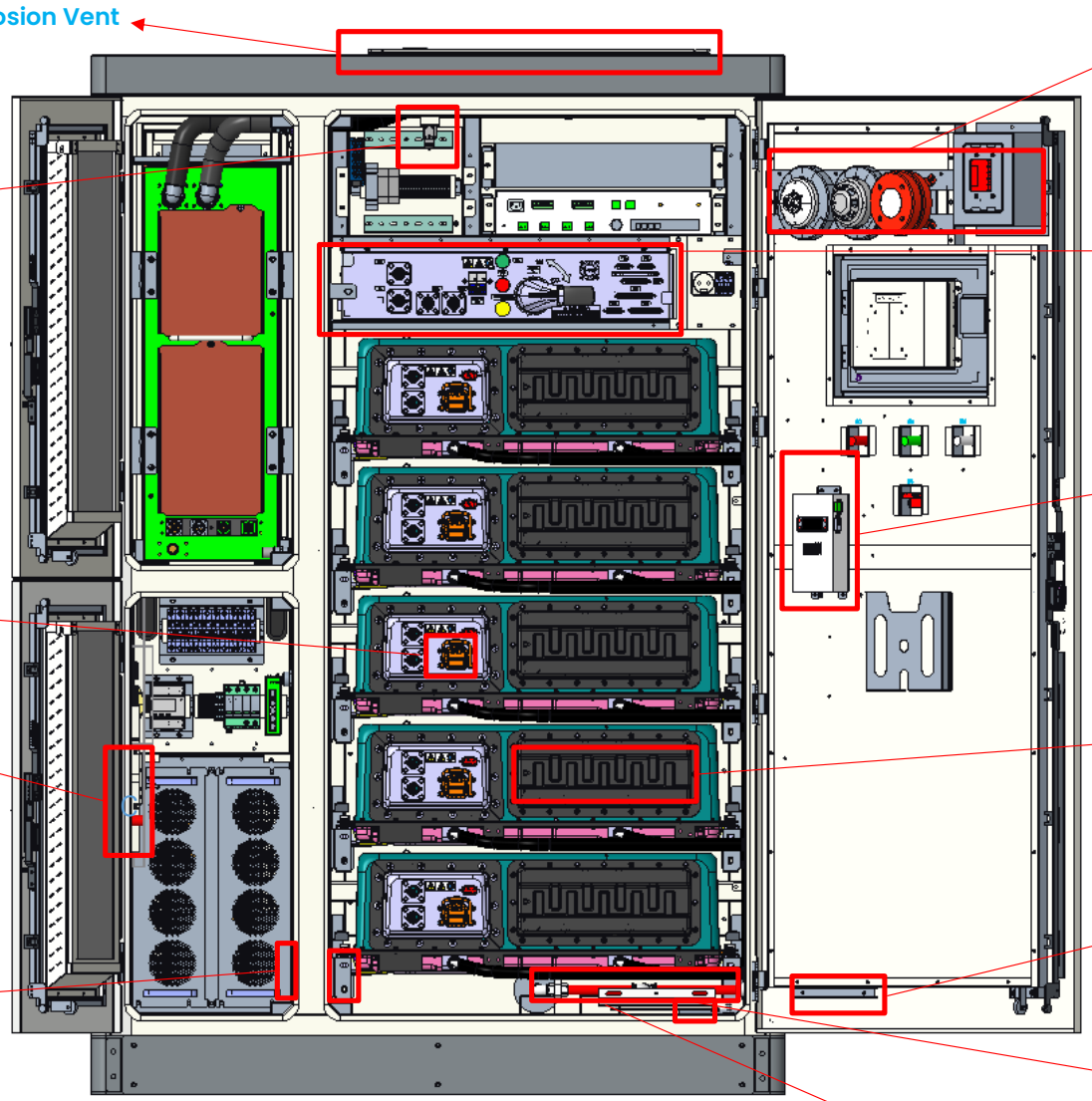


Function Safety

IEC62619
Comply with European standards

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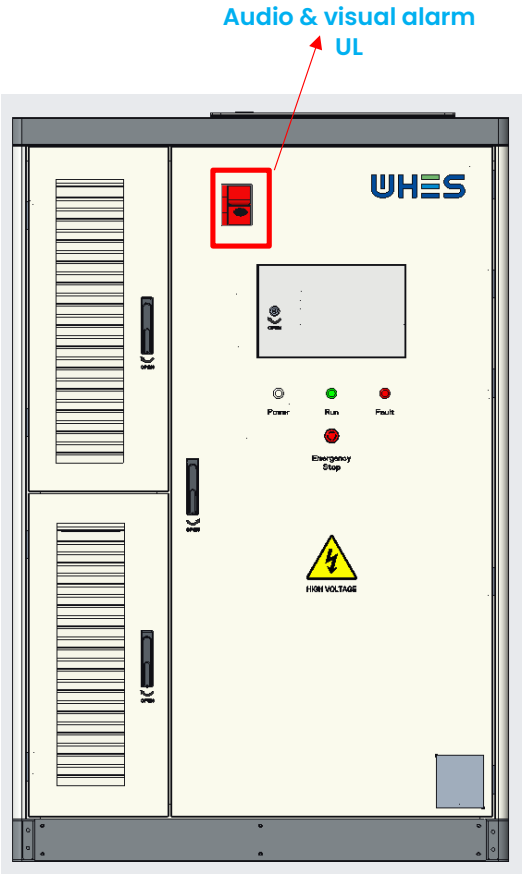
Obvious Safety

