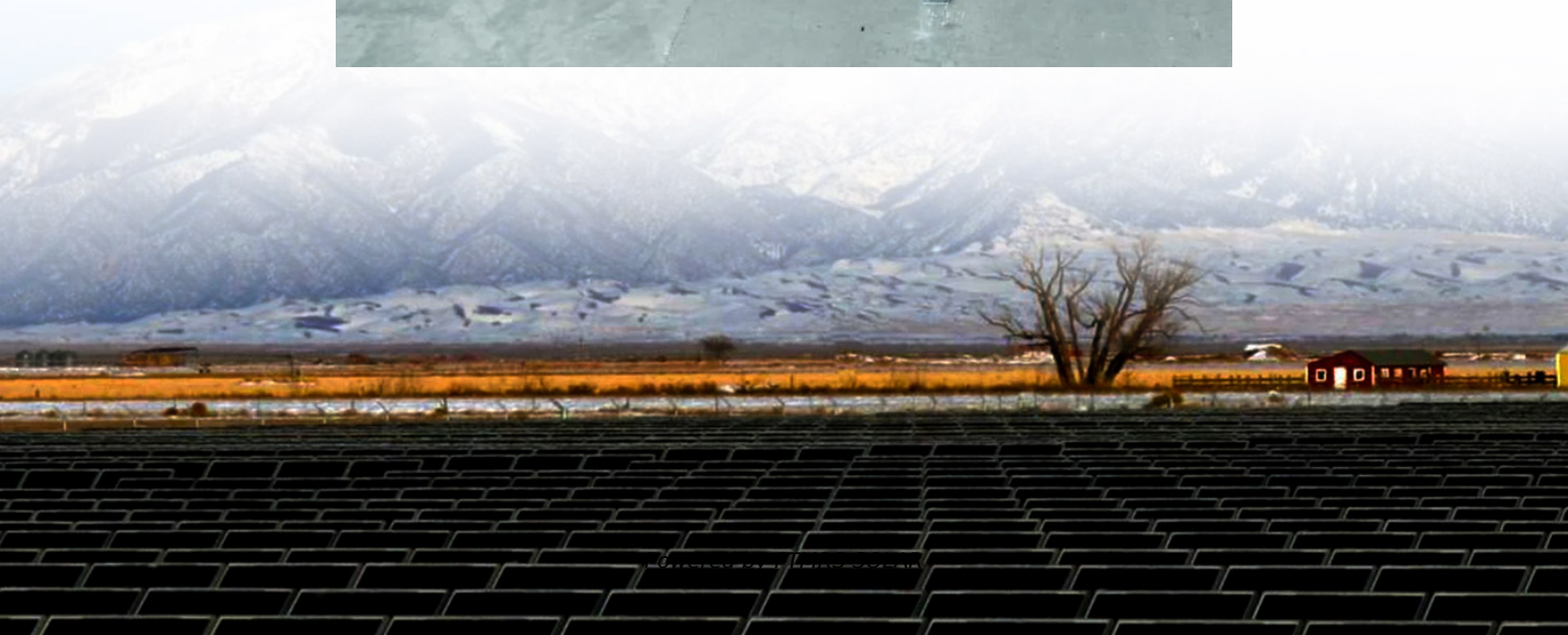
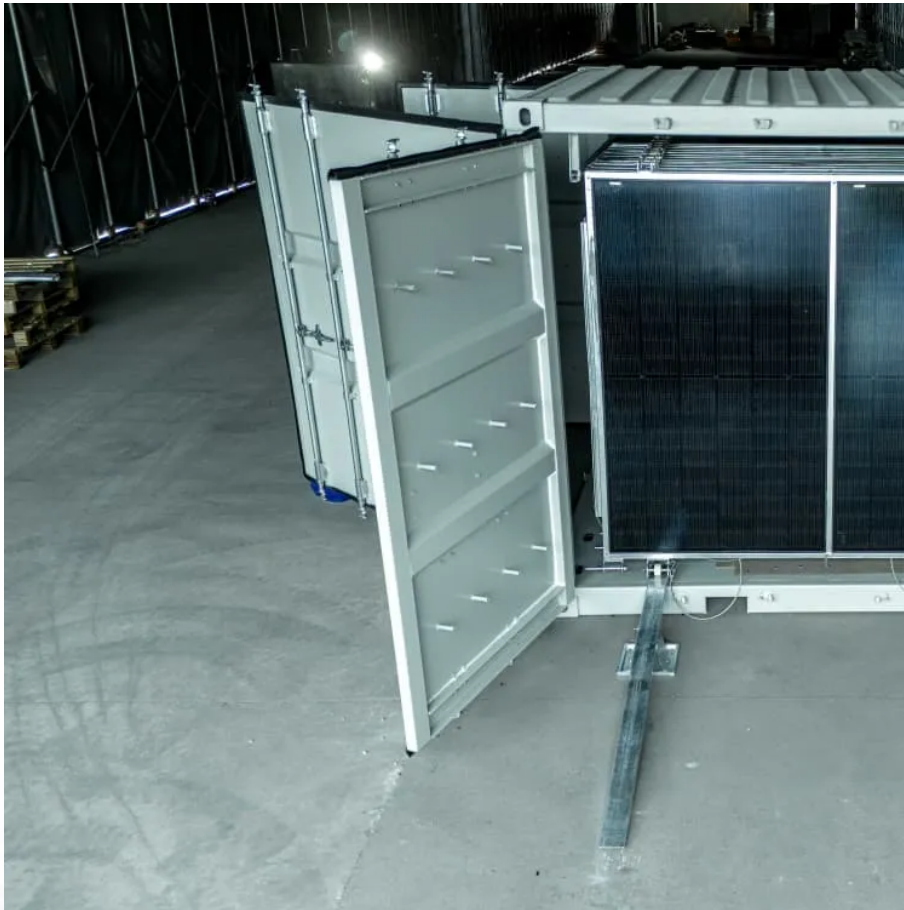


Power management system for Hargeisa base station





Overview

Can a base station power system be optimized according to local conditions?

The optimization of PV and ESS setup according to local conditions has a direct impact on the economic and ecological benefits of the base station power system. An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters.

How to optimize base station operating modes?

The method for optimizing base station operating modes does not require any changes to the system's original power supply structure. The purpose of energy conservation is achieved by adjusting the operating status of base stations [5, 6] and even shutting down some base stations according to actual user needs [7, 8, 9].

Can a base station power system model be improved?

An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters. And through this, a multi-faceted assessment criterion that considers both economic and ecological factors is established.

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needs of a case station in many parts of Algeria , . solar energy. The daily solar radiation varies between 3.8 one of the largest solar deposits in the world. The average annual rate of sunshine exceeds 3000 hours. It is also the 169440 TWh/year. The average solar ene rgy received is Sahara.



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