

Title: Roman Battery Energy Storage

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Summary: Rome's Fiumicino Airport Unveils Europe's Largest EV Battery Energy Storage System 10 MWh energy storage system repurposes 762 end-of-life EV batteries, supporting peak power needs and decarbonization.

What is Italy's largest second-life battery energy storage system?

From ESS News Italy's largest second-life battery energy storage system was officially launched at Rome-Fiumicino airport yesterday. State-owned gas and electric company Enel's 2.5 MW/10 MWh Pioneer project comprises 762 battery packs and modules.

What is Italy's largest energy storage system?

Enel and Rome Fiumicino Airport have commissioned Italy's largest energy storage system with second-life batteries from electric cars. The stationary 10 MWh storage system uses a total of 762 battery modules from Mercedes-Benz, Nissan and Stellantis vehicles.

How much electricity does a Bess storage system use?

A capacity of 10 MWh of electricity allows the storage system to balance the 31 GWh supplied by the ADR Solar Farm photovoltaic system. The BESS now installed at Fiumicino Airport is powered by 762 battery modules from Mercedes-Benz, Nissan and Stellantis.

Which car batteries are used at Fiumicino Airport?

The BESS now installed at Fiumicino Airport is powered by 762 battery modules from Mercedes-Benz, Nissan and Stellantis. The project using electric car batteries dates back to 2022, when a collaboration was launched with Loccioni. Stellantis provided 78 second-life batteries, belonging to the eCMP electric platform dedicated to B-segment cars.

How much energy does a Nissan Leaf battery store?

Each battery had a capacity of 50 kWh of storage energy, for a total of 3.9 MWh. Nissan says it supplied 84 second-life Nissan LEAF batteries, totalling 2.1 MWh of energy storage, to system integrator Loccioni, responsible for harmonising them into Enel's BESS.

Where do pioneer batteries come from?

Half the site's batteries came from Mercedes-Benz, while electric vehicles (EVs) from Stellantis - which includes Chrysler and Citroen among its marques - supplied around 30% of Pioneer's batteries, with the balance coming from Nissan cars.

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These batteries contribute 2.1 MWh of energy storage to the overall project. The reused batteries are Gen 3 30kWh and Gen 4 40kWh LEAF ...

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Enel and Rome Fiumicino Airport have commissioned Italy's largest energy storage system with second-life batteries from electric cars. The ...

The Rome-Fiumicino Airport will decarbonize by integrating second-life batteries into an energy storage system. The Pioneer project (airPort sustaInability secONd life battEry ...

International Conference on Batteries and Energy Storage Technology scheduled on December 18-19, 2025 at Rome, Italy is for the researchers, scientists, scholars, engineers, academic, ...

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Rome's Fiumicino Airport is utilizing repurposed EV batteries for energy storage to reduce emissions and support circular economy goals, aligning with its 2030 carbon neutrality ...

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Rome's Fiumicino Airport now uses second-life EV batteries to store solar energy and cut 16,000 tons of CO2 over ten years.

Fiumicino Airport launches Pioneer, a major energy project using recycled EV batteries to boost sustainability and power resilience. An innovative energy storage system is ...

Rome's Fiumicino International Airport has launched Pioneer, Europe's largest energy storage system based on second-life electric vehicle ...

Rome's Fiumicino International Airport has become the first in Italy to deploy a large-scale energy storage system built entirely from used electric vehicle batteries, in a bid to ...

The stationary battery energy storage system (BESS) with automotive batteries has been developed with German research institute ...

Roman Battery Energy Storage

The stationary battery energy storage system (BESS), with a total capacity of 10 megawatt-hours (MWh), has been installed at Fiumicino ...

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