



MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCI®

# CASE HISTORY

## Clamp and Powerline Protection at Wind Power Transfer Station



### PRODUCT

- VpCI®-368
- VpCI®-384
- VpCI®-396
- VpCI®-415
- MCI®-2020
- MCI®-2005
- ElectriCorr® VpCI®-239

### PROBLEM

The clamps and areas around the clamps on the powerlines at a wind power transfer station were badly corroded not long after installation. This was due to the severe environment of the wind farm, which was located near the ocean in an area with strong wind and blowing sand.

### APPLICATION

The power was turned off at the transfer station before work started. The clamps were taken down and mechanically abraded to remove a majority of the corrosion. They were then cleaned using VpCI®-415, dried, and reinstalled (ElectriCorr® VpCI®-239 was also applied to the inside of most clamps before reinstallation). VpCI®-396 was applied as a primer coat and allowed to dry for two to three hours. VpCI®-384 was applied as a topcoat. In addition, the sections of wire on both sides of the clamps were coated with VpCI®-396 to protect the wire from further ingress of contaminants. Down below, VpCI®-368 corrosion inhibitors were applied to moving parts around the substation, and MCI®-2020 was applied to concrete support structures. MCI®-2005 was also added to a large sand containment wall at the wind farm for protection of the steel armature therein.

### DATE

October 2018

### LOCATION

Brazil

### CUSTOMER

Omega Energy

### CORTEC® REPRESENTATIVE

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## CONCLUSION

The use of Cortec® products provides an excellent combination of corrosion protection materials that will hold up in this severe environment.



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ch619 12/2018 Page 2 of 2

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