

Experience in High– Voltage Technology with over 15 Patents Registered

Antrova is a independent innovation and development company located in Schaffhausen Switzerland.

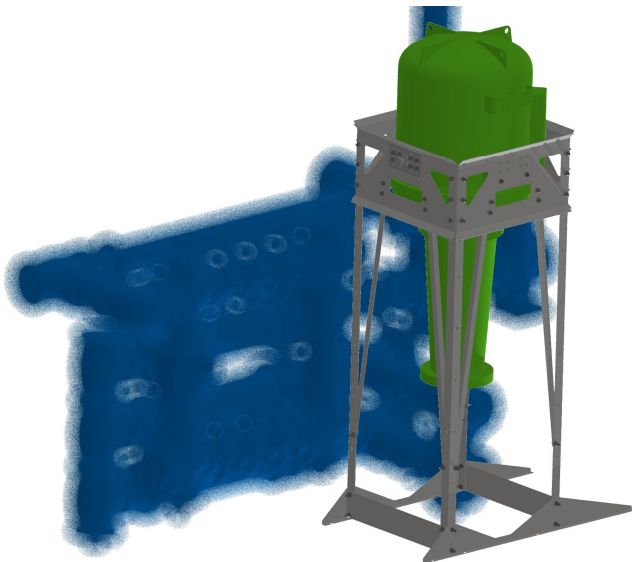
Over the last 15 years, Antrova has acquired a deep knowledge in dimensioning and construction of high current and high voltage components and facilities.

Antrova offers:

- engineers PHD/ Master/ Bachelor, technical designer, business economist MBA
- own simulation capabilities (grounding , field distribution, current distribution, dielectric, cooling , CFD and FEM)
- Experience in:
 - nominal voltage up to 800kV
 - nominal current up to 30kA
- work on-site and project work
- system parts certified by SVTI (Swiss association for technical inspection)



Spark gaps for laboratories with a high repeat accuracy (important for an accurate reproduction of test results)

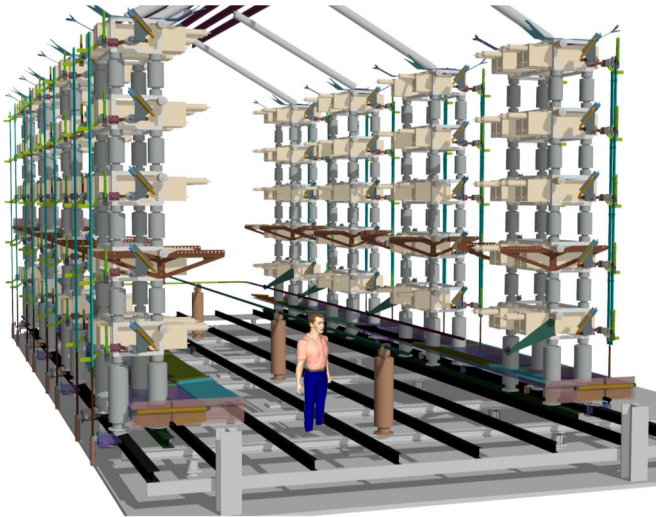


Bearing frame for a SF6 transformer inclusive durability approval . Overall height of the construction about 6m.

Antrova`s experience in the following plant components:

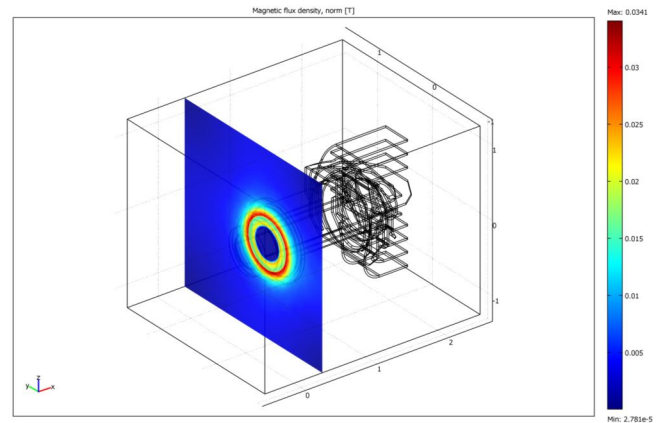
- arcing chamber (SF6)
 - disconnect / earthing switch (air/ SF6)
 - starting switch (air)
 - short-circuiting connection (manually/ motor)
 - power rails (air SF6/ stearin)
 - secondary drive
 - capacitor bank for laboratories
 - spark gaps for laboratories
 - field-free coaxial connection for high current transformers
 - high voltage cable (oil free, self-cooling)
 - loading coil for laboratories
 - HV DC diode for laboratories
- and many more customer made solutions.



