

# 10kW St George Mobile Energy Storage Container for Drilling Sites





## Overview

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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.

Where is harvested energy stored?

Harvested energy is stored in Lithium LiFePO<sub>4</sub> battery banks with its own programmed BMS (Battery Management System).

What is a two-container energy storage system?

Scalable for Demanding Projects: Compact two-container design enables large-scale energy storage for the toughest environments, providing flexibility and enhanced load management. Reduce emissions and generator runtime by storing unused energy in batteries until it's required.

Can electric energy storage systems be developed 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 plants, or 6–10kV HV lines. The article studies power operating modes of drilling rigs, provides general conclusions and



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[\(PDF\) Energy storage systems for drilling rigs](#)

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.

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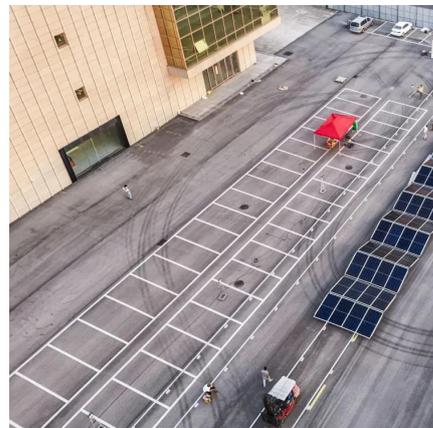
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