

Smart Orders for Mobile Energy Storage Containers for Oil Platforms





Overview

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 an.

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.

Are smart oil platforms a pillar of a new era?

In a context where operational efficiency, safety, and sustainability have become fundamental pillars of the energy sector, smart oil platforms are emerging as the protagonists of a new era in the offshore industry.

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).

What is an integrated energy management system for an offshore microgrid?

5. Conclusion This work introduced an integrated energy management system for an offshore microgrid comprising three petroleum platforms, a floating wind farm, and a setup for green hydrogen production and storage. Two of the platforms housed seven aero-derivative gas turbines, providing power and heat.



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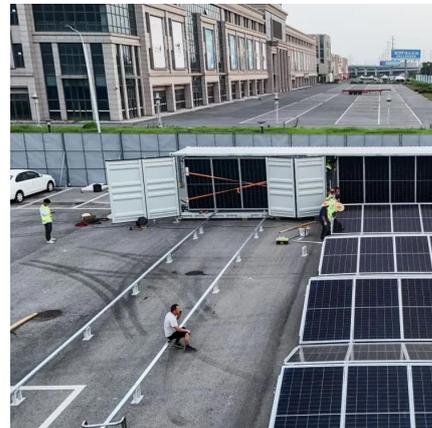


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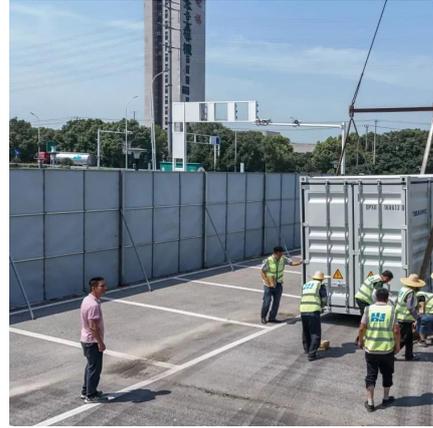


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