

## 基于博弈论和灰色关联度的区域电力市场运营效果评价指标体系

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### 摘要

首先对以往输电网的运营经济性进行了评价, 并在此基础上建立了区域电力市场运营效果评价指标体系。为克服采用单一方法确定权重所存在的片面性, 采用基于博弈论的组合权重确定方法来确定指标的权重。在对我国区域电力市场的现存运营模式进行分析比较后, 结合电力市场的特性建立了改进的灰色关联度决策模型, 并对我国六大区域电力市场的运营效果进行了综合评价。

关键词 [区域电力市场; 运营效果; 博弈论; 灰色关联度; 综合评价](#)

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## Game Theory and Gray Incidence Degree Based Appraisalment Index System for Operation Effect of Regional Electricity Market

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### Abstract

Firstly the former operation economy of power transmission network is evaluated, on this basis an appraisalment index system for operation effect of regional electricity market is established. To correct the one-sidedness caused by determining weights by single method, drawing on the thinking of combination weight and by use of game theory to determine the weight of indices. After the analysis and comparison of present operation modes of domestic regional electricity markets as well as considering the features of electricity market, an improved gray incidence degree decision-making model is proposed, and the comprehensive evaluation of operation effects of six main areal electricity markets in China are performed by the proposed model.

Key words [regional electricity market; operation effects; game theory; gray incidence degree; comprehensive evaluation.](#)

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