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# Mobile Energy Storage Container Hybrid for Drilling Sites

Which Jack-up drilling rigs have a hybrid power plant?

Siemens Energy signed an agreement with Maersk Drilling to upgrade two ultra-harsh environment CJ70 jack-up drilling rigs in the North Sea with hybrid power plants using lithium-ion energy storage. The rigs - the Maersk Intrepid and Maersk Integrator- were retrofitted with BlueVault(TM) batteries from Siemens Energy.

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 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.

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.

Caterpillar Oil & Gas announced the launch of the Cat Hybrid Energy Storage Solution to help drillers and operators cut fuel consumption, lower total cost of ownership ...

THE SOLUTION To tackle the challenges of fuel inefficiency and increased diesel consumption in drilling operations, we implemented a hybrid solution that integrates generator ...

Energy storage systems are an important component of the energy transition, which is currently planned and launched in most of the developed and developing countries. ...

MOBIPower hybrid clean power containers combine battery energy storage systems with off-grid solar containers for remote industrial sites in Canada & USA.

Renewable Energy Projects: Storing excess energy generated by solar or wind farms. Oil & Gas Operations: Off-grid power supply for remote drilling and production sites. ...

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