

电力市场

## 兼顾市场机制的主要节能发电调度模式比较研究

尚金成

河南电网电力交易中心, 河南省 郑州市 450052

收稿日期 2007-9-13 修回日期 网络版发布日期 2008-2-21 接受日期

摘要

首先给出了在设计节能发电调度模式(模型)及运作机制时需要遵循的一般原则; 然后结合中国国情, 以电网安全稳定运行及连续可靠供电为约束, 以节能、环保、经济、公平为目标, 从节能发电调度的纯行政命令模式(计划调控、政府宏观调控)、计划调控与市场机制相结合模式到完全市场竞争模式, 设计了实施节能发电调度的7种主要模式并进行了比较研究, 分析了每种模式的优缺点, 设定了每种模式实现的前提条件; 同时设计了节能发电调度在过渡期内的4种经济补偿机制和结算模式, 并进行了比较分析。最后提出了节能发电调度由纯行政命令模式向完全市场竞争模式过渡的几种过渡方式。

关键词

节能减排; 电力结构调整; 节能发电调度; 调度模式; 市场机制; 计划调控; 替代发电; 利益调整; 经济补偿机制; 和谐多赢; 机制设计; 帕累托改进; 比较研究

分类号 F123.9

## Comparative Research on Main Energy-Saving Generation Dispatching Model Considering Market Mechanism

SHANG Jin-cheng

Henan Grid Power Exchange Center, Zhengzhou 450052, Henan Province, China

Abstract

In this paper the general principles to be abided by during the design of energy saving generation dispatching mode and operation mechanism are given. According to actual situation in China, taking secure and stable operation of power system and continuous and reliable power supply as constraints as well as energy saving, environment protection, economy and fairness as objectives, seven main energy saving generation dispatching modes, which are from pure administrative decree mode, namely planned regulation and government macro control, the mode combining planned regulation with market mechanism to complete market competition mode, are designed and the comparative research on them are performed. The advantages and shortcomings of each mode are analyzed and the prerequisite conditions for the implementation of each mode are enacted; meanwhile four economic compensation mechanisms and settlement patterns for energy saving generation dispatching during transition period are given and corresponding comparative analysis is conducted. Finally, several transition modes for energy saving generation dispatching, by which the pure administrative decree mode transits to complete market competition mode, are proposed.

Key words

energy saving and pollutant reduction; electric power structural adjustment; energy saving generation dispatching; dispatching model; market mechanism; planned regulation; substitute generation; benefit adjustment; economic compensation mechanism; harmonic multi-wining; mechanism design; Pareto improvement; comparative research

DOI:

通讯作者 尚金成 [jinchengshang@vip.sina.com](mailto:jinchengshang@vip.sina.com)

作者个人主页 尚金成

### 扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF \(223KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献\[PDF\]](#)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含 “](#)

[节能减排](#); [电力结构调整](#); [节能发电调度](#); [调度模式](#); [市场机制](#); [计划调控](#); [替代发电](#); [利益调整](#); [经济补偿机制](#); [和谐多赢](#); [机制设计](#); [帕累托改进](#); [比较研究](#)

[”的 相关文章](#)

▶ [本文作者相关文章](#)

· [尚金成](#)