

Company Profile

Repower Technology Co., Ltd.



PART 1
Company Profile



PART 4
Service Support System



PART 2
Business Scope



PART 5
Project References



PART 3
Technical Strength

Company Overview



22 years

Industry
Experience



No.1

Primary Drafting
Organization of
Industry Standards



No.1

Mature Application
of Series Formation
Technology

- Founded in 2003, RePower is a leading enterprise in the battery testing and intelligent manufacturing industry.
- 1,000+ employees, with approximately 35% dedicated to R&D and technical roles.
- National High-Tech Enterprise and Double Software Enterprise.
- Provincial Engineering Center for Power Battery Testing Technology.
- Drafting organization for standards of battery charge and discharge testing equipment.
- Equipment supplier for certified testing institutions of automotive power batteries.
- Core supplier to leading lithium battery manufacturers, serving over 2,000 customers worldwide.

Company Scale



Repower Headquarters, R&D and Customer Service Center

Guangming District, Shenzhen

RePower 瑞能



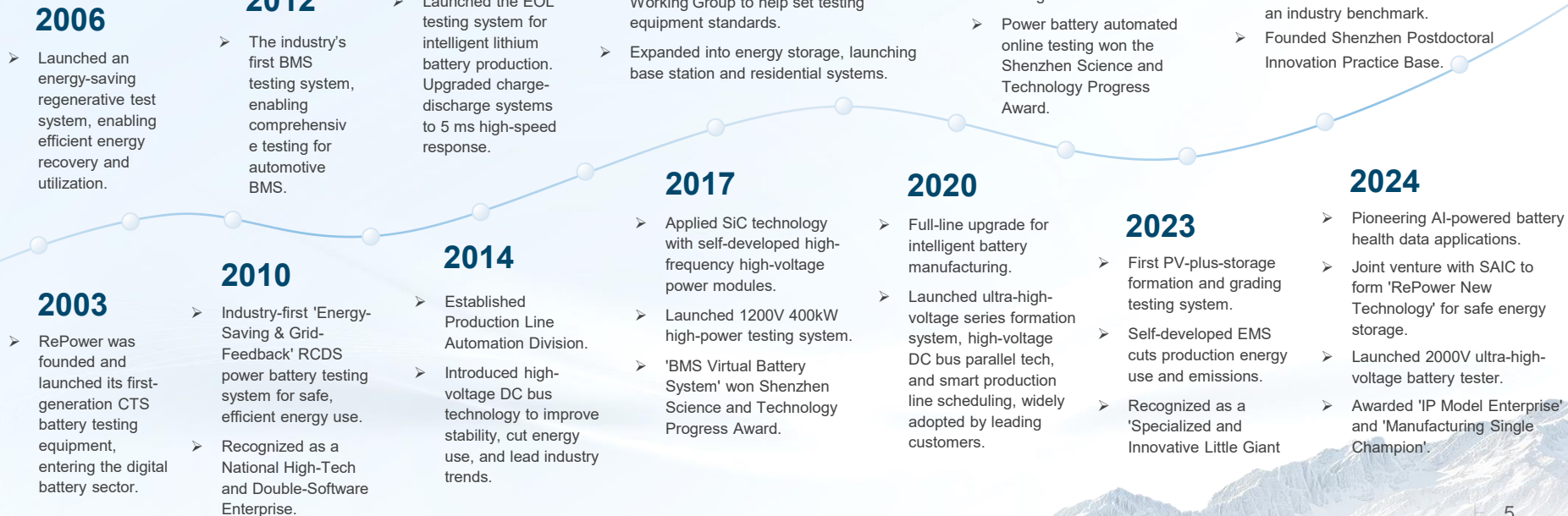
Repower Software & Cloud Computing Center – Nanshan District, Shenzhen



Repower Manufacturing Base – Dongguan, Guangdong



Repower will continue to drive technological innovation and advance exploration in the field



Vision

Become the most trusted partner
in the new energy industry

Mission

Protecting Battery
Safety

Values

Integrity, Professionalism, Service,
Responsibility, Cooperation, Growth



Headquartered in Shenzhen, RePower has service outlets across China and serves over 80 countries worldwide, with subsidiaries and service points in Japan, South Korea, Malaysia, India, Germany, Hungary, the UK, the US, Saudi Arabia, Turkey, and more.

