

## SolarTech Power Solutions

# Mobile energy storage battery project in Lyon France



## Overview

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This 240MW/480MWh project will perform three essential functions within France's energy landscape: optimizing the use of decarbonized electricity, providing critical capacity during peak demand periods, and enhancing grid stability with near-instantaneous response capabilities. Who owns a battery energy storage system in France?

Image: Q Energy. The European renewable energy IPP arm of Korean conglomerate Hanwha Group, Q Energy, has started building one of the largest battery energy storage system (BESS) projects in France.

What is the largest battery-based energy storage site in France?

Featuring 27 containers, each with a storage capacity of 2.5 MWh, it can maintain power for over 200,000 homes for one hour. With a total storage capacity of 61 MWh, this is the largest battery-based energy storage site in France. The battery-based ESS facility at the Carling platform came on stream in May 2022 and comprises 11 battery containers.

What is the largest European battery-based energy storage project?

In May 2023, we launched our largest European battery-based energy storage project at the Antwerp platform in Belgium. With its 40 containers, the site will develop a capacity of 75 MWh, which is equivalent to the daily consumption of almost 10,000 homes.

Are lithium-ion batteries the future of portable energy?

Improving performance in the materials that compose lithium-ion or lithium-sulfur batteries is a high priority for portable energy needs. Arkema, the CNRS, University Claude Bernard Lyon 1 and CPE Lyon have pooled their expertise to design new high-performing materials for the batteries of the future.

Where will energy storage be installed in France?

The 44MWh energy storage project will be installed on the Emile Huchet

power plant site in the northeast of France. Once commissioned, it will be one of the largest facilities in the country. Q ENERGY is currently driving a development pipeline of more than 1GW of energy storage projects across Europe.

What is the future of batteries?

Arkema, the CNRS, University Claude Bernard Lyon 1 and CPE Lyon have pooled their expertise to design new high-performing materials for the batteries of the future. A growing share of portable energy needs will be provided by mobile energy storage devices, such as lithium-ion batteries.

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### BE\_LYON\_2025\_eBROCHURE\_20250612

Jun 12, 2025 · We can't wait to welcome you to the 2025 Batteries Event edition that will take place from Tuesday, November 4th to Thursday, November 6th, 2025, at La Cité ...

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## Présentation PowerPoint

Aug 18, 2025 · Technological challenges for Batteries Energy Storage Systems (BESS) Caroline Gaya, Project Manager, Ineris Understanding and Mitigating Risks in BESS: lessons from test, ...



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## Event produced & chaired by

Mar 19, 2025 · We can't wait to welcome you to the 2025 Batteries Event edition that will take place from Tuesday, November 4th to Thursday, November 6th, 2025, at La Cité ...

## Batteries Event 2025 , Net Zero Compare

Batteries Event 2025, organized by Avicenne Energy, will take place from November 4 to 6 in Lyon, France. This event marks its 27th anniversary and aims to gather stakeholders from the ...



## Lyon Group to build world's largest solar-plus ...

Mar 30, 2017 · Brisbane-based renewable energy investor Lyon Group will soon start building a AU\$1 billion (US\$767 million) solar-plus-storage farm in South ...

## Chu Lyon Battery Energy Storage Project

Making project finance work for battery energy storage projects Generally speaking, a battery project has to be a certain size to make it attractive to project finance providers - historically a ...



## GazelEnergie, Q Energy launch 35-MW battery in France



Dec 9, 2024 · European renewables developer Q Energy and French energy company GazelEnergie on Monday announced the inauguration of a 35-MW/44-MWh energy storage ...

## **BE\_LYON\_2025\_eBROCHURE\_20250612**

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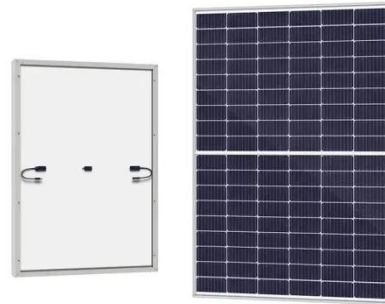
## **Arkema, the CNRS, Université Claude Bernard ...**

May 3, 2022 · Improving performance in the materials that compose lithium-ion or lithium-sulfur batteries is a high priority for portable energy needs. Arkema, the ...

## **Diapositive 1**

Feb 15, 2024 · This White Paper is

intended to share R& D insights on battery storage for EDF partners: electric utilities across the world, grid operators, renewables developers, along with ...



## Présentation PowerPoint

Jul 10, 2025 · Europe's Reimagined Role in the Global Battery Ecosystem: A Strategic Response to Evolving Pressures  
Maud Lenfant, Project Director of Energy Equipment Manufacturers, ...

## Arkema, the CNRS, Claude Bernard Lyon 1 University and CPE Lyon ...

May 3, 2022 · With electric cars, smartphones, and laptops, the need for mobile energy storage devices continues to grow. This demand is principally met by lithium-ion batteries. They ...



## Case Study: Smart Community Demonstration Project in ...





Dec 18, 2024 · In Lyon, France, there was a smart community demonstration conducted as a joint project with Japan from 2011 to 2016, focusing on the construction of a future-oriented city ...

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## **Lyon joins forces with intl JVs to develop battery storage in ...**

May 29, 2018 · The Lyon Group of Australia today announced a collaboration with JERA Co Inc of Japan and Fluence Energy LLC aimed at pursuing utility-scale battery storage opportunities in ...



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## **Energy Storage in France: Powering the Future with Innovation**

Apr 11, 2021 · A country famous for croissants, romantic bridges, and enough nuclear reactors to power half of Europe. Now, France is adding a new item to its résumé - becoming a European ...



## Container energy storage transformation in Lyon France

European renewables developer Q Energy has started construction work on a 35-MW/44-MWh battery energy storage system (BESS) in northeastern France, described as one of the largest ...



## MET Group buys French BESS company Comax

Nov 26, 2024 · French battery energy storage systems (BESS) developer, owner, and operator Comax is to join MET Group as the Swiss business seeks to expand its share of the European ...

## Mobile energy storage technologies for boosting carbon ...

Nov 13, 2023 · Compared with traditional energy storage technologies, mobile energy storage technologies have the merits of low cost and high energy conversion efficiency, can be flexibly ...



## TagEnergy to build France's largest battery, ...



Dec 4, 2024 · TagEnergy will develop and manage the Cernay-lès-Reims project, which is scheduled for grid connection in late 2025. It will have a storage ...

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