

# Jicable HVDC'17 International Symposium on HVDC Cable Systems

Dunkirk, France

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On November 20-22, 2017, the second Jicable International Symposium on HVDC Cable Systems took place in Dunkirk. For three days 245 registered professionals met at the conference center in Dunkirk to discuss the status and trends of HVDC cable systems. Many existing personal relationships were strengthened, new ones were established and in-depth technical discussions filled the air and thrilled the participants.

## Preparation

The preparation of the symposium has been taken very seriously and has proven a key to success. Already at the end of the previous HVDC symposium back in 2013 experiences of that Symposium were summarized. During May 2016, thirteen French experts evaluated these experiences and decided to propose the next Jicable HVDC symposium to be held in 2017. It was decided to organize a workshop in 2016 for the preparation and a first selection of international experts was made. The themes of the Jicable Symposium 2017 were discussed and decided during the workshop in August 2016 that took place in Palais des Congrès in Paris. Finally, during the first meeting of the Jicable Organizing Committee in December 2016, the location – Dunkirk – was chosen and decided, the constitution of the International Scientific Technical Committee was made and the program was prepared.

The spirit and theme of the Symposium evolved out of trend observations. 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 converters types, but also for LCC converters.

From here six topics or foundations were selected on which the Symposium was built. The objective of the JICABLE Symposium was to address and discuss these topics:

- 1 - Research and current knowledge on the behaviour of materials for HVDC cables and accessories.
- 2 - State-of-the-Art of the development of extra high voltage DC extruded cables systems in the range from 400 to 700 kV.
- 3 - Technical coordination between converters and cable systems.
- 4 - Large transmission corridors: reliability of very long links including many joints, future technology alternative.
- 5 - Submarine cables installation: lessons learned from experience, installation in harsh environment.
- 6 - Submarine asset management & submarine cable repairs in case of faults.

## Organization

The Jicable'17 International Symposium was organized by a number of institutes and with the technical support of even more organizations. Furthermore, an Organization Committee, a Steering Committee and an International Scientific and Technical Committee (ISTC) have worked to make the Symposium to the success it has become.

The Jicable'17 HVDC Symposium was organized by **Jicable**, International Conference on Insulated Power Cables, **SEE**, Société de l'Electricité, de l'Electronique et des Technologies de l'Information et de la Communication, **SYCABEL**, Syndicat Professionnel des Fabricants de Fils et Câbles Electriques et de Communication, **ENEDIS**, L'Electricité en Réseau, France, **RTE**, Réseau de Transport d'Electricité, **SERCE**, Syndicat des Entreprises de Génie Electrique et Climatique,...



