



# RKP Company Profile

June 13th, 2025





## ABOUT US

Rongke Power (RKP) is a global leader in Vanadium flow batteries (VFBs) and a prominent provider of advanced energy storage solutions.

## OUR MISSION

Accelerating global progress towards net-zero targets with advanced Vanadium flow battery (VFB) energy storage solutions.

**1,600+**  
Employees

**450+**  
Patents

**3 GWh+**  
Global Installed  
Capacity

**+80%**  
Global VFB Electrolyte  
Market Share <sup>1</sup>

At RKP, we are dedicated to delivering customized energy solutions that meet the unique needs of each sector we serve – continuing this mission is our promise for today and the future.

Public Use

## RKPG: Vanadium Electrolyte Production Facility

01

- Location: Dalian Northern Yellow Sea Economic Zone
- Floor Space: 265,000 m<sup>2</sup>
- Employees: 500+



• *Formerly known as Bolong New Materials (BNM)*

## RKPI: VFB Digital Manufacturing Facility

02

- Location: Dalian JinPu New Economic Zone
- Floor Space: 100,000 m<sup>2</sup>
- Employees: 800+



**Headquarter Location**

# 01 Rongke Power Group

- The world's largest VFB electrolyte development and production facility <sup>1</sup>, boasting a **production capacity** of 2.5 GWh per year. (**4.5 GWh by 2025**)
- The **only accredited laboratory** dedicated to vanadium electrolyte in the industry.
- Certified with **DAKKS TÜV Rheinland DE ISO 45001:2018**, ISO 14001:2015, and ISO 9001:2015.
- Dominates the global VFB electrolyte market with over **80% market share** <sup>1</sup>.

