

电力市场

基于多目标分组的中长期计划编制方法及系统应用

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摘要: 为解决不同省份中长期计划编制差异化问题, 提出了一种可灵活拓展的多目标分组计划编制方法。该方法可根据需求按系统总煤耗、排污、网损、购电成本等各种要素灵活配置优化目标, 目前已系统实现并在多省部署实施。应用效果表明, 该方法能较好地兼顾多目标综合效益, 有较强的通用性, 具备推广意义。

关键词: 分组 多目标 计划编制

A Multi-Objective Clustering-Based Method to Draft Medium- and Long-Term Schedules for Power Generation and Purchase and Its Application

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Abstract:

The drafting of provincial medium-and long-term schedule for power generation and purchase differs from province to province. To solve this problem, a method to draft provincial medium-and long-term schedule for power generation and purchase, which is based on multi-objective clustering and can be flexibly expanded, is proposed. Based on the requirement, the proposed method can flexibly set up the optimized objectives according to total coal consumption, pollutant emission, network loss and cost of electricity purchase of power grid, and at present the proposed method is realized and applied in many provincial power grids. Application results show that the proposed method can take the effects of multi-objectives into account and is a versatile.

Keywords: clustering multi-objective draft plan

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