

## Solar Energy South Africa

# Renault s largest battery energy storage system



## Overview

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When a battery used in an electric car comes to the end of its life in terms of powering the vehicle, it doesn't stop there. While a battery's first life lasts for between 10-15 years, it still has a capacity of at least 75%. This means it can be repurposed for up to another 10 years in applications such as stationary energy.

The recent commission is part of a collaboration between Connected Energy and Groupe Renault on Second Life battery energy storage.

Matthew Lumsden, Connected Energy CEO, believes that the global market is "moving away from a centralized energy model with large carbon-intensive generation, like coal.

The overall project has been led by French multinational electric utility company ENGIE, who recently co-invested in Connected Energy to provide a platform to deliver its next phase of.

With the development of the renewable energy market in order to meet global climate change targets, Matthew Lumsden predicts that demand for a balancing service will also increase.

Renault first announced the Advanced Battery Storage project in 2018 as "Europe's largest stationary energy storage system with spent batteries from electric vehicles". What is a Renault battery?

Using Renault batteries, these systems are a fundamental part of harnessing the circular economy to provide industrial-scale energy storage. What does "second-life" mean when it comes to vehicle batteries?

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Where does Renault install battery energy storage systems?

Renault has already installed such systems in Porto Santo, Belgium and in France and Germany. These Battery Energy Storage Systems are considered to be among the best ways to meet the challenges of energy storage.

How many new energy storage projects have been launched in Europe?

Besides these, three new storage projects have just been launched in Europe. At the end of 2018, Renault Group announced the launch of the Advanced Battery Storage (ABS) project, a major stationary energy storage system using electric vehicle batteries. It is set to be rolled out to several sites in Europe to reach a capacity of 70 MWh.

Can electric cars be used as energy storage batteries?

Firstly, through a vehicle-to-grid (V2G) system, where electric vehicles can be used as energy storage batteries, saving up energy to send back into the grid at peak times. Secondly, at the end of their first life powering the electric car, lithium-ion batteries can be reused as stationary energy storage batteries.

What are battery energy storage systems?

Lithium-ion batteries are by far the most widely used in Battery Energy Storage Systems these days. Developing “vehicle-to-grid” technology means they can be used while still installed in the electric car – a “mobile” energy storage system – and used to supply their stored energy back to the electricity grid when needed.

What is advanced battery storage?

Advanced Battery Storage is a stationary energy battery storage project based on the use of Renault Group electric vehicle batteries. Its first two installations have just been unveiled in France and Germany. At the same time, in the UK, the SmartHubs project is using this same technology to develop a local power grid.

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### Stationary energy battery storage: three new projects ...

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### World's Largest Utility-Scale Battery Energy Storage ...

The Moss Landing Energy Storage Facility, the world's largest utility-scale battery energy storage system, is now online. The 300 megawatts/1,200 megawatt-hours lithium-ion battery storage system is located on-site at Vistra's Moss Landing ...



### 7 Battery Energy Storage Companies and Startups

6 ???· And battery energy storage is one of the best solutions countries are considering to tackle this crisis. As a result, acquisitions in battery energy storage are heating up. As per PVMaganize, about 550 MW of battery energy storage ...

### World's largest second-life battery storage project joins Texas ...

11 ????· California startup Element Energy has announced the commissioning of the world's largest second-life, grid-connected battery energy storage installation. The 53 MWh storage ...



**The future of energy storage: are batteries the answer ...**

Ever a pioneer in the field, Renault announced the launch of its Advanced Battery Storage project back in 2018, with the aim of creating Europe's largest ever stationary energy storage system. There are five main reasons ...

**Renault reveals two energy projects using second ...**

Groupe Renault is announcing two new second-life battery programmes with the SmartHubs Project in West Sussex, UK and Advanced Battery Storage in Douai, France, two of the largest projects of their types in ...



**The future of energy storage: are batteries the ...**

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## Electric batteries for stationary energy storage

Stationary energy storage: giving a second life to the electric vehicle battery. For individual households connected to photovoltaic panels, domestic stationary energy storage systems consisting of electric vehicle ...



## Construction Starts for France's Largest Battery Energy Storage System

Harmony Energy, a leader in battery energy storage across Europe, has begun the construction of the Cheviré Battery Energy Storage System (BESS) in Nantes, which is expected to be fully ...

## Europe's biggest battery energy storage system now ...

Developed by Harmony Energy and employing a Tesla two-hour Megapack system, the Pillswood project, near Hull, can store enough electricity to power around 300,000 homes for two hours. Reportedly Europe's ...



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