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R&D and application of HVDC power transmissions in China.

Review of main trends of R&D and application of HVDC power transmissions in China is given. Key trends: UHVDC power transmissions for transmit bulk electrical power over long distances and increase their capacity, HVDC power transmissions using modular multilevel voltage converters, DC grid economics, and control and protection issues, DC grid for offshore wind farm integration.

Key words: Ultra high voltage direct current (UHVDC) power transmission, HVDC power transmission using voltage source converter, modular multilevel voltage converter, offshore windfarm, direct current grid.

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