



BUHLE POWER

Off-grid protocol for mobile energy storage containers used on oil platforms





Overview

What technologies are suitable for offshore oil and gas platforms?

Offshore oil and gas platform Technology suitability assessment Energy storage Supercapacitors Lithium-ion batteries Flywheels Superconducting magnetic energy storage Abbreviations DFIM Doubly fed induction machine ELDC Electrostatic double layer capacitor ES Energy storage ESR Equivalent series resistance FC Fuel cell GT.

Can high-power energy storage systems be used in isolated power systems?

This paper presents a technology suitability assessment (TSA) of high-power energy storage (ES) systems for application in isolated power systems, which is demonstrated through the case of offshore oil and gas platforms (OOGPs).

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.

What is a battery energy storage system (BESS) container?

Battery Energy Storage System (BESS) containers are a cost-effective and modular solution for storing and managing energy generated from renewable sources.



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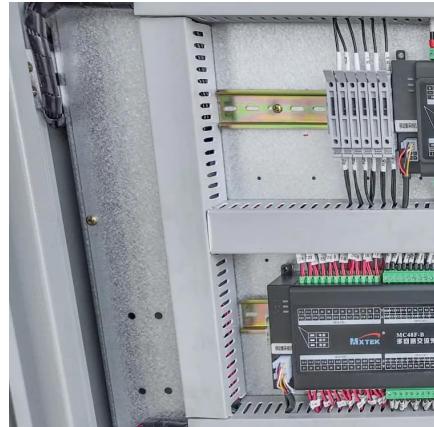


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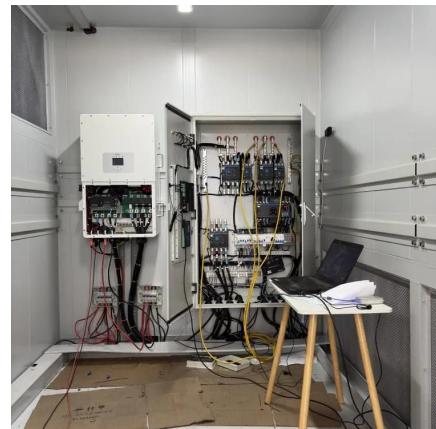


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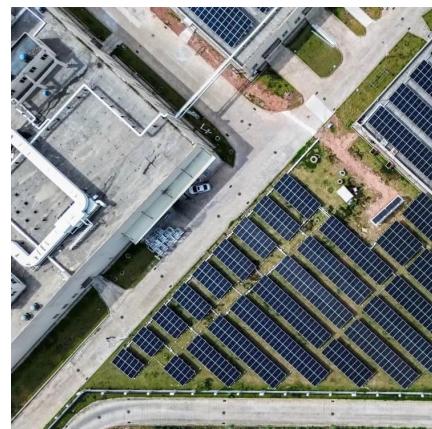
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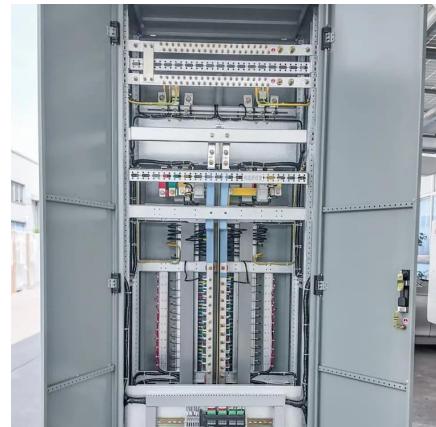
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