

REPT
瑞浦兰钧

创新智慧能源 点亮绿色未来
Innovate Smart Energy Illuminate Green Future

瑞浦兰钧能源股份有限公司
REPT BATTERO Energy Co., Ltd.

全球总部 GLOBAL HEADQUARTERS

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制造基地: 温州 | 嘉善 | 柳州 | 佛山 | 重庆
Manufacturing base: Wenzhou | Jiashan | Liuzhou | Foshan | Chongqing

股票代码 瑞浦兰钧
0666.HK



瑞浦兰钧
新能源储能电池专家

REPT BATTERO
AN EXPERT IN NEW ENERGY BATTERY STORAGE

股票代码 瑞浦兰钧
0666.HK

企业背景实力强大 青山集团躬身入局

WITH STRONG BACKGROUND AND STRENGTH,
TSINGSHAN HOLDING GROUP STARTED ITS BUSINESS
EXPLORATION IN THIS BATTERY SECTOR.

青山集团根植于不锈钢产业，致力于打造高品质、低成本、节能环保的不锈钢产品，生产美观卫生的不锈钢粗钢制品，满足人们不断提高的对美好生活的需求；同时积极向新能源领域拓展，旨在为人类的绿色可持续发展贡献力量。

With its business deeply rooted in the stainless steel industry, Tsingshan Holding Group is committed to producing high-quality, low-cost, energy-saving and environmentally friendly stainless steel products. It produces beautiful and hygienic stainless crude steel products to meet people's increasing demand for a better life. At the same time, it is actively exploring its business in the field of new energy, aiming to contribute to the green and sustainable development for mankind.

