



Rome Energy Storage Container Power Station Project





Overview

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

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The inauguration of the largest energy storage facility using second-life batteries in Italy marks a turning point in the decarbonization of the Fiumicino airport hub. Thanks to the synergy between businesses, institutions and communities, “Made in Italy” innovation continues to lead the energy.

Rome’s Fiumicino International Airport has launched Pioneer, Europe’s largest energy storage system based on second-life electric vehicle batteries. Developed by Italian utility Enel and airport operator Aeroporti di Roma (ADR), the 10 MWh battery energy storage system (BESS) strengthens the.

Inaugurated on June 3, 2025, at Rome Fiumicino Airport, PIONEER is an energy storage system based on repurposed EV batteries. Loccioni, a key system integrator, has announced the successful development and implementation of PIONEER (airPort sustainability secONd life battEry stoRage), an innovative.

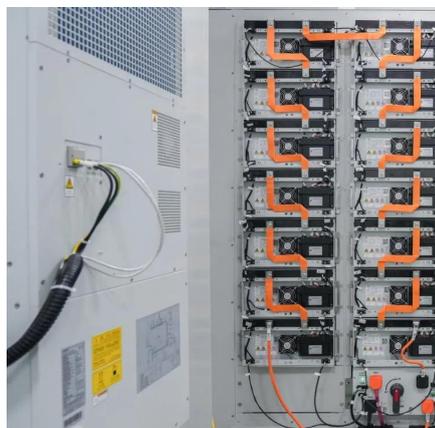
Following the successful submission of the PIONEER project’s proposal in the framework of Innovation Funds Call for small scale initiatives, the relevant Grant Agreement was signed by the funding authority (CINEA), the project’s Coordinator (Aeroporti di Roma) and the project’s partners (Enel X and.

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.

In partnership with German research institute Fraunhofer, ADR (Aeroporti di Roma) and Enel have launched the Pioneer project (airPort sustainability secONd life battEry stoRage) at Rome’s Fiumicino International Airport. According to the partners, it is the largest energy storage system using.



Rome Energy Storage Container Power Station Project



Pioneer plant at Fiumicino airport

Built by Enel and Aeroporti di Roma with the scientific support of the Fraunhofer Institute, Pioneer is the largest energy storage system in Italy based on second-life batteries, ...

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[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.

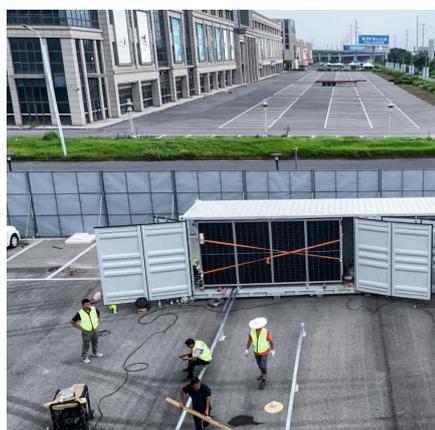
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Energy storage system based on EV batteries launched at Rome...

Italy's largest energy storage system based on used batteries for electric vehicles was inaugurated on Tuesday at Rome's Fiumicino airport to help it reduce carbon emissions.

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[Pioneer energy storage system in Fiumicino, Italy](#)

The inauguration of the largest energy storage facility using second-life batteries in Italy marks a turning point in the decarbonization of the Fiumicino airport hub.



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Rome's Fiumicino Airport Unveils Europe's Largest EV Battery Energy

Developed by Italian utility Enel and airport operator Aeroporti di Roma (ADR), the 10 MWh battery energy storage system (BESS) strengthens the airport's energy autonomy ...

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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 ...

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

Developed by Italian utility Enel and airport operator Aeroporti di Roma (ADR), the 10 MWh battery energy storage system (BESS) ...

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PIONEER: decarbonising airport



operations with second-life car

Rome's Fiumicino Airport, which sees over 50 million passengers each year, is giving new life to used electric car batteries. Through the PIONEER project, they are combining solar energy ...

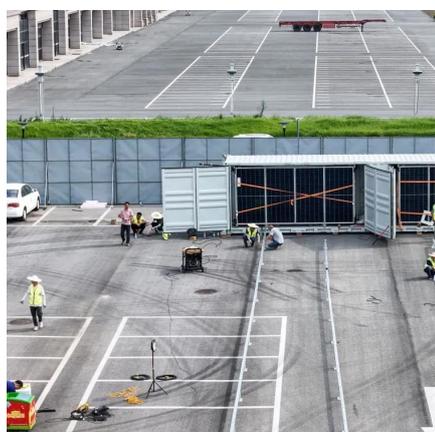
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[Pioneer energy storage system in Fiumicino, Italy](#)

The inauguration of the largest energy storage facility using second-life batteries in Italy marks a turning point in the decarbonization ...

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Pioneer project

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.

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Rome's Fiumicino Airport launches Italy's largest second-life ...

According to the partners, it is the largest energy storage system using hybrid second-life batteries in Italy, and one of the largest in Europe. Pioneer is projected to save ...

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PIONEER - Airport Sustainability



Second Life Battery Storage

Using Rome Airport as an example, the planned 2nd-life battery storage in combination with a PV system shows the way towards the goal of net-zero emissions in the local power supply. In ...

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