

配电网线路损耗原因及对策研究

摘要

经过 40 年改革开放的发展，我国经济发展态势一路向好，电力基础设施建设取得了翻天覆地的变化，随着而来的电力需求也随之水涨船高。但是，我们也必须清晰地认识到当前电力资源及国际能源紧张的局势仍在加剧。为此，在保障全社会安全、稳定用电的前提下，如何实现电网经济运行显得意义重大。按照电网平均 8% 的线损计算，仅 2018 年就造成 5600 亿千瓦时的电力浪费，由此可见，深入研究、分析电网线损的产生机理，采取有效措施，实现配电网线路损耗的有效下降，无论对于电网企业经营的经济性，还是对于促进我国节能型社会的建设都具有十分显著的实际意义。在此背景之下，本文选择配电网线路损耗进行深入研究与分析，重点对配电网线路损耗发生的原因进行深入分析，并以此为基础，结合自身理论知识，给出切实可行且有针对性的解决措施，为提升配电网运行的经济性提供基本借鉴。为此，本课题以配电网线路损耗为研究对象，重点对配电网线路损耗发生的原因进行深入分析，并以此为基础，结合自身理论知识，给出切实可行且有针对性的解决措施，同时，引入具体案例，对配电网线路损耗问题进行具体原因与对策分析，为提升配电网运行的经济性提供基本借鉴。

关键词：配电网；线路损耗；经济运行

ABSTRACT

After 40 years of reform and opening up, my country's economic development trend has been improving all the way. Power infrastructure construction has undergone earth-shaking changes, and the resulting power demand has also risen. However, we must also clearly recognize that the current power resources and international energy tensions are still increasing. For this reason, how to realize the economic operation of the power grid is of great significance under the premise of ensuring the safety of the whole society and stable power consumption. According to the calculation of the average line loss of 8% of the power grid, in 2018 alone, 560 billion kilowatt-hours of electricity was wasted. It can be seen that in-depth research and analysis of the generation mechanism of power grid line loss and effective measures are taken to realize the effective line loss of distribution network Decline has significant practical significance for the economics of the operation of power grid companies and for promoting the construction of an energy-saving society in my country. In this context, this article selects the distribution network line loss for in-depth research and analysis, focusing on the in-depth analysis of the causes of the distribution network line loss, and on this basis, combined with its own theoretical knowledge, give practical and effective Targeted solutions provide a basic reference for improving the economic efficiency of distribution network operation. For this reason, this topic takes the distribution network line loss as the research object, and focuses on the in-depth analysis of the cause of the distribution network line loss. Based on this, combined with own theoretical knowledge, a practical and targeted solution is given. At the same time, specific cases are introduced to analyze the specific causes and countermeasures of the distribution network line loss problem, and provide a basic reference for improving the economic efficiency of the distribution network.

Keywords: Distribution Network; Line Loss; The Economic Operation

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