

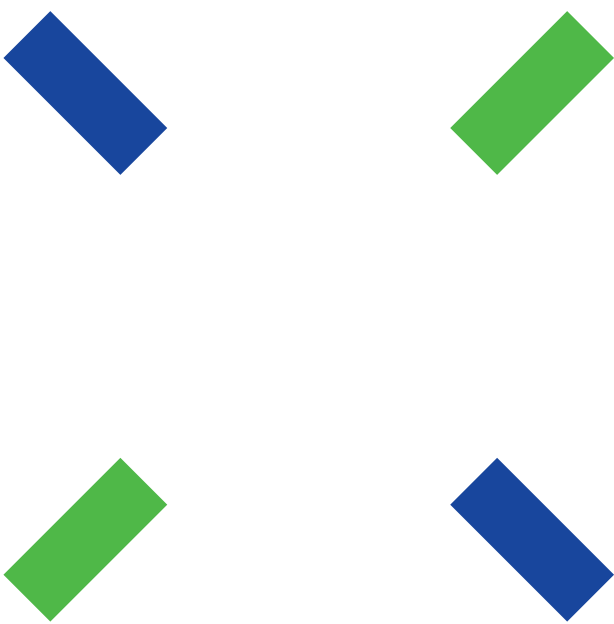
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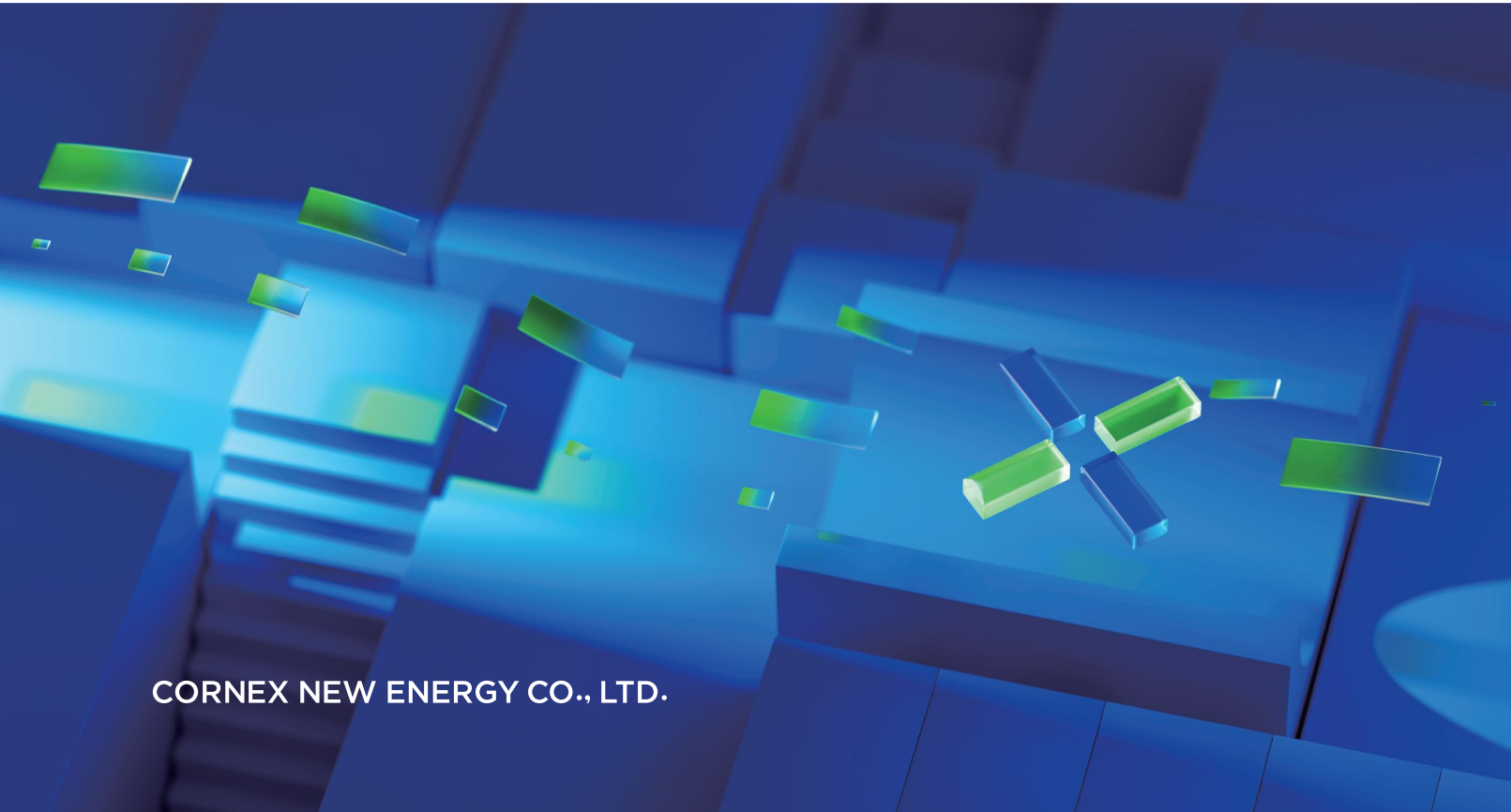