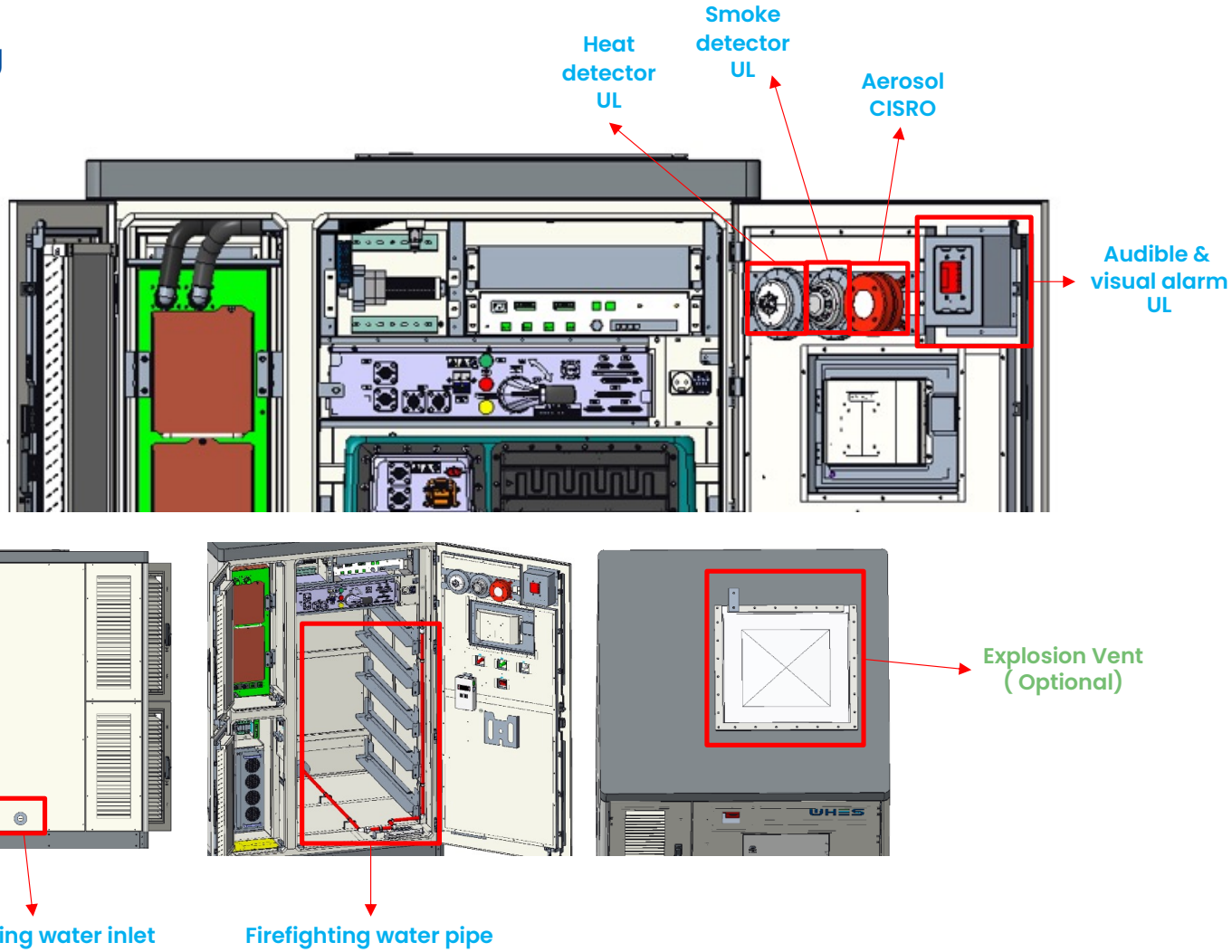


12 Major Hardware Safety Settings to Establish the Most Reliable Defense Line

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New Safety Version Of TIANWU





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Energy Management System

PANGUOS



Cloud-Based Data Integration

Edge AI Module

OTA Technology

Controllable Load and Day-Ahead Electricity Pricing

3 Major Data Centers

China, Europe, Australia

EN 303645

Cybersecurity Certification

24 Hours before

Proactive Risk Early Warning System

PANGU OS EMS
Energy Management System
C&I and utility ESS

PANGU OS Cloud
Energy Management System
C&I and utility ESS

Device Integration

PV | EV Charger | Diesel Generation | Gas Power Generation | Waste Heat Power Generation

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EMS- PANGU OS FUNCTION

Flexible control strategies

- Peak Shaving
- Backup operation
- Maximum demand control
- PV+ BESS+ EV Charger
- Load consumption tracking, forecasting
- Electrical ancillary services

Multiple protection Operational safety

- Cloud data integration
- Edge AI Module
- 2000 battery cell detection points
- 3000 module measuring points
- Automotive grade chip testing
- Proactive warning 24 hours in advance



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EMS- PANGU OS WEBSITE PAGE



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MANUFACTURING CAPACITY - C&I Production Line



1

Sheet Metal Inventory Area

Cabinets have arrived at the factory and will be put in specific area



2

Spray Area

Test cabinet waterproofing, after passing the test, will send back to the inventory area



3

Assembly Area

The system is ready for assembly on the production line.



6

Packing Area

Preparing for packaging and shipping.



5

Testing Area

Energy Storage System undergoes testing.