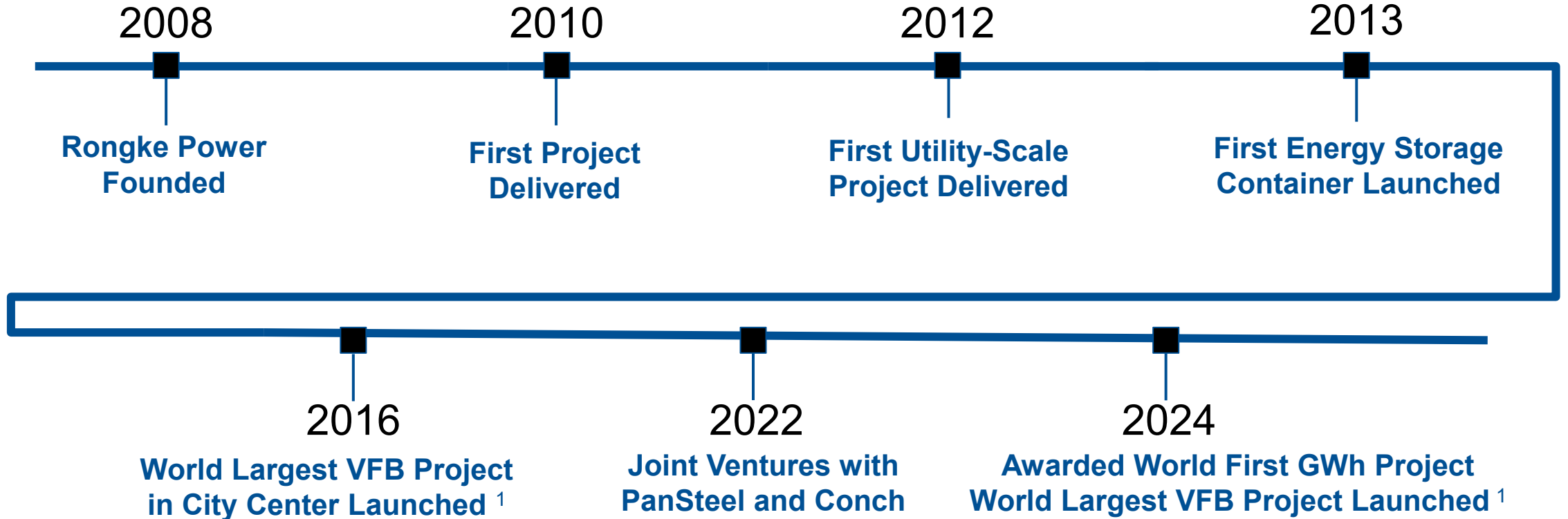


## 02

# Rongke Power Integration

- The **world's first VFB GIGAFACTORY**, featuring **fully automated** production and warehousing
- Boasts an annual **production capacity** of **1 GW**, certified with **CNAS DE ISO 45001:2018**, **ISO 14001:2015**, and **ISO 9001:2015**.
- **Standardized** quality control and inspection at industrial scale.
- Dominates **60% of the global VFB market share**<sup>1</sup>, solidifying our leadership in the industry



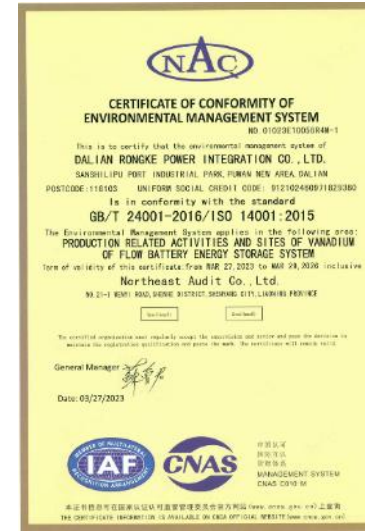
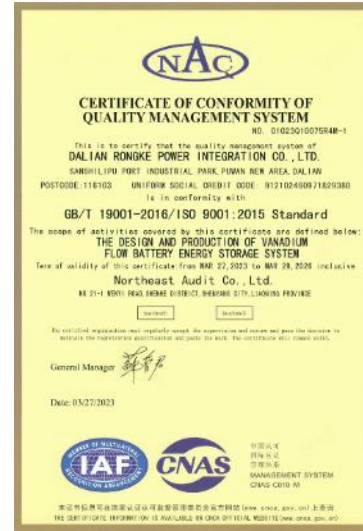


**RKP has been at the forefront of VFB technology and energy storage solutions**

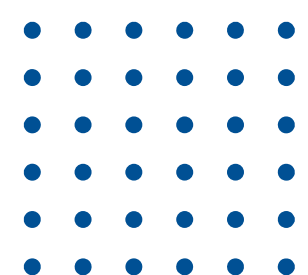


# Ensuring Quality and Compliance

RKPI Certifications →



← RKPG Certifications



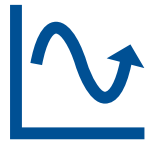
Vanadium Flow Batteries (VFB) offer unique advantages for energy storage solutions.

