



Rome solar energy storage project





Overview

Italy, June 3, 2025: Enel and Aeroporti di Roma (ADR) have officially launched the Pioneer project, a groundbreaking energy storage initiative designed to accelerate decarbonisation efforts at Rome's Leonardo da Vinci-Fiumicino Airport.

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The PIONEER project aims to support the »Leonardo da Vinci« international Airport in Rome Fiumicino on its way toward net zero emission airport. A 30 MWp photovoltaic system is planned for this purpose, which will be supplemented by a 2nd Life energy storage system consisting of used vehicle.

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

10 MWh energy storage system repurposes 762 end-of-life EV batteries, supporting peak power needs and decarbonization. Expected CO₂ reduction of 16,000 tons over the next decade—supporting Fiumicino's Net Zero by 2030 target. Europe's largest airport solar-battery integration, boosting energy.

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Rome solar energy storage project



[Energy storage system based on EV batteries launched at Rome...](#)

It will be used to store energy produced by a solar farm Enel opened in Fiumicino in January. As Italy rolls out an increasing number of renewable energy projects, it needs storage ...

[Battery Storage Projects Boost Southern California's Energy ...](#)

Between December 2024 and March 2025 two projects--one jointly owned by EDF Renewables and Power Sustainable Energy Infrastructure (PSEI) and another with ...



**2MW / 5MWh
Customizable**



[The PIONEER Project: A Milestone in Circular Energy Storage](#)

Inaugurated on June 3, 2025, at Rome Fiumicino Airport, PIONEER is an energy storage system based on repurposed EV batteries.

[The PIONEER Project: A Milestone in Circular ...](#)

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[Rome's Fiumicino Airport Unveils Europe's Largest EV Battery Energy](#)

Europe's largest airport solar-battery integration, boosting energy resilience and circular economy leadership. Rome's Fiumicino International Airport has launched Pioneer, ...



[Rome's Fiumicino Airport launches Italy's largest ...](#)

The storage system accumulates renewable energy to be used even when the sun is not out, and leverages used electric vehicle ...



[PIONEER - Airport Sustainability Second Life ...](#)

As part of the PIONEER project, a commercial use case for 2nd-life batteries in combination with a 30 MWp PV system to power the »Leonardo da ...



[Rome Airport powers up with second-life EV batteries](#)



An innovative energy storage system is helping Rome Fiumicino International Airport (FCO) harness renewable energy more ...



[CEC Approves World's Largest Solar + Battery Storage Project in ...](#)

SACRAMENTO - The California Energy Commission (CEC) on Wednesday approved the Darden Clean Energy Project (DCEP), the first to be permitted under the state's ...



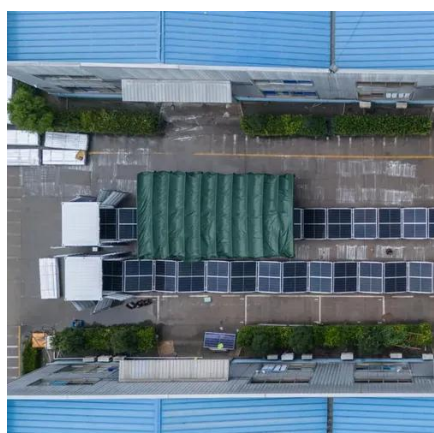
[Rome Airport powers up with second-life EV batteries](#)

An innovative energy storage system is helping Rome Fiumicino International Airport (FCO) harness renewable energy more effectively, capturing power for use even when ...



[The US's largest solar + storage project just hit a ...](#)

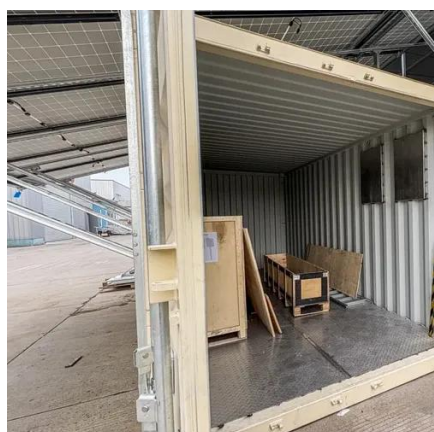
AES brings 1 GW of solar + storage online in California, and full buildout will be the largest of its kind in the US by 2026.



[Rome's Fiumicino Airport launches Italy's largest second-life ...](#)



The storage system accumulates renewable energy to be used even when the sun is not out, and leverages used electric vehicle batteries, giving them a second life.