Battery Manufacturers

- fully automated cell formation & grading system;
- Production line-level battery data analysis and large-scale AI models for battery quality.

EV ecosystem

- PACK-level battery testing and manufacturing, generating test data and quality management;
- Battery testing and battery health data management services for the after-sales system;

Battery Manufacturing

Battery recycling Secondary use

Battery recycling

- Battery health status data;
- Battery Capacity and remaining lifetime testing;
- Battery sorting & grouping

Battery Life Cycle Management

Battery Application

Energy storage systems Energy management

Energy storage systems

- Energy management and cost reduction in battery production;
- Wind/Solar/Storage/DC bus off-grid supercharging station
- Energy storage battery evaluation system

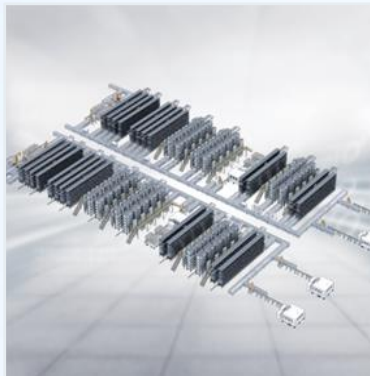
Full product line layout, Advantageous Competition



Battery testing system

Digital Battery | Power Battery | Energy Storage Battery

- $\pm 0.02\%$ accuracy
- 96% Energy feedback efficiency
- Millisecond response time



Automatic testing line design and construction

Automated testing line for battery cells and module packs

- Provide a complete solution for cell formation and grading data analysis
- Provide complete automated testing line solutions for module packs
- Online detection solution for battery health data using AI big data model



Energy storage system design and development

C&I energy storage systems

- C&I energy storage systems
- PV and energy storage supercharging station
- PV-storage integrated automated production line solution