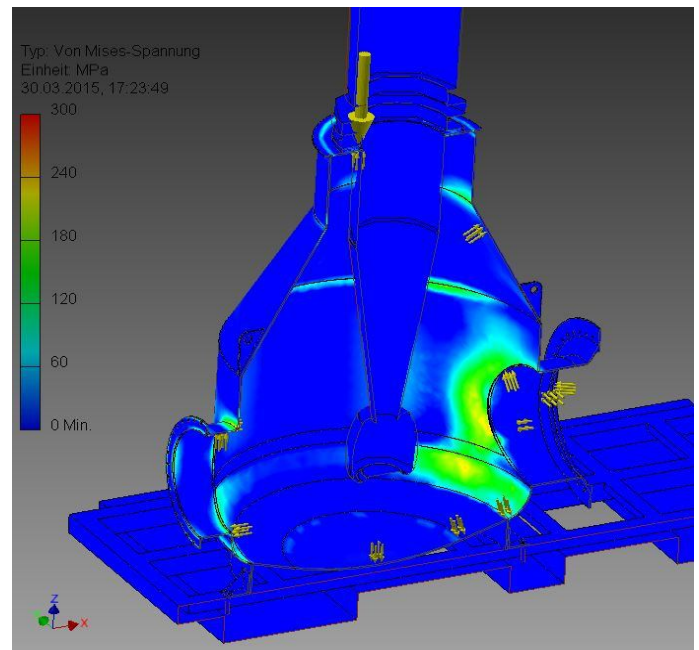


High voltage capacitor bank by doubling the capacity under same weight construction (Limit: load capacity of the laboratory roof)

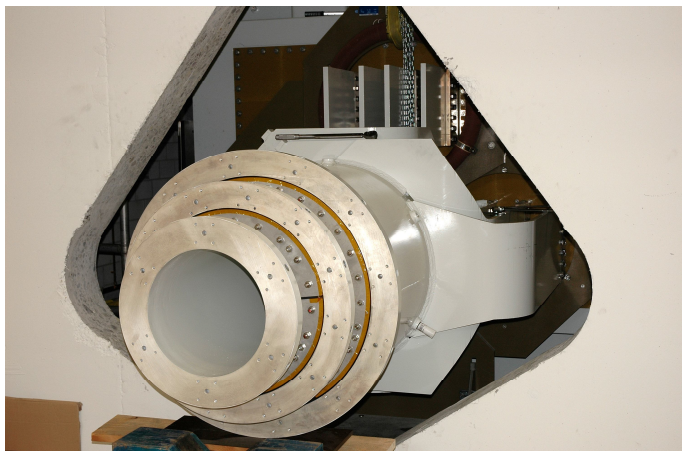
Numerous patents and smart design of our employees show their continually creativity. A good example is the field-free coaxial connection as shown below.



Simulation of magnetic flux (cross section throw all three conductor) in the field-free coaxial connection.



FEM calculations of a SF6 tank (strengthening of an existing facility to new requirements)



Mounted field-free coaxial connection for casting into the concrete wall of the transformer room.

The field-free coaxial connection carries up to 30kA and needs to be cooled with water but still keeping up the isolation.

The effectiveness of reducing the electrical field and the current capacity was proved by simulations (see right side)

Relieve your technical departments with anything that does not belong to their core competencies. Support your team with external specialists.

Antrova is your competent partner in electrical industry.

Contact us, we advise you without obligation.

Antrova AG
Hofwissenstrasse 13
8260 Stein am Rhein
Switzerland
Tel. +41 52 620 49 20
mail@antrova.com
www.antrova.com

