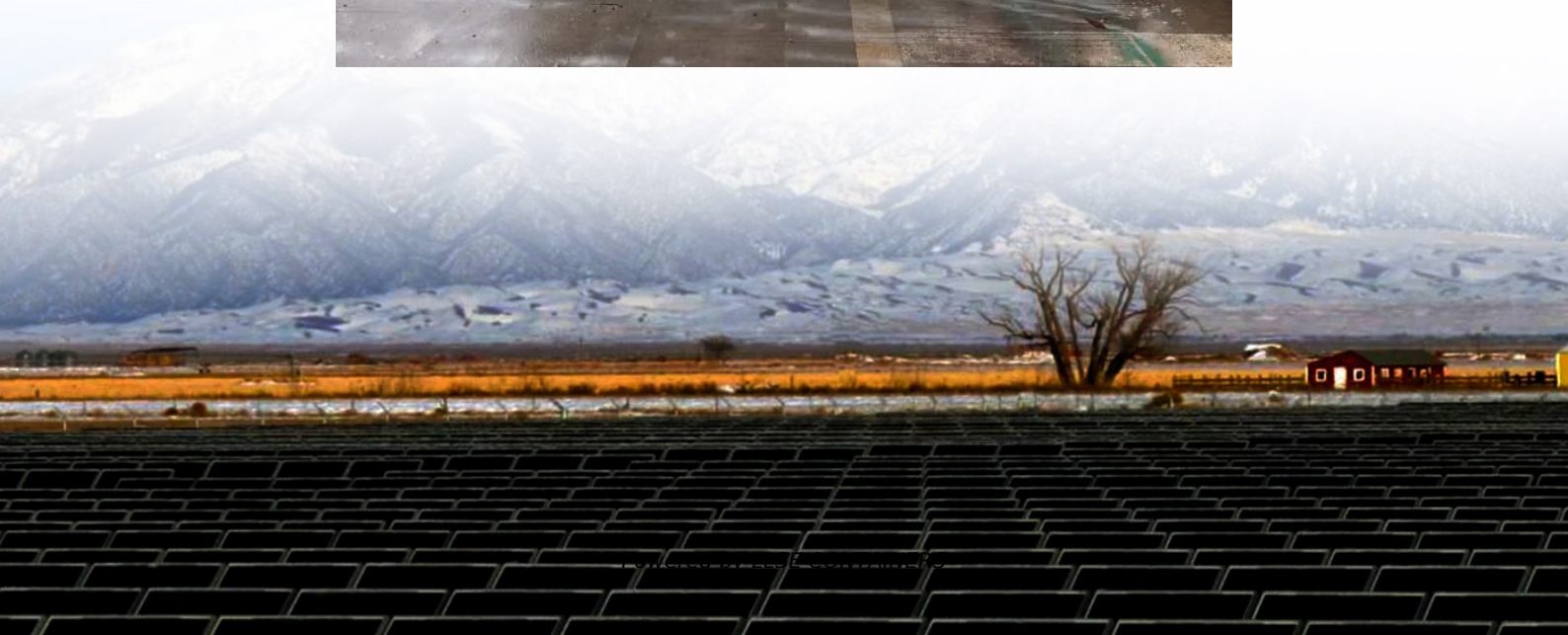


Distributed solar pressure bearing system





Overview

What is distributed solar generation?

Distributed solar generation (DSG) has been growing over the previous years because of its numerous advantages of being sustainable, flexible, reliable, and increasingly affordable. DSG is a broad and multidisciplinary research field because it relates to various fields in engineering, social sciences, economics, public policy, and others.

Can a photovoltaic bracket pile foundation meet different bearing capacity requirements?

Therefore, this paper aims to investigate the application of bionics principles to propose a novel type of photovoltaic bracket pile foundation designed to meet diverse bearing capacity requirements, specifically suited for desert gravel areas: the photovoltaic bracket serpentine pile foundation.

Does pile end bearing capacity increase under pressure loading?

Moreover, Shalabi et al. 24 developed a numerical model for the joint loading of drilled piles and the bearing platforms above them, observing that under pressure loading, the contribution of pile end bearing capacity to total foundation bearing capacity increases with the rise of the length-to-diameter ratio of grouted piles.

Does burial depth affect compressive bearing capacity?

The regression analysis revealed that the width of the snake skin body had the most significant effect on the ultimate compressive bearing capacity, while burial depth and spacing had less impact. As the burial depth increased, the displacement of the pile top decreased under both uplift and compression loads.



Distributed solar pressure bearing system

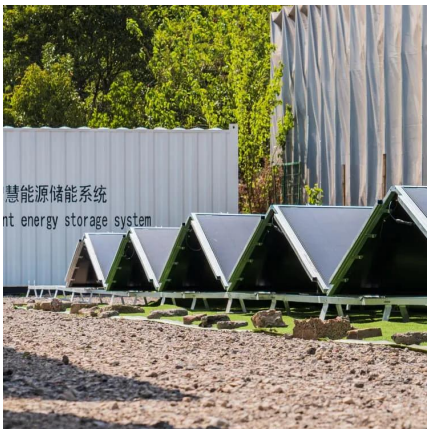


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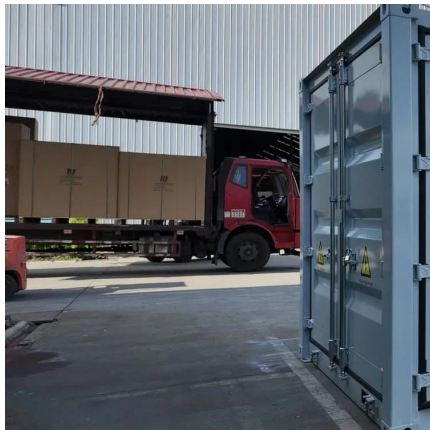
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