CASE STUDY

**CCS Network (ME) Ltd**

# Ras Laffan–Al Sulaimi — 132 kV strings

| SITE | CUSTOMEI | DATE OF APPLICATION |
|---|---|---|
| Ras Laffan–Al Sulaimi circuits 1 and 2, Qatar | Kahrama | December 2007 |

| POLLUTIO TYPE | EQUIPMENT |
|---|---|
| Saline and cement dust | 132 kV suspension and tension strings, 160 kN open-profile porcelain |

## The challenge

The line runs close to the coast and to industry. Saline and cement dust put the 132 kV porcelain under frequent leakage current and flashover. Kahramaa had chosen porcelain for its strength, and that porcelain flashed over quickly once it was contaminated. The client wanted long-term reliability and as little maintenance as possible.

## The solution

New insulators were prepared and RTV silicone HVIC was spray-applied in several coats to the required thickness. The strings were fully cured, then packed for transit

and for the changeover on the line. In a pollution of this level the expected service before an overcoat is about 10 years.

## The result

The coated strings installed in 2007 were cleaned after 10 years, and they were not overcoated. They have since given reliable maintenance-free protection for more than 14 years. A hydrophobic RTV silicone surface is what kept a coastal, cement-dust line in service without a return to washing.




Finished coating



Before



In service

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