CORNEX PRODUCT SOLUTIONS

CORE ENERGY · LEADING THE FUTURE · INFINITE POSSIBILITIES



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CORNEX NEW ENERGY CO., LTD.



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COMPANY PROFILE

As a new energy innovative high-tech enterprise, CORNEX NEW ENERGY CO., LTD. (“CORNEX”) focuses on the R&D, manufacturing, sales and services of energy storage batteries, EV batteries and Energy Storage System, and is committed to providing the world-class solutions, products and services for new energy applications worldwide.

CORNEX promotes the innovation of materials, structures, manufacturing technologies and business modes in commercial application fields such as electrochemical energy storage, electric vehicles and commercial vehicles. CORNEX is achieving the strategic goal of **“a generation in production, a generation at launch, a generation in research”**, establishing the advantages of industry leadership, large scale and high efficiency, and the capability of covering the whole industrial chain. We strive to contribute to the rapid development of the global new energy industry by providing users with full-scene and multi-dimensional lithium-ion battery products, energy storage system and other solutions.

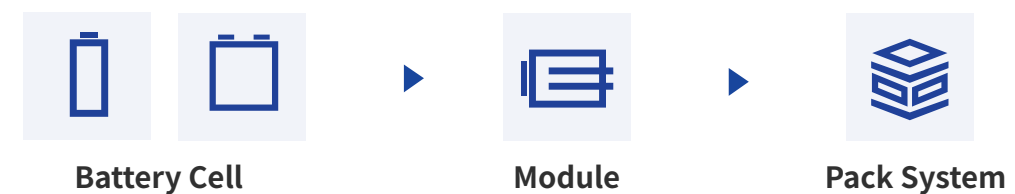
Adopting an operation philosophy of **“Technological Innovation and Green Energy”**, CORNEX targets at intelligent manufacturing fields, and explores the upstream or downstream industry chains of the lithium-ion battery industry. Our businesses are oriented to global ESS and EV battery markets, to boost the achievement of China’s “carbon peaking and neutrality” goals and the transition to the green and low-carbon development.

PRODUCT LAYOUT

Achieve full-product coverage from battery cells to Pack systems

Guided by the principle of “customer-oriented and exceeding expectations”, CORNEX has developed a full-spectrum product portfolio spanning EV battery cells, modules, Pack systems, as well as energy storage cells, modules, Pack systems, and containerized solutions. This comprehensive approach aims to meet all customer demands while continuously upgrading and developing superior products through ongoing R&D efforts.

EV Products Powering green mobility with advanced battery systems and integrated services



