



BESHIELDING
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ZERO-EMISSION MV/LV SUBSTATION

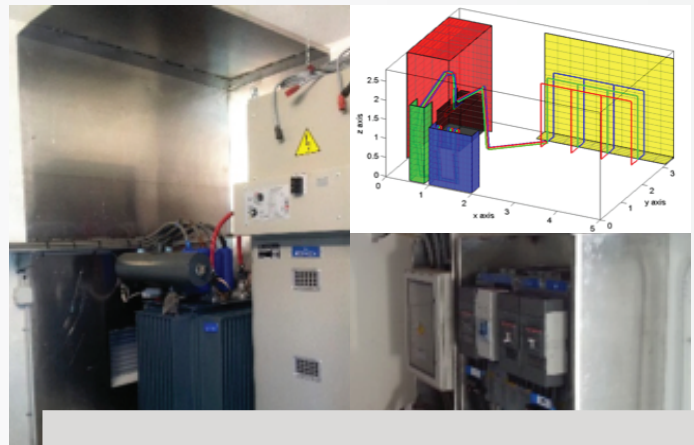
Description of the problem

The requirement is to keep the magnetic flux density value below $3 \mu\text{T}$ at a distance of no more than 0.2 m from the inner perimeter of the MV/LV substation.



Solution

Shielding — made of appropriate materials and suitably proportioned — has been designed for each substation component (transformer, MV/LV switchgears, and MV/LV connections).



Results

The magnetic flux density outside the buffer zone is less than $3 \mu\text{T}$. In Turin, more than 15 stations have been shielded with this method since 2014.