NO.1

全球不锈钢粗钢产量排名
Ranking of global stainless steel crude steel production

NO.1

全球镍金属产量排名
Ranking of global nickel metal production

NO.257

2023年世界500强企业
Ranking in Fortune Global 500 2023

3821 亿

2023年销售收入
Sales Revenue of 2023

140000+

2023年员工总人数
Total number of employees in 2023

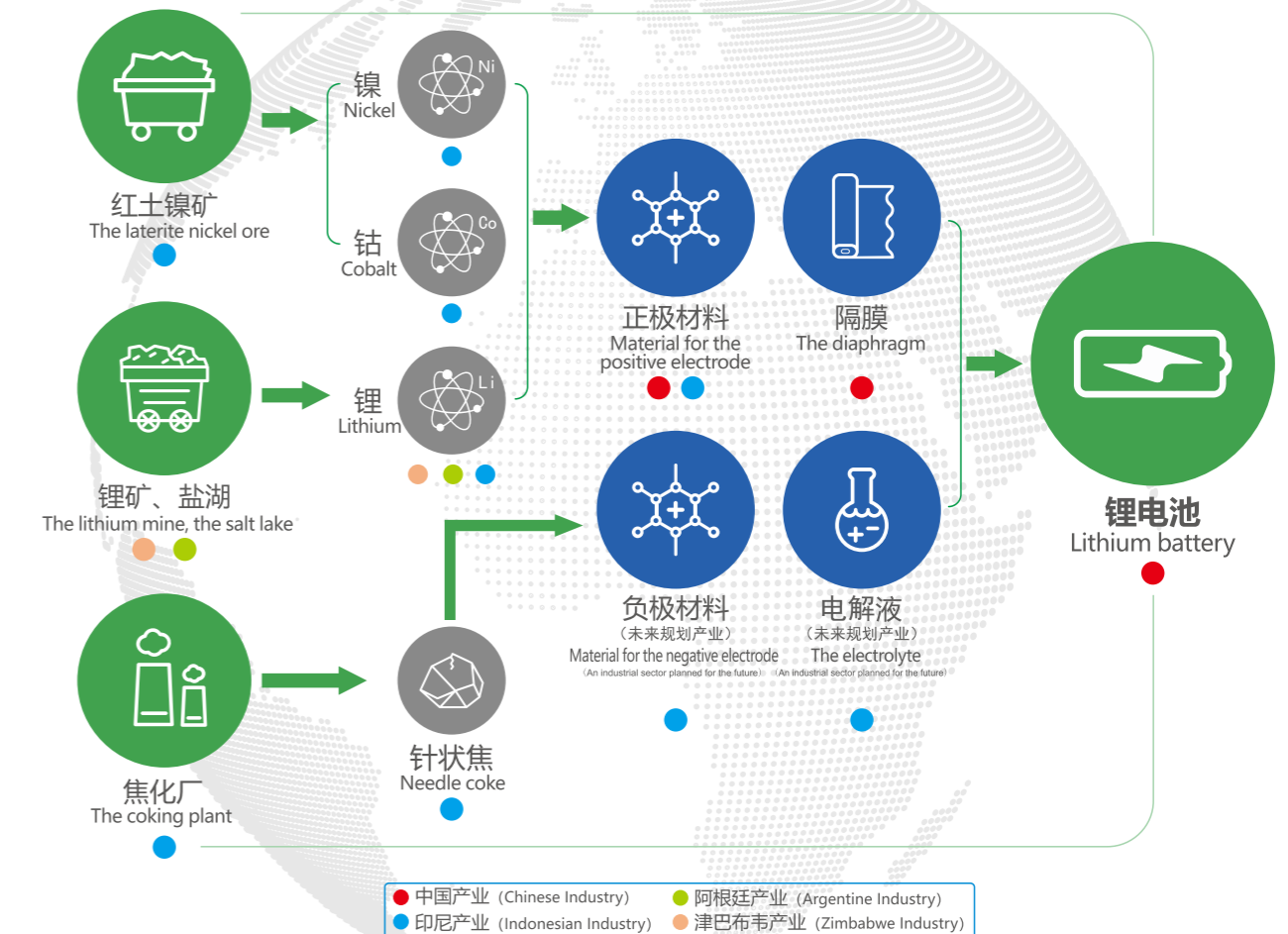
股票
代码 **0666.HK**
瑞浦兰钧



青山第三次“创业” 布局新能源产业链

REPT
瑞浦兰钧

TSINGSHAN VENTURES ITS THIRD "ENTREPRENEURSHIP"
IN THE NEW ENERGY INDUSTRY CHAIN.



独特优势

UNIQUE ADVANTAGES

产业链快速扩张

Rapid expansion of the industrial chain

青山集团通过直接控制或者股权投资，对锂离子电池行业价值链上的多个范畴进行布局与扩张。

Tsingshan Holding Group has been expanding its presence in the lithium-ion battery industry through direct control and equity investment in various areas of the value chain of the lithium-ion battery industry.

资源整合协同优势

Resource integration and synergy

一体化产业链、长期稳定的供应链，基于市场规则允许的有利商业条件产业链向后一体化，增加议价能力。

Backed with the integrated industrial chain, a stable supply chain in long-term, industrial chain backward integration that is acceptable to market-based rules and conducive to commercial conditions, Tsingshan has been developing more power for business bargaining and negotiating.

关于瑞浦兰钧 ABOUT REPT

瑞浦兰钧能源股份有限公司是中国增长最快的锂离子电池制造商之一。
专注锂离子动力电池产品及储能电池产品的研发、制造及销售。

REPT BATTERO Energy Co., Ltd. is one of the fastest growing lithium-ion battery manufacturers in China.
It has been committed to R&D, manufacturing, and sales of lithium-ion power battery products and energy storage battery products.

2023年销售收入
Total sales revenue in 2023
13.7bn

137亿元

出货量同比增长率

500%

The company's shipments increased by 500% year-on-year.

2023年全球储能电池市占率

2023 Global ESS Ranking

NO.4

锂电池装机量年复合增长率

NO.1

The company's lithium battery installations ranked NO.1 in terms of compound annual growth rate.