ESS Products Delivering energy storage solutions and services for green energy



DEVELOPMENT PLANNING

Four bases together leading the rapid development of CORNEX



01

Wuhan CORNEX
commenced
operation on
November 8th, 2022



02

Xiaogan CORNEX
commenced
operation on
June 28th, 2023



03

Yichang CORNEX
commenced
operation on
August 28th, 2023



04

Xiangyang CORNEX
Breaks Ground on
October 28, 2025

R&D STRENGTH



Established Hubei Province Intellectual
Property Protection Workstation



CORNEX Innovation Research Institute



CORNEX Expert Committee

Filed a total of
5000
lithium-related patents

R&D Team personnel
>2250

The proportion of
master's and doctoral
degree holders exceeds
50%

Invention
Patents **30%**

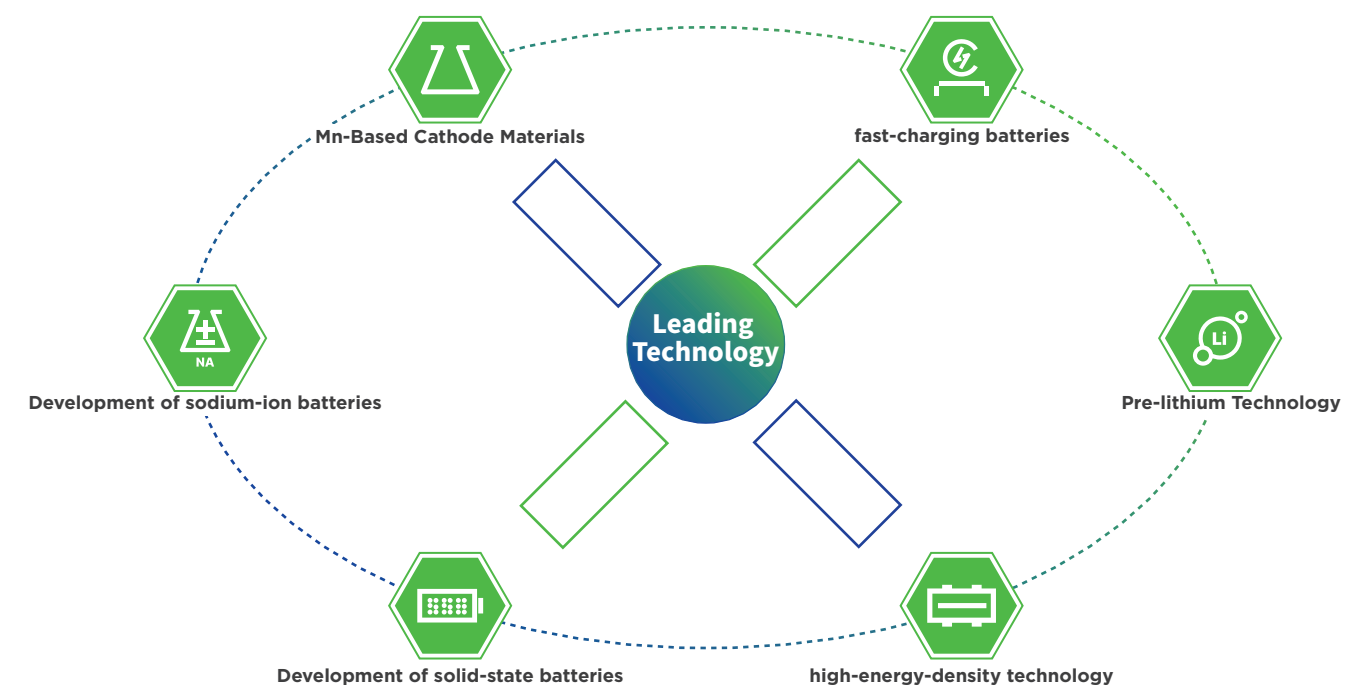
Utility Model
Patents **65%**

5%
Design Patents

* Data updated in: Oct. 2025

Diversified Technical Routes

Backed by CORNEX Innovation Research Institute, CORNEX adheres to the diversified technical approaches, optimizes and upgrades materials and performance, and has accumulated experiences in new energy battery technologies.



INTELLIGENT MANUFACTURING

Smart Factory, Energy-efficient

CORNEX adopts cutting-edge technology, constructing its facilities in accordance with the highest industry standards for automation, digitalization, and intelligence to create an AI Smart Factory. Through the extensive application of next-generation smart manufacturing technologies such as artificial intelligence, big data, cloud services, VR/AR, and visual recognition, the company enables a production process that is self-aware, self-decision-making, self-executing, self-adjusting, and self-learning. This ultimately achieves extreme manufacturing, encompassing maximum efficiency, ultimate quality, and optimal cost.



Automation

The automation rate is above **98%**; each production line is compatible with multiple product models.