4

Assembly Area

Internal modules is assembling

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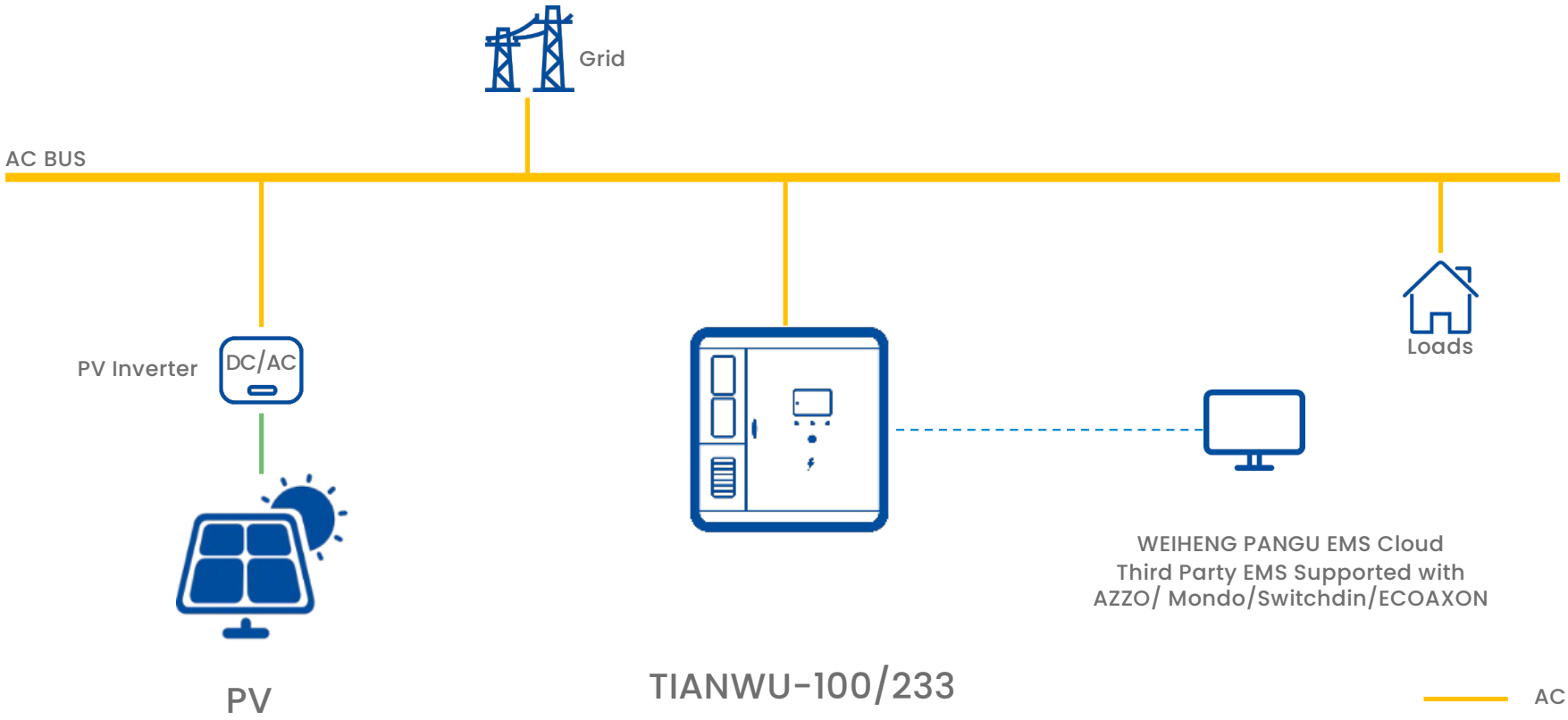
04 C&I BESS + EV Charger Solution

