美国输电线路典型设计概况及对我国电网工程设计建设的启示

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为汲取国外输电线路设计的先进经验,国家电网公司组团考察了美国的输电线路。重点调研了美国输电线路的设计标准与我国的异同、美国在输电线路方面的杆塔规划原则及分析方法、新材料和新技术的应用情况、环境保护问题的标准和解决措施等内容,提出了完善我国输电线路设计标准体系、加强统一规划、加大高强钢应用力度等建议。

关键词 美国输电线路; 典型设计; 电网规划与建设

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General Situation of Typical Transmission Line Design in USA and Its Enlightenment to Design and Construction of Power Grids in China

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To draw advanced experiences from design of transmission line abroad, an investigation on transmission lines in USA was organized by the Capital Construction Department of State Grid Corporation of China. The emphasis of the investigation lies in following aspects, i.e., the similarities and differences in transmission line design standards adopted in USA and China respectively, the planning principle for transmission towers and its analysis method in USA, application of new materials and new technologies, standards of environmental protection and related measures and so on. On this basis the suggestions, such as perfecting the design standard system for transmission lines in China, enhancing unified programming and spreading the application of high strength steel, are proposed.

Key words transmission lines in USA; typical design; power grid planning and construction

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