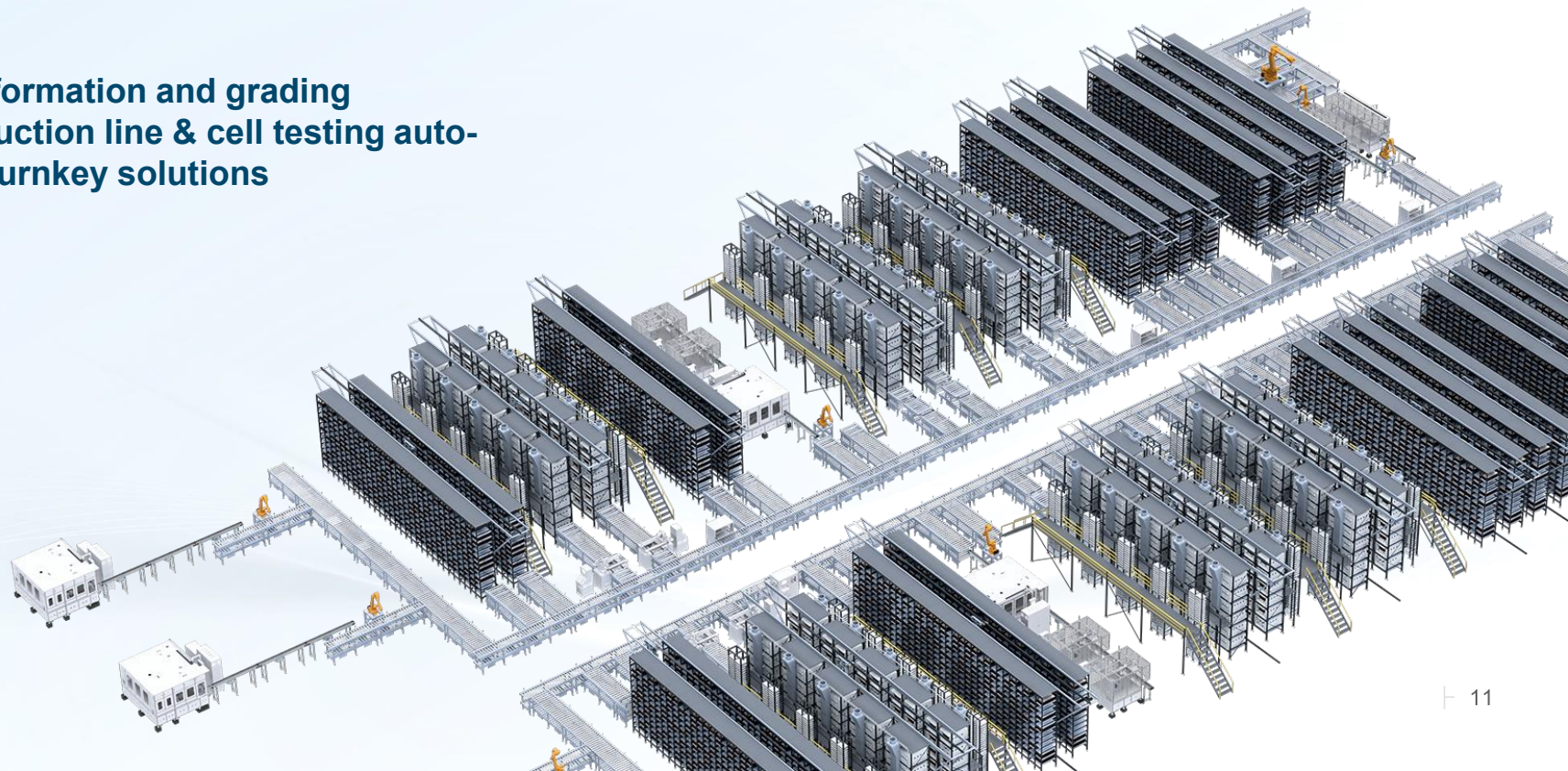


-10V~2500V cell charging & discharging testing system

EOL testing line / BMS testing line

PCBA testing line / GGC testing line

**Cell formation and grading
production line & cell testing auto-
line turnkey solutions**



**Battery packing production line &
battery module testing auto-line
turnkey solutions**



Loading、 CCD inspection / Gluing / BMS installation, etc.、 Machine screw insertion、 Install high- and low-voltage harnesses、 Install sealing strip、 Install upper case、 Install pre-tightening screws、 Robot screw fastening、 Air-tightness / EOL1 / EOL2 / DCR testing、 Unload battery pack



Off-grid Energy Storage, Charging, Testing and Ultra-fast Charging Station

Non-destructive Testing |
Energy Storage, Charging
and Measurement & Control |
High-voltage DC Bus



