

## SolarTech Power Solutions

# Power energy storage immersion



Application scenarios of energy storage battery products

## Overview

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### Can immersion cooling improve China's Energy Security?

Its operation marks a successful application of immersion cooling technology in new-type energy storage projects and is expected to contribute to China's energy security and stabilization and its green and low-carbon development. Developed by China Southern Power Grid (CSG), the plant has a capacity of 70 megawatts/140 megawatt-hours.

### Why should you choose immersion cooling ESS?

“With decades of experience in ESS design and R&D, we have achieved industry leading levels of safety,” said Seung-hyun Son, Head of Energy Systems Center at Hanwha Aerospace. “Our immersion cooling ESS is set to lead the next generation of energy storage solutions, ensuring the highest levels of fire prevention.

### Is immersion cooling ESS flammable?

The immersion cooling ESS is certified for non-flammable properties and protection against salt and dust Hanwha Aerospace and SK Enmove have partnered to revolutionize energy storage systems.

### Does immersion cooling technology improve battery thermal management?

Therefore, to address this significant challenge, a holistic analysis of immersion cooling technology for battery thermal management is provided, which has the heat transfer rate in the order of magnitudes compared to a typical battery cooling mechanism.

### Is immersion cooling technology suitable for large-capacity batteries?

In summary, immersion cooling technology, with its efficient full-surface heat exchange characteristics and more uniform temperature distribution, is more suitable for the thermal management needs of large-capacity batteries.

Is immersion cooling a new EV technology?

5. Immersion cooling as next revolution for EV technology Direct liquid battery cooling, known as IC, has emerged as a potential battery cooling technique in which cells are submerged in the non-conductive dielectric fluid, which brings direct contact with the battery's coolant [150, 151].

## Power energy storage immersion

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### **XING Mobility Unveils High-Power 1MWh Immersion-Cooled**

May 7, 2025 · XING Mobility has successfully completed multiple high-safety energy storage deployments, including a 2.4MWh immersion-cooled ESS installed at Taipower's Wind Farm in ...

### **Two-phase immersion liquid cooling system for 4680 Li-ion ...**

Sep 10, 2024 · The results of this research can provide a basis for the practical integration of two-phase immersion cooling in electric vehicles (EVs) and other applications involving energy ...



### **XING Mobility Unveils High-Power 1MWh Immersion-Cooled Energy Storage**

May 7, 2025 · 4× Power Output × Active Safety - Breaking the Limits of Conventional ESS XBE1000 Cabinet is



built upon XING's proprietary IMMERSIO(TM) immersion cooling battery ...

## XING Mobility Unveils High-Power 1MWh Immersion-Cooled Energy Storage

MUNICH, May 07, 2025 (GLOBE NEWSWIRE) -- XING Mobility, a global leader in immersion-cooled battery systems, officially launched its latest energy storage innovation, the XBE1000

...



## What is Immersion Cooling Technology in Energy Storage ...

6 days ago · Among various thermal management technologies, immersion cooling has gained increasing attention as a highly efficient and reliable cooling solution. 1. Current Status of ...

## Innovative Immersion

## Cooling Technology by FUS China Enhances Energy

Apr 19, 2025 · In **Shanxi**, adjustments have been made to the energy storage project list, adding **2.41 GW / 4.72 GWh** projects; in **Hainan**, distributed ...



## High Taihao Develops Immersion Liquid Cooling System to Address Energy

Apr 17, 2025 · As a leading company in the field of energy storage BMS and power BMS since its inception in 2011, High Taihao Energy has consistently focused on the golden path of new ...

## Thermal design and simulation analysis of an immersing ...

Thermal design and simulation analysis of an immersing liquid cooling system for lithium-ions battery packs in energy storage applications [J]. Energy Storage Science and Technology, ...



## XING Mobility Showcases Advanced Immersion-

## Cooled Energy Storage



May 15, 2025 · Designed for Power, Engineered for Safety XING Mobility's new XBE1000 cabinet is equipped with XING Mobility's proprietary IMMERSIO(TM) immersion cooling battery system, ...

## Multi-objective optimization of immersion cooling system ...

Aug 1, 2025 · At present, research on large-capacity energy storage batteries that simultaneously optimizes temperature control, system power consumption, and immersion liquid usage ...



