

电力市场

电力市场碳排放权可调分配机制设计与分析

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摘要:

过度消耗化石燃料所导致的全球气候变暖对人类生存和发展提出了严峻挑战。碳排放交易是应对气候变化、实现低碳化可持续发展的重要途径,而碳排放权的合理有效分配又是碳排放交易成功实现减排的关键步骤。在引入传统碳排放权分配模型的基础上,结合我国电力行业的市场特点,提出了一种碳排放权可调分配机制,将一次性排放权分配划分为若干阶段,并通过模型分析得出可调分配机制的最优设计。该分配机制细化了排放权的分配,使当市场存在市场力时也能以最小成本实现减排。

关键词:

Design and Analysis of Adjustable Carbon Emissions Allocation Mechanism in Electricity Market

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Abstract:

Global climate warming caused by excessive consumption of fossil fuels gives serious challenge to human survival and development. Carbon emissions trading is an important approach to answer climate change and implement sustainable development accompanying with low-carbon, and reasonable and effective allocation of carbon emission permit is the critical step for successful implementation of emission reduction in carbon emission trading. On the basis of leading in traditional allocation model of carbon emission permit and considering market features of power sector in China, an adjustable allocation mechanism of carbon emission permit is proposed, in which the allocation of disposable carbon emission permit is divided into several stages, and by means of model analysis the optimal design of adjustable allocation mechanism can be attained. This allocation mechanism elaborates the allocation of emission permit and makes it possible that the emission reduction could be implemented if there were market power in electricity market.

Keywords:

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