HiTHIUM

Let Green Energy Benefit All

HiTHIUM

Company Presentation 2025.04

What we do

Founded in 2019, HiTHIUM is a leading global company in new energy technology, committed to delivering all-round energy storage solutions centered on advanced energy storage battery and system technologies. HiTHIUM has cultivated robust research, production, sales, and service capabilities in global markets.

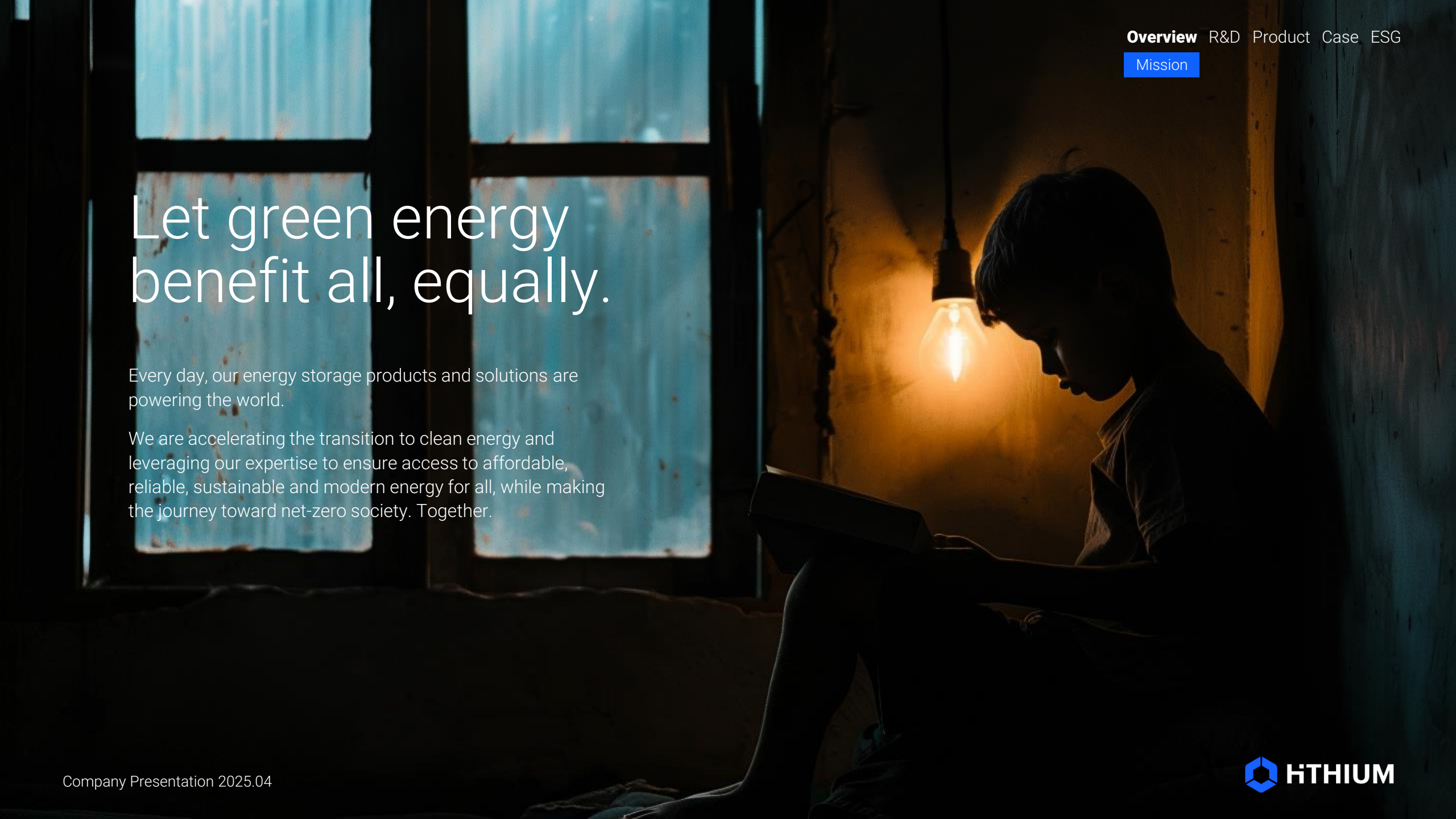
As the only pure-play energy storage company to achieve GWh-scale global shipments of lithium-ion ESS batteries, HiTHIUM's customer-centric focus drives technological and innovative products and solutions for customers across more than 20 countries and regions.

