

ELECTRIC STATION - FENCES

LOCATION

This power station is essential for the power running in the region. The recent development of a new area in the power station for the improvement of the connection to 220kV has required the dismantling of the old lines and their replacement by new ones.

CLIENT

Large national producer and service provider for the conveyance of high voltage energy.

LOCATION	BELLUNO (ITALY)
USE	FENCES
PRODUCT	GRATING TYPE SCH 60/28_ISO



OBJECTIVE

The Buyer needed to find a solution for the fences of the power stations. They needed to be suitable with the presence of high/medium tension cables and their possibility of falling on them. Moreover, the wide perimeters of the stations and their high maintenance costs required a solution that could solve the servicing problem and could guarantee a long lifetime. An additional objective was to match the new fence to the old one when this case should have arisen. Discontinuity was not admitted.

SOLUTION

In order to meet the Buyer's requirements, M.M. has successfully installed its fences made with grating mesh type SCH 60/28_ISO, particularly looking after the color choice which was required in the order. The polyester isophthalic resin fences are suitable for areas with electric sources as power stations, even where there is high tension. The test regarding the dielectric strength with rated voltage according to the ASTM D 149-97-a norm, has ascertained a 300μ A electric absorption complying with the safety norms and assuring a high electric risk protection. Thereby and in consideration of their insulating properties, no grounding is needed. The ageing test according to the ASTM G164-06 norm and the cycling exposure test according to the UNI EN ISO 9142/04 norm have shown the high resistance to the weather agents: the mechanical resistance, the dimensions and the color have no alteration. The fence has been installed by using FRP vertical rods and S.S. fixing devices.