Solar Energy Storage Super Charging Station

PV | Energy Storage |
Charging | Testing Integration



C&I Energy Storage System

User-side Energy
Intelligent Management
and Dispatching



Distributed Off-grid Wind- solar Energy Storage Ultra- fast Charging Station

Wind | Solar | Energy Storage |
Charging Integrated Rapid Station
Construction

Battery Charge and Discharge Management System

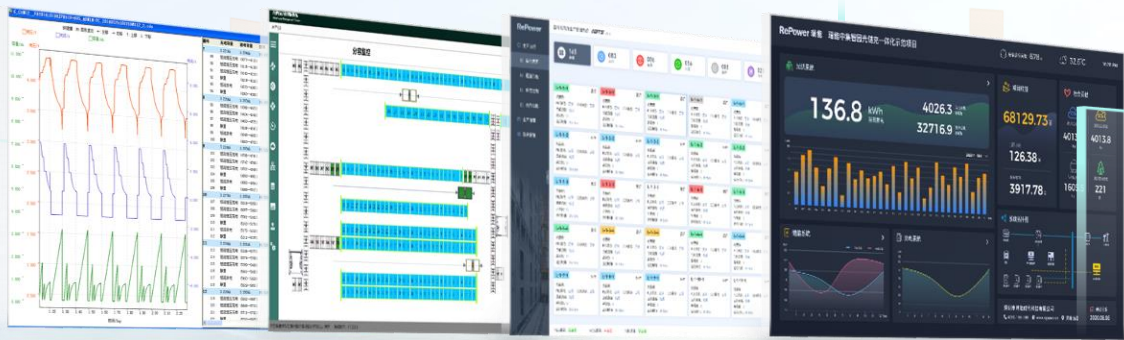
- Intelligent automated testing with high efficiency, one-click DBC import, multi-channel curve comparison, and customizable, scalable, compatible development.

Intelligent Monitoring System

- Build an unmanned factory
- ROSE dual hot backup for real-time data storage
- AI task control algorithm for intelligent scheduling
- Customized & flexible process control

EMS Power Management System

- Optimize the charge/discharge strategy to ensure the continuous and efficient operation of the system
- Efficient energy scheduling and monitoring



RePower uses data AI big model technology to optimize battery health management, covering:

SOH management, life prediction, fault early warning, monitoring key parameters and managing battery safety at different levels.



Technology is widely used in:

Automatic detection, energy storage charging stations, integrated wind-solar storage, and battery health management enable smart operation, energy saving, cost reduction, and green energy integration.

174
Invention
Patents

- National Key Specialized "Little Giant" Enterprise
- MIIT Postdoctoral Innovation Base

247
Utility Model
Patents

- Intellectual Property Demonstration Enterprise
- Manufacturing Industry Single Champion Enterprise

44
Design
Patents

- MIIT Industry Innovation Award
- Multi-time Recipient of Shenzhen Science and Technology Progress Award

80
Software
Copyrights

- Guangdong Province & Shenzhen City Famous Brand
- Excellent Supplier and Most User-recognized Brand in the Lithium Battery Industry



Product quality meets CE/UL and other international standards, suitable for global markets.

- National high-tech and double-software enterprise.
- Certified to ISO9001, ISO14001, ISO45001, and IATF 16949.
- Full member of MIIT lithium battery safety standards group.
- First drafting unit of "Lithium-Ion Battery Charge and Discharge Test Equipment Specification."
- Guangdong Lithium Battery Chemical Component Capacity Automation R&D Center.
- Automotive power battery testing organization and equipment provider.



Leading Technology

High-frequency SiC/GaN Technology:

- High energy density with significant energy savings and cost reduction;

Four-Quadrant & Multi-Dimensional Matrix Testing Technology:

- More stable output with a wider operating range;

Current Range Switching Technology:

- Accuracy up to $\pm 0.02\%$ F.S.
- 2 ms fast response time

Intelligent & User-Friendly

Modular & Customizable Design

- Supports integrated equipment linkage

Advanced Software Functions

- One-click data import
- Real-time data management
- Multi-channel curve comparison

Parallel Operation Support

- Equipment parallel connection & cross-machine parallel operation

Multi-channel CAN Communication



Safety & Reliability

Online Data Analysis with AI Large Model Learning

Battery Safety Data & Entropy Thermal Analysis

- Ensures a safe and reliable testing process
- Proven Durability
- Equipment operating lifespan of over 10 years

High Efficiency & Energy Saving

Advanced Intelligent Load-Shifting & Task Management Technology

Efficient Energy Management System (EMS)

