

摘要

火电厂是推行节能减排发展战略的重点企业。而汽轮机是燃煤发电设备的三大主机设备之一，在电站发电的整个过程中起到了不可替代的作用，其节能降耗程度将直接影响电站的整体能耗水平。

因此，本文通过详细分析各种因素对汽轮机机组能耗的影响，寻找汽轮机节能降耗的具体途径以及对汽轮机节能降耗的主要应用技术的综合研究，获得发电厂汽轮机运行的最大经济利益。为推动电力企业的降本增效提供参考依据。结果表明，对汽轮机本体系统、回热系统、冷端系统的改造均可在一定程度上降低汽轮机系统的发电能耗，达到节能降耗的目的。

关键词：电站；汽轮机；深度节能降耗；应用技术

ABSTRACT

Thermal power plants are the key enterprises to implement the development strategy of energy conservation and emission reduction. The steam turbine is one of the three main equipments of coal-fired power generation equipment. It plays an irreplaceable role in the entire process of power generation in the power station. The degree of energy saving and consumption will directly affect the overall energy consumption level of the power station.

Therefore, this paper starts with the method of deep energy saving and consumption reduction of steam turbines in power stations, analyzes in detail the influence of various factors on the energy efficiency of steam turbine units, and comprehensively studies the key application technologies of deep energy saving and consumption reduction of steam turbines, so as to maximize the operation of power station turbines. The economic benefits provide a reference for promoting the cost reduction and efficiency improvement of power companies. The results show that the reform of the turbine body system, the regenerative system, and the cold-end system can all reduce the power consumption of the steam turbine system to a certain extent, and achieve the purpose of energy conservation and consumption reduction.

Key words: Power station; Steam turbine; Deep energy saving; Application technology

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