

Italian Energy Storage Policy Compilation Document

Does Italy need electricity storage?

As Italy's energy mix is increasingly composed of variable renewable energy sources, electricity storage will be needed to integrate power generated by renewables into the national grid and make it available when sun and wind energy are not accessible.

Will Italy support a centralised electricity storage system?

The European Commission has approved, under EU State aid rules a EUR17.7 billion Italian scheme to support the construction and operation of a centralised electricity storage system.

What does the European Commission say about energy storage?

The Commission adopted in March 2023 a list of recommendations to ensure greater deployment of energy storage, accompanied by a Staff Working Document, providing an outlook of the EU's current regulatory, market, and financing framework for storage and identifies barriers, opportunities and best practices for its development and deployment.

How will Italy develop utility-scale electricity storage facilities?

To develop utility-scale electricity storage facilities, the Italian Government set up a scheme that was approved by the European Commission at the end of 2023. Italy will promote investments in utility scale electricity storage to reach at least 70 GWh, and worth over Euro 17 bn, in the next ten years.

Are battery energy storage systems needed in Italy?

Therefore, battery energy storage systems (BESS) are needed in Italy. The Italian market for BESS is growing rapidly and currently amounts to 2.3 GW but it almost exclusively consists of residential scale systems, associated with small scale solar plants, having a capacity of less than 20 kWh.

What is Italy's energy policy?

In line with the EU energy and climate policy framework, Italy's energy policy aims to decarbonise the energy supply through the expansion of renewable energy, electrification and increased energy efficiency across the economy. This is also broadly consistent with the IEA roadmap to net zero (IEA, 2021).

income households; to what degree energy efficiency policies should specifically target low-income households; and in which circumstances they should be combined with social policies ...

Italian minister of the environment and energy security, Gilberto Pichetto, has signed a decree approving the establishment of a centralized electricity storage system. With ...

The new market rules will allow grid operator Terna to run large-scale energy storage auctions. Terna will

now run a consultation with the industry on the proposed new ...

The full development of energy storage systems and innovative electrical power distribution systems, however, still faces difficulties related to the technologies to be ...

The scope of application of this document is associated with the operation of CDP in the Energy Sector, relating to Financing and Investment operations and to the renewal of Financing which ...

In this paper we consider the optimal operation of an energy community receiving incentives for energy virtually shared among the community members. A similar incentive scheme for ...

photovoltaic and onshore wind). Batteries are found to be the preferable energy storage solution in the first part of the energy transition, while the hydrogen storage starts to be convenient ...

The grid-scale Italian energy storage market has been kickstarted from two different directions. The first was big wins for battery storage projects in ancillary service and capacity market ...

Energy communities may vary depending on their location, the actors they involve and the energy services they provide. In energy communities, citizens can access low-cost renewable energy ...

With decision 300/2017, the Italian Regulator started to open the Italian ancillary services market (MSD) to new players: oRES and distributed generation systems ...

Ancillary legislation adopted by the Italian Regulatory Authority for Electricity Gas and Water ("AEEG") provides the legal framework for storage solutions connected to the ...

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