## Inherently Safe



Water-based electrolyte, no thermal runaway

## Long cycle life



Over 20,000 charge/discharge cycles with minimal degradation

## Allowing 100%DOD

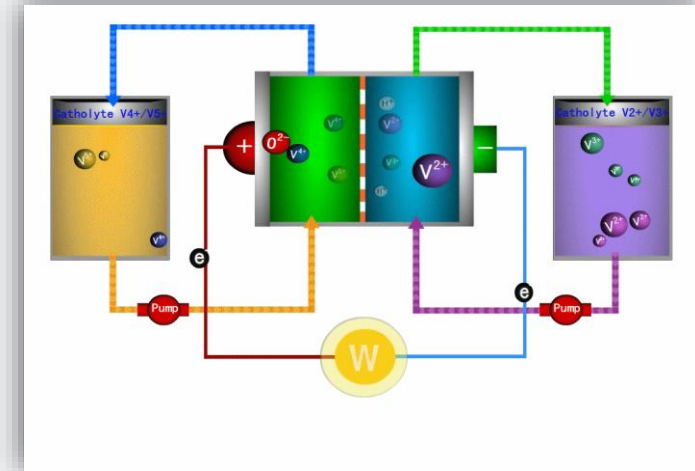


Without structural damage

## Flexibility



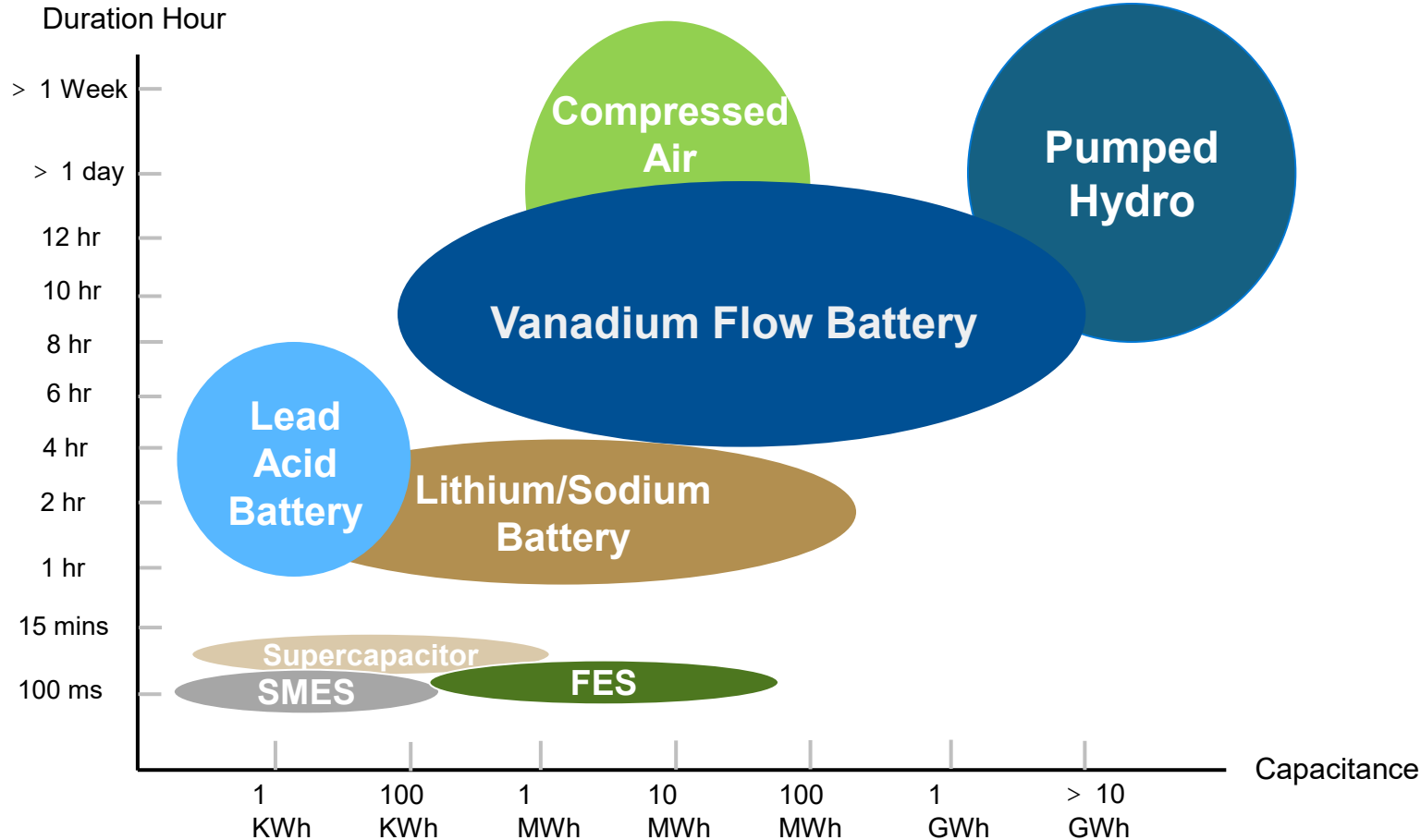
Independent power and energy scaling with KW to MW applications



## Highlights of VFB Technology

- VFBs differ fundamentally from sodium and lithium-ion batteries due to the dual-tank system.
- Vanadium electrolytes are pumped through electrode cells for smooth charging and discharging.
- This tank separation enhances safety and durability by addressing high state-of-charge challenges.