2023年LFP动力电池企业装车量

2023 LFP power battery enterprise installation volume

NO.6

2025年总产能

150GWh+

The company plans to reach a total capacity of 150GWh+ in 2025.

研发实力
R&D expertise

业务基地

五大洲

The company has established business bases on five continents.

发展历程 MILESTONES

2023

2022

2021

2020

2019

2018

2017

- 2023.02**
重庆30GWh生产基地项目正式签约
Chongqing 30GWh Production Base Project Officially Signed
- 2023.03**
温州制造基地(三期)项目签约
Signing of Wenzhou Manufacturing Base (Phase III) Project
- 2023.05**
Energy Vault签署10GWh储能电池供货协议
Energy Vault Signs 10GWh Energy Storage Battery Supply Agreement
- 2023.09**
瑞浦兰钧欧洲子公司正式启动
Official Launch of REPT BATTERO's European Subsidiary
- 2023.12**
瑞浦兰钧成功登陆港交所
REPT BATTERO successfully landed on the Hong Kong Stock Exchange
Translated with DeepL.com (free version)
- 问顶电池发布超高能量密度; 年度储能电池出货量排名:中国第三(全球第四), 其中电力储能中国出货量第二(全球第四)

■ The release of Quest for Top Battery is the launch of a battery with ultra-high energy density. The Company was ranked the third in China (and the fourth around the world) in terms of annual shipment volume of energy storage batteries. Among them, the Company was ranked the second domestically (and the fourth globally) in terms of batteries for electric energy storage.
- 2022.01**
与科陆、Powin达成深度合作
The Company established deep cooperations with CLOU and Powin.
- 2022.03**
瑞浦赛克+赛克瑞浦20GWh项目签约
REPT SAIC and SAIC REPT signed a 20GWh project.
- 2022.09**
月出货量突破2GWh,温州三期开工建设
The company's monthly shipments exceeded 2GWh, While its manufacturing base in Wenzhou Phase III started construction.
- 2022.12**
年销售收入过百亿,实现“五年百亿,十年千亿”的第一阶段目标
The annual sales revenue exceeded 10 billion yuan, achieving the first stage of the goal "reach 10 billion yuan in the first five years and 100 billion yuan in the next ten years".
- 储能专用长循环280Ah电池面市、接入TOP3终端供应商体系
The special long cycle 280Ah battery for energy storage was launched. The Company was accepted as the supplier of the TOP3 terminal supplier system of energy storage.
- 2021.04**
与阳光电源达成深度合作
The Company established deep cooperative relations with Sungrow.
- 2021.12**
储能专用280Ah电芯批量应用于北美市场
The specialized 280Ah battery cells for energy storage were widely used in the North American market.
- 2020.04**
与古瑞瓦特达成深度合作
The Company established deep cooperations relations with Growatt.
- 2020.06**
国网平高山东新泰光伏电站5MW/10MWh
The Company delivered the Xintai Photovoltaic Power Station 5MW/10MWh Project for the Branch of Pingdu and High-tech Industrial Development Zone, Shandong, State Grid.
- 2020.07**
甘肃瓜州130MWh储能项目
The Company delivered an Energy Storage Project of 130 MWh in Guazhou, Gansu.
- 2020.12**
西藏胡明桑珠孜区2.5MW/5MWh储能项目
The Company delivered an Energy Storage Project of 2.5 GWh/5 GWh in Langkazi District, Shigatse, Tibet.
- 2019.03**
印尼大小K岛85MWh储能项目一期投入运营,户储专用50Ah电芯面世,并与Solax达成深度合作
Phase I of the 85 GWh Energy Storage Project on Great and Little Karimun islands in Indonesia was put into operation. With the dedicated 50Ah cells for household storage commercially launched, the Company established deep cooperations with Solax.
- 2019.06**
温州制造基地新增3GWh产线投产
The newly established production line of 3 GWh for the manufacturing base in Wenzhou was put into operation.
- 2019.11**
与EP(中力叉车)达成深度合作;与阳光电源达成合作意向
The Company established deep cooperations with EP and reached cooperation intentions with Sungrow.
- 2018.10**
3GWh产线正式投入使用
The production line with the capacity of 3GWh was officially put into operation.
- 2017.10**
瑞浦能源有限公司成立
REPT was established.
- 2017.12**
温州制造基地启动建设
The construction of manufacturing base in Wenzhou was started.

