

专家论坛

多端高压直流输电技术及应用前景

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摘要:

随着高压直流输电技术的发展, 多端直流输电技术受到了越来越多的关注。阐述了高压直流断路器、多端直流输电系统在控制、多端直流仿真分析技术的研究现状, 以及新型多端直流输电技术的发展趋势。对我国多端直流输电系统的发展前景进行了展望, 初步分析认为多端直流输电技术在我国具有重大的发展潜力和广阔的应用前景, 并给出了多端直流输电在我国的应用情景的分析结果。

关键词:

Multi-Terminal HVDC Transmission Technologies and Its Application Prospects in China

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Abstract:

With the development of HVDC technology, multi-terminal DC (MTDC) transmission technology has received increasing attentions. The situations of HVDC circuit breakers, MTDC control, MTDC simulation, and the developing trends of novel MTDC technologies are presented in the paper. Then, the application prospect of MTDC transmission system in China was analyzed, and the significant development potential and broad application prospect of MTDC in China were concluded. Finally, some specific application scenarios of MTDC in China were demonstrated.

Keywords:

收稿日期 2010-08-17 修回日期 2009-10-18 网络版发布日期 2010-09-08

DOI:

基金项目:

基金项目: “十一五” 国家科技支撑计划重大项目(2006BAA02A27); 国家电网公司科技项目

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