05 TIANWU-AIO Real Project Reference



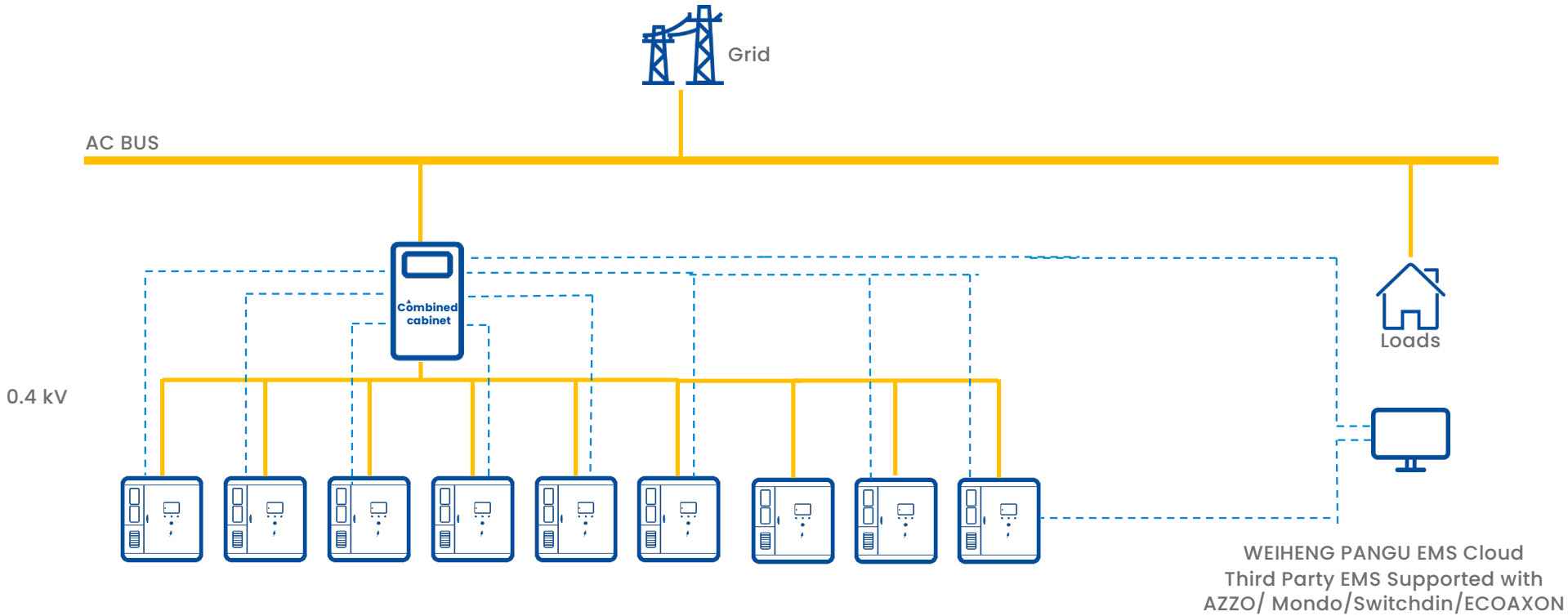
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AC Coupling On-grid Standard Application