Vanadium flow batteries (VFBs) lead the way in energy storage, offering unmatched scalability and sustainability

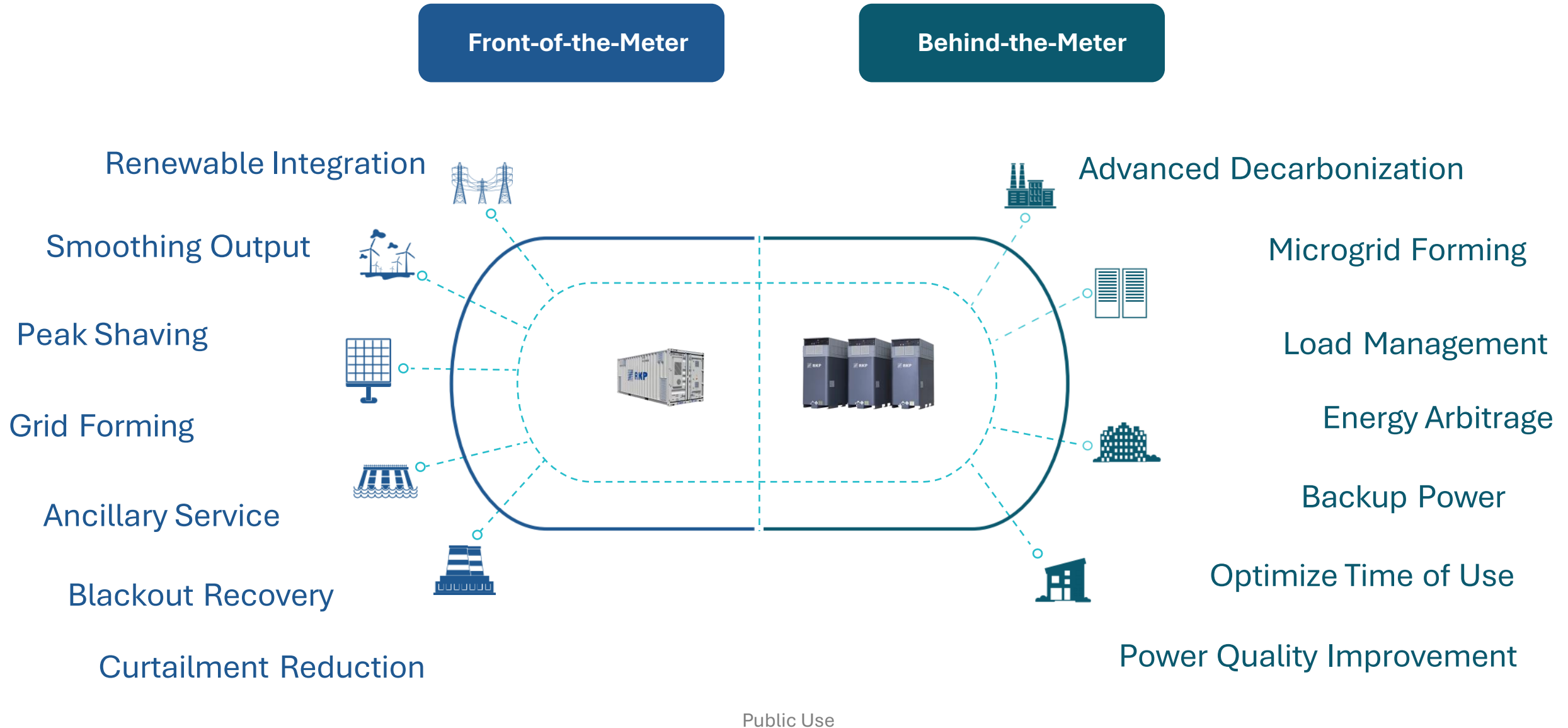


Public Use

- Scalability and Capacity**  
 VFBs offer high scalability, accommodating energy storage needs from MWh to multiple GWh, making them suitable for large-scale energy management.

