

Case Study

Medium Voltage Cables and Storage & Deployment Solution help utility crews deploy emergency power connections with *greater flexibility and improved safety*.



Industry Problems

When a utility substation requires planned maintenance or experiences unexpected damage, crews must quickly deploy medium-voltage cable systems to connect temporary power equipment. Traditional cable trailers require precise positioning for cable payout, making deployment challenging in confined spaces, congested substations, and low-visibility conditions. Improper trailer positioning can increase setup time and create additional risk for both equipment and personnel.



ATPC Solution

A major U.S. utility needed a safer, more efficient way to store and deploy medium-voltage cable for substation maintenance and emergency recovery operations. Amphenol TPC worked closely with the utility's engineering team to develop a complete deployment-ready solution, supplying flexible medium-voltage cables that were fully terminated, electrically tested, and loaded onto a custom storage and deployment trailer before delivery. By eliminating hours of field termination and testing work while incorporating a 360-degree rotating turret for deployment in virtually any direction, the solution helped crews respond faster, simplify setup in challenging locations, and safely maneuver cable during critical restoration activities.

Medium-voltage cable termination and testing can add hours to field deployment timelines, making pre-terminated assemblies a valuable advantage.



Customer's Result

The utility gained a medium-voltage storage and deployment system designed around real-world operating conditions. With the ability to rotate the reel turret to the optimal deployment position, crews could respond more efficiently in tight or challenging locations while reducing the risk of cable or equipment damage. The finished solution provided the utility with a safer, more flexible, and deployment-ready system for substation maintenance and recovery operations.