## A review of research on immersion cooling technology for ...

Compared with traditional thermal management technology, immersion cooling technology has obvious advantages in controlling temperature and energy efficiency. With the rapid ...

## Numerical study on a novel



## thermal management system coupling immersion

Apr 1, 2024 · However, the flowing oil-based immersion fluid requires an extra circulation system apart from the vehicle thermal management systems (VTMS), inevitably increasing the energy ...

LiFePO<sub>4</sub> Battery, safety

Wide temperature: -20~55°C

Modular design, easy to expand

The heating function is optional

Intelligent BMS

Cycle Life: > 6000

Warranty: 10 years



✓ ALL IN ONE

✓ 100Kw/174Kwh  
High Capacity

✓ Intelligent  
Integration

## XING Mobility Unveils High-Power 1MWh Immersion-Cooled Energy Storage

May 7, 2025 · XING Mobility has successfully completed multiple high-safety energy storage deployments, including a 2.4MWh immersion-cooled ESS installed at Taipower's Wind Farm in ...

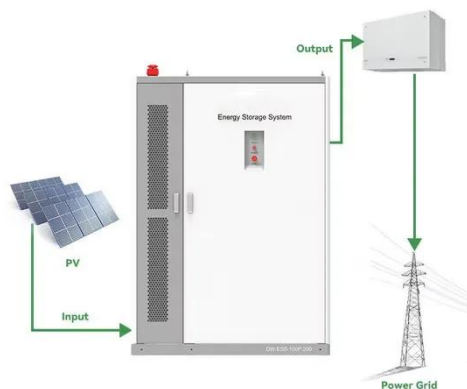
## Innovative Immersion Cooling Technology by FUS China Enhances Energy

Apr 19, 2025 · Storage News - Energy Storage Updates - International Energy Network International Energy Network - New Energy Network - Photovoltaic Network - Power Network ...



## World's First Immersion





## Cooling Battery Energy Storage Power ...

Mar 21, 2023 · It is the world's first immersed liquid-cooling battery energy storage power plant. Its operation marks a successful application of immersion cooling technology in new-type energy ...

## working principle of immersion liquid-cooled energy storage power ...

The power station is the world's first to be fully supplied with immersion liquid-cooling energy storage products, making it a milestone application of Hithium's safer, more efficient liquid ...



## First Immersion-type liquid-cooled energy storage power ...

Apr 2, 2023 · Electricity storage power plants, which are equivalent to urban "mobile batteries", generate electricity using renewable energy such as wind and solar power during off-peak ...

## Channel structure design and optimization for

## immersion ...

Jan 30, 2024 · The immersion cooling system avoids the complicated fluid channel structure design, enables the battery surface to participate in heat exchange fully, and has higher ...



???????????

Mar 16, 2023 · The world's first immersion liquid-cooled energy storage power station, China Southern Power Grid Meizhou Baohu Energy Storage Power Station, was officially put into ...

## Optimization of data-center immersion cooling using liquid air energy

Jun 15, 2024 · A mathematical model of data-center immersion cooling using liquid air energy storage is developed to investigate its thermodynamic and economic performance. ...



**[blockbuster] Kortrong full-immersion liquid-cooling energy storage**

50KW modular power converter



Apr 16, 2024 · From April 11 to 13, in Beijing Shougang Convention and Exhibition Center, Kortrong Energy Storage with new products and solutions was unveiled at the 12th ...

## Simulation study on cooling performance of immersion ...

Simulation study on cooling performance of immersion liquid cooling systems for energy-storage battery packs [J]. Energy Storage Science and Technology, 2025, 14 (2): 648-658.



## Energy, economic and environmental analysis of a combined ...

Sep 10, 2024 · An integrated energy storage batteries (ESB) and waste heat-driven cooling/power generation system was proposed in this study for energy saving and operating cost reduction. ...

## Hybrid System Features Immersion-Cooled Battery

## for AI ...

Apr 10, 2025 · XING Mobility and PEWC jointly developed a hybrid energy storage system combining two distinct battery chemistries to serve large-scale energy applications. ...



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