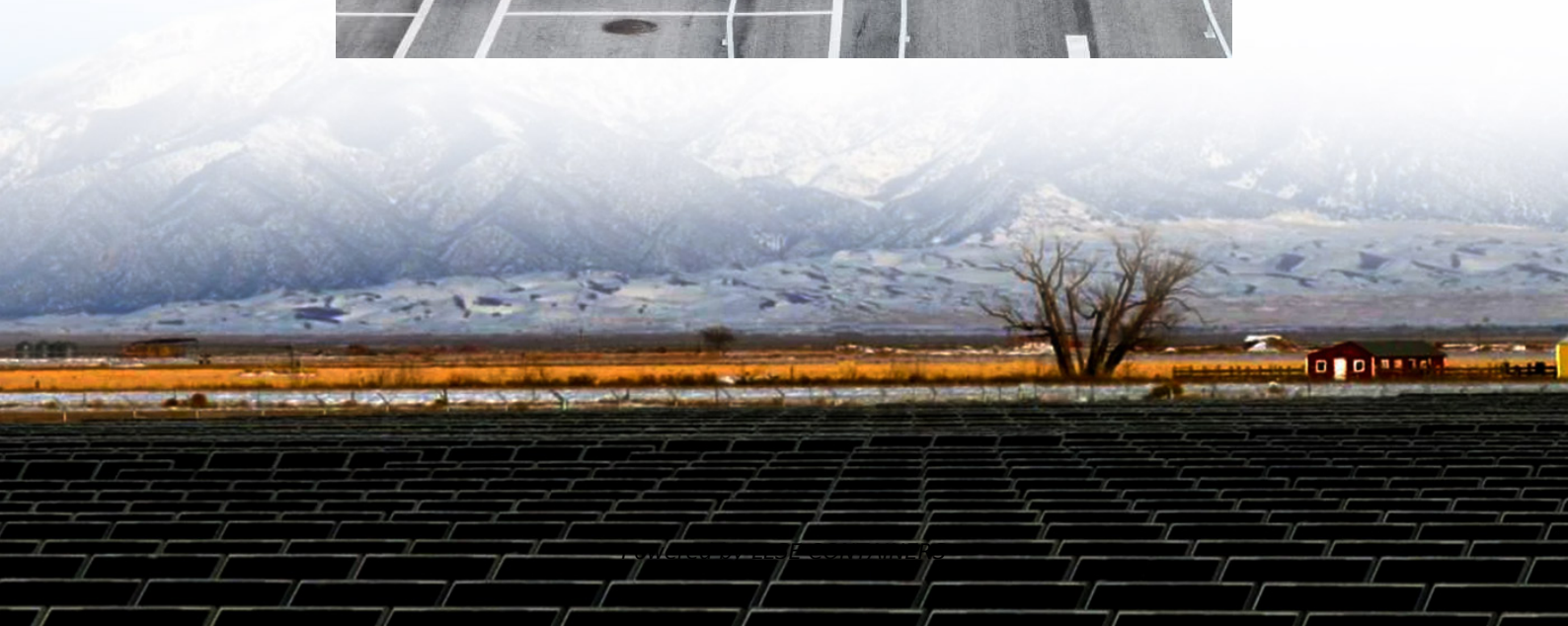
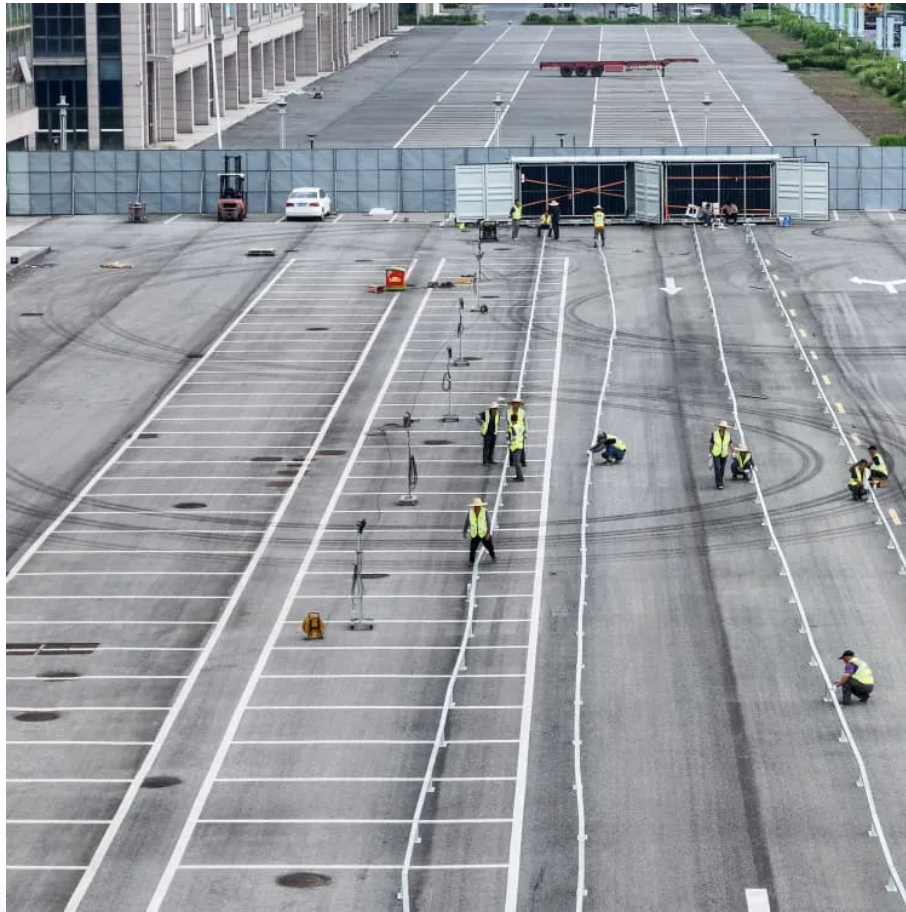