- Long Duration and Reliability**  
 With the capability to provide energy storage for durations exceeding 4 hours, VFBs ensure consistent and reliable power supply for long-term applications.

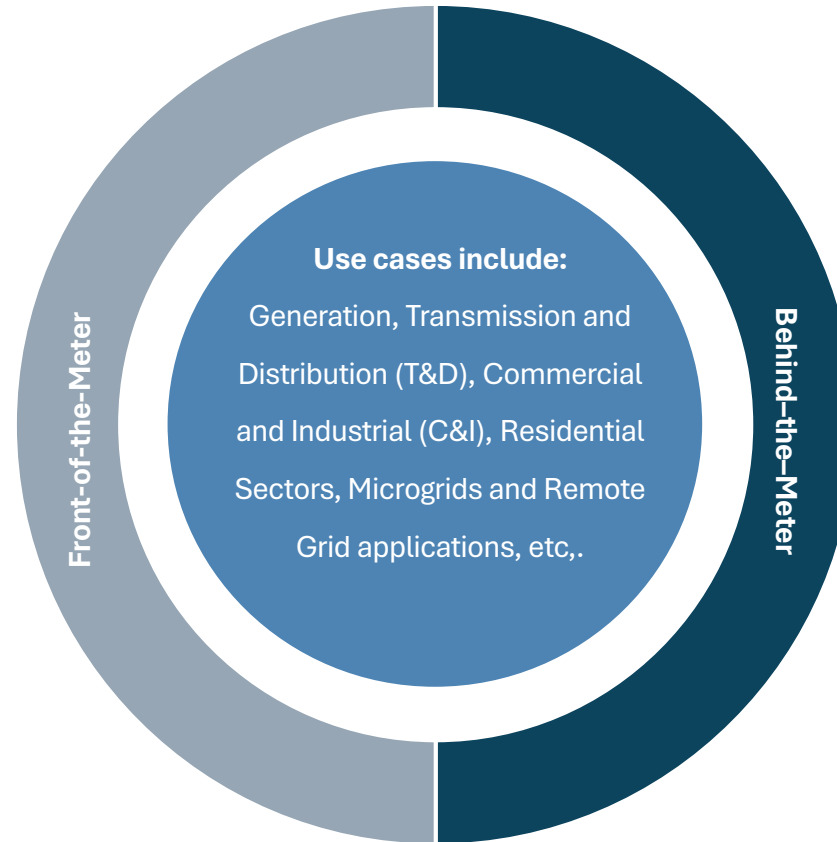
- Sustainable and Recyclable**  
 VFBs are fully recyclable and use abundant vanadium resources, positioning them as an environmentally friendly and sustainable energy storage solution.



## S Power Series (Safe, Service-friendly)



- 240kWh per Unit
- Highly Modularized
- Factory-Integrated
- Plug-and-Play Configuration
- Transportable Design
- Scalable to Gigawatt hours by Stacking Units
- IEC certified



Public Use

## U Power Series (Flexible, Plug-in)



- 10kW/40kWh per Unit
- Highly Modularized
- Factory-Integrated
- Plug-and-Play Configuration
- Transportable Design
- Scalable to Megawatt hour by Stacking Units
- IEC & UL certified



## ConCurrent Energy Storage Station

### Phase I

(100MW/400MWh, delivered in Dec 2022)

#### 01 Highlights

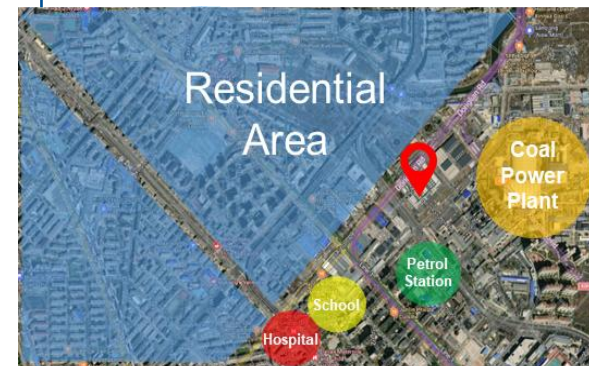
- World's Largest Energy Storage System in City Center<sup>1</sup>
- World's First Multi-floor Energy Storage Station<sup>1</sup>

