

Global trends in the development of DC power transmission technologies and power electronics for power systems (the review of 47th CIGRE session papers).

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Review of papers made by Study Committee B4 «DC systems and power electronics» during 47CIGRE Session 2018 is given. Key topics of discussions were: HVDC grids: design, control, protection, problems of the joint operation of the converters supplied by various manufacturers; integration of offshore wind farms using HVDC grids; hybrid power transmissions containing current converters and voltage converters; low-voltage DC grids; new power semiconductor devices with improved performance.

Keywords: modular multilevel converter, wind power plant, HV and LV DC grids, hybride HVDC power transmission, interoperability.