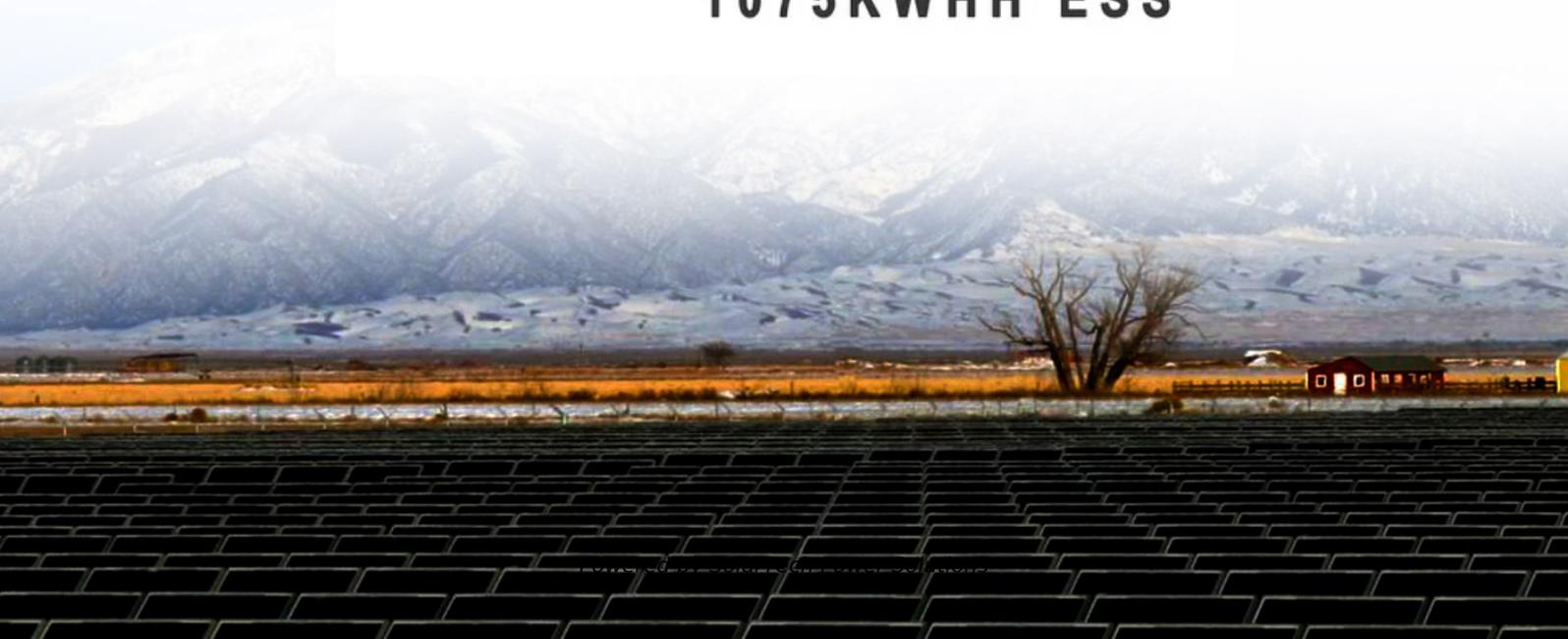


SolarTech Power Solutions

Mobile rural base station communication



1075KWHH ESS



Overview

Can BSS serve mobile users in a given geographical area?

The proposed optimization model for locating BSs to serve mobile users in a given geographical area is presented in Section 3. In Section 4, experimental results are provided for two scenarios that cover Cases A and B. Finally, concluding remarks with possible future extensions are provided in Section 5.

How can managed service providers improve rural connectivity?

Managed service providers, such as those supported through the GSMA Innovation Fund for Rural Connectivity, can successfully bring together different innovations. If scaled, they have the potential to reduce the TCO of providing connectivity in rural areas and to expand rural connectivity.

What is connecting rural areas?

Connecting rural areas is a collaborative effort requiring the participation of all stakeholders to make it successful and scalable, including MNOs, governments, service providers and investors.

How to optimize the location of BSS in wireless communication networks?

Some studies optimize the location of BSs in wireless communication networks through exact solution approaches such as mixed integer linear programs (MILP) and algorithmic approaches , , .

Why do we need additional base stations?

Hence, additional base stations (BSs) may be needed to satisfy the new demand. This case addresses the application of dynamic permanent demand for service such as establishing a new residential area over several time periods where new demand clusters are created in each time period as the residential area expands.

How can we reduce the complexity of rural sites?

Minimising the complexity of rural sites by implementing simple, repeatable and predictable site deployments; standardising the necessary equipment where relevant; and streamlining deployment processes, all of which help to reduce the cost and time of site deployment while also ensuring the quality of construction and installation is consistent.

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