

The photovoltaic support pile foundation was frozen and cracked



Overview

Motivated by a field case study of extensive cracking at a large-scale photovoltaic site, this paper investigates the failure mechanism through a combination of laboratory experiments and finite element (FE) analysis. Concrete (PHC piles), steel piles and steel pipe screw piles. The first three are cast-in situ piles, and the last three are precast piles are recommended to reduce the impact of frost heaving. The invention provides a frozen soil area solar photovoltaic support foundation and a construction method, which comprises a pile foundation, wherein the pile foundation comprises a column. Can photovoltaic support steel pipe screw piles survive frost jacking?

To study the frost jacking performance of photovoltaic support steel pipe screw pile foundations in seasonally frozen soil areas at high latitudes and low altitudes and prevent excessive frost jacking displacement, this study. piles), steel piles and steel pipe screw piles.

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[Experimental and numerical analysis on frost heave cracking of](#)

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[Photovoltaic support foundation steel pipe pile](#)

In this study, the frost jacking characteristics of steel pipe screw piles for photovoltaic support foundations in high-latitude and low-altitude regions are studied via in situ tests and numerical



[Photovoltaic panel steel pipe pile](#)

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[Photovoltaic support bored piles](#)

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[Photovoltaic support pile foundation anti-pullout](#)

The foundations of photovoltaic stents in seasonally frozen regions suffer from uneven frost heave in winter, and the screw piles are widely used to reduce frost diseases.



[Photovoltaic support anti-pull pile detection](#)

This study has comprehensively investigated the bearing characteristics of three types of photovoltaic support piles, serpentine piles, square piles, and circular piles, in desert



[Causes of fracture of photovoltaic support pile foundation](#)

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



[Frost jacking characteristics of steel pipe screw piles for](#)

In this study, the frost jacking characteristics of steel pipe screw piles for photovoltaic support foundations in high-latitude and low-altitude regions are studied via in situ tests and numerical simulations.

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[Winter construction of photovoltaic support pile foundation](#)

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