Ecology

Productivity

Life

HiTHIUM



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.

HITHIUM

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

Americas

Europe

Asia

20+
countries
covered

Africa

Oceania

HTHIUM

What we achieved

BNEF Tier 1

Energy Storage Manufacturer[2]

Top 3

in 2024 Energy Storage Batteries Shipment[1]

Top 5 Bankable

Battery Manufacturers[3]

1 Resource: China Energy Storage Alliance (CNESA) report about stationary energy storage manufacturers' 2024 shipments

2.Resource: BNEF Energy Storage Tier 1 List 1Q 2025

3 Resource: BNEF Energy Storage System Cost Survey 2024, HiTHIUM ranks TOP 5 bankable battery manufacturers from China

HITHIUM

Global Presence

USA
- New York
- Fremont
- Dallas

UK

Germany
- Munich

Spain*

UAE*

China
- Xiamen — HQ/Manufacturing/R&D/Recycling
- Chongqing — Manufacturing
- Heze (under construction) — Manufacturing/New energy development
- Shenzhen — R&D

Japan

Singapore
- Singapore

Australia
- Sydney

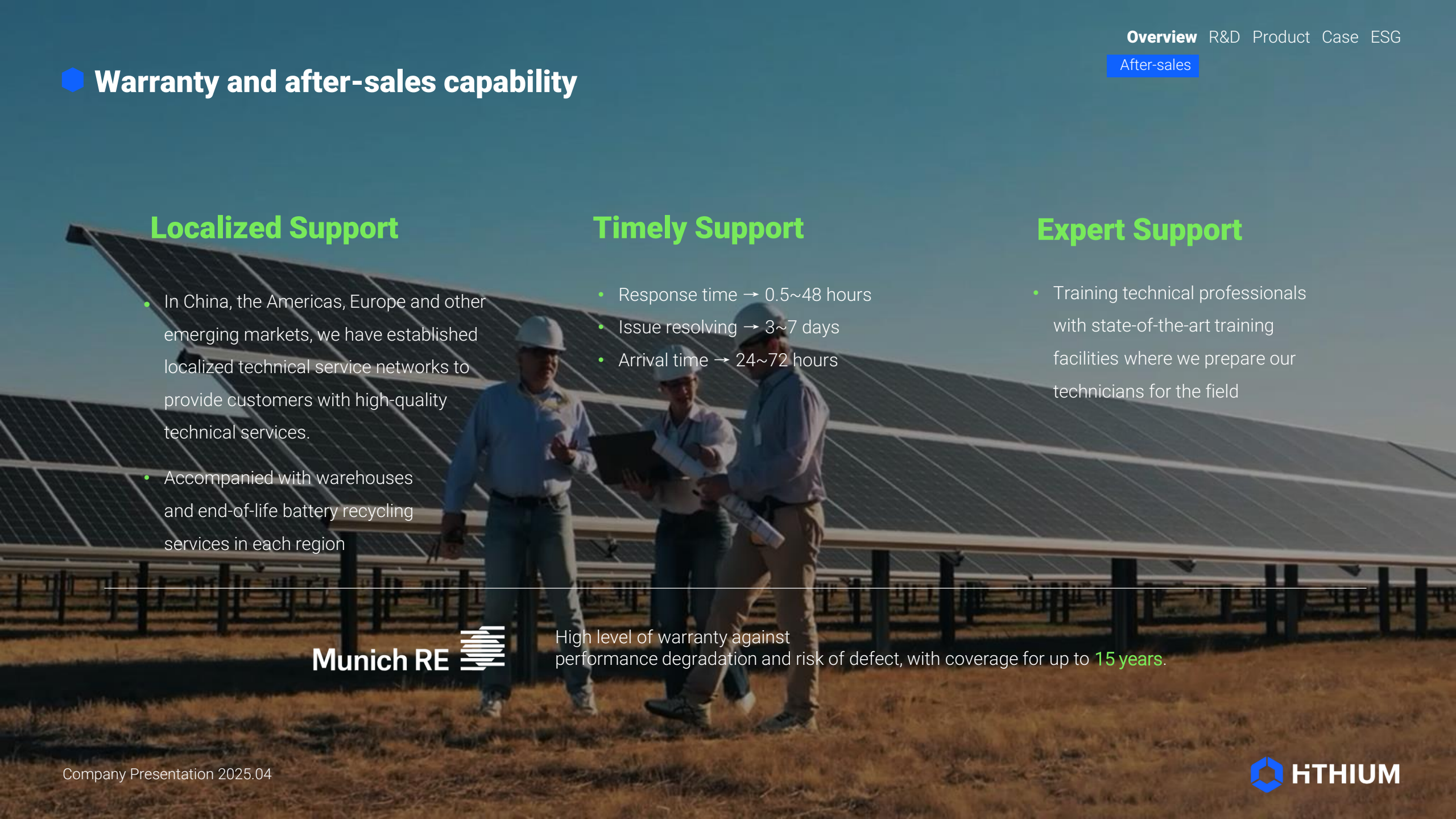
Chile*

HQ | R&D | Manufacturing | office

**Plan locations*

HTHIUM

Warranty and after-sales capability



Localized Support

- In China, the Americas, Europe and other emerging markets, we have established localized technical service networks to provide customers with high-quality technical services.
- 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

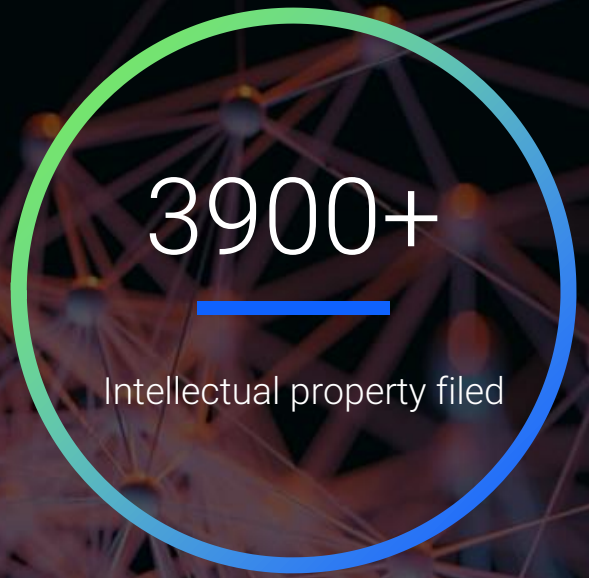
Munich RE

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

Relentless innovators

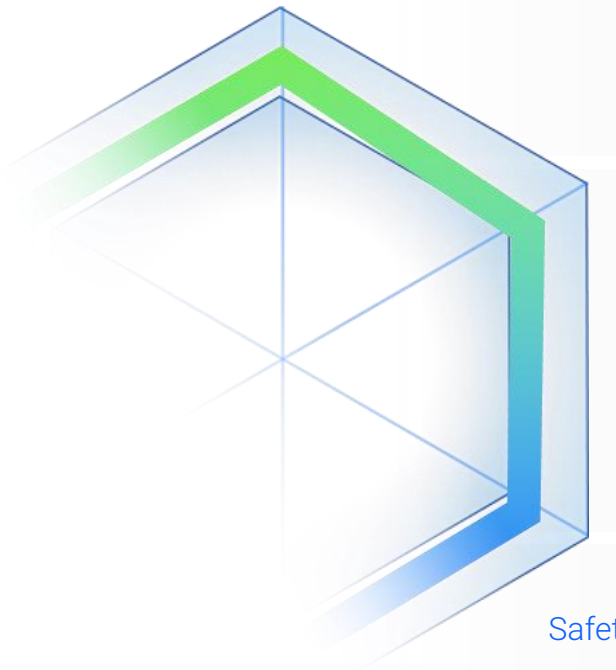
Research and development have an extremely high priority at HiTHIUM, because they are the basis for the competitiveness of our products. For this reason, we invest heavily in research and development. HiTHIUM has a fast growing R&D team with more than 1100 engineers work in four company-owned research institutes

