

SolarInvert Energy Solutions

Electrochemical energy storage in Bergen Norway



Overview

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 Project (consisting of Equinor, Shell and Total), Norway is planning to capture, transport and store large volumes of carbon dioxide (CO₂) subsea, under the Norwegian Continental Shelf.

Where is Northern Lights CO₂ stored?

Northern Lights carbon dioxide transport and storage facilities at Øygarden outside Bergen (Photo: Northern Lights) The Northern Lights CO₂ transport and storage facility, in Øygarden, near Bergen, Norway, was officially opened on 26 September. It is a joint venture between Equinor, Shell and TotalEnergies.

How will CO₂ be stored in Norway?

The full-scale project includes capture of CO₂ from industrial sources and shipping of liquid CO₂ to an onshore terminal on the Norwegian west coast. From there, the liquified CO₂ will be transported by pipeline to an offshore storage location subsea in the North Sea, for permanent storage.

Where is Bergen Energy Park?

The Energy Park is located in Øygarden, which is an industry-friendly municipality in Vestland county, a 45-minute drive from Bergen city center. It is situated by the main shipping lane with proximity to the traffic hub and industrial clusters at Ågotnes, where Bergen's freight port will also be located.

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 CO₂ per year from 2028.

Electrochemical energy storage in Bergen Norway



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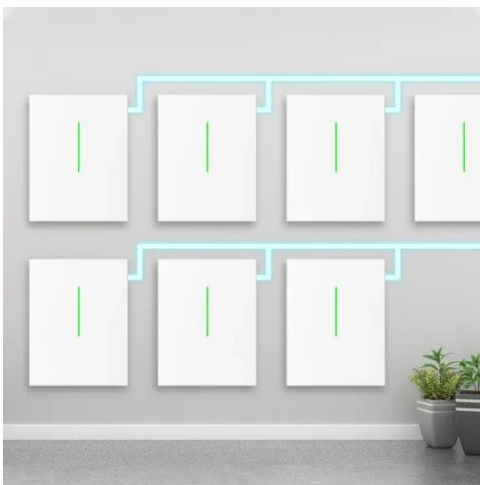
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Northern Lights: world first cross border facility ...

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Electrochemical Energy Storage

Electrochemical energy storage is defined as a technology that converts electric energy and chemical energy into stored energy, releasing it through chemical reactions, primarily using ...

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**Na LIU , Researcher , PhD ,
University of Bergen, ...**



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The Northern Lights project

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Norway: First CO₂ Storage in Northern Lights





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/year, which has been fully booked by customers from Norway and Continental Europe.

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ENERGY STORAGE SYSTEM

Product Model
HJ-ESS-215A(100KW/215KWh)
HJ-ESS-115A(50KW 115KWh)

Dimensions
1600*1280*2200mm
1600*1200*2000mm

Rated Battery Capacity
215KWH/115KWH

Battery Cooling Method
Air Cooled/Liquid Cooled



7 Top Energy Storage Companies in Norway · August 2025

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