

Recent Progress of the Demonstration of Superconducting Power Technology in China

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Abstract - In last decades, the electric power demand has been rapidly growing in China, leading to the need for large-capacity power transmission at long-distances, stability of the transmission grid and improvement of power quality. Superconducting power technology could be a possible answer satisfying these needs. Therefore, several superconducting grid components have been developed and demonstrated recently. In this report, we will briefly describe the demonstrations of superconducting power technology in a power substation, DC power cable and fault current limiter.

Keywords - Superconducting power substation, DC superconducting power cable, superconducting fault current limiter

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