

SolarTech Power Solutions

Irish Micro-Controlled Flywheel Energy Storage Company



Overview

Irish company Schwungrad Energie Limited is behind the initiative which will be based in Rhode, Co. Offaly and is being developed in collaboration with the Department of Physics & Energy at University of Limerick. What is flywheel energy storage?

It has received the support of Beacon Power, LLC, a US based company and global leader in the design, development and commercial deployment of proven flywheel energy storage technology at the utility scale. Flywheel technology produces and stores small but highly flexible amounts of power to suit grid requirements.

What was the first grid connected hybrid powered flywheel plant in Ireland?

The project involved developing and establishing the first grid connected Hybrid Powered Flywheel plant in Ireland. The plant comprised grid connected hybrid powered flywheels and battery technology. The fast responding plant was designed to allow energy to be transferred from the electricity grid system during period of low demand.

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 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.

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.

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Ireland home of First Hybrid-Flywheel Energy Storage Plant in ...

Apr 12, 2015 · 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 ...

Optimal design of micro flywheel energy storage system

Nov 17, 2008 · We have designed a micro flywheel energy storage system in which the flywheel stores electrical energy in terms of kinetic energy and converts this kinetic energy into ...



Ireland pilots hybrid flywheel battery system

Oct 29, 2018 · A 'hybrid flywheel battery' system has started operation in Ireland as part of a pilot system service project. Peter Duffy, president of the Irish ...

Fast Response Flywheel Energy Storage Technology for ...

Aug 31, 2018 · The continued expansion of renewable energy sources like wind power and photovoltaics is gradually reducing short and long-term grid stability, especially as more and ...



Top Flywheels companies , VentureRadar

Beacon Power we are committed to providing utilities and system operators the best flywheel-based energy storage resources to help maintain a reliable, cost-effective and stable power grid.



A comprehensive review of Flywheel Energy Storage System ...

Jan 1, 2017 · Abstract Energy storage systems (ESSs) play a very important role in recent years. Flywheel is one of the oldest storage energy devices and it has several benefits. Flywheel ...



First Hybrid Energy



Product Model
HJ-ESS-215A(100KW/215KWh)
HJ-ESS-115A(50KW/115KWh)

Dimensions
1600*1280*2200mm
1600*1200*2000mm

Rated Battery Capacity
215KWH/115KWH

Battery Cooling Method
Air Cooled/Liquid Cooled



Storage Plant To Be Developed In Ireland

May 14, 2015 · Irish firm Schwungrad Energie has announced that the first Hybrid flywheel energy storage plant is to be developed in Ireland. It is being developed in collaboration with the ...

10 New Energy Storage Companies , StartUs Insights

Jan 31, 2025 · Gain data-driven insights on energy storage, an industry consisting of 14K+ organizations worldwide. We have selected 10 standout innovators from 2.8K+ new energy ...

Our Lifepo4 batteries can beconnected in parallels and in series for larger capacity and voltage.



 **LFP 280Ah C&I**

Two become one: Siemens Energy combines two ...

Oct 17, 2023 · Siemens Energy will deliver the first-ever hybrid grid stabilization and large-scale battery storage plant at Shannonbridge in Ireland. This is the first time, these two technologies ...

A Flywheel Energy Storage

System Based on a Doubly Fed ...

Flywheel is a promising energy storage system for domestic application, uninterruptible power supply, traction applications, electric vehicle charging stations, and even for smart grids. In ...



Coordinated Control of Flywheel and Battery Energy Storage ...

Apr 10, 2025 · Due to the inherent slow response time of diesel generators within an islanded microgrid (MG), their frequency and voltage control systems often struggle to effectively ...

A review of flywheel energy storage systems: state of the art ...

Feb 1, 2022 · Energy storage systems (ESS) play an essential role in providing continuous and high-quality power. ESSs store intermittent renewable energy to create reliable micro-grids ...



Which Company is Leading the Flywheel Energy



Storage ...

Sep 22, 2023 · Flywheel Energy Storage 101: The Spin Doctors of Clean Energy
Imagine a marathon runner who never gets tired--that's essentially what flywheel energy storage ...

Flywheel storage option for Ireland

May 27, 2011 · LOW-COST ENERGY: IRISH wind energy storage company Gaelectric has signed a collaboration and development agreement with US flywheel energy storage firm Beacon ...



Ireland home of First Hybrid-Flywheel Energy Storage Plant in ...

Apr 12, 2015 · It has received the support of Beacon Power, LLC, a US based company and global leader in the design, development and commercial deployment of proven flywheel ...

Top 10 flywheel energy storage manufacturers in ...

...

4 days ago · Flywheel energy storage is widely used in electric vehicle batteries, uninterruptible power supplies, uninterrupted power supply of wind power ...



Flywheel-battery hybrid system installed in ...

Apr 1, 2016 · A flywheel-battery hybrid storage system has been installed in Ireland, a system that the companies involved claim is the first of its kind. The ...

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