

Comparative study on incremental distribution network participation in electricity market between China and foreign countries

202204130000125

Peiheng Duan
Settlement Supervisor of Settlement and Statistics Department
Kunming Power Exchange Center Co. Ltd.
Kunming, 650011, Yunnan, China
794176455@qq.com

Background of incremental distribution network in China

In order to promote the sound and rapid development of the power industry, the central government issued several opinions on further deepening the reform of the power system in March 2015, which put forward the key points and paths of deepening the reform of the power system. On the basis of further improving the separation of government and enterprises, plant network and main and auxiliary, according to the institutional framework of "controlling the middle and liberalizing both ends", Orderly liberalize the price of competitive links other than transmission and distribution, orderly open the power distribution business to social capital, and orderly liberalize the power generation and consumption plans other than public welfare and regulation; Promote the relatively independent and standardized operation of trading institutions; Continue to deepen the research on regional power grid construction and transmission and distribution system suitable for China's national conditions; Further strengthen government supervision, further strengthen overall power planning, and further strengthen safe and efficient operation and reliable supply of power.

The purpose of incremental distribution network reform in China

A.Introduce social capital to promote the construction and development of distribution network.

B.Promote the operation efficiency and service of distribution network by introducing competition.

C.Explore the development model of mixed ownership in natural monopoly industries.

D.Revitalize a large number of user side distribution assets and improve the utilization rate of social capital.

Overview and supervision of foreign distribution networks participating in market-oriented transactions

- A.Operation of foreign distribution network
- B.Main supervision modes of distribution network abroad
- C.Experience and Enlightenment of foreign distribution network

Business development of incremental distribution network in China

- A.Overall national situation
- B.Development of incremental distribution network business in five provinces and regions of China Southern Power Grid

Development proposals

A.The pricing method of distribution price shall be introduced as soon as possible to connect with the power grid transmission price in an orderly manner.

B.Strictly and rigidly implement the reform policy and strengthen the process supervision of incremental distribution network projects.

Conclusion

Aiming at the new incremental distribution network business under the power system reform, this paper analyzes the goal of incremental distribution network reform and development. The operation and supervision of foreign distribution network market are studied, and the advanced experience and beneficial enlightenment of foreign mature distribution network are refined. It also studies the development of China's incremental distribution network since its inception, and focuses on the comparative analysis of the differences, advantages and disadvantages of the five provinces and regions of China Southern Power Grid in transaction organization, price formulation and adjustment, settlement methods and so on. Finally, combined with the reality of China, reasonable suggestions are put forward for the reform and development of incremental distribution network.