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Multi AC Coupling TIANWU-AIO 100/233



Up to TIANWU-AIO × 12

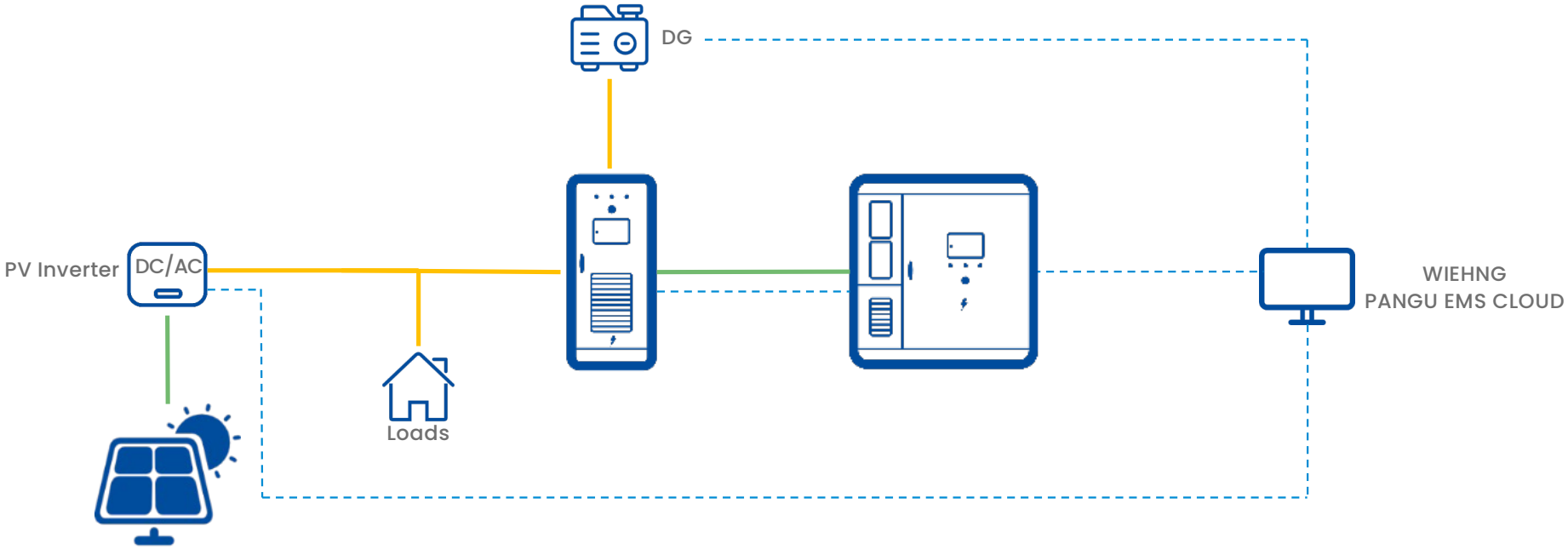
Recommend Purchase the combined cabinet locally

