

REPT BATTERO

New Energy Power and
Energy Storage Battery Expert



About

REPT BATTERO

REPT BATTERO Energy Co., Ltd. was established in 2017 as the first enterprise invested by Tsingshan Industry in the field of new energy. REPT BATTERO mainly engages in the research and development, production, and sales of lithium-ion batteries, providing solutions for new energy vehicle and smart energy storage system. REPT BATTERO develops innovative products and services to accelerate the global green energy transformation.

The company has R&D centers in Shanghai, Wenzhou, and Jiaxing, and production bases in Wenzhou, Jiaxing, Liuzhou, Foshan, and Chongqing. By the end of 2022, the production capacity is 35.2GWh, and it will exceed 150GWh in 2025. In 2022, the installed volume of REPT BATTERO power batteries ranked among the top ten, and energy storage batteries held third place in shipments.



WENDING BATTERY

Super High Volume Energy Density
Dual Chemical System



High
Energy Density



High
Security



Long
Cycle Life



CELL



MODULE



PACK



BMS

REPT

Corporate Vision

**Innovate Smart Energy,
Illuminate Green Future**

Business Background

TSINGSHAN HOLDING GROUP

Tsingshan holding group combines its rich mineral resources to invest and layout in the new energy field. REPT BATTERO enjoys the unique resource integration ability and full industry chain synergy advantages endowed by Tsingshan holding group, and becoming one of the fastest growing battery manufacturers in the industry.

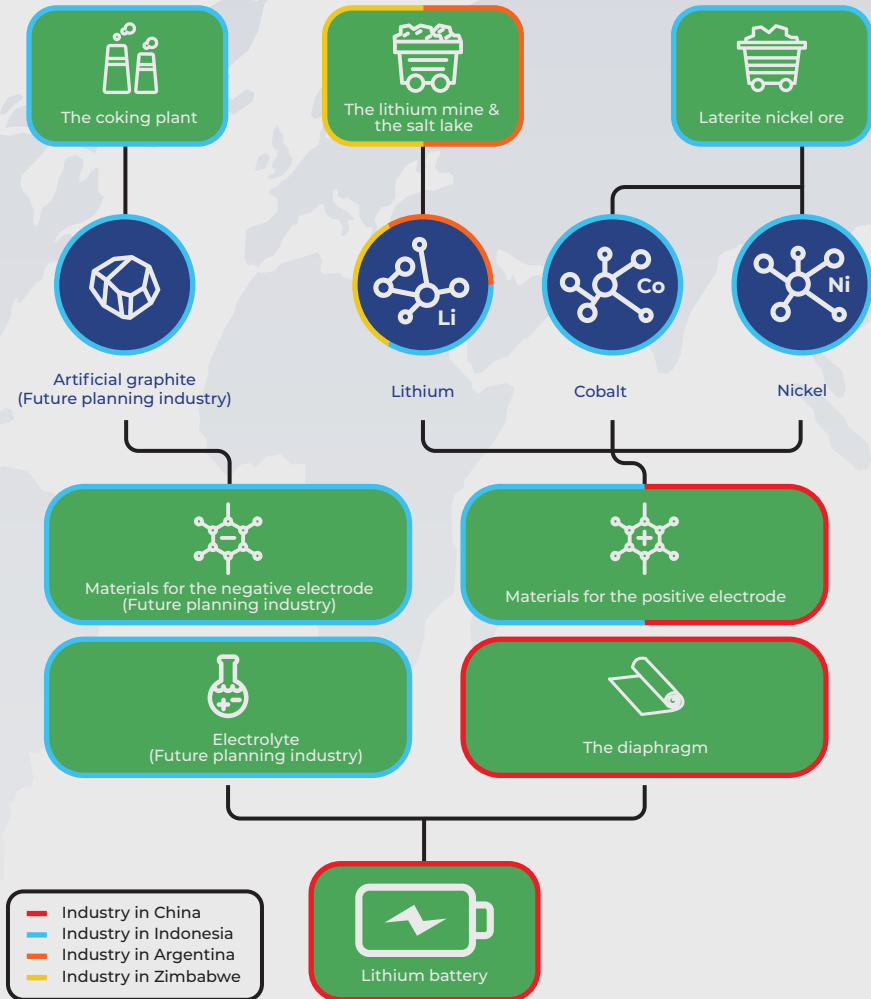
Output ranking
of crude steel for stainless
steel making worldwide **NO.1**

