CASE STUDY

CCS Network (ME) Ltd

TTEP Rijnmond — 400 kV overcoat

SITE:	CUSTOMER:	DATE OF APPLICATION:
Rijnmond, Vondelingenplaat, Rotterdam	**TTEP**	**July 2026**

POLLUTION TYPE:

Industrial port location with coastal saline and industrial pollution.

EQUIPMENT:

33 × 400 kV insulators on circuit 20ACA, including posts, surge arresters, capacitor voltage transformers, earthing and disconnecting switches, current transformers, circuit breakers and transformer bushings

The challenge

The 400 kV insulators at the TTEP Rijnmond substation in Vondelingenplaat, Rotterdam, already carried an RTV silicone coating. The substation stands in an industrial port location with coastal saline and industrial pollution. CCS was engaged to clean the insulators, remove only small damaged areas of the original coating on some units, and overcoat the 33 units on circuit 20ACA with Si-COAT 570.

The solution

In July 2026 CCS cleaned the 33 × 400 kV insulators and removed only small damaged areas of the original coating on some units, then overcoated them with Si-COAT 570. The work covered posts, surge arresters, capacitor voltage transformers, earthing and disconnecting switches, current transformers, circuit breakers and transformer bushings on circuit 20ACA. The work was carried out between 21 and 25 July 2026.

The result

The insulators have been overcoated with Si-COAT 570, replenishing the silicone oils and providing many more years of maintenance-free protection. Water beads on the light grey coating rather than forming a continuous film.



After



Finished coating



Before



After



Before



After