#### 02 Project Info

- Location: Dalian, China (in Downtown area)
- Total ESS: 200MW/800MWh
  - Phase I: 100MW/400MWh (Indoor)
  - Phase II: 100MW/400MWh (Indoor)

#### 03 Benefits

- Grid Stability
- Peak Shaving
- Frequency Regulation
- Renewable Integration
- Black Start
- Auxiliary Power Supply
- Emergency Back Up Power



## Xinhua Ushi ESS Project

(175MW/700MWh, Delivered in Dec, 2024)

### 01 Highlights

- World's Largest VFB System<sup>1</sup>
- World's Largest Grid-forming Energy Storage Station <sup>1</sup>

### 02 Project Info

- Location: Ushi, China
- Total ESS:
  - 175MW/700MWh (Outdoor)

### 03 Benefits

- Grid Forming
- Peak Shaving
- Frequency Regulation
- Renewable Integration





## CECEP Qapqal ESS

(75MW/300MWh, delivered in June 2024)

### 01 Highlights

- World's largest VFB System for solar integration

### 02 Project Info

- Location: Qapqal, China
- Total ESS: 75MW/300MWh (Outdoor)

### 03 Benefits

- Smoothing Output
- Load Following Capability
- Minimize Curtailment
- Offers Virtual Inertia

## Woniushi Wind Farm Energy Storage Station

(5MW/10MWh, delivered in Dec 2012)



### 01 Highlights

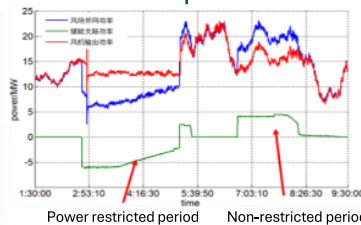
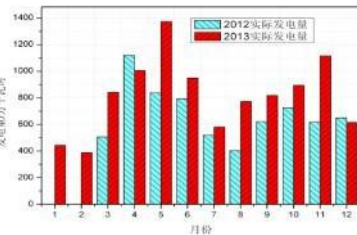
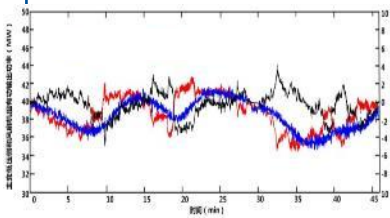
- World's Longest Running Utility Scale VFB System<sup>1</sup>
- Over a Decade of Continuous Operation
- Maintained 100% Capacity Retention

### 02 Project Info

- Location: Shenyang, China
- Total ESS: 5MW/10MWh (Indoor)
- Wind Turbine: 33\*1.5 MW

### 03 Benefits

- Smoothing Output
- Load Following Capability
- Improves Power Quality
- Minimize Curtailment
- Provides Ancillary Services
- Offers Virtual Inertia



## Conch Zongyang Energy Storage Station

(6MW/36MWh, delivered in Dec 2022)

### 01 Highlights

- World's Largest Behind the Meter VFB Energy Storage Facility<sup>1</sup>
- Carbon Reduction Solutions for Cement Plants

### 02 Project Info

- Location: Zongyang, China
- Total ESS: 6MW/36MWh (Outdoor)
- IRR: > 10%

### 03 Benefits

- Advanced Decarbonization
- Energy Cost Saving
- Sustainable Power through Renewable Microgrids
- Support for Net-Zero Manufacturing
- Efficient Utilization of Limited Land Space



Public Use

Comments:

