

## SolarTech Power Solutions

# EK Liquid Cooling Energy Storage Project in Bergen Norway



## Overview

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How will CO<sub>2</sub> be stored in Norway?

The full-scale project includes capture of CO<sub>2</sub> from industrial sources and shipping of liquid CO<sub>2</sub> to an onshore terminal on the Norwegian west coast. From there, the liquified CO<sub>2</sub> will be transported by pipeline to an offshore storage location subsea in the North Sea, for permanent storage.

What's happening with Northern Lights & Stockholm exergi?

This FID follows the signing of a 15-year commercial agreement between Northern Lights and Stockholm Exergi, the Swedish capital's energy supplier, for the cross-border transport and storage of 900,000 tonnes of biogenic CO<sub>2</sub> per year from 2028.

What is a liquid cooling system?

This project's liquid cooling system consists of primary, secondary, and tertiary pipelines, constructed by using factory prefabrication and on-site assembly within the cabin. The primary liquid cooling pipes utilize 304 stainless steel, whereas the secondary and tertiary pipes are made from PA12 nylon tubing.

What is a liquid cooling thermal management system?

The liquid cooling thermal management system for the energy storage cabin includes liquid cooling units, liquid cooling pipes, and coolant. The unit achieves cooling or heating of the coolant through thermal exchange. The coolant transports heat via thermal exchange with the cooling plates and the liquid cooling units.

How long is a 5MWh liquid-cooling energy storage cabin?

The layout project for the 5MWh liquid-cooling energy storage cabin is shown in Figure 1. The cabin length follows a non-standard 20'GP design (6684mm length × 2634mm width × 3008mm height). Inside, there are 12 battery

clusters arranged back-to-back, each with an access door for equipment entry, installation, debugging, and maintenance.

Where is the liquid cooling unit located?

The liquid cooling unit, firefighting system, confluence chamber, and power distribution room are located at one end of the cabin, with the liquid cooling unit taking up the majority of the space. The liquid cooling piping runs along the bottom of the cabin, while the firefighting piping and wiring are laid out at the top.

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### **Liquid-Cooled Energy Storage in Bergen Powering Norway s ...**

From its compact design to marine-grade durability, liquid-cooled energy storage proves why Bergen remains at the forefront of sustainable urban development. As renewable integration ...

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### **Liquid-cooled energy storage battery charging will**

Higher power makes faster charging possible, but it also generates significant heat. The heat load for DCFC and XFC load requires advanced cooling techniques to promote safe and reliable ...



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### **LIQUID COOLING ENERGY STORAGE SYSTEM A PRELIMINARY STUDY ON**

Solar panel charging liquid cooling energy storage price In the cost table, we have estimated battery costs based

on typical battery output as follows:  
battery power 7kW peak / 5kW ...



## Liquid Cooling in Energy Storage: Innovative Power Solutions

Jul 29, 2024 · By improving the efficiency, reliability, and lifespan of energy storage systems, liquid cooling helps to maximize the benefits of renewable energy sources. This not only ...



## Norway's \$2.8 billion full-scale carbon capture ...

Oct 8, 2024 · The Norwegian government has made room in its 2025 budget for a multimillion-dollar investment destined to be injected into its carbon capture ...



## Liquid-cooled energy storage battery charging

**will**

Can Li-ion batteries be cooled by a liquid cooling system? A two-phase immersion liquid cooling system was established for large format Li-ion battery efficient heat dissipation. The maximum ...



## 2.5MW/5MWh Liquid-cooling Energy Storage System ...

Oct 29, 2024 · The 5MWh liquid-cooling energy storage system comprises cells, BMS, a 20'GP container, thermal management system, firefighting system, bus unit, power distribution unit, ...

## Greek liquid-cooled energy storage battery production

Internations News Briefs On Renewable Energy 14 ······ Sungrow's PowerTitan to Power 105MWh Storage Projects In Greece Sungrow, the world's leading provider of photovoltaic ...



## Liquid Cooling Energy Storage: The Next Frontier



## in Energy Storage

Apr 5, 2025 · Liquid-cooled energy storage is becoming the new standard for large-scale deployment, combining precision temperature control with robust safety. As costs continue to ...

## Liquid Cooling Energy Storage in Valparaíso Revolutionizing ...

These systems are critical for stabilizing power grids as solar and wind projects expand across the region. Imagine your phone overheating on a summer day--now picture that at an industrial ...



PUSUNG-R (Fit for 19 inch cabinet)



## Southern Norway Energy Storage Liquid Cooling Pipe

PBES Norway and Norwegian Solar AS have agreed to a partnership deal that will offer PBES' energy storage to support PV projects in global markets. As part of the deal, PBES will supply ...

## THE FIRST 100 MW LIQUID COOLING ENERGY

## STORAGE PROJECT IN

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energy storage price In the cost table,  
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battery power 7kW peak / 5kW ...



## Norway's maturing battery industry embraces green energy storage

May 8, 2023 · Norway's maturing battery industry embraces green energy storage" We are seeing a shift in focus from EV batteries to energy storage for other purposes. Most batteries being ...

## Key energy storage project in Bergen Norway

Could the Northern Lights project encourage a new industry in Bergen?  
The Northern Lights project could lead to the growth of a new industry in Bergen.  
Through the Northern Lights ...



## The Northern Lights project





May 15, 2020 · Equinor, Shell and TotalEnergies are investing in the Northern Lights project -- Norway's first licence for CO2 storage on the Norwegian Continental Shelf and a major part of ...

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## Container Energy Storage in Bergen Sustainable Solutions for Norway ...

Summary: Bergen's push toward renewable energy integration makes containerized energy storage systems a game-changer. This article explores how modular battery solutions address ...



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## Equinor's Northern Lights CO2 Transport, Storage Facility Opens in Norway

Sep 30, 2024 · The Norwegian Minister of Energy officially opened the Northern Lights CO 2 transport and storage facility in Øygarden, near Bergen, Norway. The Northern Lights facility is ...

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## Bergen Water - Norway - Carbon Neutral Urban

## Water

Bergen aims to be Norway's greenest city and a pioneering city with regards to environment, sustainable development and climate adaptation. Specific targets include becoming fossil free ...



## Southern Norway Energy Storage Liquid Cooling Pipe

PBES Norway, Norwegian Solar AS to partner on containerised storage systems for PV projects PBES Norway and Norwegian Solar AS have agreed to a partnership deal that will offer ...

## Northern Lights: a CO2 transport and storage project to ...

Aug 18, 2025 · Located in Norway, Northern Lights is the world's first CO2 transport and storage project open to industry, owned equally by TotalEnergies, Equinor and Shell. Operational ...



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