AC Cable
COM Cable

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Off-grid with DG

- AC-couple



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EV charger market trend

Higher speed of the EV charging with bigger power of the fast chargers is becoming popular

- EV manufacturers want to shift to 800 volts architecture, which improves the EV charging power to **350kW+**
- The transition to 800-volt EVs is already well underway. Automakers including Porsche, Hyundai, Genesis, Kia and Audi already offer EVs with 800-volt battery systems. Volvo, Polestar and Lotus have also committed to 800-volt architectures. There will be around **63 models of EV** launched by 2024, with 800 volts architecture.

1 Lucid Air - 350 kW

Starting Price: $87,400



2 Kia EV6/ Hyundai Ioniq 5 - 350kW

Starting Price: $48,700 (EV6)/$41,450 (Ioniq 5)



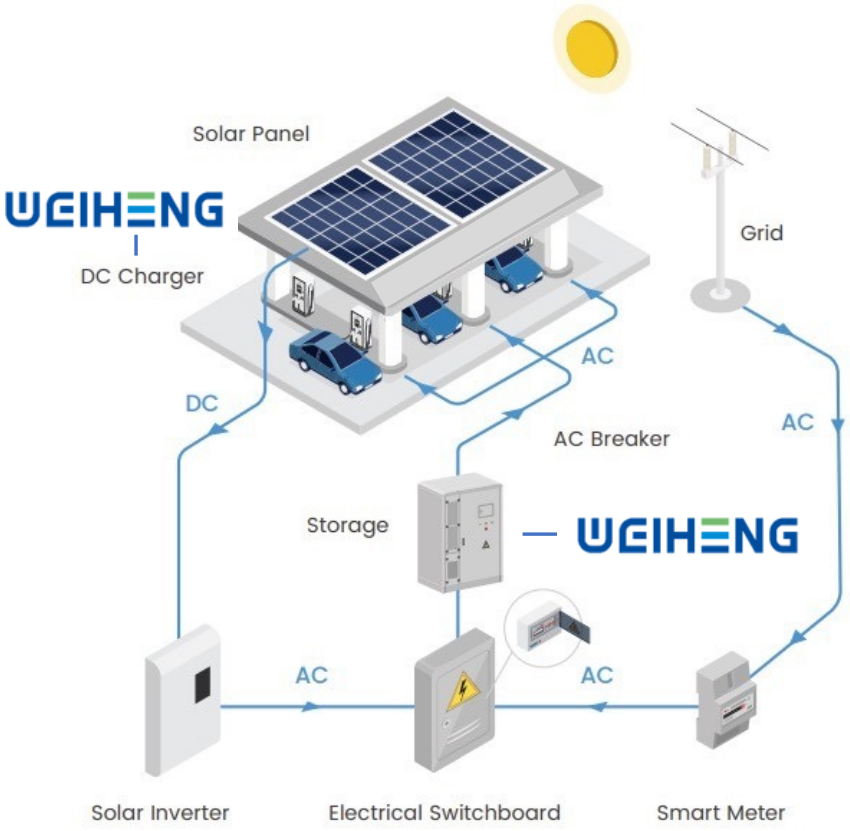
4 Genesis Electrified GV70, Genesis GV60 - 350kW



