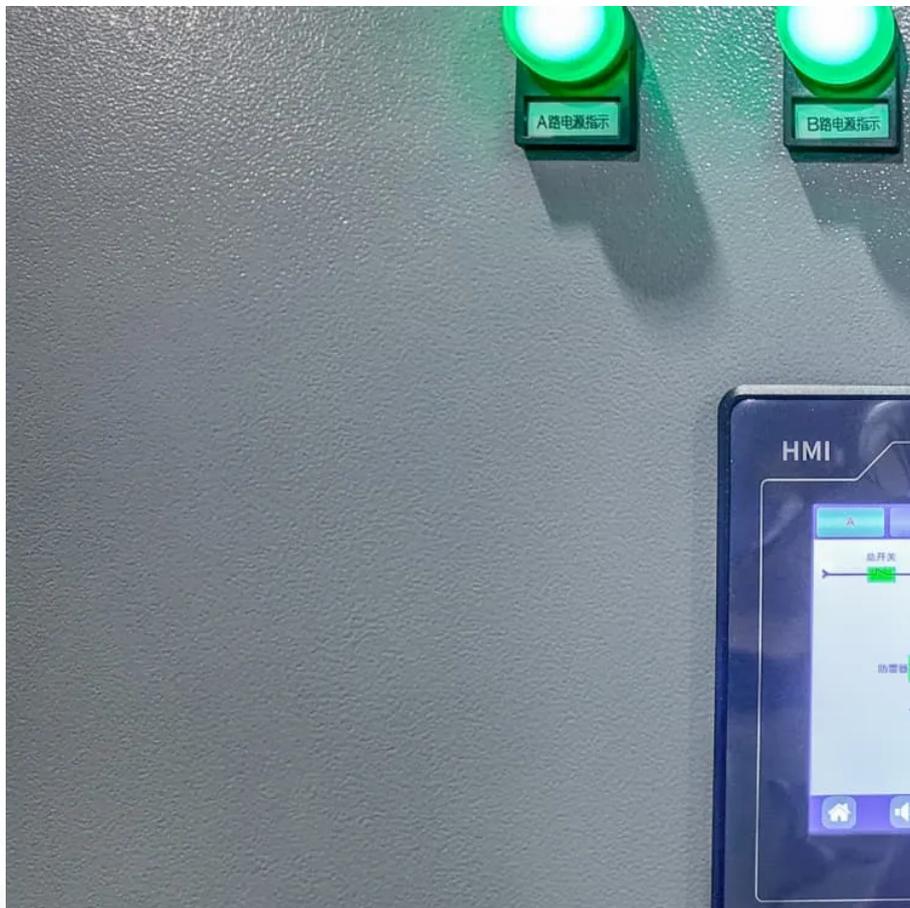


# Spain makes flywheel energy storage





## Overview

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Torus is revolutionizing the energy storage landscape with its advanced Flywheel Energy Storage System (FESS), which offers a sustainable and efficient alternative to traditional chemical batteries. Where is a flywheel energy storage system located?

Source: Endesa, S.A.U. Another significant project is the installation of a flywheel energy storage system by Red Eléctrica de España (the transmission system operator (TSO) of Spain) in the Mácher 66 kV substation, located in the municipality of Tías on Lanzarote (Canary Islands).

Are flywheel energy storage systems cost-effective?

The levelized cost of storage (LCOS) for flywheels is expected to decrease as advances in materials science and manufacturing processes are made. Fig. 23 shows the projected properties of flywheel energy storage systems for 2030, indicating improvements in cost-effectiveness and performance.

Where did flywheels come from?

Their origins can be traced back to the potter's wheel, underscoring their longstanding role in human technological development. Beyond pumped hydroelectric storage, flywheels represent one of the most established technologies for mechanical energy storage based on rotational kinetic energy.

What is a flywheel energy storage system (fess)?

To solve this problem, London-based startup Levistor has developed an innovative Flywheel Energy Storage System (FESS), which acts as a kinetic battery. This technology stores energy from the grid during periods of low demand and releases it rapidly when an EV needs a quick charge. It can deliver 100 miles of range in just five minutes.



## Spain makes flywheel energy storage

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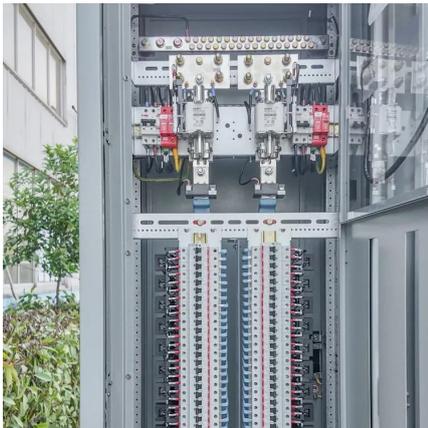
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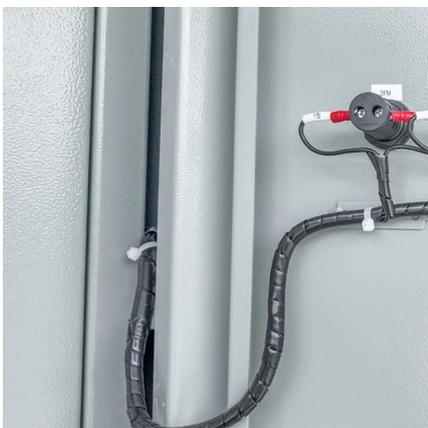


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