Output ranking of
nickel metals worldwide **NO.1**

2023 Global Fortune
500 List **NO.257**

TSINGSHAN HOLDING GROUP

The third entrepreneurial layout of
the new energy industry chain



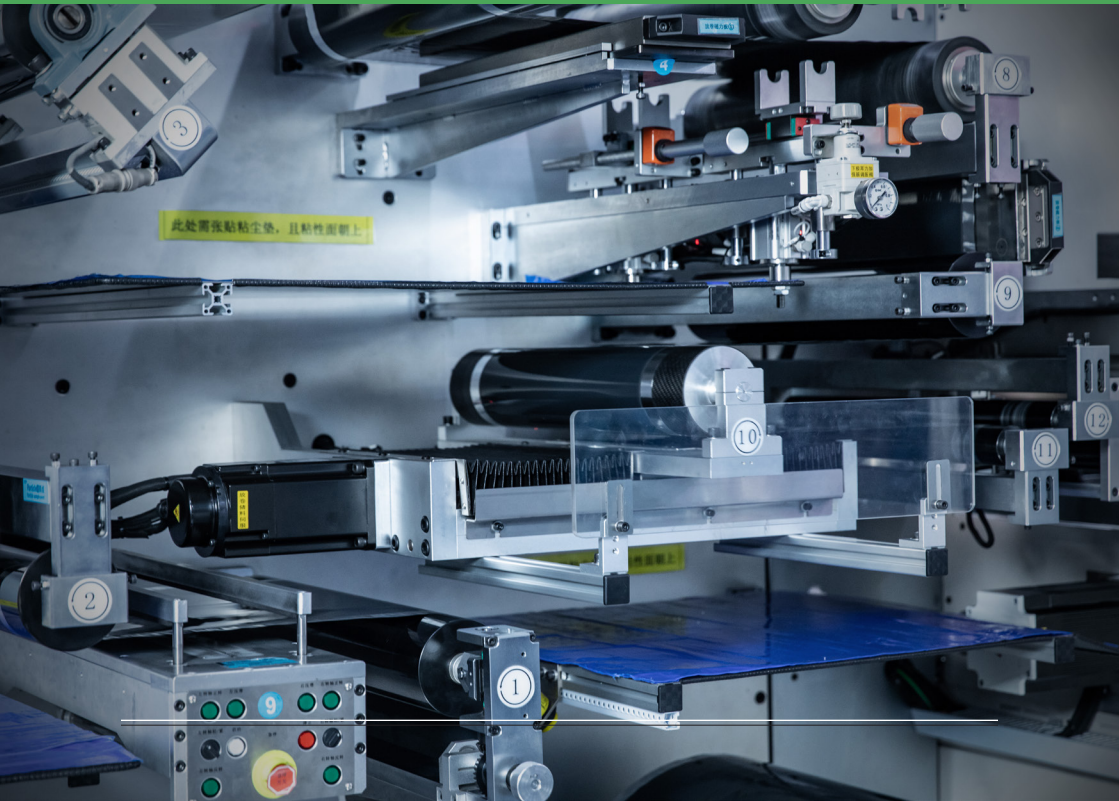
Advantage

Rapid expansion of industrial chain ●

TSingshan Group plans and expands multiple categories in the value chain of lithium-ion battery industry through direct holding or equity investment.

