

ContainerPower Energy Solutions

Huawei Ireland Flywheel Energy Storage Project



Overview

Leveraging existing grid connected pilot scale battery systems in the UK and Ireland, the flywheel technology will be integrated to provide a novel hybrid solution, proving the unique energy storage system in an operational setting and laying the foundation for successful commercial exploitation by enabling maturity of the technology from TRL 6 through TRL 7 (system prototype demonstration in an operational environment) leading to achievement of TRL 8 (system complete and qualified) prior to commercialisation (TRL 9). What makes a flywheel a great energy storage system?

The flywheel is modular and offers unparalleled configurability in terms of power to energy ratio, which makes it the first dynamic energy storage system whose discharge duration can be matched exactly to the customer's needs.

Can short-duration flywheel energy storage improve grid stability?

We are optimistic about the potential in Ireland and Europe for short-duration flywheel energy storage as a key tool to help address the grid system stability impacts of leading implementation of renewable energy sources.

Who has invested in a hybrid flywheel system?

Additional investment has been received from Offaly based company, RR Projects and the European Commission, to facilitate development of Europe's first Hybrid flywheel system service facility. The Irish Transmission System Operator, EirGrid, selected this project as a potential "Demonstration Project" under its Smart Grid Program.

What is flywheel technology?

Flywheel technology produces and stores small but highly flexible amounts of power to suit grid requirements.

Is flywheel technology a '100% clean' power source?

Frank Burke, Schwungrad Technical Director, with extensive industry experience and who was involved in the early development of system services, says: “Flywheel technology has the advantage of being a ‘100% clean’ power source as the hybrid technology has no direct fuel use or related emissions, and no water consumption.

Who announced Europe's first grid connected hybrid flywheel system service facility?

Europe’s first grid connected Hybrid flywheel system service facility was today (Thursday March 26 th) officially announced by Ged Nash, TD, Minister of State at the Department of Jobs, Enterprise and Innovation

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