

Exchange on Rome Mobile Energy Storage Containers



Overview

Italian electricity TSO Terna has received more than 100 GW of requests to participate in the energy storage auction it is planning before summer 2025. The first phase of the MACSE tender is expected to be the biggest battery procurement exercise held in Europe by that point. 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 . SCU uses standard battery modules, PCS modules, BMS, EMS, and other systems to form standard containers to build large-scale grid-side energy. Developed by Italian utility Enel and airport operator Aeroporti di Roma (ADR), the 10 MWh battery energy storage system (BESS) strengthens the . In response to this necessity, Legislative Decree 210/2021 (Implementation of EU Directive 2019/944 of the European Parliament and of the Council of June 5, 2019 concerning common rules for the internal market in electricity and amending Directive 2012/27/EU, and laying down provisions for the .

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

The system called 'Pioneer' has been developed by Italian utility Enel and airport operator ADR and is one of the largest of its kind in Europe, the two companies said in a statement. It will be

[Rome airport installs hybrid renewable energy project with second](#)

A new energy storage facility at Rome's Fiumicino Airport is using second hand car batteries in a bid to reach Net Zero Carbon by 2030. The storage system known as "Pioneer" is the largest in Italy using



Energy Storage Systems in Italy: a new mechanism for the

MACSE will promote the development of new storage capacity, which is functional for effective integration of renewable sources into the system, also in order to reduce and manage

The PIONEER Project: A Milestone in Circular Energy Storage

The project, partially financed by European funds, represents a significant step forward in the field of sustainability, integrating batteries from three distinct automotive manufacturers (Nissan,



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



Rome EK Energy Storage Container Solution

DC current Energy storage is utilized in the commercial and industrial sectors to enable energy storage and dispatch to improve energy use efficiency and supply reliability.



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.



[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, Europe's largest



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

Enel: Italy launches an innovative energy storage system at Rome's Fiumicino airport, utilizing old electric vehicle batteries to significantly reduce carbon emissions and store renewable



[Italian grid company Terna fields 100 GW+ requests for MACSE energy](#)

Italian electricity TSO Terna has received more than 100 GW of requests to participate in the energy storage auction it is planning before summer 2025. The first phase of the MACSE tender

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