

CASE STUDY MONTPELIER, OH



CANTSINK™
— SUPPORTING INNOVATION —



TRANSFORMER/INVERTER SKIDS - MONTPELIER, OH

SITUATION

Cantsink successfully implemented a high-performance foundation solution for a utility-scale solar farm in Ohio, with a capacity of 64 MWdc and 49 MWac. The project involved providing fast, reliable support for critical electrical infrastructure while ensuring long-term performance and operational efficiency. The foundation solution comprised 140 helical piles, each featuring a 4-inch diameter shaft and equipped with double 14" and 16" helices. These piles were 10.5 feet long and specifically designed to support transformer and inverter skids, ensuring stability and durability for the solar farm's electrical components. A key highlight of this project was the minimal disruption to the solar site. The installation was completed in just six days, demonstrating Cantsink's commitment to efficiency and precision.

CASE STUDY TRANSFORMER/INVERTER SUPPORT



CANTSINK
SUPPORTING INNOVATION



SCOPE OF WORK

A utility-scale solar farm in Ohio providing critical electrical infrastructure (64 MWdc/49MWac) was constructed in Ohio. A foundation system was needed to support heavy transformer skids and electrical containers and a rapid installation was required to meet time constraints. Cantsink was contacted by the contractor to provide the necessary expertise.

ANCHOR SYSTEM

Cantsink utilized 4.0 inch diameter pipe piles with double 14 inch and 16 inch helix configurations. A total of 140 high-capacity helical piles were used with an average depth of 8 feet to reach load-bearing capacity. The above grade projection for the piles was 18 inches.

Drive Head Used: 12,00 lbs paired with a skid steer and Pro Dig 25K monitor

RESULTS

The installation was successfully completed with Cantsink engineering and installation of 140 high-capacity helical piles, providing immediate load-bearing support without the need for excavation or concrete cure time. The system enabled rapid installation while maintaining precise elevation and alignment for the transformer and inverter skids. The completed helical pile foundation system delivers durable, long-term support aligned with the operational lifespan of the solar facility—helping safeguard equipment, maximize uptime, and protecting the project's investment.

By leveraging Cantsink's proven helical pile technology, the project achieved a fast, resilient, and future-ready foundation solution tailored to the demands of utility-scale renewable energy development.