



BESHIELDING
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ZERO EMISSION MV/LV SUBSTATION

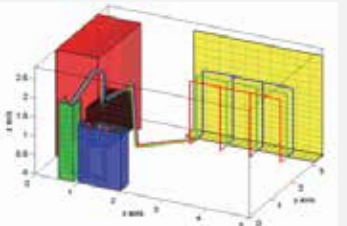
Problem description

The need is to contain the value of magnetic flux density below $3 \mu\text{T}$ at no more than 0.2 m from the internal perimeter of MV/LV substation.



Solution

For each component (transformer, MV-LV switchgears and MV-LV connections) of the substation a proper shield with the suitable material and dimensions has been designed.



Results

The magnetic flux density outside the buffer area of the substation is lower than $3 \mu\text{T}$.

More than 15 substations have been shielded since 2014 in Turin (Italy) using the proposed approach.