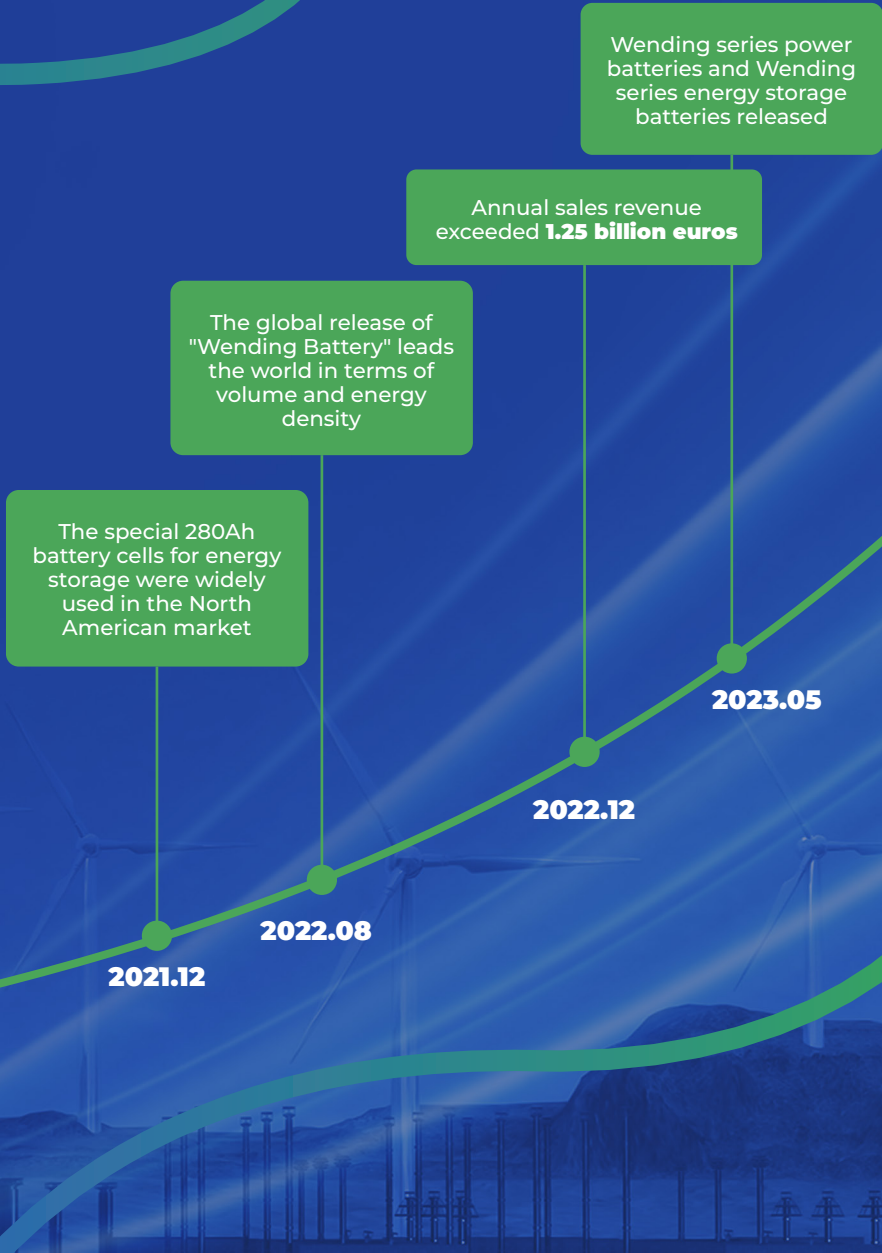
Resource integration and synergy advantages ●

- Integrated industrial chain
- Long-term stable supply
- Favorable business conditions allowed by market rules
- Backward integration of industrial chain to increase bargaining power



Development History







ACHIEVEMENTS

Industry Rankings



REPT ranked **No.3** of energy storage cell shipments and **2nd** in terms of power storage cell shipments in the year of 2022.

Data source: 2022 GII



Ranked among the **TOP 10** global lithium-ion battery manufacturers for new energy applications in 2022



Ranked among the **TOP 10** domestic power battery manufacturers in the Chinese market in 2022

Awards and Certifications



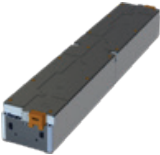
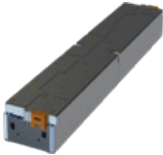

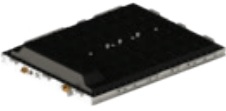
As a leading enterprise dedicated to the research and manufacturing of high-quality battery products, REPT has obtained over a hundred domestic and international certifications, including CNAS, the China National Laboratory accreditation; TÜV Rheinland Witness Testing Laboratory certification, NECAS the National Commodity After-Service Certification with a five-star standard, a seven-star certification for the completeness of the CTEAS after-service system, etc.

REPT will be committed to continuously improving product quality and after-service quality, providing consumers with safer, more environmentally friendly, and more reliable battery products.



PRODUCTS

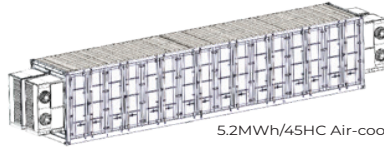
Product Matrix of EV

	LFP	NCM
EV BATTERY	 <p>Energy density: 170~200Wh/kg Cycling life: ≥4000 cycles Battery capacity: 104~230Ah</p>	 <p>Energy density: 230~280Wh/kg Cycling life: ≥2500 cycles Battery capacity: 155~243Ah</p>
EV MODULE	 <p>Energy density: 160~180Wh/kg</p>	 <p>Energy density: 200~220Wh/kg</p>
EV PACK	 <p>Advanced liquid thermal management technology solves the most complex high-voltage breakdown failure problem and ensures high-voltage electrical safety.</p>	 <p>All aluminum alloy box shell, balancing structural strength and lightweight. Provide a quick change solution for thermal management interfaces for easy installation and replacement by customers.</p>

PRODUCTS

Product Matrix of ESS

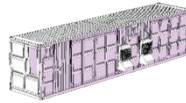
DC Block



5.2MWh/45HC Air-cooling



3.727MWh/40HC Air-cooling



3.727MWh/20HC liquid-cooling

Highly integrated, with strong voltage level compatibility; Multiple joint high safety fire protection systems Comply with GB, UL, IEC and other domestic and foreign standards

