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输配电网协调发展合理投资比例研究

摘要

随着我国经济的持续稳健发展,电网建设进入了一个快速发展时期。合理的电网建设投资,对保证电网安全及经济运行、促进电网的可持续发展具有重要意义。受国家电网公司的委托,国电动力经济研究中心对我国输配电网规模及投资比例进行研究和论证,以国家电网公司供电区域的各网省公司电网为主要研究对象,分析了各电网分电压等级规模比例,分析了电网规模与装机和负荷的比例关系,估算了历史上各电网的输配投资比例。从对全国及各网省公司历史输配投资比例的估算结果和对各网省公司输电网合理投资比例的分析来看,全国及各网省公司输电网投资比例以 55% 左右为宜,波动范围为 5 个百分点。

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A study on investment ratio between transmission and distribution system

Abstract :With the persistent development of economy in our country, power grid is expanding rapidly. Reasonable investment on power grid is very important to ensure power grid security and economic operation and to promote sustainable development in transmission and distribution system. Physical scale and investment ratio between transmission and distribution system in our country has been studied. Reasonable advice and referential index that may guide the investment for power grid has been promoted.

Grids of National Grid Corporation (NG), such as some province grid and all regional grids, which include several province grids, are mainly studied in this report. Other power grids, such as Southern Grid and some foreign grids are also considered. The length ratio of transmission line and transformer capability ratio under different voltage grade are analyzed. Ratio of physical scale of power grid and corresponding generator capability or load is also analyzed. Investment ratio of transmission and distribution system in recent years is estimated. As a result, the reasonable ratio of transmission system is about 50 ±5% in most grids in NG.