



Jicable HVDC'21

International Symposium on HVDC Cable Systems

November 8th – 10th, 2021

Liège (Belgium)

Jicable is an international conference for the exchange of information in the fields of research, industrial development, installation, operation and diagnoses related to insulated power cables and their accessories from low voltage and special cables up to ultra-high voltage cables and new technology cables. Jicable conferences, symposiums and workshops allow in-depth analysis of the State-of-the-Art and future perspectives : new materials, evolution in technologies, manufacturing process, maintenance policies and condition assessment, upgrading, refurbishment, lessons learnt from service, dielectric phenomena, thermal and thermo-mechanical behavior... new innovative technical solutions for high power transmission: new superconductive materials as well as a closer look at major submarine cable projects connecting High Voltage networks in many countries.

Around 250 participants from approximately 30 countries attend the Jicable HVDC Symposiums every 4 years. This upcoming third edition, Jicable HVDC'21 will include conferences, tutorials, technical visits and a poster session for young researchers.

Jicable HVDC'21 - International symposium on HVDC cable systems - will be held in Liège (Belgium) from November 8th to November 10th, 2021. Jicable-HVDC'21 will be the natural follow-up of Jicable-HVDC17 and Jicable-HVDC'13 dedicated to high-voltage direct current (HVDC) transmission systems for which insulated power cables are a key component.

HVDC power links are growing in numbers and are now increasingly used for land or submarine applications including connection of offshore wind farms. HVDC cable systems are becoming key components of sustainable energy systems to provide large capacity of electricity transmission over long distances, across or between countries and for renewable energy delivery. Recent breakthrough innovations in the field of HVDC extruded cable systems have shown rated voltages reaching the range 400 to 700 kV, power transmission up to 3 GW and suitability not only for VSC converter types, but also for LCC converters.

The objective of the symposium Jicable HVDC'21 is to address and discuss the following topics:

1. Conception, design and manufacturing of HVDC cables and accessories: materials, behavior of the materials under DC voltage, space charge interfaces, conception, manufacturing, emerging technologies such as superconductive cables, GIL, standardization, qualification process,
2. The insertion of HVDC cable systems in the existing UHV networks: insertion of an HVDC cable system in an existing HVDC network, HVDC cable system inserted in an HVDC overhead line system, interaction of several HVDC networks close to HVAC networks,



3. Electric transient overvoltages affecting the cable systems and converting devices: impact on the design of cable systems and protection devices, coordination between cable system and converter stations,
4. European and worldwide projects (onshore and offshore, environmental impacts, solutions for high depth projects, electric hubs, mechanical dynamic behavior of submarine cables for energy evacuation of the offshore wind turbine platforms, expected powers and voltages, regulation aspects),
5. Laying and repair methods, fault location systems in the HVDC submarine and land cable area,
6. Cost-benefit of the HVDC links (including planification cycle, studies, construction, operation, maintenance, real loading flux versus theoretical loading flux defined in the original business plan of the project),
7. Prospects of using MVDC cable systems vs HVDC link.

Save the date! November 8th - 10th, 2021

HVDC'21 is part of JICABLE, 17 rue de l'Amiral Hamelin 75116 Paris.

More information and contact on the web site: hvdc21.jicable.org

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