Battery Rack



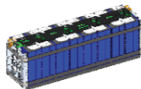
372.7kWh Air-cooling



372.7kWh liquid-cooling

Cycling life:
6000~8000 Cycles
Comply with GB, UL, IEC and other domestic and foreign standards

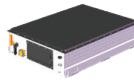
Module & Pack



Air-cooling module



Air-cooling pack



Liquid-cooling pack

Cycling life:
6000~8000 Cycles
Comply with GB, UL, IEC and other domestic and foreign standards

Cell



50Ah



72Ah



100Ah



100Ah



150Ah



205Ah



280Ah



306Ah



320Ah

Energy density:
145~180Wh/kg
Cycling life:
4000~10000h
Nominal capacity:
50~320A

REPT

SIGNATURE OF WENDING BATTERY

The “Wending Battery” is a technology that integrates the innovation in electrode lug of the battery with the innovation in welding of the top cover for the battery housing, internal electrochemical characteristics, and stabilizing solid liquid interface. It can be applied to lithium iron phosphate batteries and ternary lithium batteries to improve the electrode surface density and enhance the energy characteristics of batteries.

The REPT BATTERO WENDING battery adopts a new top cover design, which innovative integrated welding technology reduces the length of the electrode ear by $\frac{2}{3}$, effectively compressing the top space, and the tighter top structure also makes the battery safer.





The 158Ah LFP battery of Wending power series has ushered in a new epoch of lithium iron phosphate batteries, with an energy density of 450Wh/L and range of 700KM., while 200Ah high nickel NCM batteries range up to 1200KM.

The 320Ah battery of Wending Energy Storage Series has the same appearance and size as 280Ah, with an increase in volume energy density of over 15%, a cycle life of over 10000 weeks, and a calendar life of over 20 years.

PLANNING FOR GLOBAL INDUSTRIAL LAYOUT

Capacity planning in 2025

150GWh+

Scale in 2027

€ 14 billion

NORTH AMERICA

R&D Center
Marketing Center

SOUTH AMERICA

Marketing Center

EUROPE

FRANCE | GERMANY
Battery Manufacturing Base

AFRICA

Marketing Center

Production bases

Wenzhou | Liuzhou | Jiashan | Foshan | Chongqing
Europe and Indonesia are under planning.

CHINA

SHANGHAI | WENZHO
FOSHAN | LIUZHOU | SHENZHEN
GUANGZHOU | WUHAN...

New Energy Base
Sales/R&D Manufacturing
Service

JAPAN

Marketing Center

**SOUTHEAST
ASIA**

Battery Manufacturing Base
Marketing Center

AUSTRALIA

Marketing Center

GLOBAL PARTNERS

Passenger vehicles



Large Energy Storage



Commercial vehicles



Household Energy Storage



ESG PATH



Supply Chain Traceability Management

Integrating ESG execution into supplier evaluation standards.



Energy Use

A green power system based-on photovoltaic technology was established in the factory in Wenzhou. This practically saves standard coal for combustion and reduces CO2 emissions.

A heat recovery system was established to reduce natural gas consumption.



Corporate Social Responsibility System

Led by the Chairman, Executive Directors, and other senior leaders of the Company Corporate Social Responsibility management organization.



Production Safety and Health of Staff

The Company passed the Occupational Health and Safety Management System certification in 2020.

The Company passed the internal and external review of the Enterprise Safety Production Standard and three-level Safety Production Standard certification.



Waste Discharge And Utilization

Boilers used in the Company features a special design to reduce the emission concentration of CO2 and other pollutants.

Detailed classification increases the recycling value of solid waste and facilitates resource utilization of general solid waste.



Battery Recycling

Promoting the development of lithium-ion battery recycling technology is taken as a technology for the reserve. The Company signed a strategic cooperation agreement with GEM Co., Ltd. to jointly promote the safe recycling of power batteries, realizing the safe recycling, storage, and green disposal of lithium-ion batteries. This facilitates high-quality recycling solutions from the resource.



ESG Achievement

Approved 2022 National Green Factory

Selected into the list of Green and low-carbon factory in Zhejiang Province in 2021

Passed the evaluation of "waste free plant" in Zhejiang Province in 2021

Obtained the certification of SO45001:2008-Occupational Health and Safety Management System

Won the bronze meda of Ecovadis corporate socail responsibility, an international business sustainability scoring platform



QUICK FACTS

- A rapidly growing battery manufacturer in a burgeoning industry
 - Leading-edge R&D strength
 - A long-term, stable, cost-efficient supply chain
 - Industry-leading large-scale production capability
 - The capacity of LFP power battery for vehicles installed in 2022 ranks among the **TOP 5**.
 - 2022 The shipment volume for electric energy storage batteries of the Company was ranked in the **TOP 2**.
 - The advocate and doer in the field of sustainability
 - High-quality and diverse customer bases
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CONTACT

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