

# Spanish energy storage power frequency regulation

Should energy storage be regulated in Spain?

As we mentioned in our newsletter on energy storage and its regulation published in February 2023, it is essential to continue developing the regulations on energy storage in order to contribute to a more solid legal framework for energy storage in Spain.

Why do we need battery energy storage systems in Spain?

Due to the large capacity of installed hydroelectric and thermal storage systems and the resilience of the Spanish power grid, the need for Battery Energy Storage Systems (BESS) in Spain has been relatively low. The lack of a clear regulatory framework for BESS has also hindered its development in Spain so far.

What is Spain's regulatory framework for energy storage?

Spain's regulatory framework for BESS is set in its Strategy for Energy Storage. The Strategy identifies the required regulatory measures - such as grid access, market structure, and addressing double tolling - that are currently needed to ensure the deployment of a solid energy storage market.

How much energy storage capacity does Spain have?

When it comes to installed energy storage capacity in general, Spain is one of the leading countries within Europe (see figure 2). Currently, Spain has 6.3GW of hydroelectric and 1GW of thermal storage capacity installed. In fact, the non-BESS storage capacity in Spain is higher than in any other European country.

Does Spain need a Bess energy system?

Currently, Spain has 6.3GW of hydroelectric and 1GW of thermal storage capacity installed. In fact, the non-BESS storage capacity in Spain is higher than in any other European country. As a result, the need for BESS to integrate renewable energy sources into the electricity system is less immediate than in the UK, for example.

Should electrical storage be increased in Spain?

In its report, the Spanish government also recommends "boosting electrical storage" for "increased strength and flexibility of the electrical system." (page 151; this and all subsequent quotes translated via Google Translate, in some cases with non-substantive corrections)

1 day ago&#0183; The HBD-A Series from MPMC is an all-in-one, liquid-cooled battery energy storage system, covering 100kW-1000kW with capacities from 241.2kWh-2090kWh. Applications: ?Self-consumption optimization - maximize solar energy utilization ?Peak shaving & load shifting - reduce ...

The proportion of renewable energy in the power system continues to rise, and its intermittent and uncertain output has had a certain impact on the frequency stability of the grid. Therefore, a ...

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