

Drilling energy storage device operation video

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.

How can energy storage improve land drilling operations?

Overall, energy storage solutions integrated with natural gas, dual-fuel, or diesel technology can reinvent land drilling operations by lowering fuel costs, maximizing capital efficiency, and meeting lower emissions regulations. This hybrid system is a significant reduction in the total cost of ownership for drilling contractors and operators.

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.

Do drilling rigs have power operating modes?

The article studies power operating modes of drilling rigs, provides general conclusions and detailed results for one of more than fifty pads. Based on the research, a generic architecture of the energy storage module is developed, and an engineering prototype is built.

How can a drill rig reduce energy costs?

Another way to reduce the energy costs of a rig is to accumulate and reuse the power generated by the DW drives when lowering a drill string. Currently, this energy is dissipated on the braking resistors on all rigs.



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