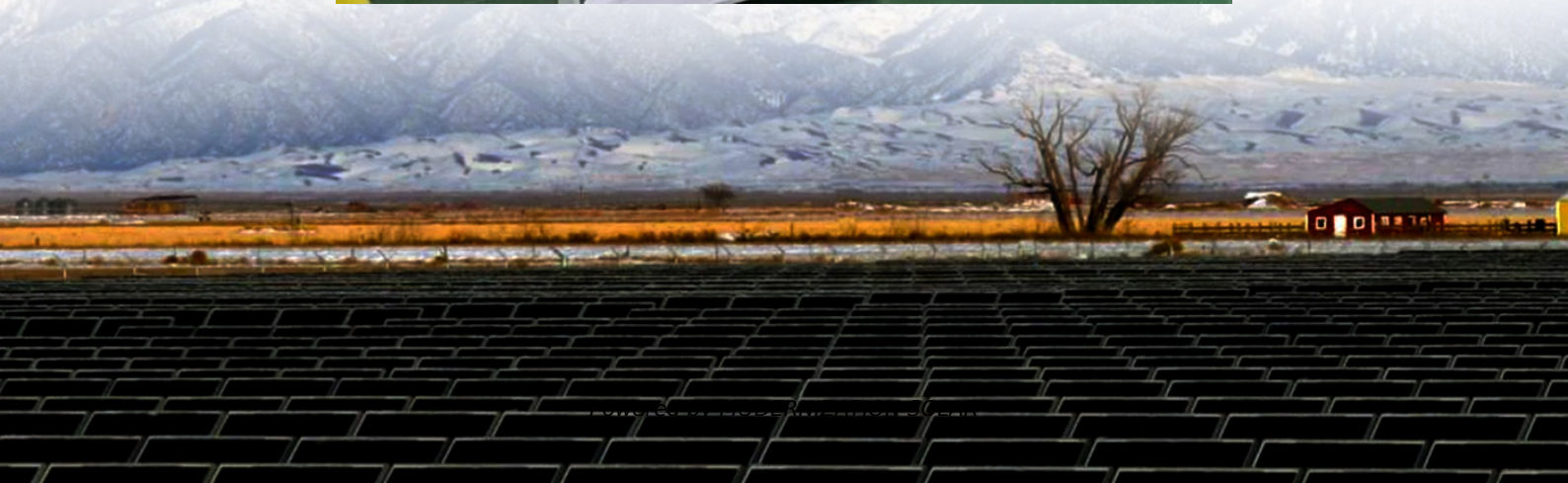


Innovation in uninterrupted power supply maintenance for base station rooms





Overview

In this article, an algorithm for automatic control of energy sources was developed to improve the uninterrupted power supply of mobile communication base stations. Can batteries be used in power supply systems of autonomous special-purpose facilities?

Abstract: Ensuring continuity and reliability in the power supply systems of autonomous special-purpose facilities is an urgent task. A promising solution is the use of the latest types of batteries in the power supply systems of such facilities based on static uninterruptible power supplies.

Do static uninterruptible power supplies provide complete independence from external power supply?

The aim is to develop power supply systems using static uninterruptible power supplies (UPS) based on fully controlled current inverters. Analysis of the existing power supply systems showed the imperfection of such schemes and does not provide complete independence of the facilities from external power supply.

Why do mobile network operators face frequent power supply failures at BTS sites?

Mobile network operators (MNOs) face frequent power supply failures at BTS sites, leading to revenue loss and increased operational expenditure (OPEX). Despite their critical role, BTSs face significant operational challenges due to vulnerabilities in their power supply. These disruptions can arise from various external and internal sources .

Why do we need a power supply system for remote objects?

Both types of sources are currently used in power supply circuits for remote objects. The importance of the task is to ensure the reliability of power supply, which is ensured when using modern types of batteries and diesel generator sets can be completely excluded from the power supply scheme.



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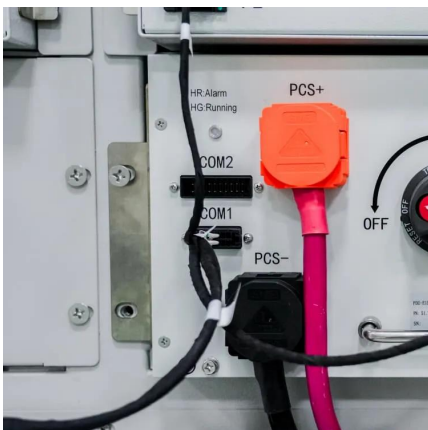


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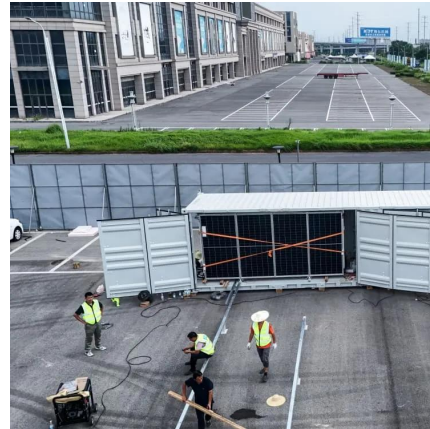
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