

M.M. S.R.L. a socio unico Fiberglass Reinforced Polymer Gratings and Structures

Via Antonio Zanussi, 300/302 33100 Udine - Italy Cap. Soc. EURO 100.000 i.v. P.Iva / C.F. 02984500302 Reg. Imp. PN-UD 02984500302 PEC mm-grigliati@pec-neispa.com tel. +39 0432 522970 fax +39 0432 522253 info@mmgrigliati.it



## **DIELECTRIC FENCE FOR ELECTRICAL SUBSTATION IN A WIND FARM**

CLIENT	IDAE (DIVERSIFICATION AND ENERGY SAVING INSTITUTE)
LOCATION	CRUCE DE ARINAGA, GRAN CANARIA SPAGNA
USE	DIELECTRIC FENCE
PRODUCT	STANDARD GRATING
SERVICE	DEVELOPMENT OF A FENCING SYSTEM RESISTANT TO SEVERE WIND AND WEATHER CONDITIONS



## **OBJECTIVE**

The Customer was searching for a **dielectric fence** for the electrical substation of the on-shore 18MW wind farm located in Cruce de Arinaga; such solution was required to resist to the **atmospheric conditions** of the environment, particularly to **UV rays** and **wind**. In fact, the electrical substation is built in an area constantly exposed to sun and intense wind.

The goals were the following:

- Define the perimeter of the substation
- Prevent access of non-authorized personnel

The Client required a solution that could ensure the **maximum safety**.

## **SOLUTIONS**

The fence has been realized by **MVA Fiber Canarias**, using the standard FRP gratings produced by M.M. in polyester resin, glassfiber and halogen-free inorganic fillers, that provide the fire-retardant properties. Tested and classified as **excellent electrical insulator**, this type of grating provides remarkable advantages, if compared to steel gratings: low weight, **easy installation**, resistance to weathering and UV rays. Even when the product is exposed to severe weather, a long life with no maintenance is ensured.

In combination with the fence, a FRP **driveway gate** has been supplied as well: for the installation of the gate modular panels, FRP pultruded profiles have been used as vertical posts.

