Device for DC high-current impress at high DC potential

Device for capacitive power transfer for DC high-current impress

Our technology: Device for capacitive power transfer
The device is composed of two capacitors, which are isolating the DC potential (600 kV) from the generator unit and are impressing the AC-voltage capacitively on the current path (up to 5000 A at 25 V).

Benefits
- Simple and cost-effective solution
- Compact and lightweight construction
- Uses existing components and technology

Current stage of development
Technology Readiness Level: Level 2-3.
Experiments in scale 1:10 have been performed successfully. Device in scale 1:1 is under construction.

Application possibilities
Main field of application is the high-voltage test engineering.

Intellectual property situation
The presented technology is protected by a pending patent of TU Darmstadt.

Commercialization opportunities
We are looking for industry partners who are interested in using the technology. If there is any demand for further development of the technology regarding implementation in products, a close cooperation between the industry partner and TU Darmstadt is possible.

Your contact partner
Mr. Deniz Bayramoglu
Head of IP- and Innovation Management
Technische Universität Darmstadt
Phone.: +49 6151 16-57215
E-Mail: Bayramoglu.de@pvw.tu-darmstadt.de