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



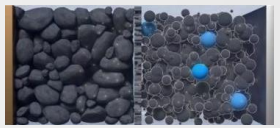
HiTHIUM

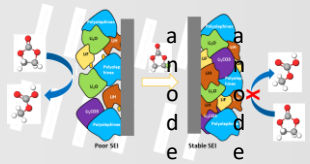
Innovations creating value

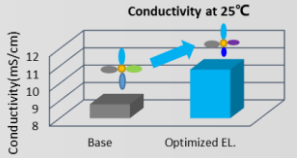


Maximum lifetime

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

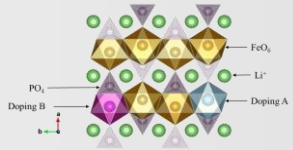


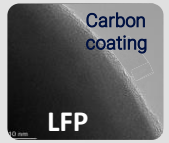


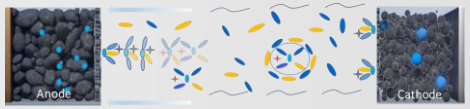


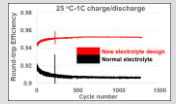
Maximum Energy Efficiency

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



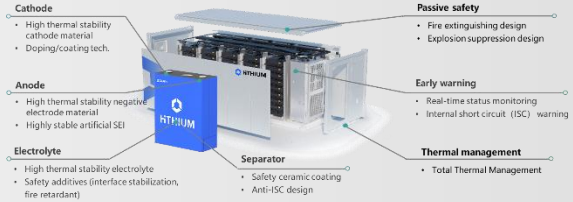






Maximum safety

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



HTHIUM

Product Overview

Cell

Prismatic cell	314Ah	280Ah 1P
Operating voltage	2.5-3.65V	
Charge & discharge rate	0.5P/0.5P	1P/1P
Energy density	≥ 173.2Wh/kg	≥ 159.2Wh/kg
Operating temperature	-30℃ ~60℃	
Dimension (L x W x H)	174.7*71.7*207.1mm	174.7*71.6*207.1mm
Cycle life	11,000cls	7,000cls

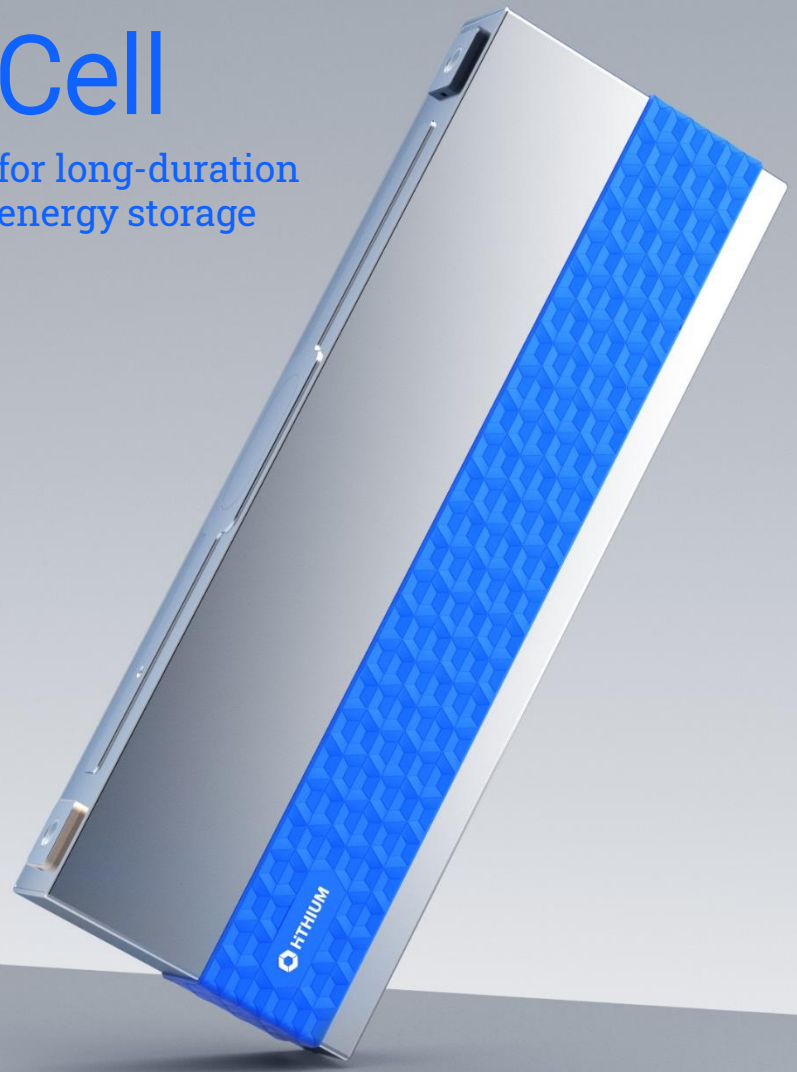
*The above are for reference only, the specifications sheets shall prevail