Digitalization

The entire process—from demand, project initiation, design, and R&D to planning, scheduling, production, and sales—is digitized, achieving a three-in-one integration of commerce, information, and logistics.



Intelligentization

Utilizing batch control methods centered on product consistency, the company implements intelligent manufacturing to ensure product safety and reliability.

PRE-LITHIUM TECHNOLOGY

The design cycle life of photovoltaic modules is generally 25 years, while the early energy storage batteries have a cycle life of about 10 years. This discrepancy necessitates 2-3 battery replacements during the operational cycle of a photovoltaic storage system, significantly increasing maintenance costs.

To address the capacity degradation caused by lithium-ion loss during the charging and discharging of traditional lithium batteries, CORNEX has innovatively developed a cathode pre-lithium technology. This technology, through modifications in the pre-lithium system, optimization of activation techniques, and improvements in the electrolyte, effectively compensates for the active lithium consumed during the formation of the SEI (Solid Electrolyte Interphase) film in the initial charging process. It precisely resolves technical bottlenecks such as irreversible lithium-ion loss and risk of gas generation. Additionally, by optimizing the surface coating process of the cathode material, it significantly reduces lithium-ion migration impedance and interfacial side reactions, providing a solution that offers longer battery life and greater durability for the battery cells. This innovation ensures zero degradation in the number of cycles over 5 years and extends the cycle life to 15,000 cycles, perfectly matching the 25-year operational cycle of photovoltaic systems.

Pre-lithium formula modification

New oxygen capture agents, suppressing oxygen chain reactions

Activation process optimization

Balance the production rate across all stages to ensure the quality of the electrode interface

Pre-lithium material surface coating

Fast ionic conductor covering cathode, accelerating migration rate of lithium-ions in cathode materials
migration rate of lithium-ions within the cathode material

25%↑ increase of cycle life

HIGH-TEMPERATURE DURABLE TECHNOLOGY

High-Temperature Durable Technology

Traditional lithium-ion batteries exhibit significant performance degradation in high-temperature environments, accompanied by increased risks of thermal runaway, accelerated capacity decay, and reduced cycle life, severely limiting their applicability in high-temperature scenarios. As energy storage systems extend into complex environments with drastic day-night temperature variations and extreme desert heat, enhancing the heat resistance of batteries has become a critical requirement. Achieving cycle stability at 35°C that is comparable to that at room temperature (25°C) has become a core technical indicator.

CORNEX focuses on performance stability under extreme conditions. By strengthening the thermal stability of materials, optimizing structural design, and improving the combination of solvents and additives, it effectively suppresses side reactions and capacity decay within the battery cells under high-temperature conditions. At 35°C, the battery cells still maintain excellent capacity retention, with no compromise in cycle efficiency.

Excellent thermal stability

The cycle life of cells at 35°C outperforms that at 25°C, with energy efficiency improved by 1.5%

Excellent compatibility

High compatibility with electrode materials

Wide temperature range adaptability

Balanced performance in both high and low temperatures

The application of high-temperature durable technology enables the cell to achieve the same capacity retention rate at 30°C and 35°C cycling as conventional cells at 25°C cycling

ENERGY STORAGE CELL



588Ah



High Reliability

Proven Chemistry Platform and Mature Manufacturing Processes



High Safety

Innovation in Structural Design and Manufacturing Processes



Long Cycle Life

Ultra-Long Cycle Life of Over 12,000 Cycles Enabled by Low Lithium-Loss Technology

Product Specifications	PF288-588A
Rated Capacity (Ah)	588Ah
Charge/Discharge Rate (P)	0.5P
Energy Efficiency (0.5P)	≥94.5%
Cycle Life	12000
Dimensions (W*L*H mm)	72.5*288*216.3mm
Weight (kg)	10.1kg
Testing and Certification	GB/UN38.3/UL/IEC



314Ah

Product Specifications	PF173-314A
Rated Capacity (Ah)	314Ah
Charge/Discharge Rate (P)	0.5P
Energy Efficiency (0.5P)	≥94.5%
Cycle Life	12000
Dimensions (W*L*H mm)	71.7*174.4*207.2mm
Weight (kg)	5.6kg
Testing and Certification	GB/UN38.3/UL/IEC