THE EXCLUSIVE AND ADVANCED TECHNOLOGY WENDING BATTERY

独家先进技术 问顶电池

融合电芯结构技术、工艺技术及装备技术创新、内部电化学特征及稳定固液界面的尖端技术,可应用于磷酸铁锂电池和三元锂电池产品,实现双高电极的应用,并持续增强电池的能量特性及安全特性。

The integration of the cutting-edge technology in structure, in process, and in equipment for the cell with the internal electrochemical characteristics and stable solid liquid interface is applicable for both the lithium iron phosphate battery products and ternary lithium battery products to facilitate a cell of high energy density and high power density and enhance the energy characteristics and safety characteristics of the battery.

空间利用率提升 **7%+**
The utilization ratio of the internal space increased by a minimum of 7%.



长寿命
10000次循环
LONG SERVICE LIFE
OF 10000 CYCLES

新一代
320Ah
THE NEW GENERATION CELL WITH
THE CAPACITY OF 320Ah

储能专用 **超长寿命** **超大容量**
Specialized energy storage Ultra-long service life Ultra-large capacity

问顶六边形、全域自研技术

WENDING HEXAGONAL (COVERING 6 DIRECTIONS FOR TECHNOLOGICAL IMPROVEMENT OF THE CELL), INDEPENDENTLY-DEVELOPED TECHNOLOGY IN THE COMPREHENSIVE SCENARIO



研发能力 R&D EXPERTISE

研发技术中心的硬件配置及功能全面覆盖各项标准要求及整车等领域的客户需求。2021年7月通过CNAS实验室认证。

The hardware configuration and functions of the R&D Center fully cover various standard requirements and customer needs in various fields such as vehicle applications. It was accredited by CNAS for laboratory certification in July 2021.

200+
测试项目数量
 Number of test projects

2万+
测试通道数量
 Number of test channels

CNAS
中国国家实验室认可
 It was accredited by China National Accreditation Service for Conformity Assessment.

TÜVRheinland
德国莱茵目击实验室
 德国莱茵ISO26262
 功能安全管理体系认证(BMS)
 TÜV Rheinland Witness Testing Laboratory
 TÜV Rheinland ISO26262
 Functional Safety Management System (BMS)

100+
海内外产品认证数量
 Number of products certified at home and abroad

电芯 CELLS, 储能系统 ENERGY STORAGE SYSTEM, BMS

Battery Safety, GB, UL, IEC, TÜVRheinland, UN38.3

储能电芯

CELLS FOR ENERGY STORAGE SYSTEM



瑞浦兰钧储能电池产品主要为磷酸铁锂电池产品，广泛适用于不同储能场景，包括家用储能(户储)、大型工业储能场景(发电站、电网)以及商业储能等全场景。

REPT energy storage battery products are mainly lithium iron phosphate battery products, which are widely used in various energy storage scenarios, including Household Energy Storage (Household Storage), Large-scale Industrial Energy Storage (power stations, power grids), and Commercial Energy Storage.

户用储能电芯 (Cells for Household Energy Storage)

瑞浦兰钧开发的50Ah磷酸铁锂电池，一经推出便打开户用储能市场，迅速成为行业明星产品。如今已成为欧美户储主流产品。在2023年该产品也将升级到72Ah以适用更高储能需求的用户。

The 50Ah lithium iron phosphate battery developed by REPT has been favorably accepted in the Household Energy Storage market ever since its immediate commercial launch. It quickly became a popular product in the industry. It becomes the mainstream product in European and American household storage. In 2023, the product will also be upgraded to 72Ah to accommodate users with higher energy storage needs.

