



Let Green Energy Benefit All HiTHIUM

What we do

HiTHIUM offers top-quality energy storage products and solutions for ecology, productivity, and daily life. We solely focus on stationary energy storage and manufacture just the BESS from the cell to the battery system.



Ecology



Productivity



Life

Let green energy benefit all, equally.

Every day, our energy storage products and solutions are powering the world.

We are accelerating the transition to clean energy and leveraging our expertise to ensure access to affordable, reliable, sustainable and modern energy for all, while making the journey toward net-zero society. Together.

◆ A team with values of freedom, innovation, share and love



What we achieved



No.2 in China

in 2023 utility-scale BESS shipments¹



Global Top 5

in 2023 BESS shipments²



BNEF Tier 1

Energy Storage Manufacturer



Top 5 bankable

battery manufacturers³



30+ GWh

total shipment⁴



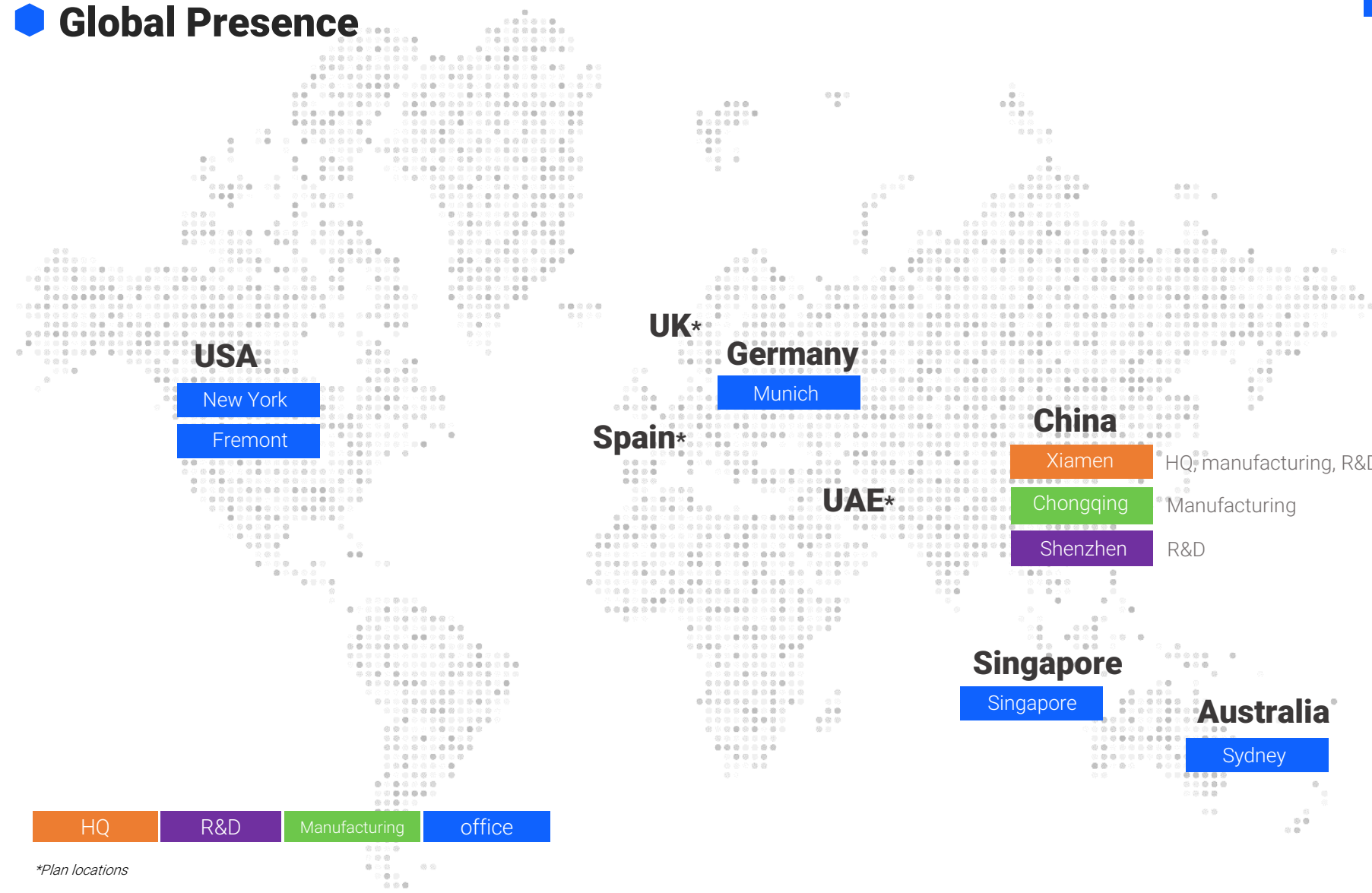
¹ Resource: ESSA's report about BESS shipments for utility-scale projects in China