100Ah

Product Specifications	PF160-100A
Rated Capacity (Ah)	100Ah
Charge/Discharge Rate (P)	0.5C/1C
Energy Efficiency (0.5P)	≥94%
Cycle Life	6000
Dimensions (W*L*H mm)	50*160.6*118.5mm
Weight (kg)	2kg
Testing and Certification	GB/UN38.3/UL/IEC

ESS PACK/SYSTEM



Product Specifications	PF173-314A-P104L
Configuration	1P104S
Rated Capacity (Ah)	314Ah
Nominal Energy (kWh)	104.49kWh
Charge/Discharge Rate (P)	0.25P&0.5P
Energy Efficiency	≥94%
Cooling	Liquid Cooling
Dimensions (W*L*H mm)	790*2216*240mm
Weight (kg)	650kg
Testing and Certification	GB/UL/IEC/UN



Product Specifications	PF288-588A-P195L
Configuration	1P104S
Rated Capacity (Ah)	588Ah
Nominal Energy (kWh)	195.68kWh
Charge/Discharge Rate (P)	0.25P&0.5P
Energy Efficiency	≥94%
Cooling	Liquid Cooling
Dimensions (W*L*H mm)	1243*2230*251mm
Weight (kg)	1170kg
Testing and Certification	GB/UL/IEC/UN

20-foot 5MWh Battery Energy Storage Container

cornex M5 APEX



Product Specifications	PF173-314A-C5015L
Cell Capacity (Ah)	314Ah
Configuration	12*1P416S
Nominal Energy (kWh)	5015kWh
Rated Power (kW)	2500kW
Range of Working Voltage (V)	1040-1500V
Range of Working Temperature(°C)	-30-55°C
Thermal Management	Liquid Cooling + Liquid Warming
System Communication	RS485/CAN/Ethernet
IP Protection	IP55
Dimensions (W*L*H mm)	2438*6058*2896mm(20ft)
Weight (T)	42.5T
Testing and Certification	GB/UL/IEC/UN/NFPA

20-foot 6.26MWh Battery Energy Storage Container

cornexM6

More Safety

4-Level Safety Protection with
Optional "Submerge 2.0" Battery Safety Technology

More Cyclelife

Efficient Thermal Management System,
maintaining an operating temperature below 35°C

More Intelligence

AI-Powered Balancing Technology combined
with a Visualized Intelligent Management System

More Compatibility

Choice of Centralized or String PCS,
compatible with both 2-hour and 4-hour application scenarios

More Capacity

Flexible Layout Options in a 20ft container,
supporting side-by-side, back-to-back,
and quad-unit configurations

More Applications

Wide operating temperature range;
IP55-rated container and IP67-rated PACKs
featuring streamlined CTP 2.0 technology

6262kWh



Product Specifications	PF288-588A-C6262L
Cell Capacity (Ah)	588Ah
Configuration	8*1P416S
Nominal Energy (kWh)	6262kWh
Rated Power (kW)	1565kW
Range of Working Voltage (V)	1040-1500V
Range of Working Temperature(°C)	-30-55°C
Thermal Management	Liquid Cooling + Liquid Warming
System Communication	RS485/CAN/Ethernet
IP Protection	IP55
Dimensions (W*L*H mm)	6058*2438*2896mm(20ft)
Weight (T)	46T
Testing and Certification	GB/UL/IEC/UN/NFPA

PASSENGER VEHICLES CELLS



145Ah

Product Specifications	PF210-145A
Rated Capacity (Ah)@1/3C	145Ah
Continuous Charge Rate (C)	6C
Pulse Discharge Rate (C)	8C
Cycle Life	≥2000
Dimensions (W*L*H mm)	46*210*116.7mm
Gravimetric Energy Density (Wh/kg)	185Wh/kg
Testing and Certification	GB 38031, GB/T 31484, GB/T 31486, RoHS