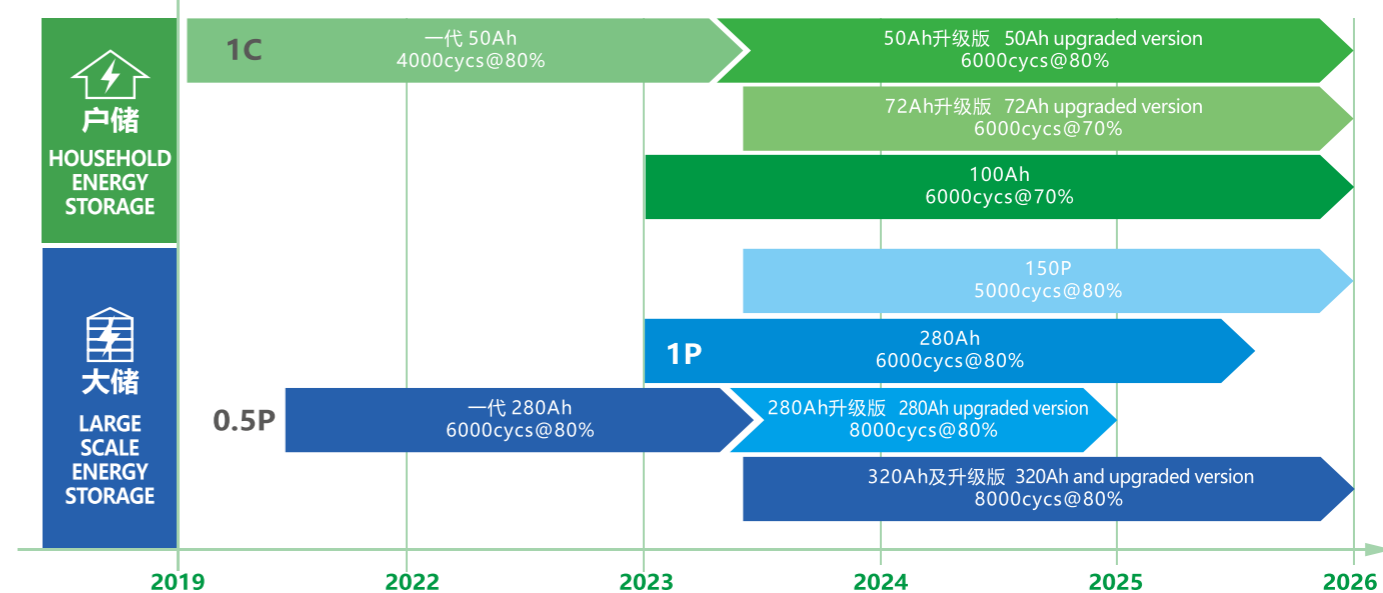
电力储能电芯 (Cells for Power Energy Storage)

280Ah系列产品也于高端市场稳占一席之地。2023年我们将升级为320Ah大容量电力电芯也将投入量产，该产品符合GB、UL、IEC等国内外标准。

Products in 280Ah series also enjoy a stable market share in the high-end market. In 2023, we will upgrade the capacity of the battery cell. The 320Ah large capacity power cell for product upgrading will also be put into massive production. This product meets domestic and international standards such as GB, UL, IEC, etc.

