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System studies of HVDC power transmissions and back-to-backs.

A brief review of studies on the systemic aspects of HVDC power transmissions and back-to-backs applicans, carried out by the department of electrical systems from its establishing to the present day is given.

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Key words: high voltage direct current power transmissions and back-to-backs, power systems, physical and digital simulation, control characteristics, static stability, fields of application, impact of HVDC on reliability, multi-terminal HVDC power transmissions, back-to-backs using voltage source converters, application prospects.

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