Product Specifications	Rated Capacity (Ah) @1/3C	Continuous Charge Rate (C)	Pulse Discharge Rate (C)	Cycle Life	Dimensions (W*L*H mm)	Gravimetric Energy Density (Wh/kg)	Testing and Certification
PF300-173A	173Ah	3C	8C	≥2500	40.4*300*115.2mm	185Wh/kg	GB 38031 GB/T 31484 GB/T 31486 RoHS
PF300-166A	166Ah	1.8C	4C	≥2500	39.2*301*113.4mm	185Wh/kg	GB 38031 GB/T 31484 GB/T 31486 RoHS
PF300-163A	163Ah	3C	9C	≥2500	39.7*300.3*113.6mm	180Wh/kg	GB 38031 GB/T 31484 GB/T 31486 RoHS
PF300-137A	137Ah	1.8C	4C	≥2500	33.2*301*113.3mm	182Wh/kg	GB 38031 GB/T 31484 GB/T 31486 RoHS
PF300-134A	134Ah	3C	9C	≥2500	33.2*300.3*113.5mm	180Wh/kg	GB 38031 GB/T 31484 GB/T 31486 RoHS
PF148-120A	122Ah	3C	9C	≥3500	52.3*148.6*119.3mm	193Wh/kg	GB 38031 GB/T 31484 GB/T 31486 RoHS

COMMERCIAL VEHICLES CELLS



324Ah

Product Specifications	PF173-324A
Rated Capacity (Ah)	324Ah
Charge/Discharge Rate (C)	1.3SC/1C
Cycle Life	≥6000
Dimensions (W*L*H mm)	71.7*174.4*207.2mm
Weight (kg)	5.55kg
Testing and Certification	GB 38031, GB/T 31484, GB/T 31486, GB 38032



30Ah

Product Specifications	RF46-30A
Rated Capacity (Ah)	30Ah
Charge/Discharge Rate (C)	2C/2.8C
Cycle Life	≥3000
Dimensions (D*H mm)	Φ46*135mm
Weight (kg)	0.5kg
Testing and Certification	GB 43854

Product Specifications	Rated Capacity (Ah)	Charge/Discharge Rate (C)	Cycle Life	Dimensions (W*L*H/D*H mm)	Weight (kg)	Testing and Certification
PF173-230A	230Ah	0.5C/0.5C	≥6000	53.7*174.4*207.2mm	4.15kg	GB 38031, GB/T 31484, GB/T 31486, GB 38032, UN38.3, BIS(IS 16893-2-2018; IS 16893-3-2018)
PF200-268A	268Ah	2.5SC/1C	≥6000	47.8*201*218.9mm	4.59kg	GB 38031 GB/T 31484 GB/T 31486
PF173-320A (For Marine Use)	320Ah	0.5C/0.5C	≥8000	71.7*174.4*207.2mm	5.55kg	CCS, UN38.3, UL, IEC, GB 38031, GB 38032, GB/T 31484, GB/T 31486
PF200-324A	324Ah	1.3SC/1C	≥6000	57.3*201*218.9mm	5.52kg	GB 38031 GB/T 31484 GB/T 31486
RF39-21A	21Ah	0.5C/1C	≥2000	Φ40*140mm	0.38kg	GB 43854
RF46-30A	30Ah	1C/1.5C	≥2500	Φ46*142mm	0.53kg	GB 43854
RF60-45A	45Ah	2C/2C	≥3000	Φ60*124mm	0.76kg	GB 43854
RF60-50A	50Ah	1C/1C	≥3000	Φ60*145mm	0.9kg	GB 43854

AFTER-SALES SERVICE SOLUTION

Service System

Discover the right solutions & drive value for customers

- Customer oriented
- Fast Response
- Attentive service

Service Network

Country/Area

17

After-sales Team

55

Skilled Technician

500+

Field Office

5+



Service Capacity



Proven Expertise

Professional Personnel & Project Experience



Fast Response

hotline service

7*24 hours

provide solutions to common problems within

48 hours

provide service response within

2 hours

*During working hours

provide solutions to complex problems within

72 hours



Flexible Warranty

10 years or more based on performance estimates

ESG Strategy-Battery Recycling

5 Bases

China Singapore U.S.A France Britain

OUR PATH FORWARD

Battery Recycling Capacity

100,000 tons/year

Battery Recovery Rate of Ni & Co & Mn

Up to 95%

Battery Recovery Rate of Li

Up to 85%

Logistic & Warehouse

Total Space

over 1,5000 m²

Team Member

50+

Range

provide spare parts up to 10 years

3PL Cooperation

20+

Warehouse and Distribution Center