² Resource: China Energy Storage Alliance (CNESA) report about stationary energy storage manufacturers' 2023 shipments

³ Resource: BNEF Energy Storage System Cost Survey 2023, HiTHIUM ranks TOP 5 bankable battery manufacturers from China

⁴ Up to date

Global Presence



Warranty and after-sales capability

Localized Support

- Local technicians and engineers
 - USA & Canada: 170+
 - Europe: 80+
 - Asia Pacific: 60+
- Accompanied with warehouses and end-of-life battery recycling services in each region

Timely Support

- Response time → 0.5~48 hours
- Issue resolving → 3~7 days
- Arrival time → 24~72 hours

Expert Support

- Training technical professionals with state-of-the-art training facilities where we prepare our technicians for the field



High level of warranty against performance degradation and risk of defect, with coverage for up to **15 years**.

Relentless innovators

Research and development have an extremely high priority at HiTHIUM, because they are the basis for the competitiveness of our products. For this reason, we invest heavily in research and development. HiTHIUM has a fast growing R&D team with more than 1200 engineers work in four company-owned research institutes

- Battery Research Institute
- Institute of Advanced Technology
- Shenzhen Research Institute
- Engineering Center

3400+

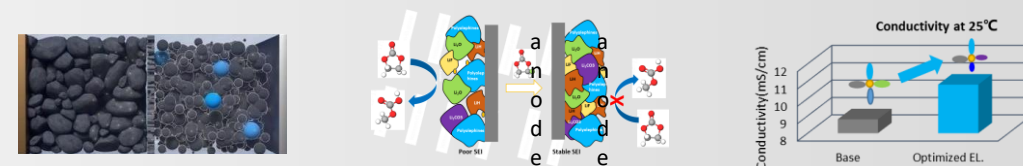
Intellectual property filed

Innovations creating value

Energy Efficiency

Maximum lifetime

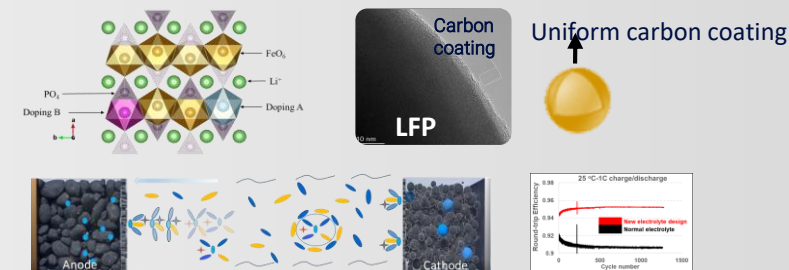
- Active and sustained lithium ions release technology
- Stable SEI and high kinetic solvation



Lifetime

Maximum Energy Efficiency

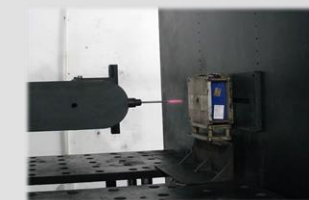
- Multi-element doping design
- Uniform carbon coating
- Low viscosity & High conductivity electrolyte



Safety

Maximum safety

- Multi-dimensional safety design from materials, to cell and system
- No fire. No explosion.



