

# Analysis of the causes of photovoltaic board pile foundation collapse

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Abstract Development of large scale solar farms supported by large numbers of short piles has created new challenges for engineers to address. Solar arrays are highly flexible structures and ...

This study aims to examine the factors influencing the bearing characteristics of the serpentine piles.

Motivated by a field case study of extensive cracking at a large-scale photovoltaic site, this paper investigates the failure mechanism through a ...

Pile foundations are considered one of the most common foundation solutions for the construction of buildings and structures in difficult geotechnical conditions, including in ...

The important role of a typical design process including performing appropriate geotechnical investigations and incorporating results of pile load testing for optimization of design are ...

In instances where design, installation, testing and inspection of piles are not well-aligned, developers may experience painful construction issues ranging from sinking piles, driving refusals, failed ...

A set of organised and accurate records of pile installation, pile load tests could be useful to identify and analysis the root cause for pile failures if encountered on site.

Due to thermal expansion, thermal stress and displacement occur in both the gangue mountain and pile foundations, potentially compromising the stability of the foundations and ...

The PHC (pre-stressed high-strength concrete) pile foundation, serving as an innovative supporting structure for solar power stations, is subjected to complex loading conditions in engineering scenarios.

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