# Offshore wind power supporting energy storage power station





## Overview

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Can energy storage technologies be used in an offshore wind farm?

Aiming to offer a comprehensive representation of the existing literature, a multidimensional systematic analysis is presented to explore the technical feasibility of delivering diverse services utilizing distinct energy storage technologies situated at various locations within an HVDC-connected offshore wind farm.

Are secondary and flow battery technologies necessary for offshore wind farms?

Techno-economically feasible secondary and flow battery technologies are required to enable future offshore wind farms with integrated energy storage. The natural intermittency of wind energy is a challenge that must be overcome to allow a greater introduction of this resource into the energy mix.

Can energy storage systems be deployed offshore?

The present work reviews energy storage systems with a potential for offshore environments and discusses the opportunities for their deployment. The capabilities of the storage solutions are examined and mapped based on the available literature. Selected technologies with the largest potential for offshore deployment are thoroughly analysed.

Are energy storage systems a viable alternative to a wind farm?

For this purpose, the incorporation of energy storage systems to provide those services with no or minimum disturbance to the wind farm is a promising alternative.



## Offshore wind power supporting energy storage power station

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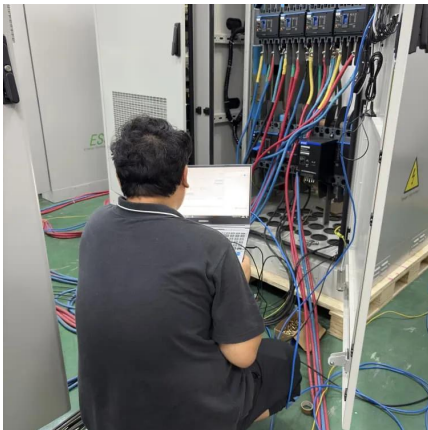


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