 Product Overview

Cell

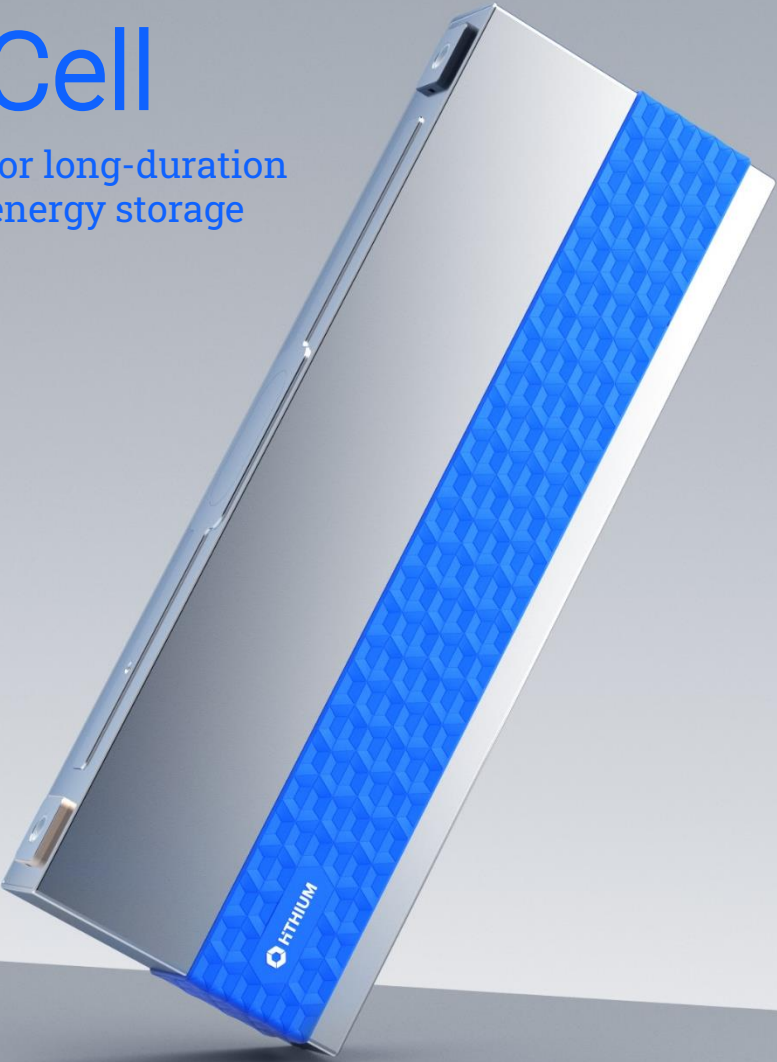


Prismatic cell	314Ah	280Ah	280Ah 1P
Operating voltage	2.5-3.65V (T > 0℃)2.0-3.65V (T ≤ 0℃)		
Charge & discharge rate	0.5P	0.5P	1P
Energy density	≥ 175Wh/kg	≥ 160Wh/kg	≥ 160Wh/kg
Operating temperature	-30℃ ~60℃		
Dimension (L x W x H)	174.70*71.70*207.11mm	174.70*71.65*207.11mm	174.70*71.65*207.11mm
Cycle life (25℃ , 100%DOD , 0.5P , @70%SOH)	11000cls(0.5P)	10000cls(0.5P)	7000cls(1P)

*The above are for reference only, the specifications sheets shall prevail

 Product Overview

Cell
for long-duration
energy storage



Prismatic cell	MIC 1130Ah
Operating voltage	2.5-3.65V (T > 0℃) 2.0-3.65V (T ≤ 0℃)
Charge & discharge rate	0.25P
Energy density	≥ 180Wh/kg
Operating temperature	-30℃ ~60℃
Dimension (L x W x H)	580.44 *75.22*208.31mm
Cycle life (25℃ , 100%DOD , 0.25P , @60%SOH)	15000cls

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 Product Overview

Modules



Battery Module	43kWh Battery Module	104kWh Battery Module	104kWh Battery Module
Series-parallel mode	1P48S	2P52S	1P104S
Charge & discharge rate	0.5P/0.5P		
Rated voltage	153.6V	166.4V	332.8V
Rated energy	43.008kWh	104.5 kWh	104.5 kWh
IP degree	IP67		
Dimension (L*W*H)	820*1092*245 mm	800*2184*243 mm	780*2188*249 mm
Weight	310kg	680 kg	680 kg

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 Product Overview

HiTHIUM ∞ Block

Energy Storage System



Product	Cabinet 344 kWh	Container 3.44 MWh	Container 5.015 MWh
Series-parallel mode	1P384S	10P384S	6*2P416S
Charge & discharge rate	0.5P/0.5P		
Rated voltage	1228.8V	1228.8V	1331.2V
Rated energy	344kWh	3.44MWh	5.015MWh
IP degree	IP55		
Dimension (L x W x H)	1300*1300*2350mm	6058*2438*2896 mm	6058*2438*2896 mm
Weight	<3.5t	< 34t	< 42 t

