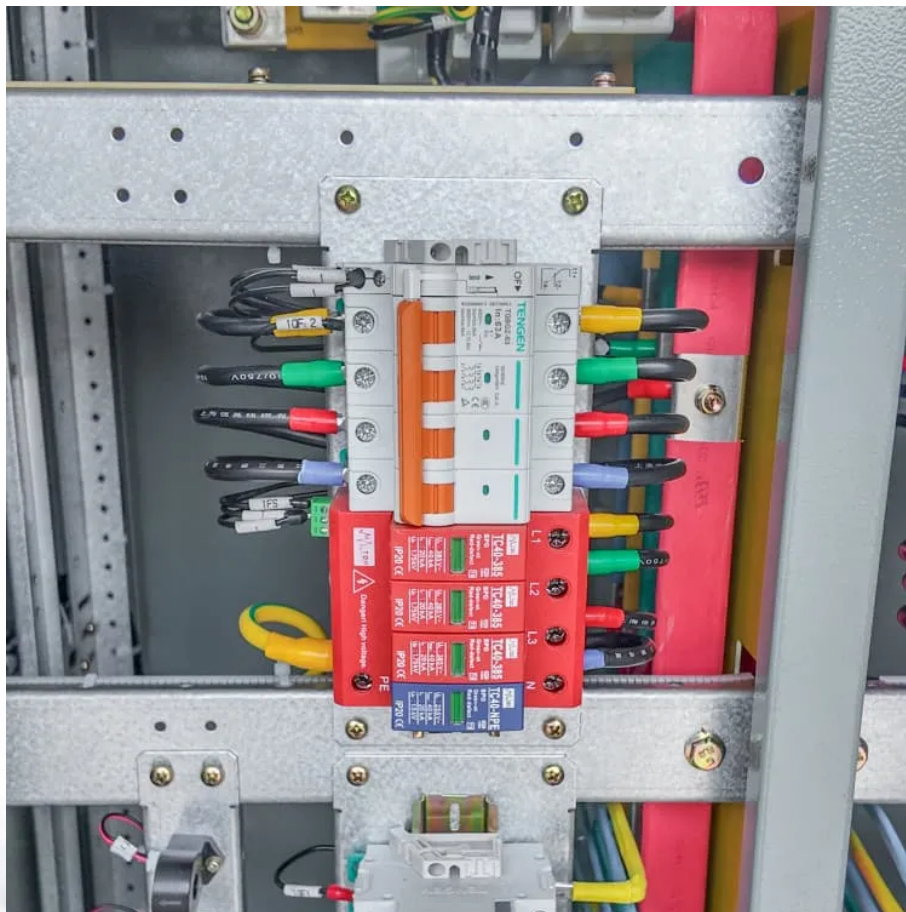


Off-grid mobile energy storage container for Sudanese oil refineries





Overview

- Mobile energy storage technologies are summarized.••.

What is energy storage container?

SCU uses standard battery modules, PCS modules, BMS, EMS, and other systems to form standard containers to build large-scale grid-side energy storage projects.

How can oil refineries transition to a low carbon future?

Given the urgency to transition to low carbon future, oil refineries need to identify feasible strategies for decarbonisation. One way to address this is by integrating renewable energy systems. However, the high initial costs and intermittency appeared to be the key barriers for the adoption of renewable energy technologies.

What is a mobile energy storage system?

On the construction site, there is no grid power, and the mobile energy storage is used for power supply. During a power outage, stored electricity can be used to continue operations without interruptions. Maximum safety utilizing the safe type of LFP battery (LiFePO₄) combined with an intelligent 3-level battery management system (BMS);.

Where are excess energy products stored?

Excess energy products including hydrogen and electricity are generated to be stored in compressed hydrogen gas storage and batteries during periods of low demand. The excess products are directed to be stored in energy storage systems that have greater energy storage efficiency.



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