电芯产品 CELL	50Ah	72Ah	100C/100P	100Ah	280Ah	320Ah	345Ah			
电池容量 Battery capacity	50Ah	72Ah	100C/100P	100Ah	150P	205Ah	280Ah	314Ah	320Ah	345Ah
能量密度 Energy density	140Wh/kg	165Wh/kg	170Wh/kg	170Wh/kg	170Wh/kg	170Wh/kg	170Wh/kg	179Wh/Kg	179Wh/Kg	185Wh/Kg
循环寿命 Cycling life	4000/6000	6000	3000/6000	4000	6000	4000	8000	12000	12000	12000
产品认证 Product certification	UL/JET/IEC BIS/UN	IEC/UL/UN	IEC/UL/UN	IEC/UL/BIS/UN	TBD	GB/IEC	IEC/GB/UL	UL9540A, UL1973, IEC62619,UL1642, GB/T 36276,UN38.3	UL9540A, UL1973, IEC62619,UL1642, GB/T 36276,UN38.3	UL9540A, UL1973, IEC62619,UL1642, GB/T 36276,UN38.3

瑞浦兰钧研发路线 R&D ROADMAP OF REPT



液冷储能系统

CONTAINERIZED BATTERY SYSTEM WITH LIQUID COOLING



目标市场: 国内、海外电力、工商业 | 0.5P | 液冷需求

Target market: domestic and overseas electric power market, industrial and commercial applications | 0.5P | demand for liquid cooling

	Y52电箱 Y52 Boxed Battery System	Y52液冷储能系统 Y52 Containerized Battery System	Y104电箱 Y104 battery module	Y104集装箱 Y104 liquid-cooled container
成组形式 Form of grouping	1P52S	10P*1P416S	1P104S	12P416S
标称电压 Nominal voltage	166.4V	1331.2V	332.8V	1331.2V
电压范围 Voltage range	130V~189.8V	1081.6~1497.6V	260V~379.6V	1040V~1500V
标称能量 Nominal energy	46.592kWh	3.727MWh	106496Wh	5.55MWh
产品尺寸 Product size	1120×810×238	20HQ	2150.5*779*250	20HQ
产品质量 Product mass	~ 330kg	35000kg	690kg	45T

风冷储能系统

ENERGY STORAGE SYSTEM WITH AIR COOLING



目标市场: 国内电力 | 工商业 | 0.5P | 风冷需求

Target market: domestic and overseas electric power market, industrial and commercial applications | 0.5P | demand for Air Cooling

	A16电箱 A16 Boxed Battery System	R15电池簇 R15 Battery Racks	R26电池簇 R26 Battery Racks	A16风冷储能系统 A16 Containerized Battery System with Air Cooling
成组形式 Form of grouping	1P16S	1P240S	1P416S	14P416S
标称电压 Nominal voltage	51.2V	768V	1331.2V	1331.2V
电压范围 Voltage range	40V~58.4V	624V~864V	1081.6V~1497.6V	1081.6V~1497.6V
标称能量 Nominal energy	14.336kWh	215kWh	372.736kWh	5217.8kWh
产品尺寸 Product size	805×523×232	810×1070×2020	810×1600×2350	13716×2438×2896
产品质量 Product mass	~ 115kg	~ 1850kg	~ 2950kg	45000kg

优势特点 ADVANTAGES

同冷暖
Uniform Thermal Control

电池簇、模块、全体电芯并列送风设计，温差3℃；
The battery cluster, the module, and all battery cells are designed with parallel air ventilation in thermal design to secure a temperature difference of 3℃;

多兼容
Compatible

兼容行业主流BMS；
Applicable to mainstream BMS in the industry；

高安全
High-level safety

DC5000V耐压无击闪，多层断开保护机制；
With a DC 5000V withstand voltage without flash-over and multi-level disconnection and protection mechanism, a high-level system safety is secured.

密集成
Dense integration

支持3.7MWh/40HQ；5.2MWh/45HQ；
The System facilitates 3.7MWh/40HQ；5.2MWh/45HQ.

可升级
Upgradable

Up to 5.9MWh/45HQ

长寿命
Long service life

采用储能专用电芯，标准循环10000次，持续运行20年。
Specialized cells with a standard cycle of 10000 times dedicated for energy storage adopted in the System secures a continuous operation for 20 years.