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 Product Overview

Cylindrical cell & Module



Cylindrical cell	50Ah
Operating voltage	2.5-3.65V (T > 0℃) 2.0-3.65V (T ≤ 0℃)
Charge & discharge rate	1C
Energy density	≥ 150Wh/kg
Operating temperature	-30℃ ~60℃
Dimension (D*H)	φ64*151mm
Cycle life (25℃ , 100%DOD , 1C , @70%SOH)	8000cls

Module	2.56kWh	5.12kWh
Series-parallel mode	1P16S	1P32S
Charge & discharge rate	1C	
Rated voltage	51.2V	102.4V
Rated energy	2.56kWh	5.12kWh
Dimension (L*W*H)	581*152*175mm	591*308*175mm
Weight	≤20kg	≤35kg

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 Product Overview

HeroEE
Energy Solution



	HeroEE 1	HeroEE 2
Rated power	200W	1000W
Rated capacity	1kWh	2kWh
AC input (Grid)	200-240 [VAC]	200-240 [VAC]
DC input (Solar)	12-36 [VDC]	12-60 [VDC]
Cell cycle life	10,000 cls	10,000 cls
Dimension (L*W*H)	210*130*285mm	280*210*311mm
Weight	8.5kg	16kg

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 Product Overview

“Andustries”

A Full-stack Energy Storage Solution For C&I Use



Company Presentation 2024.07



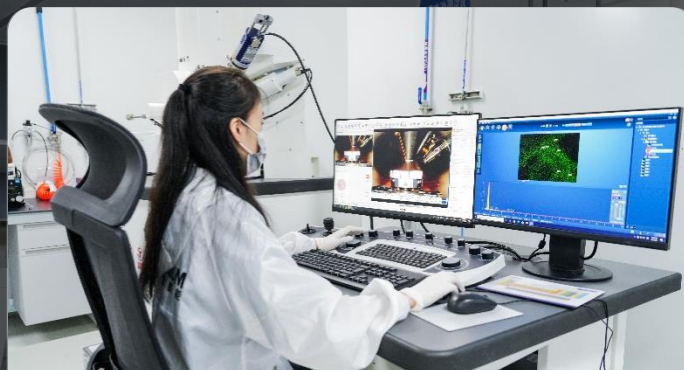
	HCL 125kW-261kWh-400-A02	HCL 215kW-417kWh-690-A01	HCL -261kWh-A01
Series-parallel mode	1P260S	1P416S	1P260S
Charge & discharge rate	0.5P		
Rated voltage	400VAC, 3W+N+PE	690VAC, 3W+PE	832V
Rated energy	261kWh	417kWh	261kWh
IP degree	IP55		
Dimension (L*W*H)	1000*1350*2350mm	1500*1350*2350mm	1000*1350*2350mm
Weight	<3t	<4t	<3t

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Quality Assurance

The HiTHIUM Test Verification Center has been certified by TÜV Rheinland and CNAS

MATERIAL VERIFICATION 100% in house



- Coin-cell testing lab
- ICP lab (Inductively Coupled Plasma)
- SEM lab (Scanning Electrode Microscopy)
- Electrolyte lab
- Anode and cathode materials R&D lab
- Advanced technology lab
- EVC lab

PERFORMANCE TEST 39000+ testing channels



- Covering R&D on energy storage pouch, prismatic, and cylindrical cell as well as module, and DC-system.
- Meet testing requirements of capacity, lithium analysis, H/L, OCV, HPPC, DCR, rate performance, long-term cycling and aging.

SAFETY AND RELIABILITY TEST from cell to battery system



- Support 24+ safety and reliability tests such as thermal runaway, nail impact and drop test.

BESS on power generation

HiTHIUM's BESS products enable the power generation to restore a stable power grid, optimize the power output, reduce solar and wind curtailment, increase the proportion of renewable energy in total power generation, and optimize the energy structure



Ningxia, China 100MW / 200MWh

It effectively smooths out power generation fluctuations, reduce power abandonment rates, and safeguard operation of the power system. With the annual energy generation of ca. 1.8 billion kWh, it is expected to satisfy the daily electricity needs of 1.5 million households per year.



