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Flynn Sea Energy Storage System

Overview

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

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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.

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Stored Energy at Sea

OverviewDevelopment historyPhysical principlePotential installation sitesEconomic assessment of StEnSeaMedia coverage

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Stored Energy at Sea

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