



BUHLE POWER

# Flywheel energy storage equipment unit price





## Overview

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Are flywheel energy storage systems economically feasible?

Equipment cost distribution for the flywheel energy storage systems. FESSs are used for short-duration power applications. Therefore, power capital cost (\$/kW) could be a useful parameter to compare the economic feasibility of energy storage systems for similar power applications.

What is the power rating of a flywheel energy storage system?

Utility-scale energy storage systems for stationary applications typically have power ratings of 1 MW or more. The largest flywheel energy storage is in New York, USA by Beacon Power with a power rating of 20 MW and 15 min discharge duration .

How much does a steel rotor flywheel cost?

The steel rotor flywheel has a lower capital cost and leveledized cost of storage. The costs of composite and steel rotor flywheels are \$190 and \$146/MWh, respectively. Flywheel energy storage systems are increasingly being considered as a promising alternative to electro-chemical batteries for short-duration utility applications.

Are flywheel energy storage systems a good alternative to electro-chemical batteries?

Electro-chemical ESSs can be used in short-duration services , but they suffer from a short lifetime and the need to dispose of toxic materials . Flywheel energy storage systems (FESSs) are a promising alternative to electro-chemical batteries for short-duration support to the grid .



## Flywheel energy storage equipment unit price



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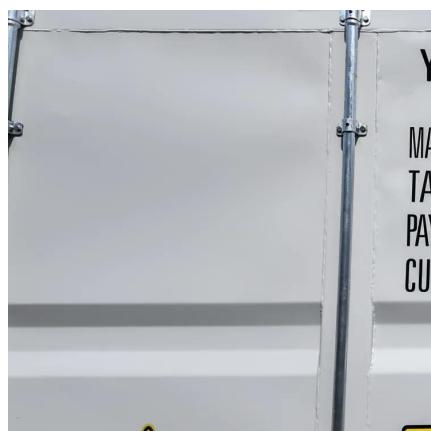
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