Gansu, China
60MW / 120MWh



Inner Mongolia, China
20MW / 40MWh



Hainan, China
25MW / 50MWh

BESS on transmission

HiTHIUM's BESS products are applied in power transmission and distribution modulate frequency and peak according to power grid loads. It helps to ensure the safe, stable, efficient and low-cost operation of the power grid



Ningxia, China 200MW / 400MWh

The largest stand-alone storage power station in China. Annual energy generation of 1,33 billion kWh. The site can store up to 400,000 kWh of electricity on a single charge.



Guangdong, China
70MW / 140MWh



Shandong, China
100MW / 200MWh



Chongqing, China
100MW/ 200MWh

BESS on consumption

HiTHIUM's BESS products have been applied in large-scale industrial and commercial, UPS/base stations, charging stations, etc. helping to reduce electricity costs, ensure a stable power supply, and benefit social and economic



Guangdong, China 7.5MW / 21.5MWh

A benchmark project of the large-scale C&I application. The plant stores power during low hours, supplying it during peak hours. It saves the C&I customer on electricity costs and serves as a backup power source



Henan, China
5MW / 14.9MWh



Henan, China
4.8MW / 18.08MWh



Zhejiang, China
10MW / 20MWh

BESS on consumption

HiTHIUM's BESS products have also been applied in Solar + ESS + Charging Station and new rural construction. Those projects further proved ESS is the cornerstone of successful energy transition



Chongqing, China 400kW solar, 2*860kWh ESS, 12*160kW charging station

The storage devices are charged once a day at 'valley' and 'flat' times and then discharged at top and peak times, achieving peak shaving. The plant eases the impact on the grid of high power demand by prioritizing the consumption of solar energy.

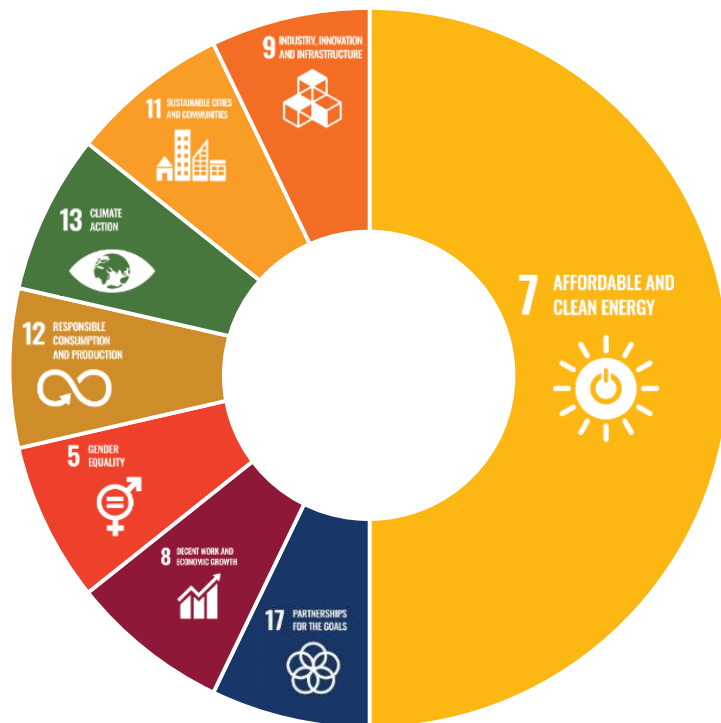


Shandong, China
224kW solar
860kWh ESS
5*120kW charging station

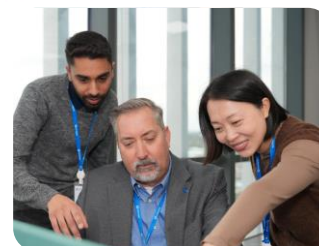


Chongqing, China
4.8MW / 18.08MWh

Global ESG commitment



We align our strategies and operations to have a powerful combination of our technology, our people, and our purpose. We aim to help communities around the globe



With the company culture of “Freedom, innovation, sharing, love”, we commit to creating a workplace that enhances employee well-being and satisfaction



Carbon
Neutral
PAS 2060



Our approach to meeting ESG goals and achieving sustainable manufacturing is rooted in our company culture. We see reducing our own carbon emissions as a core commitment

Together we're powering
the future

