
Long-lasting Dakar energy storage containers for drilling sites

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 electric energy storage systems be used for drilling rigs?

The work to develop electric energy storage systems for drilling rigs has been underway worldwide for the last 5 years, however, mainly targeting isolated offshore rigs.

Why do drilling rigs need a permanent energy source?

An energy source permanently integrated into the rig circuit will allow drilling contractors to compensate for voltage dips and surges, which will reduce emergency shutdowns and downtime of drilling equipment (Chervonchenko and Frolov 2020), minimize drilling hazards, and improve the DPS operation stability.

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However, the intermittent nature of renewable power, calls for substantial energy storage. Pumped storage hydropower is the most dependable and widely used option for large-scale ...

Acknowledgments The Department of Energy Office of Electricity Delivery and Energy Reliability Energy Storage Program would like to acknowledge the external advisory ...

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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. ...

Moroccan energy and petroleum distributor Akwa Group has successfully launched an oil storage facility in Bargny-Sendou, Senegal, approximately 30 kilometers from Dakar, featuring natural ...

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The findings of this study can help to better understand which type of storage system is the most efficient for energy systems with temporary high load peaks, like drilling rigs.

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