CASE STUDY

CCS Network (ME) Ltd

The Grange, Port Talbot — 66 kV insulators

SITE	DATE OF APPLICATI	POLLUTION TYPE
The Grange substati Port Talbot	14 June 2020	Industrial pollution and iron ore dust

EQUIPMENT
64 insulators, 66 kV, coated before installation

The challenge

Port Talbot is an industrial coast, and iron-ore dust is part of the pollution the substation has to live with. These 64 insulators were high-creepage designs. Extra creepage only works while the surface stays clean, and the local pollution was still active. The insulators had no coating at all.

The solution

They were coated at ground level on 14 June 2020, before they went into service, so the work did not take a live bay out. Pollution was cleaned off and the glaze polished. RTV silicone HVIC was sprayed to between 360 and 500 microns. Temperature, humidity and batch numbers were recorded, and adhesion, thickness and hydrophobicity were checked.

The result

Adhesion, thickness and hydrophobicity were checked. Sixty-four 66 kV insulators went into an iron-ore environment with a hydrophobic film already on the glaze. Coating at ground level puts that protection in place before the first wet, dusty day in service.



Before



After



Finished coating

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