

Evaluation method of power transaction compliance based on market two-level indicators

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Introduction

We consider the market players on the power generation side (including new energy) and the customer side, and consider the production and operation, financial status, performance capability and compliance of market transactions of market players, and construct the compliance regulation indexes for power trading.

Methods

Violations that can be determined through trading rules and relevant laws and regulations can be directly punished and controlled; while identifying potential violations must establish an effective method to discern and monitor them and provide an early warning role.

Comprehensive evaluation of power generation side transaction	Market power	Supply-demand ratio
		Relative concentration ratio
	Profitability	Supplier required operating rate
		Indicator of surplus supply rate
	Bidding strategy	Withholding proportion
		Quotation security
		Quotation relative percentage
	Excess earnings	Quotation consistency
		Low bid winning rate
		High bid winning rate
		Quotation success rate

Results

It is necessary to establish the theoretical basis for the establishment of the power trading regulation index system, to establish an index system for the comprehensive evaluation of the whole process regulation of power trading, and to provide strong support for the regulatory decision-making and rule revision of the market. In this paper, we analyze the compliance risks that may arise from the production and operation, financial and trading aspects of several different types of market players participating in the electricity market before and after bidding, and take power generation enterprises and power users as the analysis objects. Then, based on the principles of index system establishment, the credit evaluation index systems of power generation enterprises and power users are established respectively, and the necessary elaboration and explanation of the main indexes are provided to make the whole index system complete and practical.

Conclusions

The compliance risk evaluation of electric power production enterprises will be of great significance to China's market economy system. At the same time, it is of reference significance to the construction of credit evaluation system of other industries such as financial industry and industrial enterprises. Therefore, in view of the compliance risk factors faced by the electric power production industry and the important role played by the evaluation, the establishment of a reasonable enterprise compliance risk evaluation index system, the empirical study of risk evaluation, and the construction of a reasonable performance evaluation model can provide reference for other industries or third-party evaluation agencies.