Suslova O. V.

State-of-the-art of HVDC power transmissions and development of their application in the global power industry (review of 45th CIGRE Session reports).

Review of presentations made by Study Committee B4 «HVDC and power electronics» during 45th CIGRE Session is given. Key topics of discussions were: modular multilevel converters, connection of off-shore intermittent power sources, DC grid economics, and control and protection issues, research work of UHVDC power transmission for transmit bulk electrical power over long distances.

Key-words: high voltage direct current power transmission, voltage source converter, modular multi-level converter, offshore windfarm, direct current grid, ultra high voltage direct current (UHVDC) power transmission.

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