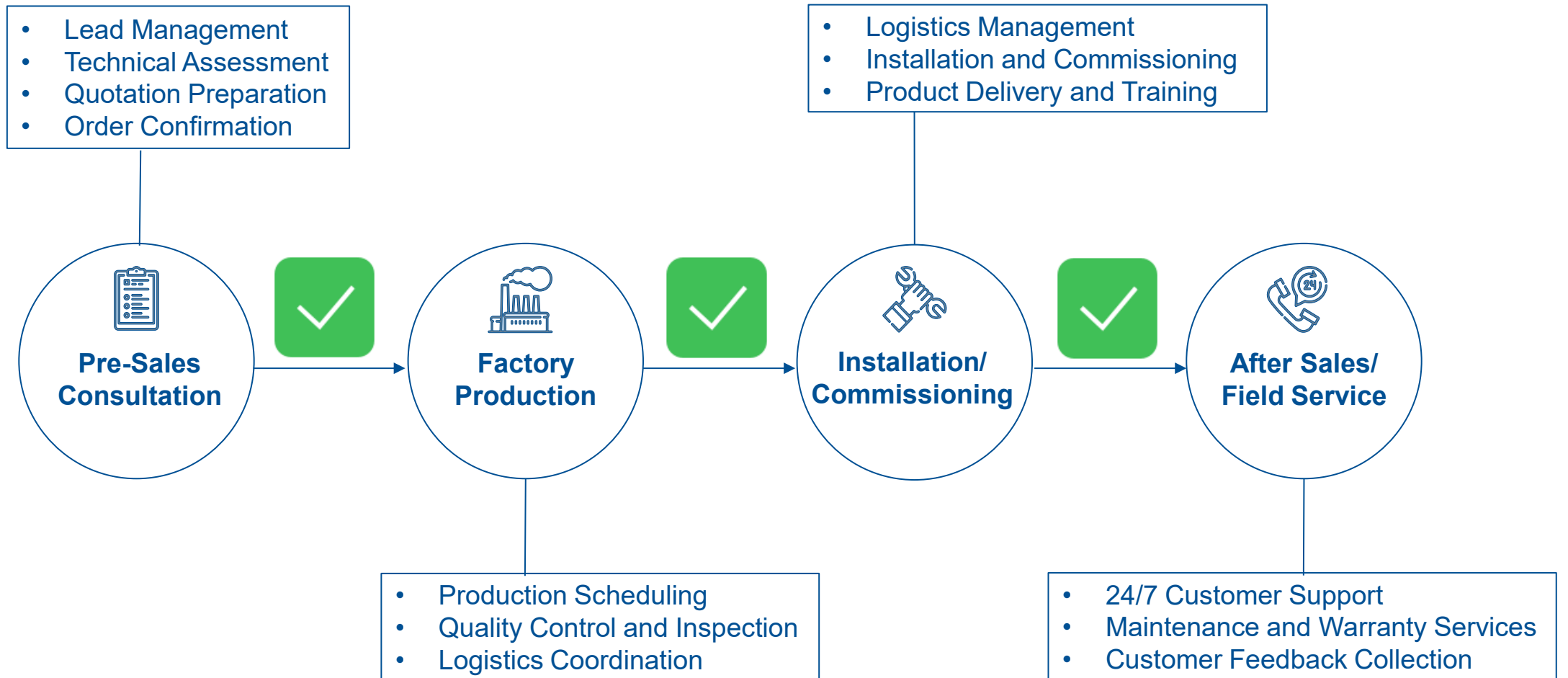
1) Data updated as of 05/14/2025

# New Office Locations

We are setting up new offices worldwide to enhance our global reach.

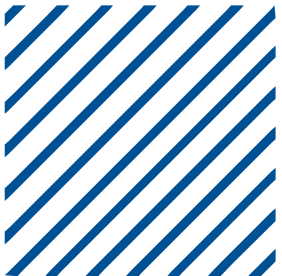
These strategic locations ensure we provide tailored support and build strong relationships with our clients and partners.





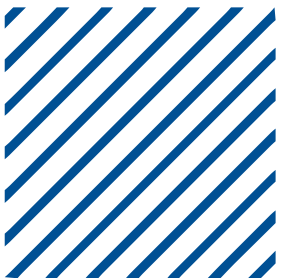
Our commitment to quality is demonstrated through key milestones and continuous assurance at every stage

# Photo Showcase





# Photo Showcase



**Thank you.**