



# Fully immersed liquid-cooled energy storage





## Overview

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December 2024 - InnoChill, a leading innovator in advanced cooling solutions, has unveiled its groundbreaking immersion liquid cooling technology, designed to tackle the escalating thermal management challenges in the new energy industry. With a strong focus on improving system safety and cooling.

Europe: In Germany and the UK, liquid cooling is becoming standard in utility-scale solar and wind storage projects to enhance safety and reliability. Middle East & Australia: In high-temperature regions like Abu Dhabi and Queensland, liquid cooling is often the only viable solution due to its.

Instead of pushing air or liquid around battery cells, immersion cooling places the entire battery module—cells, busbars, and interconnects—directly into a non-conductive dielectric fluid. The fluid touches every surface, absorbs heat instantly, and fundamentally changes how batteries behave under.

GSL Energy is a leading provider of green energy solutions, specializing in high-performance battery storage systems. Our liquid cooling storage solutions, including GSL-BESS80K261kWh, GSL-BESS418kWh, and 372kWh systems, can expand up to 5MWh, catering to microgrids, power plants, industrial parks.

The grand launch of the "Kortrong 2.0 full-immersion liquid-cooled energy storage system, using the leading industry-leading full-liquid cold temperature control technology, full-immersion PACK,4S fusion, AC / DC integration, the launch of 10MWh immersion liquid-cooled energy storage system.

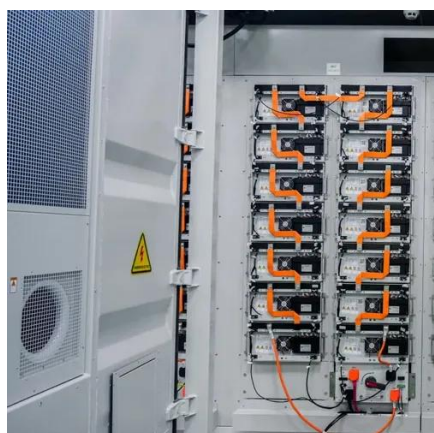
In High Taihao Energy's immersion liquid cooling system, the storage battery cells



are directly submerged in a cooling liquid, completely isolating them from air and moisture, thereby eliminating the risk of battery combustion and explosion. This approach effectively regulates operating.



## Fully immersed liquid-cooled energy storage



### [Immersion liquid cooling-Xilaike Energy Storage](#)

The Xilaike fully immersed liquid-cooled energy storage system uses high-quality insulating medium fully immersed modules to provide all-around heat dissipation for the battery cells.

### [Shell brings data-centre cooling tech to batteries in world-first](#)

Shell (Shanghai) and Chongqing-based QingAn Energy Storage (QAES) have announced a strategic partnership to introduce immersion-cooling technology - a method long ...



### [Liquid Cooling in Energy Storage: Innovative Power Solutions](#)

This article explores the benefits and applications of liquid cooling in energy storage systems, highlighting why this technology is pivotal for the future of sustainable energy.

### **Nowtech China**

Fully immersed liquid cooling, the era of thermal management 3.0 of energy storage systems In the immersed liquid cooling BESS, the battery is immersed in the coolant ...



### [High Taihao Develops Immersion Liquid Cooling System to Address Energy](#)

In High Taihao Energy's immersion liquid cooling system, the storage battery cells are directly submerged in a cooling liquid, completely isolating them from air and moisture, ...



### [A robust, innovative approach to BESS fire safety](#)

EticaAG is the original equipment manufacturer (OEM) of a patented immersion cooling battery energy storage system (BESS) ...



### [Immersion Cooling System](#)

Different from common air-conditioning refrigeration, Immersion Cooling Technology utilizes the principle of low-energy heat exchange to transfer a large amount of waste heat from IT ...



### [Nowtech's fully immersed liquid cooling technology makes ...](#)



Nowtech's fully immersed liquid cooling technology makes industrial and commercial battery energy storage systems more reliable and safer Temperature control is important to ensure ...



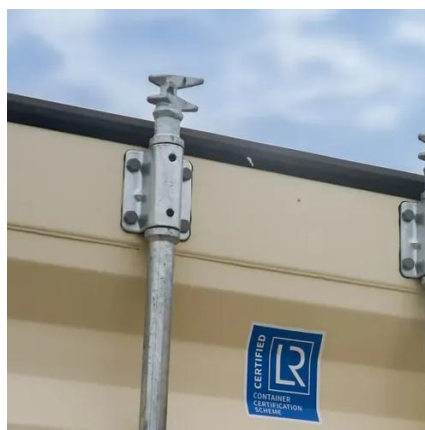
### CN117790985A

The invention discloses a full-immersion liquid cooling energy storage system and a control method thereof, and relates to the field of liquid cooling energy storage; the data monitoring ...



### Nowtech China

Fully immersed liquid cooling energy storage technology plays a good protective role in the safety of energy storage systems. First, it completely solves the problem of battery ...



