

# Successful bid price of gel battery storage project in Spain 2030

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.

Why are battery storage options more suitable in Spain?

As a result, shorter duration storage options like batteries are more suitable 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.

How much does a battery cost in Spain?

Spain has historically had a wholesale price floor at 0 EUR/MWh. This is now being modified to -500 EUR/MWh in line with other European markets (announced Dec 20). Although very low prices have not been prevalent in Spain to date, this should help battery returns as renewable penetration increases at pace across this decade.

Why are Spanish batteries so expensive?

Returns on Spanish batteries are influenced by wind & solar driven low priced periods and thermal & hydro driven high priced periods. Rapid growth in intermittent renewable output and retirement of thermal plants are also set to drive price volatility higher. Spain has historically had a wholesale price floor at 0 EUR/MWh.

Is combining solar and storage a good idea in Spain?

This variability, combined with Spain's excellent solar resources, make the economics of combining solar with storage increasingly favorable. The market for utility-scale batteries has been almost non-existent until recently as the market has lacked a clear policy and regulatory framework.

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.

**Overall Trend of Energy Storage Market** In terms of the Spanish energy storage market, by the end of 2022, the total Spanish energy storage market will be about 10.8GW. The government's goal is to reach 20GW of energy storage capacity ...

The choice of location determines the success of a project Every BESS project starts with a thorough market analysis. Particular attention should be paid to the selection of a suitable location, as this is crucial to the



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