

Italian power emergency solar container maintenance

<div class="df_qntext">How is electricity produced in Italy?

Electricity production in Italy still largely takes place using non-renewable sources (natural gas, coal and oil), although the development of renewable sources is constantly increasing: geothermal, hydroelectric, solar and wind energy. In order to meet Italian energy requirements, electricity also needs to be purchased from other countries.

<div class="df_qntext">Will Italy increase its solar power capacity in 2024?

In its most recent National Energy Climate Plan (NECP), Italy aims to increase its solar PV capacity from 36GW at the end of 2024 to 80GW in 2030. Wind generation capacity should increase from 13GW in 2024 to 28GW in 2030. Combined, this would entail a 60GW increase in intermittent generation capacity.

<div class="df_qntext">Why is Italy moving away from programmable thermal generation units?

The Italian electricity sector is rapidly moving away from programmable thermal generation units to weather-dependent renewable generation. The Italian government is aiming for 15GW of BESS capacity by 2030 to maintain security of supply.

<div class="df_qntext">How much Bess capacity will Italy have by 2030?

That is why Italy aims to add 15GW of BESS capacity by 2030 (of which 11GW should be standalone and 4GW co-located). As of March 2025, Italy has got 1GW of grid-scale BESS capacity online, placing the country in third place in Europe (shared with Ireland) in terms of installed capacity, behind Germany (1.6GW) and the UK (5.6GW).

<div class="df_qntext">Is Italy a good place to invest in backup power?

In the third part of our series on backup power in Europe, we examine the lucrative BESS investment landscape of Italy. In part 1 of our series on backup power in Europe, we named Italy as one of the most attractive European countries for BESS investments.

<div class="df_qntext">How is the Italian government aiming for 15GW of Bess capacity?

The Italian government is aiming for 15GW of BESS capacity by 2030 to maintain security of supply. The Italian government, regulator, and Transmission Service Operator (TSO) are creating an attractive regulatory environment for BESS by offering multiple incentive schemes and updating the grid code.

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