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Integrated EV charger + BESS solution

Solar PV + EV charger + BESS: a popular business model attracting a lot of attention



Benefits:

- Profit for the EV charging
- Demand reduction to ease the limit of the transformer
- Peak shaving

Direct & additional benefit

- Energy trade to the NEM
- Frequency control auxiliary service (FCAS)

Policy driven benefit

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WEIHENG cooperation with EV charger platform

EVSHINE from LongShine

- EVSHINE is an integrated charging platform, from LongShine, a listed company in China, with technology and efficient operational systems as its core competitive strengths.
- The platform has already aggregated 200+ charging operators, over 900,000 charging stations, and more than 1,000,000 charging piles. It has registered over 10,000,000 users, covering over 260 cities nationwide
- To reduce the energy cost and fulfill demand reduction, EVSHINE has deployed TIANWU – WEIHENG C&I solution at their charging station.
- **1,000pcs TIANWU order is made**, now first batch of TIANWU **in 20+ stations** are already installed and running well.





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C&I solution – REFERENCE CASES








- C&I All in One Energy Storage and EV charging Project -6MWh

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Customer Feedback – C&I ESS





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Customer Feedback – C&I ESS













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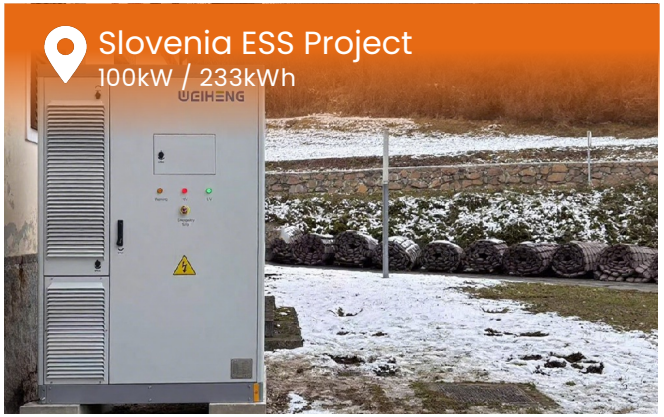
Customer Feedback – C&I ESS