### [?Exhibition Review?Kortrong Energy Storage ...](#)

The presentation was packed with dry goods and attracted the audience to listen attentively. In addition, on April 9, Zhou Ling, domestic ...



### [What is Immersion Liquid Cooling Technology in Energy Storage](#)



Immersion liquid cooling technology involves completely submerging energy storage components, such as batteries, in a coolant. The circulating coolant absorbs heat from ...



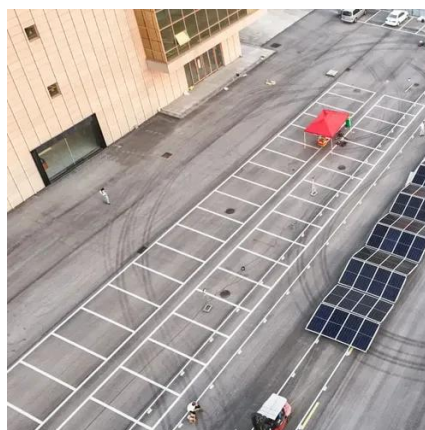
### [InnoChill Launches Advanced Immersion Liquid Cooling ...](#)

This advanced technology enhances battery safety, improves cooling efficiency, and reduces energy consumption, making it a pivotal solution for high-power applications in ...



### [Liquid Cooling Energy Storage System , GSL Energy](#)

Discover GSL Energy's advanced liquid cooling energy storage systems for commercial and industrial applications. Scalable to 5MWh, certified by UL, CE,CEI and IEC. Improve energy ...



### **Nowtech**

Nowtech - Fully immersed liquid cooling, the era of thermal management 3.0 of energy storage systems In the immersed liquid ...

### [Immersion-Cooled BESS: Redefining Battery Safety](#)



Immersion-Cooled BESS transforms battery cooling into a safety architecture, enabling safer regulation-ready energy storage deployments.



### [What is Immersion Liquid Cooling Technology in Energy Storage](#)

Immersion liquid cooling technology is an efficient method for managing heat in energy storage systems, improving performance, reliability, and space efficiency.

### [Liquid-immersed thermal management to cylindrical lithium-ion ...](#)

Immersed thermal management shows distinct advantages while cooling the lithium-ion battery modules. This work conducts numerical-experimental studies to analyze the ...



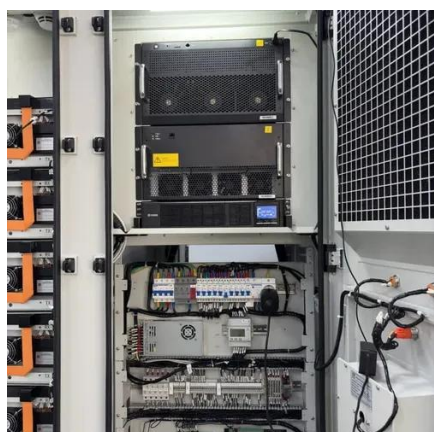
### [Fully Immersed Liquid-Cooled Energy Storage: Powering the ...](#)

How Liquid Immersion Cooling Changes the Game  
batteries submerged in a non-conductive fluid that's 1,500× better at heat transfer than air. That's not sci-fi - it's fully immersed liquid cooling ...

### [Two-phase immersion liquid cooling system for 4680 Li-ion ...](#)



Liquid cooling-based battery thermal management systems (BTMs) have emerged as the most promising cooling strategy owing to their superior heat transfer coefficient, ...



### [Nowtech's fully immersed liquid cooling technology makes ...](#)

Nowtech fully immersed liquid cooling battery energy storage systems improve the heat exchange efficiency, reduce the temperature difference of the battery cell, and eliminates ...

### [Shell brings data-centre cooling tech to batteries in ...](#)

Shell (Shanghai) and Chongqing-based QingAn Energy Storage (QAES) have announced a strategic partnership to introduce ...



### [Liquid Cooling in Energy Storage: Innovative Power Solutions](#)

Discover how liquid cooling enhances energy storage systems. Learn about its benefits, applications, and role in sustainable power solutions.



### [Nowtech's fully immersed liquid cooling technology makes ...](#)



Nowtech's fully immersed liquid cooling technology makes industrial and commercial battery energy storage systems more reliable and safer Temperature control is ...



### [Two-phase immersion liquid cooling system for 4680 Li-ion ...](#)

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 ...



### [Liquid Cooling Energy Storage: The Next Frontier in Energy Storage](#)

Liquid-cooled energy storage is becoming the new standard for large-scale deployment, combining precision temperature control with robust safety. As costs continue to ...



### [\[blockbuster\] Korrtrong full-immersion liquid-cooling energy storage](#)

The system adopts the leading "immersion liquid cooling" technology, integrates AC and DC, and is the first choice for centralized energy storage. It has the characteristics of ...



### [Solar Energy , NOWTECH Fully Immersed Liquid Cooling Energy Storage](#)



Management Technology Fully immersed liquid cooling is to immerse the energy storage battery directly in the coolant so that the battery is completely isolated from air, water, ...





## Contact Us

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