

多能互补能源形势下燃煤火电机组灵活性改造策略的应用与研究 【上架时间： 2023-03-30】



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【标题】多能互补能源形势下燃煤火电机组灵活性改造策略的应用与研究

【Title】Application and Research on flexible transformation strategy of coal-fired thermal power unit under the situation of multi energy complementary energy

【摘要】为积极贯彻落实国家“碳达峰”战略目标，支撑新能源高比例消纳和高质量发展，积极推动火电企业参与火电灵活性改造，通过运行灵活性提升改造，预期实现机组最低发电出力由50%降至20(或30)%，增加电源调节能力；灵活性改造后可在相应工况下长时间按最低出力稳定运行，实施火电灵活性改造使机组具备一定的调峰能力后，有利于积极参与电网系统深度调峰辅助服务，将使得发电企业得到可观的补偿，其行业内竞争力大幅提升，对于缓解企业日益严峻的生产经营压力和能源行业供需矛盾，合理保护自然资源，促进生态环境良性循环具有十分积极的意义。

【Abstract】In order to actively implement the national "carbon peak" strategic goal, support the high proportion of new energy consumption and high-quality development, and actively promote thermal power enterprises to participate in thermal power flexibility transformation, through the improvement of operation flexibility, it is expected to reduce the minimum power output of units from 50% to 20 (or 30)%; Increase power regulation capacity; After the flexibility transformation, it can operate stably according to the minimum output for a long time under the corresponding working conditions. After the thermal power flexibility transformation is implemented to make the unit have a certain peak shaving capacity, it is conducive to actively participate in the in-depth peak shaving auxiliary services of the power grid system, which will enable the power generation enterprises to receive considerable compensation and greatly enhance their competitiveness in the industry, It is of great significance to alleviate the increasingly severe production and operation pressure of enterprises and the contradiction between supply and demand in the energy industry, reasonably protect natural resources and promote a virtuous cycle of ecological environment.

【关键词】碳达峰；火力发电；灵活性改造；分析研究

【Keywords】Carbon peak; Thermal power generation; Flexibility transformation; Analysis and research

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