Hybrid type of mobile energy storage container used at drilling sites in Thailand

What is a hybrid drilling solution?
Low operating costs are crucial for land drilling companies. Hybrid drilling solutions utilize battery energy storage systems(BESS) to efficiently manage power generation asset utilization. The result is significantly lower operating costs. Download the following use case and learn how you can:

What is a hybrid energy storage module?
Based on the research, a generic architecture of the energy storage module is developed, and an engineering prototype is built. 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.

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 optionsfor connecting the system into a unified rig power circuit,and the optimum solution is substantiated.

The high energy density of batteries and the high power density of supercapacitors stimulated hybrid supercapacitors by combining a battery-type electrode with a capacitive ...

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

Battery energy storage systems are transforming the power supply sector by becoming the heart of energy efficient solutions. They are used in off-grid applications or to ...

Trinasolar brings to Thailand a full suite of PV and storage offerings, fresh from its global showcase at SNEC 2025 in Shanghai, the world''s largest solar expo. Highlights include ...

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 ...

What is Container Energy Storage? Container energy storage, also commonly referred to as containerized energy storage or container battery storage, is an innovative ...

The above project is only one example of BESS energy storage projects completed by SCU. In Southeast Asian countries, ...

The complement of the supercapacitors (SC) and the batteries (Li-ion or Lead-acid) features in a hybrid energy storage system (HESS) allows the combination of energy-power ...

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. ...

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.

The first manufacturer is important to preserve the durability and lifespan of the battery, while the second one emphasizes ease of use ...

The above project is only one example of BESS energy storage projects completed by SCU. In Southeast Asian countries, there're more than 1000+ ESS sites in good ...

Some energy storage systems such as pumped hydro storage have existed, but, their large size of such facilities limited potential installation sites, and the energy/utilization ...

Use case: Achieving peak efficiency with hybrid drilling Cut operating costs by up to 26% Low operating costs are crucial for land drilling companies. Hybrid drilling solutions utilize battery ...

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