Up to 96% Energy Recovery Efficiency — Industry Leading

PV + Energy Storage Integration + High-Voltage DC + Water-Cooled Needle Bed

Integrated PV-Storage Formation & Grading System

- Reduced grid dependency
- Lower electricity costs

High-Voltage DC Bus Technology

- Higher efficiency power distribution
- Reduced energy loss

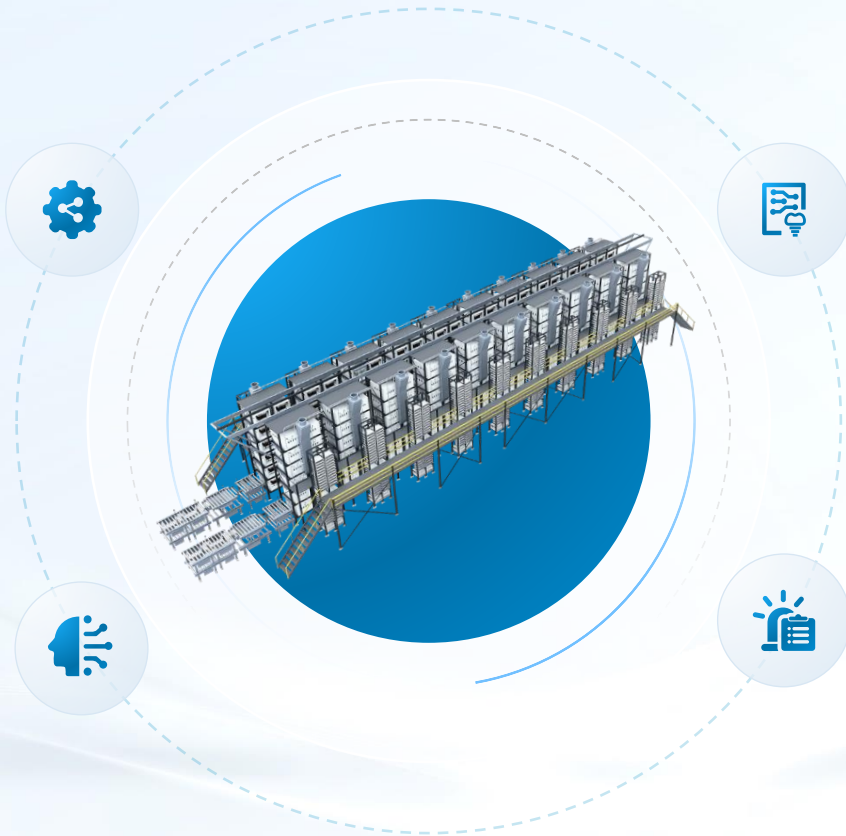
Integrated Water-Cooled Needle Bed

- Improved thermal control
- Enhanced safety and stability

Full-Process Intelligent Management

Self-Developed Digital Control Platform: EMS | MCS | WCS | WMS | CDS

- Real-time production coordination
- Intelligent scheduling & traceability
- Safe and highly efficient manufacturing



Series Formation & Grading System

Self-Developed Switching Unit

- Flexible series configuration
- Improved cell consistency

Compared to Parallel Power Systems:

- Saves up to 50% equipment space
- Reduced cabling and energy consumption
- Significantly lower equipment & electricity c