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Customer Feedback – C&I ESS







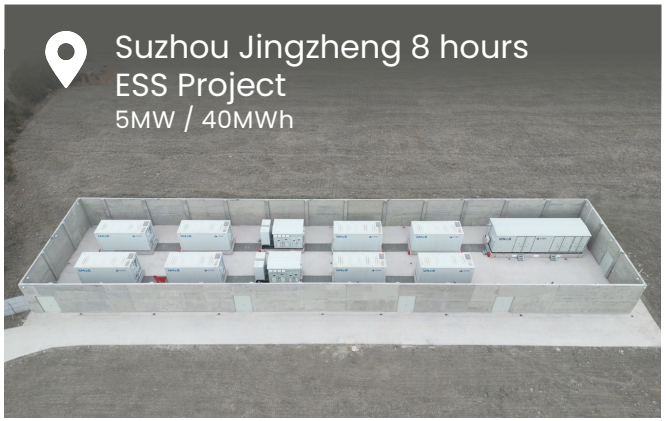






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Customer Feedback – C&I ESS







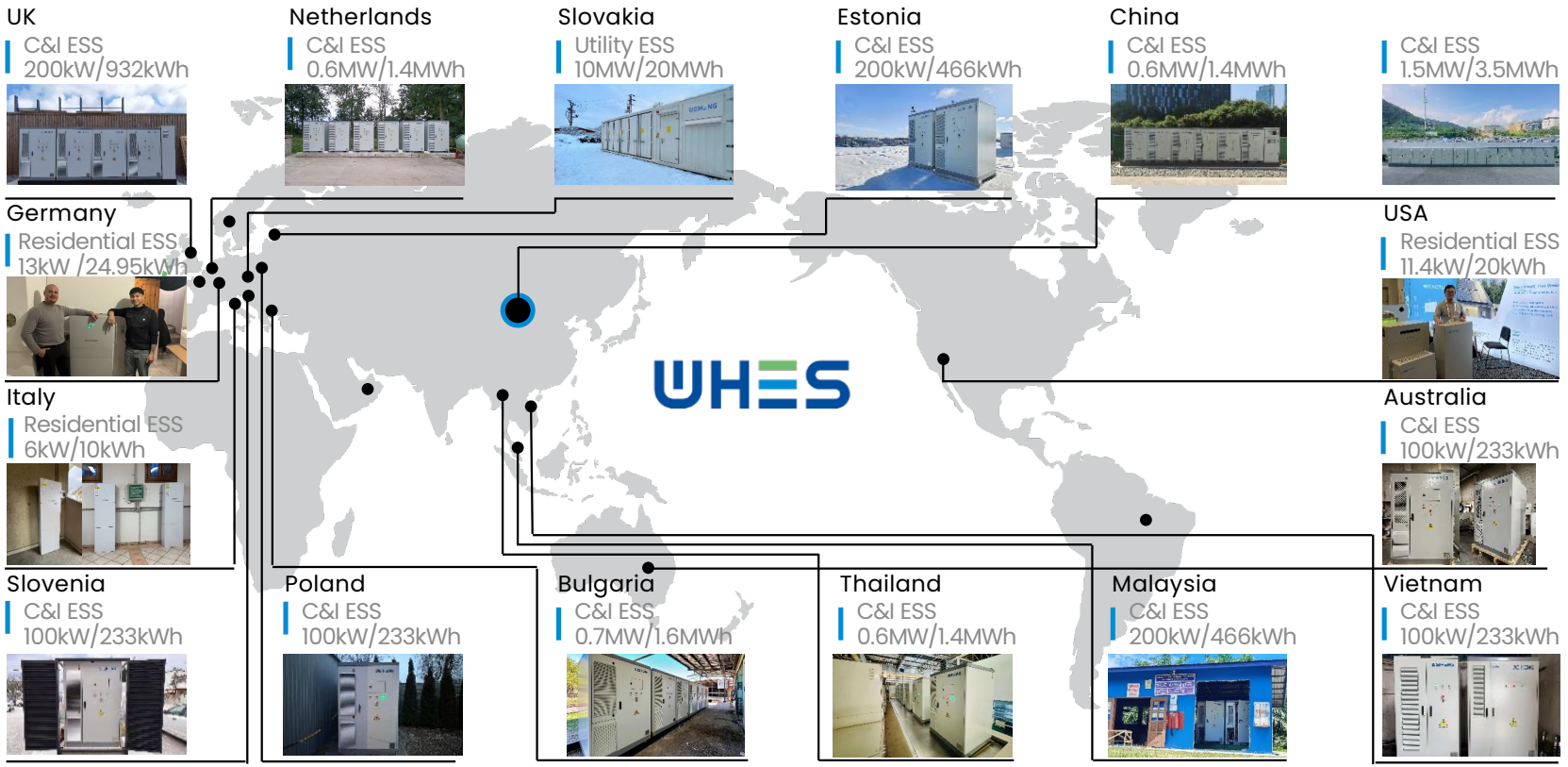






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Global Footprint



38+

Countries/Regions Covered

400+

Number of Global On-site Projects

All Great

Zero Incidents in Completed Energy Storage Projects

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