HTHIUM

Product Overview

Cell

for long-duration
energy storage



Prismatic cell	∞Cell 1175Ah
Operating voltage	2.5-3.65V
Charge & discharge rate	0.25P/0.25P
Energy density	≥ 180Wh/kg
Operating temperature	-30℃ ~60℃
Dimension (L x W x H)	580.2*75.2*216.3mm
Cycle life	11,000cls

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

HITHIUM

Product Overview

Cell for long-duration energy storage

Prismatic cell	∞Cell 587Ah
Operating voltage	2.5-3.65V
Charge & discharge rate	0.5P/0.5P
Energy density	≥ 185Wh/kg
Operating temperature	-30℃ ~60℃
Dimension (L x W x H)	286.0*73.5*216.3mm
Cycle life	11,000cls

*实际以规格书为准

HTHIUM

Product Overview

Sodium-ion Cell

Prismatic cell	∞Cell N162Ah
Operating voltage	1.5-3.3V
Charge & discharge rate	1P/1P
Energy density	≥ 95.2Wh/kg
Operating temperature	-40℃ ~60℃
Dimension (L x W x H)	174.7 *71.7*207.1mm
Cycle life	20,000cls

*实际以规格书为准

HTHIUM

Product Overview

Modules

Battery Module	104kWh	195kWh
Series-parallel mode	2P52S	1P52S
Charge & discharge rate	0.5P/0.5P	0.25P/0.25P
Rated voltage	166.4V	166.4V
Rated energy	104.5 kWh	195.5 kWh
IP degree	IP67	
Dimension (L*W*H)	800*2184*243 mm	1240*2240*255 mm
Weight	667 kg	1162kg

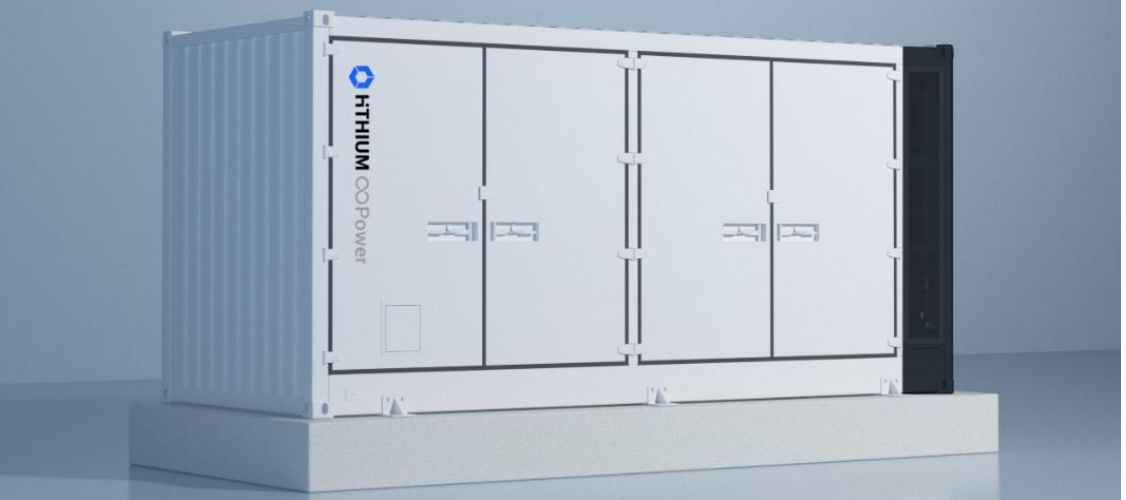
*The above are for reference only, the specifications sheets shall prevail

