

## COLLECTION SYSTEM CABLE MITIGATION

Wind turbines get credit for generating clean energy, but wind power would never make it to the grid for widespread consumption if it weren't for a healthy, functioning collection system.

When your collection system is operating at peak performance, it is business as usual. This system is effectively working to minimize losses and voltage drops.

But failures can occur at any time, and anywhere along the chain. The cause is typically tied to aging assets, extreme weather conditions, poor design or installation error. And the effects can be crippling. Having just part of your facility offline could result in significant downtime and revenue loss.

Don't let faulty cables affect your wind facility's power-generating capacity.

Ulteig leverages decades of experience, and top-notch expertise in collection system engineering and design, to diagnose and correct challenging collection cable issues. We cover everything from troubleshooting individual cable segments to performing comprehensive collection cable evaluations. Our engineering support and project reliability experts are happy to customize a solution that suits your specific needs.

### SPLICE AND TERMINATION FAILURES

Cable splice and termination failures happen for multiple reasons. Whether it's material quality issues, poor installation methods or design errors we will determine the root cause of the problem, provide the repair or replacement, then get your system back up and running in a timely manner.

### CABLE FAILURES

Soil conditions, as well as cable material, sizing and installation errors are common factors that can lead to underground cable failure. We evaluate soil thermal resistivity, burial depth, trench width, cable layout, shield grounding and mutual heating from adjacent power cables to determine the cause of cable failure, then take corrective action to ensure the cable is protected and properly connected before returning it to service.

## ABOUT ULTEIG

Ulteig Engineers, Inc. delivers comprehensive design engineering, program management and technical and field services that strengthen infrastructure vital to everyday life.

Ulteig's footprint spans the nation and provides its expertise in multiple Lifeline Sectors®, including power (both electric utilities and renewables), transportation, water and oil and gas, to a wide range of

public and private clients. To learn more about Ulteig and how we can enhance the quality and efficiency of your next wind or solar project, visit [www.ulteig.com](http://www.ulteig.com).



We listen. We solve.®

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