液冷户外柜

Battery System in an Outdoor Cabinet with Liquid Cooling



目标市场: 国内、海外电力、工商业、0.5P、液冷需求、灵活部署需求、运输限重地区、扩容扩建、补能

Target markets: domestic and overseas electric power market, industrial and commercial applications | 0.5P | demand for liquid cooling, demand for flexible deployment, transportation weight limiting regions, capacity expansion, project expansion, and energy replenishment.

	高压液冷户外柜 High Voltage Battery System in Outdoor Cabinet with Liquid Cooling	低压液冷户外柜 Low Voltage Battery System in Outdoor Cabinet with Liquid Cooling	液冷一体机 Liquid cooling integrated machine
成组形式 Form of grouping	1P416S	208S2P	
标称电压 Nominal voltage	1331.2V	665.6V	
电压范围 Voltage range	1081.6~1497.6V	540.8V~748.8V	
标称能量 Nominal energy	372.7kWh	372.7kWh	
产品尺寸 Product size	1300mm×1300mm×2300mm		
产品质量 Product mass	3.5t	3.5t	
额定电量 Rated electricity level			233kWh
环境湿度 Environmental humidity			5%~95%RH
额定功率 Rated power			125kW
产品尺寸 Product size			1250mm×1350mm×2250mm
质量 Weight			< 2600kg

为全球客户提供不同场景的解决方案及服务

The Company is engaged in providing excellent solutions and services in various scenarios to global customers.



西藏朗明桑珠孜区5MWh光伏储能项目
A solar energy storage project of 5 MWh in Sangzhuzi District, Shigatse, Tibet.