HITHIUM

Product Overview

HiTHIUM ∞Power

Energy Storage System



Product	5.016 MWh	∞Power 6.25 MWh 2h | 4h
Series-parallel mode	6*2P416S	8P416S | 4P416S
Charge & discharge rate	0.5P/0.5P	0.5P/0.5P | 0.25P/0.25P
Rated voltage	1331.2V	1331.2V
Rated energy	5.016MWh	6.25MWh
IP degree	IP55	
Dimension (L x W x H)	6058*2438*2896 mm	6058*2438*2896 mm
Weight	≤40 t	≤48 t

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

HITHIUM

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）	8,000cls

Module	2.56kWh	5.12kWh
Series-parallel mode	1P16S	1P32S
Charge & discharge rate	0.5C	
Rated voltage	51.2V	102.4V
Rated energy	2.56kWh	5.12kWh
Dimension (L*W*H)	578*158*180mm	591*308*175mm
Weight	≤20kg	≤35kg

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

HTHIUM

Product Overview

HeroEE Energy Solution

One PV module

One battery energy storage system

One intelligent networking platform

	HeroEE 1	HeroEE 2
Rated power	200W	1000W
Rated capacity	1004.8Wh	2009.6Wh
AC input (Grid)	200-240 [VAC]	200-240 [VAC]
DC input (Solar)	12-36 [VDC]	12-50 [VDC]
Cell cycle life	11,000 cls	11,000 cls
Dimension (L*W*H)	210*130*285 mm	360*285*430 mm
Weight	8.26kg	18.3kg

	HeroEE 8	HeroEE 16
Rated capacity	8kWh	16kWh
Rated Voltage[VDC]	25.6 [VDC]	51.2 [VDC]
Cell cycle life	11,000 cls	11,000 cls
Charge/Discharge Voltage Range	21.6-28.4 [VDC]	43.2-56.8 [VDC]
Maximum charge/ discharge current	200 A	200 A
Dimension (L*W*H)	540.6*240*501.2 mm	540.6*240*781.2 mm
Weight	66kg	110kg

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

HTHIUM

Product Overview

C&I All-in-one Energy Storage System

	HCL 125kW-261kWh-400-A02
Series-parallel mode	1P260S（314Ah cell）
Charge & discharge rate	0.5P/0.5P
Rated DC voltage	832V
Rated energy	261kWh
IP degree	IP55
Dimension (L*W*H)	1000*1350*2380mm
Weight	≤2.7t
PCS	125kWh（adjustable）

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

HTHIUM

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 Electroscope Microscopy)
- Electrolyte lab
- Anode and cathode materials R&D lab
- Advanced technology lab
- EVC lab

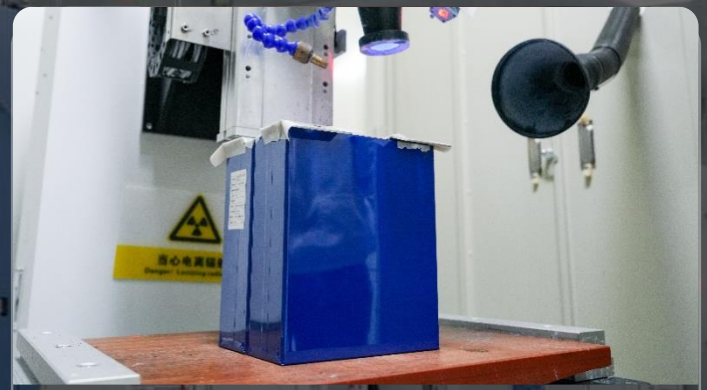
PERFORMANCE TEST

25000+ 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.

HiTHIUM

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

Bulgaria

25MW / 55MWh

HITHIUM

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

HiTHIUM

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

HITHIUM

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

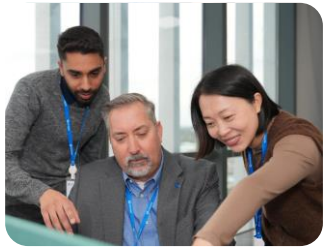
Chongqing, China

4.8MW / 18.08MWh

HiTHIUM

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

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
HTHIUM