

**Espay Solar Energy S.L.**

# **Flynn Sea Energy Storage System**



## Overview

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The Stored Energy at Sea (StEnSEA) project is a pump storage system designed to store significant quantities of electrical energy offshore. After research and development, it was tested on a model scale in November 2016. It is designed to link in well with offshore wind platforms and their issues caused by electrical production fluctuations. It works by water flowing into a container, at significant pressure, thus driving a turbine. When there is spare electricity the water is pumped out, allowing electricity to be gen.

## Flynn Sea Energy Storage System



### Undersea Spheres: The Future of Grid-Scale Energy Storage?

The institute's Stored Energy in the Sea (StEnSea) project is working on deploying ocean floor-anchored hollow concrete spheres off the coast of Long Beach, California, that can store and ...

### Stored Energy in the Sea

In this essay, we explain the basic working principle of this storage system and highlight the advantages of a combination with an offshore wind farm in one of the wind energy areas in California.



Lower cost  
larger system

Verified Supplier

20Kwh

30Kwh



### Saving Energy using Flywheels , Texas ECE

ECE researcher Dr. Mark Flynn is greening ports world-wide by adding flywheels to cargo handling machinery. Flynn's high-speed motor controller design has been incorporated into ...

### Buoyancy Energy Storage Technology: An energy storage

## solution for

A novel energy storage solution with little material intensity and environmental impact.



50KW modular power converter



## Development and prospect of flywheel energy storage technology: A

FESS technology originates from aerospace technology. Its working principle is based on the use of electricity as the driving force to drive the flywheel to rotate at a high speed and store ...

## Subsea Energy Storage System

With our new subsea energy storage system, based on our membrane-based storage solution for oil and chemicals, you can now store liquid clean energy, such as ammonia or e-methanol, directly on the ...



## Critical Review of Flywheel Energy Storage System

This review presents a detailed summary of the latest technologies used in

flywheel energy storage systems (FESS). This paper covers the types of technologies and systems employed ...



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## Stored Energy at Sea

Overview  
Development history  
Physical principle  
Potential installation sites  
Economic assessment of StEnSea  
Media coverage

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## Underwater Ocean Energy Storage

Ocean energy storage is a novel way of storing energy for later use. Learn more about these underwater devices and how they work.



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