

How much battery storage capacity will Spain have in 2027?

The capacity installed in grid-scale battery storage systems in Spain is forecast to increase from 56 megawatt-hours in 2023 to approximately 5.4 gigawatt-hours in 2027. By comparison, Italy's grid-scale battery storage capacity is projected to reach up to 15 gigawatt-hours by 2027. Get notified via email when this statistic is updated.

What is Spain's battery storage market?

Spain's battery storage market is dominated by customer-sited systems. Utility-scale storage remains nascent. Currently, Spain's storage market is mainly composed of small-scale batteries co-located with solar PV. Spain's household electricity prices now stand at over EUR 0.30/kWh on average.

Does Spain need more battery storage?

This means that Spanish storage faces limited competition from cross-border flexibility. The Spanish Government have recognised the need for storage and set a target of 22GW by 2030. We expect this to be predominantly battery storage.

Are batteries a part of Spain's future energy system?

But now batteries have been acknowledged as an important part of Spain's future energy system. According to the strategy, the government wants to add large-scale batteries in the electricity system, for behind-the-meter batteries a minimum value of 400 MW for 2030 is included and vehicle-to-grid technologies should be advanced.

How long does it take a battery to charge in Spain?

In Spain, over 50% of excess renewable energy occurs in periods where there is continuous excess for less than 12 hours, i.e. a battery that chooses to charge on this energy would be able to discharge within 12 hours. This allows batteries to charge and generate within a day.

Is price arbitrage a viable business model in Spain?

Price arbitrage is not yet sufficiently attractive in Spain as a stand-alone business model.<sup>30,31,32</sup> Revenue stacking is currently not allowed.<sup>33</sup> The risks with regard to double charging remain unclear.<sup>34</sup> Capacity markets are not yet attractive for developers of storage assets in Spain.

Rolwind said the project will achieve several milestones including being the largest battery energy storage project of its kind in Spain and obtaining the first EIA awarded by MITECO to a standalone storage project.

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The roadmap follows the recent publication of Spain's Integrated National Energy and Climate Plan 2021-2030 (PNIEC), which foresees the staggered introduction of battery storage installations into the system to maximise the capacity of non-dispatchable renewable technologies.

The Elgea-Urkilla wind farm, located in Araba (Basque Country), has the first battery storage system in a wind farm in Spain. This type of storage system collects the energy produced by the wind and has an installed power of 5MW and 5 MWh of storage capacity.

AleaSoft said batteries will also firm up grids and reduce the curtailment of excess clean energy, adding that will be "essential to further boost the development of renewables," particularly in Spain.

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battery storage installed in Spain in the near future. o Spain is relatively isolated from other markets and only has limited import and export capacity to France, Portugal and Morocco. This means that Spanish storage faces limited competition from cross-border flexibility.

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