



特高压直流输电系统无功控制策略研究

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摘要: 介绍特高压直流输电系统中无功控制的滤波器的配置策略、滤波器投切顺序控制、滤波器限电流控制、无功控制和电压控制、滤波器无功控制及无功定置自适应控制、谐波性能控制、分离母线无功控制、CSD控制、无功和电压测量异常处理, 零功率试验时无功控制处理, Gamma Kick控制, 并进行必要的分析, 提出了有利于现场运行的有效建议。

关键词: 特高压直流输电; 无功控制; 交流滤波器; 谐波性能

Study on Strategy of Reactive Power Control in UHVDC Systems

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Abstract: Several issues are introduced, including reactive power subbanks configuration strategy, AC filter switching sequence, AC filter current limitation, reactive power and voltage control mode, AC filter reactive power setting adjustment, AC filter harmonic performance, split bus reactive power control, controller shutdown control, processing when reactive power and voltage measuring value is abnormal, reactive power control when zero power testing, and gamma kick control in UHVDC. Some effective advice valuable to site operation are proposed.

Key words: UHVDC; reactive power control; AC filter; harmonic performance

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