Multi-Dimensional Automatic Fire Protection System

Comprehensive Battery Safety Strategy

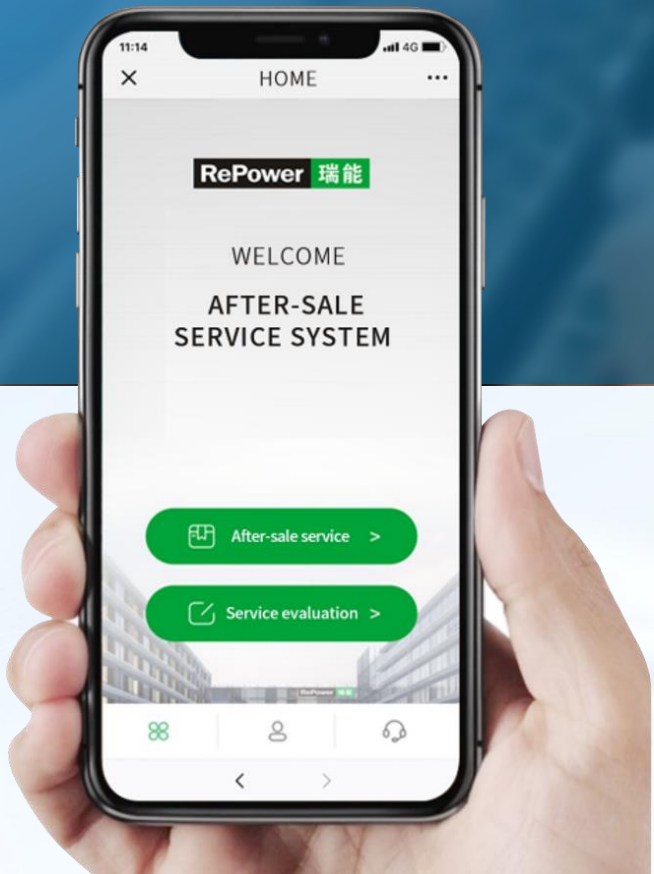
- Real-time battery condition monitoring

Multi-Level Data Security System

- Secure storage & traceability

Infrared Monitoring & Multi-Alarm System

- Instant abnormal detection & rapid response



RePower After-sales Service



Unique machine code for precise fault reporting



One-time registration



Expert engineers
Fast response



Repair status
Real-time view

Fast Response

After receiving a repair request, the system responds within 2 hours and provides a solution within 8 hours.



Periodic maintenance service

Fast Arrival

With service points nationwide, issues can be resolved on-site quickly if needed.



After the production line is completed, technicians are assigned for on-site support

Fast Problem Solving

The after-sales team consists of experienced engineers who can quickly resolve issues and restore production.



Help customers ramp up production quickly



**Automotive
Companies**



**Power Battery
Manufacturers**



**Digital Battery
Manufacturers**



Laboratory



**Testing
Institutions**



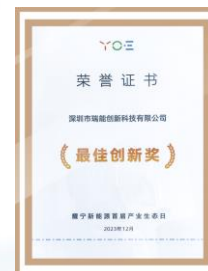
Universities

<p>New Energy Vehicles</p>	
<p>Battery / Energy Storage</p>	
<p>Research Institutions</p>	
<p>Base Stations / Power Stations</p>	

RePower has been repeatedly recognized by global clients like BYD, CALB, CATL, Geely, EVE, and Great Power with awards for excellence, delivery, and innovation.



- 2000+ Globally Renowned Clients in Long-Term Cooperation
- 3 million+ Channels of Test Equipment Running Online
- 100+ Battery Production Lines Successfully Delivered
- 100 + PV-Charging and Energy Storage Projects Delivered





Farasis
HRCDS-5V Application Sites



**A Leading Battery Company
HRCDS-5V Application Sites**





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A Leading Battery Company
RCDS-100V Application Sites



A Leading Battery Company
RCDS-1000V PACK TESTING





A First-Tier Battery Company
RCDS-1500V PACK TESTING



A Leading Battery Company
**PV-Storage Integrated Formation
and Grading System Application**



**Digital Battery Testing System
Application Site**





A Leading Battery Enterprise, Shaoxing Base
**Blade Battery Series Formation
Automated Production Line**



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RPT
**Prismatic Battery Formation and
Grading Automated Production Line**





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CETC
Prismatic Battery Formation and
Grading Automated Production Line



**GAC Aion
Solid-State Battery Pilot Line**



FAW Hongqi
PACK Automated Testing Line







Global New Energy
Development Partner

REPOWERTECHNOLOGYCO.,LTD.

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