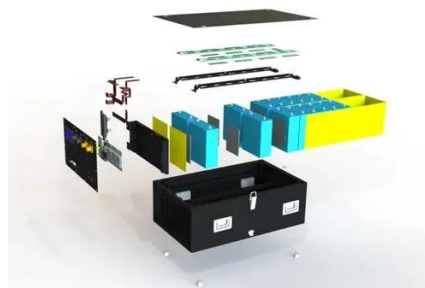


[Top five energy storage projects in India](#)

The Clique Solar Solar Thermal HVAC - Chilled Water Thermal Storage System is a 175kW chilled water thermal storage energy storage project located in Greater Noida, Uttar ...

[Governor Newsom cuts red tape to accelerate ...](#)

What you need to know: Governor Newsom streamlined a solar and battery storage project in the Fresno area that would provide ...



[Largest US solar-storage project goes online](#)

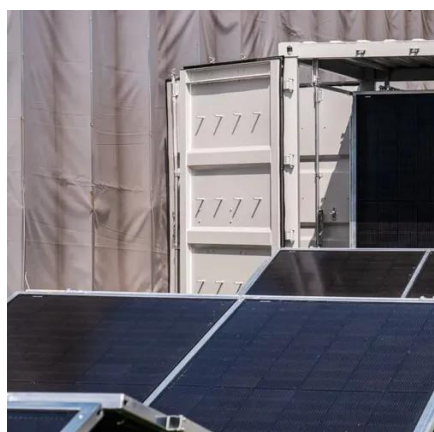
A new 875 MW solar project in California features nearly 2 million solar panels and offers more than 3 GWh of energy storage.



[Biggest projects in the energy storage industry in ...](#)



Following similar pieces in 2022/23, we look at the biggest energy storage projects, lithium and non-lithium, that we've reported on in ...



[Solar energy storage: everything you need to know](#)

For commercial applications, mechanical storage options provide effective solutions to harnessing solar energy when it's needed most, and grid-scale battery storage will likely become available ...

[PIONEER - Airport Sustainability Second Life Battery Storage](#)

As part of the PIONEER project, a commercial use case for 2nd-life batteries in combination with a 30 MWp PV system to power the »Leonardo da Vinci« international airport in Rome ...



[Energy Storage , Edison International](#)

Connolly Energy Storage The 2.8MW/5.6MWh Connolly battery energy storage system is connected to a circuit that supports 15 small solar farms ...

INNOVATION FUND



The project will be developed at Rome Fiumicino International airport and the energy stored will cover evening peak-demand, while also providing flexibility services to the grid.

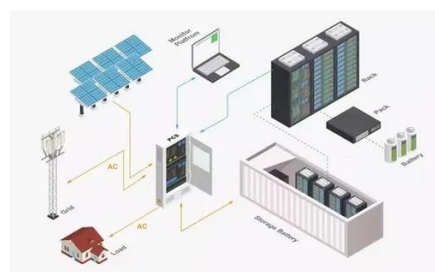


Pioneer project

This project will therefore demonstrate the use case for second-life batteries as a viable solution for having cheap and effective energy storage. Once the project is complete, AdR has already ...

Pioneer project

The PIONEER project involves the design, construction, start-up and operation of a system made up of second-life batteries from the automotive sector for the storage of excess power ...



[Rome's Fiumicino Airport Unveils Europe's Largest ...](#)

Europe's largest airport solar-battery integration, boosting energy resilience and circular economy leadership. Rome's Fiumicino ...

[Fiumicino Unveils Europe's Largest EV Battery Storage System](#)



Italy, June 3, 2025: Enel and Aeroporti di Roma (ADR) have officially launched the Pioneer project, a groundbreaking energy storage initiative designed to accelerate decarbonisation ...



[Energy Storage News , Today's latest by ...](#)

Latest news on energy storage projects, BESS, capacity expansion, and regulatory updates across Europe, US & Canada, Latin ...

Fact Sheet

Stand-Alone Battery Energy Storage Sites, at plant sites that did not have the characteristics to support utility-scale solar development: Edwards, 37 MW Battery Energy Storage Havana, 37 ...



[Wisconsin's first large-scale battery storage system comes online ...](#)

The state's first large utility-scale battery storage project came online in southeastern Wisconsin this month, providing enough storage to power more than 130,000 ...

[SFPUC Commits to New Solar and Battery Energy ...](#)



SAN FRANCISCO - The San Francisco Public Utilities Commission's (SFPUC) community choice energy program, CleanPowerSF, is ...



[Rome-Fiumicino Airport Decarbonizes Via Batteries](#)

The project is the largest energy storage system using hybrid second-life batteries in Italy. The technology of the storage system will integrate second-life batteries from three ...



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