

ELECTRICITY CABLE PROTECTION
COMETA (CONEXION MEDITERRANEA TRANSPORTE DE ALTA TENSION)

CABLE PROTECTION

Product: Articulated Concrete Block Mattresses (ACBM)

Problem

Red Electrica de España (REE) awarded Prysmian Group a contract for the design supply and construction of a high-voltage submarine link between the electricity grids of the Iberian peninsula and the island of Majorca (Balearic archipelago).

The entire project, named **COMETA** (*Conexión Mediterránea Transporte de Alta tensión*), was assigned to a consortium between Prysmian and Nexans. The value of the Prysmian portion of the project was €118.7 million. Working with Nexans, Prysmian Powerlink provided a turnkey solution including the engineering, production and laying of two 250-kV dc cable terminals, comprising 240 km (149 miles) of submarine cable and 7 km (4 miles) of land cable, with a total transmission capacity of 400 MW.

The COMETA project is of strategic importance for the development of Spain's national energy transmission network and linked the biggest island in the Balearic archipelago (Majorca) with the mainland, providing access to generating capacities available on the peninsula. This helped to address growing energy requirements on the island.

Solution

Prysmian manufactured and laid one of the two insulated high-voltage cables and the medium-voltage return cable. The entire project completed the link between the Sagunto (mainland) and Santa Ponza (island of Majorca) substations. Designed to protect and stabilize pipelines, high-voltage submarine cables, and fiber-optic data transmission cables, Maccaferri supplied ACBM mattresses to Prysmian Powerlink. ACBM Mattresses are also used to create crossings between new cables and existing underwater pipelines. The Maccaferri production point was in the area of Leida, according to the final delivery point requested by client, Prysmian Powerlink. This enabled the minimization of delivery costs to the specified delivery point.

Supplied:

1. 520 ACBM dimensions 5.26x2.26x0.20m
2. 2 automatic frames ROV friendly suitable for deep water installation

Client:

RED ELECTRICA DE ESPANA (REE)
Main contractor:
PRYSMIAN POWERLINK — NEXANS
Products used:
ACBM MATTRESSES
Date of construction
JUNE 2011



Project location



ACBM mattresses handling operations



ACBM in storage

© 2015 Maccaferri. All rights reserved. Maccaferri will enforce Copyright.

Officine Maccaferri S.p.A. Global Headquarters

Via JF Kennedy 10, 40069 Zola Predosa (BO) - Italy
 T: (+39) 051 6436000 F: (+39) 051 643 6201
 E: info@hq.maccaferri.com
www.maccaferri.com

Maccaferri operates under strict quality assurance and management procedures. Please visit the website of your local subsidiary for details of their Certifications.