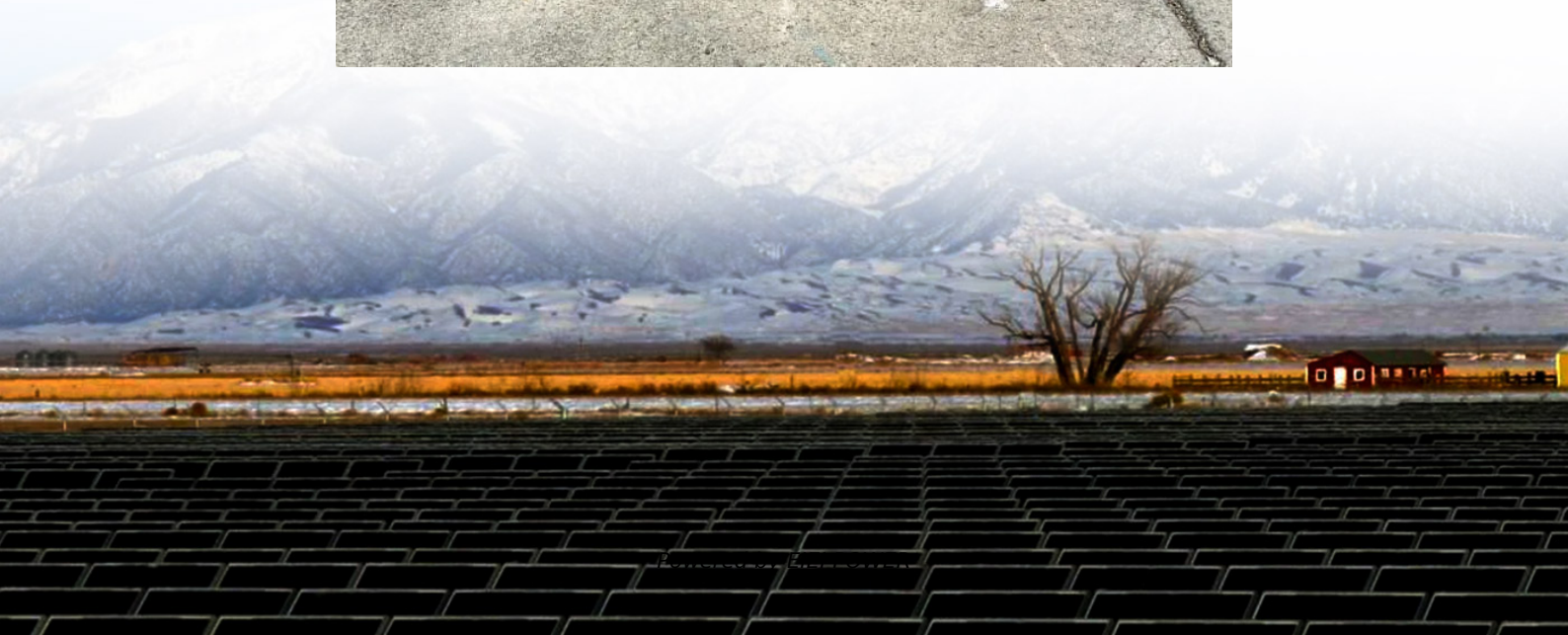


Base station wind power source current surges





Overview

The lightning transient overvoltages in the hybrid wind turbine (WT) -photovoltaic (PV)- battery energy storage system (BESS) is investigated in this paper. A hybrid system model is developed in the environment.

Is lightning surge a threat to offshore wind farm?

The structure of offshore wind farm is completely different from that onshore, and it is threatened by intruding lightning surge from various routes. Little attention has been paid to the electric equipment installed on offshore power station so far. A comprehensive lightning surge analysis for offshore wind farm is investigated in this paper.

What is lightning surge analysis for OWF?

A comprehensive lightning surge analysis for OWF is essential. The surge characteristics of OWF under lightning strike are investigated in this study, and its structure is outlined as follows. Firstly, the lightning risk and layout of OWF are briefly introduced in Section 2.

Can submarine cable protect offshore wind farm from lightning surge?

The submarine cable is beneficial to the lightning protection for offshore wind farm. Two surge arrester schemes have been proposed. The structure of offshore wind farm is completely different from that onshore, and it is threatened by intruding lightning surge from various routes.

What is a wind turbine Lightning receptor & down conductor?

Wind turbine Lightning receptor and down conductor are often installed inside WT blade. The down conductor provides a path for the lightning current from the receptor to the root of the blade and WT tower.



Base station wind power source current surges



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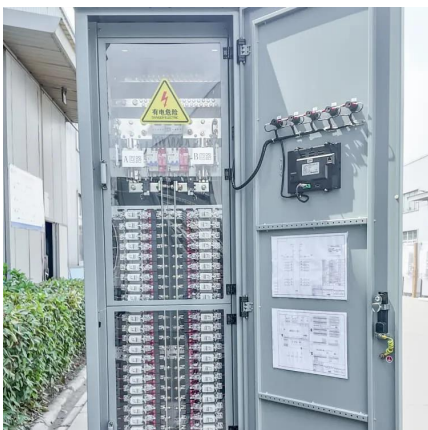


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