

# Average residential ESS price per 2MW in Spain

What is the market energy storage in Spain?

The market energy storage in Spain, particularly in relation to the BESS systems (Battery Energy Storage Systems), is undergoing a dynamic and accelerated evolution. This transformation is driven by the growing need to integrate renewable energy sources into the electricity grid, improve supply stability and optimize energy use.

How much does an EMS system cost?

It can account for about 2% to 5% of the total system cost. Assuming an EMS cost ratio of 3% for a 2MW system with a total system cost (excluding the EMS) of \$864,000 (the sum of the battery and BMS costs), the cost of the EMS would be  $\$864,000 * 0.03 = \$25,920$ .

Why is energy storage a problem in Spain?

Despite having a clear strategy and ambitious goals in the sector of energy storage in Spain, subsidies and direct aid specific to these technologies remain limited. This creates a significant barrier for companies and individuals interested in investing in energy storage solutions.

How much does a MWh system cost?

MWh (Megawatt-hour) is a measure of energy capacity (how long the system can continue delivering that power output). For example, a 1 MW / 4 MWh BESS has four hours of storage capacity. So, while the system might be \$200,000 per MW, the effective cost can be \$800,000 per MWh if it has four hours duration.

How does Spain support the development of energy storage?

To support this growth, Spain has implemented several policies and regulations that encourage the development of energy storage. The Energy Storage Strategy 2030, promoted by the Ministry for the Ecological Transition and the Demographic Challenge, is one of the key initiatives. This strategy aims to achieve a storage capacity of 20 GW by 2030.

How much does a 2MW battery storage system cost?

In total, the cost of a 2MW battery storage system can range from approximately \$1 million to \$1.5 million or more, depending on the factors mentioned above. It is important to note that these are only rough estimates, and the actual cost can vary depending on the specific requirements and characteristics of each project.



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