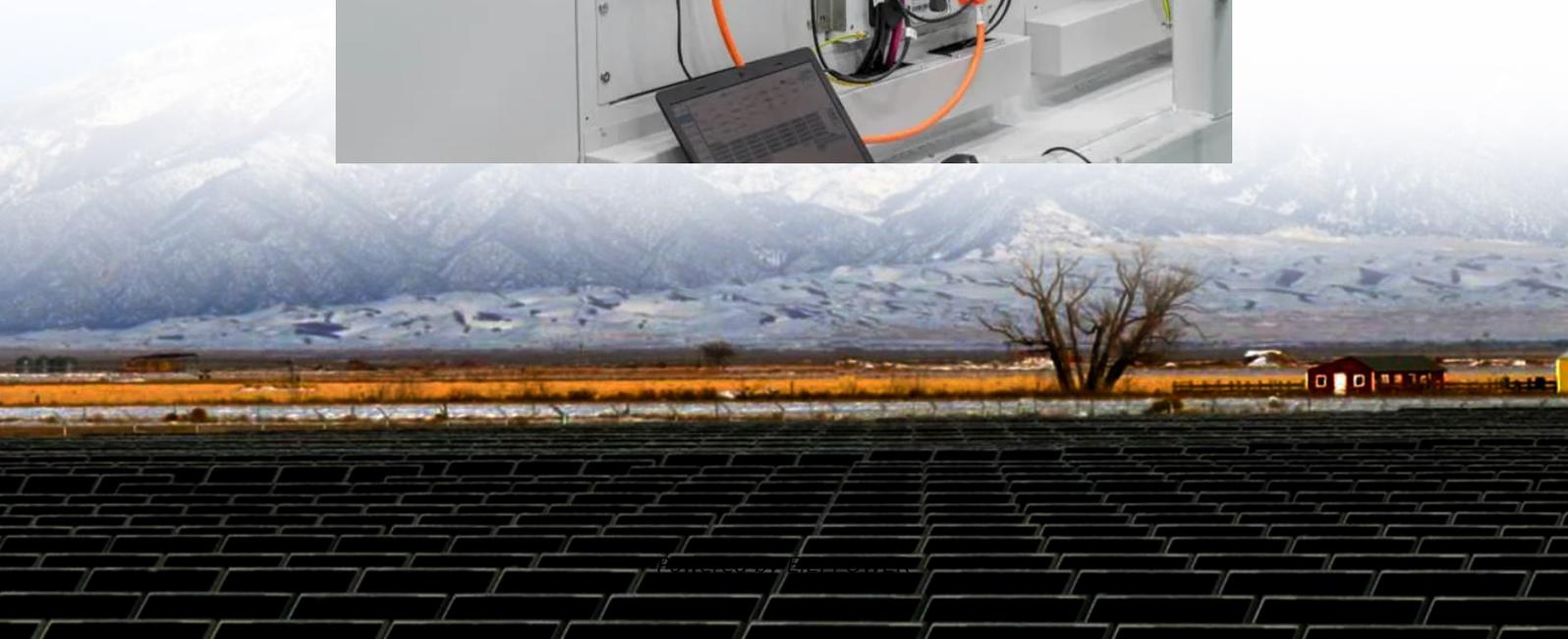


Hybrid Energy Storage Containers for French Drilling Sites





Overview

What is a hybrid drilling solution?

Low operating costs are crucial for land drilling companies. Hybrid drilling solutions utilize battery energy storage systems (BESS) to efficiently manage power generation asset utilization. The result is significantly lower operating costs. Download the following use case and learn how you can:.

Which rigs have energy storage systems for onshore drilling?

The energy storage system developed for onshore drilling is among the world's first ones. As a foreign analog, only the project of the German rig manufacturer Bentec implemented in Oman can be highlighted. In 2017, the container-type 0.9 MW Bentec ESS with a storage capacity of 0.3 MW was put into trial operation on the KCA Deuteg T-94 rig.

Can electric energy storage be used for drilling based on electric-chemical generators?

The article outlines development of an electric energy storage system for drilling based on electric-chemical generators. Description and generalization are given for the main objectives for this system when used on drilling rigs isolated within a single pad, whether these are fed from diesel gensets, gas piston power plants, or 6–10 kV HV lines.

Can a hybrid energy accumulation system be integrated into a rig power circuit?

The efficiency of using a hybrid energy accumulation design is proven; the design calls for joint use of Li-ion cells and supercapacitors, as well as three-level inverters, to control the storage system. The article reviews all possible options for connecting the system into a unified rig power circuit, and the optimum solution is substantiated.



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