

NKOSITHANDILEB SOLAR

Long-life energy storage containers for drilling sites



Overview

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.

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.

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.

Which rigs use lithium-ion energy storage?

The solution has been installed on various marine vessels worldwide, including the West Mira ultra-deep semi-submersible, the world's first low-emissions drilling rig to use lithium-ion energy storage.

Long-life energy storage containers for drilling sites

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.

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.

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.

The solution has been installed on various marine vessels worldwide, including the West Mira ultra-deep semi-submersible, the world's first low-emissions drilling rig to use lithium-ion energy storage.

THE SOLUTION Precision ofers an energy solution that uses battery energy storage and engine automation to reduce the number of generators operating while improving ...

The findings of this study can help to better understand which type of storage system is the most efficient for energy systems with ...

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 ...

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 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.

Caterpillar Oil & Gas announced the launch of the Cat Hybrid Energy Storage Solution to help drillers and operators cut fuel ...

to existing drilling rig and future new builds. In addition, the energy storage solution has dem The flywheel energy storage system (FESS) offers a fast dynamic response, high power and ...

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. ...

By harnessing the capabilities of the Battery Energy Storage System, drilling rigs gain the flexibility to run with fewer engines or at lower engine loads. This adaptability optimizes energy ...

Keywords: Energy transition, Energy storage, Offshore energy The ongoing energy transition from carbon-based sources of energy towards renewables requires balancing of the ...

Lithium-ion limitations spur the search for Long-Duration Energy Storage (LDES). CAES and its variants offer safer, scalable solutions for grid reliability.

Energy Storage Vessel (TM) The industry's most durable, safe, and versatile building block for grid-scale and C& I energy storage applications Based on proven technology used by NASA for ...

Contact Us

For catalog requests, pricing, or partnerships, please contact:

NKOSITHANDILEB SOLAR

Phone: +27-11-934-5771

Email: info@nkosithandileb.co.za

Website: <https://www.nkosithandileb.co.za>

Scan QR code to visit our website:

