



SUMMARY

Customer

General electrical contractor

Challenge

Construction of a large, 22-turbine Canadian wind farm

Solution

READY!™ Kit

Results

- Maximized use of on-site labor and pulling equipment
- Saved valuable installation time and reduced complexities
- Project completed and commissioned on time
- Eliminated need for contractor to move large reels on site through delivery of properly tagged reels to specific locations

Customer Challenge

As a specialist in medium- and high-voltage power projects, a general contractor overseeing the construction of a 22-turbine Canadian wind farm needed a steady supply of materials to meet its budgetary, construction and commissioning benchmarks. The contractor required the production of six different types of cable delivered in specific lengths to designated locations on the job site. In order to maintain price stability on its materials and confirm it kept on schedule, the contractor turned to Anixter for expertise in material sourcing, processing and delivery.

Program Scope

At the job site, as many as four different trenches were being dug and laid with cable simultaneously. Construction included digging network trenches to connect each of the 22 turbines to the substation with underground cables; delivering the correct kind and length of cable to specified site locations on a schedule that maximized the use of specialized cable-pulling equipment; and completing the connections necessary to begin the commissioning process. Because cable types and lengths varied, it was essential that the 5,000-pound spools of cable arrived at the right trench to avoid shortages, respooling or relocating to another trench. Materials for the project included underground and overhead aluminum conductor steel reinforced (ACSR) cable (including 35 kV power aluminum wire in multiple gauges), bare copper, fiber, termination kits, lugs, fiber optic cable, grounding grid (rods, bare copper, connectors), substation control cable, fiber accessories and underground marking tape.



Cutting and tagging cable to our unique requirements and then delivering it exactly where it is to be used meant less work at the site. Suggesting improvements, such as putting all the necessary cable termination components in individual kits for delivery to specific locations on the large wind farm where they were to be used, saved our field personnel valuable installation time-and made their job less complicated.

Project Contractor

CASE STUDY

CABLE ENHANCEMENTS SPEED DEPLOYMENT OF WIND FARM



Anixter Solution

To confirm a reliable supply of copper and aluminum throughout the project, the contractor turned to Anixter. All bulk materials were routed to Anixter's nearby distribution center, where they were inventoried and divided into 600- to 1,600-foot spools of cable. Each specific cable corresponded to a trench that ran from the substations to the turbines. By creating spools with cable lengths that fit specific trenches, only the material that was needed to fill a specific section was delivered to the job site. As the other trenches were dug, Anixter cut, spooled and delivered the appropriate cable.

Anixter affixed two tags to each reel that indicated the cable's specification and job-site location to confirm the materials were correctly delivered. Each reel was then loaded onto a truck and positioned according to its cable reel identification data. For each of the 50 trench-specific reel deliveries, Anixter provided a 24-hour advance notice that showed the time of departure and the time of arrival the next day.

Along with each reel of cable, Anixter deployed a corresponding READY!™ Kit. Anixter's READY! Kit offering, part of its READY!™ Deployment Services, provides all of the necessary components needed to complete an installation in one ready-to-install kit under a single part number. Instead of having the installation components shipped to the job site and stored in bulk, each READY! Kit delivered all of the connectivity plugs, elbows and lugs for each individual cable length. This helped confirm the contractor had the necessary components to complete the installation while minimizing the risk of theft or damage by eliminating the need to warehouse the components on site.

Project Results

Anixter's ability to coordinate the cable cutting, reel configuration, tagging and delivery kept the project on schedule and eliminated the need to store excess inventory on site. Anixter's supply chain capabilities helped to confirm the right products arrived on site at the right time in the right location. With the heavy cable reels delivered to the waiting trench, workers did not have to sort through bulk cable shipments and deliver them to the proper place, which saved hours of labor. Through the advanced planning and notification provided by Anixter, the customer maximized its use of on-site labor and specialized cable-pulling equipment, helping the wind farm to come online as scheduled.

According to the contractor, it was Anixter's services that set it apart from other distributors. "Cutting and tagging cable to our unique requirements and then delivering it exactly where it is to be used meant less work at the site," the contractor said. "Suggesting improvements, such as putting all the necessary cable termination components in individual kits for delivery to specific locations on the large wind farm where they were to be used, saved our field personnel valuable installation time and made their job less complicated."



READY!™ Deployment Services by Anixter map our distribution

and Supply Chain Solutions to the construction or deployment process of any technology project. We combine sourcing, inventory management, kitting, labeling, packaging and deployment services to simplify and address the material management challenges at the job site(s). READY! Deployment Services by Anixter will help you improve the speed to deployment, lower your total cost of deployment and deliver your product specifications as planned.

This project called for:



READY! Kit includes all components needed to complete an installation, delivered as one part number in one shipment.



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Anixter Inc. World Headquarters

2301 Patriot Boulevard
Glenview, Illinois 60026
224.521.8000

1.800.ANIXTER | anixter.com



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