

Corona and Field Effects from AC and DC Transmission Lines: Past, Present and Future

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Corona and field effects have been very important considerations in the design of high voltage ac and dc transmission lines and, therefore, played a prominent role in the activities of the IEEE Transmission and Distribution Committee. A number of useful measurement standards and guidelines were developed in the last four decades. However, with the limited construction of high voltage transmission lines, particularly in North America, interest in IEEE activities in corona and field effects has decreased over the past ten years. There is now a resurgence of interest outside North America for using higher ac and dc transmission voltages and there are signs that there may be renewed interest even in North America.

In this informal presentation, the past achievements of the corona and field effects group in IEEE as well as the future needs and expectations will be reviewed.