温州 3 MWh光伏储能项目
A solar energy storage project of 3 MWh in Wenzhou, Zhejiang



山东新泰10MWh光伏储能项目
A solar energy storage project of 10 MWh in Xintai, Shandong



甘肃瓜州12MWh光伏储能项目
A solar energy storage project of 12 MWh in Guazhou, Gansu



莫罗瓦利(IMIP)园区118MWh
A project of 118 MWh in Morowali Park, Indonesia



印尼纬达贝园区55MWh
A project of 55 MWh in Weda Bay Park, Indonesia



非洲光伏储能项目
A solar energy storage project in Africa



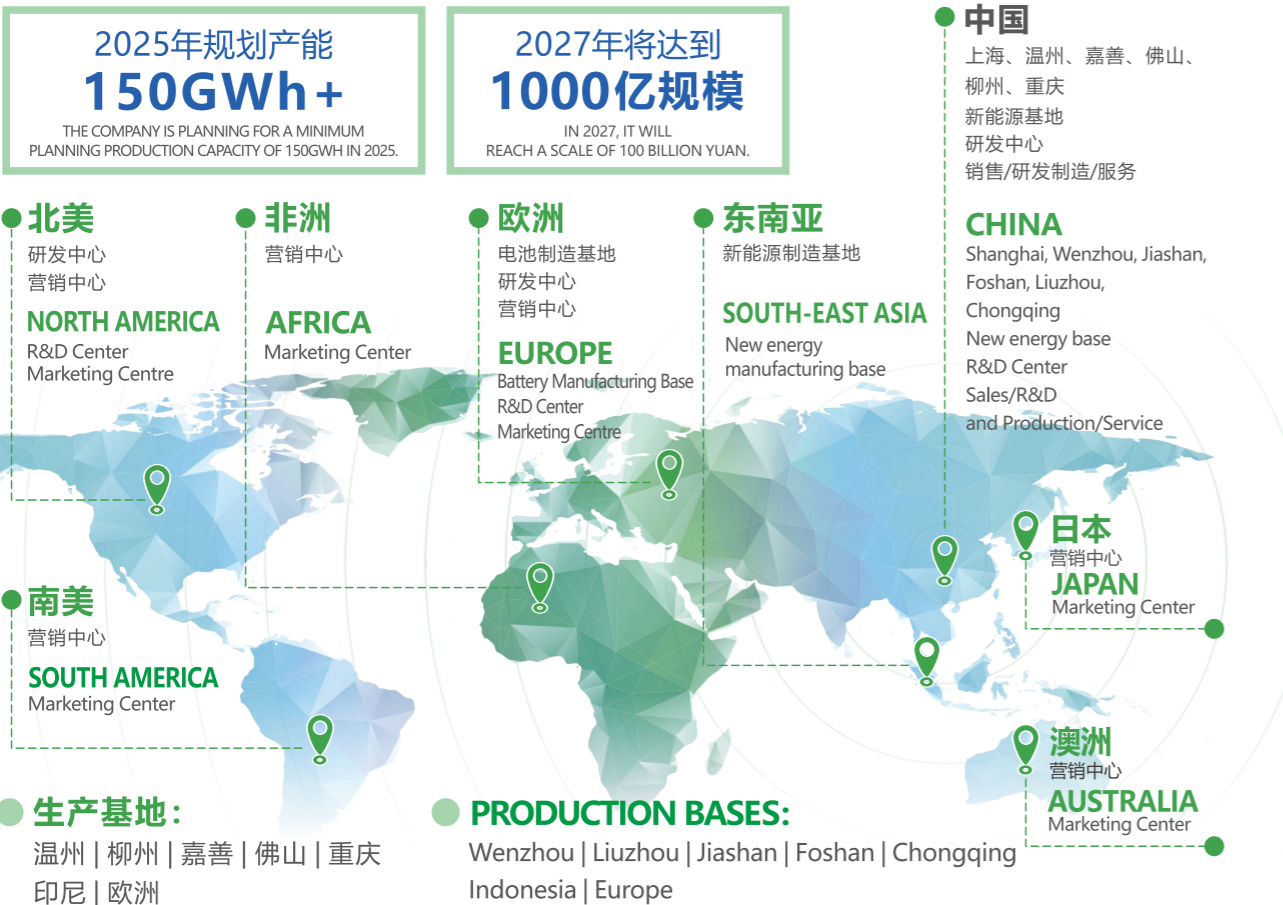
美国德克萨斯州光伏储能项目200MWh
A solar energy storage project of 200 MWh in Texas, U.S.



德国、法国、西班牙光伏储能项目
Solar energy storage projects in Germany, France, and Spain

全球产业布局规划

PLANNING FOR GLOBAL INDUSTRIAL LAYOUT



▲温州制造基地



▲嘉善制造基地



▲重庆制造基地



▲柳州制造基地

推动可持续发展

PROMOTING A SUSTAINABLE DEVELOPMENT

REPT
瑞浦兰钧

高ESG标准

HIGH-LEVEL STANDARDS FOR ESG

碳足迹管理 Carbon footprint management	能源利用 Energy utilization	企业社会责任体系 Corporate Social Responsibility System
废物排放及利用 Discharge and utilization of waste	电池回收 Battery recycling	员工生产安全健康 Occupational Health and Safety for employees

ESG建设成果

ESG ACHIEVEMENTS

- 获批2022年国家绿色工厂**
Approved as 2022 National Green Factory
- 入选2021年浙江省绿色低碳工厂名单**
The Company was selected for the list of green and low-carbon factories in Zhejiang Province in 2021.
- 通过浙江省2021年“无废工厂”评估**
The Company passed the 2021 "No Waste Factory" Assessment in Zhejiang Province.
- 获得ISO45001:2018-职业健康安全管理体系的认证**
The Company was accredited for ISO45001:2018- Occupational Health and Safety Management System Certification.
- 获得国际业务可持续性评分平台EcoVadis企业社会责任铜牌勋章**
The Company received the Bronze Medal in Corporate Social Responsibility from EcoVadis, an international business sustainability rating platform.

