

**BLINK SOLAR**

# Mobile Energy Storage Container Hybrid for Drilling Sites



## Overview

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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™ 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 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 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.

## Mobile Energy Storage Container Hybrid for Drilling Sites

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### **MOBIPOWER Battery Energy Storage Systems , Off-Grid Solar Container**

MOBIPOWER hybrid clean power containers combine battery energy storage systems with off-grid solar containers for remote industrial sites.

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### **Hybrid Container Systems Combining Storage and Renewable Energy**

Hybrid container systems are modular units that combine energy storage technologies, such as batteries, with renewable energy sources like solar or wind power. Designed for flexibility, they

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### **MOBIPOWER Battery Energy Storage Systems ...**

MOBIPOWER hybrid clean power containers combine battery energy storage systems with off-grid solar containers for remote industrial ...



## Containerized Energy Storage: Scalable, Flexible, and ...

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. ...



## Highvoltage Battery



## Hybrid E-Drilling Solutions

Minimizing energy costs is essential to operating a profitable drilling operation. mtu EnergyPacks offer a scalable hybrid E-drilling solution that allows you to optimize load profiles and add ...

## What is Mobile Solar Power Container

A Mobile Solar Power Container is a self-contained, transportable solar energy system built into a shipping container or customized enclosure. Designed for flexibility, rapid ...



## Energy storage systems for drilling rigs , Journal of ...

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. ...

## HYBRID DRILLING FOR REDUCED OPERATING COSTS ...

HYBRID DRILLING FOR REDUCED OPERATING COSTS AND A LOWER ENVIRONMENTAL FOOTPRINT HYBRID DRILLING FOR REDUCED OPERATING COSTS ...



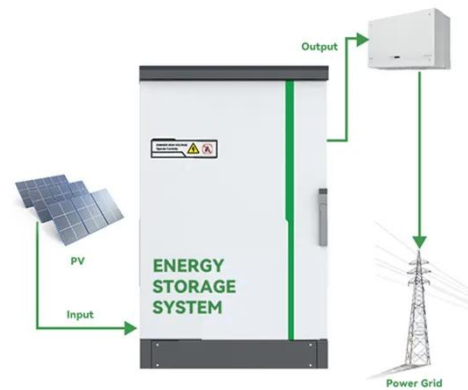
## Mobile Energy Storage: Power on the Go

In an era increasingly dependent on portable technology and renewable energy, mobile energy storage ...

## Energy storage and energy planning for construction sites

The Liduro Power Port (LPO) is an energy storage system for power supply on

construction sites. It allows for locally emission-free operation and charging of hybrid or fully ...



- 100KWH/215KWH
- LIQUID/AIR COOLING
- IP54/IP55
- BATTERY 6000 CYCLES

### Production and consumption planning of drilling rig ...

Optimizing the production and consumption of drilling rigs by implementing a hybrid system and energy storage.

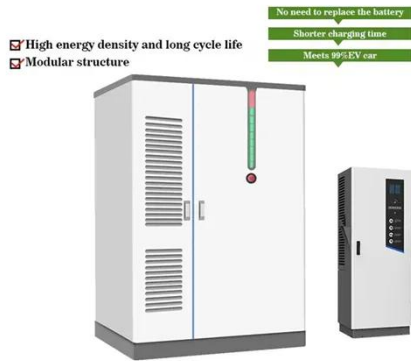
### Caterpillar Oil & Gas launches battery storage ...

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



### Mobile Solar Panels and Diesel Engine Hybrid Power ...

This paper presents the design, deployment, and performance



evaluation of a mobile solar-diesel hybrid energy system deployed by an onshore oil and gas Operator in the ...

### Caterpillar Oil & Gas launches battery storage system to ...

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 ...



### Siemens Energy delivers energy storage solution for Maersk Drilling...

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 ...

### Mobile Energy Storage System for Drilling

The mobile energy storage system for drilling mainly consists of liquid-cooled

battery compartment, energy storage  
inverter, ...



### Container Energy Storage System Brochure

In applications, such as construction sites, where usually generators are oversized, damaging engines due to low loads, a ZBC can support them as a booster. Peak shaving ...

### Caterpillar Oil & Gas launches battery storage system to ...

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 ...



### Hybrid Mobile Energy Storage System Container Type Solar ...

Unfold the Future of Energy : Introducing AVO's Solar PV Container - a cutting-

edge, all-in-one photovoltaic system designed to deliver reliable, eco-friendly power anytime, anywhere. ...



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## Contact Us

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

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