

# Average MW scale storage system price per 200MW in Spain

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.

How much energy storage will Spain have in 2024 - 2043?

Aim to ensure the effective deployment of energy storage. Spanish storage capacity from the current 8.3 GW, to 20 GW in 2030 and 30 GW in 2050. The PNIEC scenario for the hourly pool price projection calculation for the 2024 - 2043 horizon has been carried out by the Advisor based on PNIEC objectives using the software xPryce<sup>174</sup>.

Does Spain have a storage market?

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. In addition, Spain's reliance on fossil gas has increased price volatility in recent years.<sup>16,17,18,19</sup>

How much does battery storage cost in Europe?

The landscape of utility-scale battery storage costs in Europe continues to evolve rapidly, driven by technological advancements and increasing demand for renewable energy integration. As we've explored, the current costs range from EUR250 to EUR400 per kWh, with a clear downward trajectory expected in the coming years.

Will Spain achieve 20GW of storage by 2030?

In addition, Spain has developed a national storage roadmap that includes a target to achieve 20GW of storage by 2030. However, current levels of customer-sited storage adoption already exceed its 2030 targets.<sup>37</sup> To date, neither has been sufficiently attractive to mobilize investments at scale.

How many GW of hydro capacity does Spain have?

Spain operates 17 GW of hydro capacity plus 3.3 GW of pumped storage. These assets have historically provided: Seasonal energy storage in reservoirs. Asset owners optimise based on the water value, considering power prices months into the future. Pumped Hydro responds to wholesale market price signals.

As with utility-scale BESS, the cost of a residential BESS is a function of both the power capacity and the energy storage capacity of the system, and both must be considered when estimating system cost. Furthermore, the Distributed ...

This inverse behavior is observed for all energy storage technologies and highlights the importance of



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distinguishing the two types of battery capacity when discussing the cost of energy storage. Figure 1. 2019 U.S. utility-scale LIB ...



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