

论文

基于激励相容原理的大用户直购电模型与机制研究

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摘要:

大用户直购电是大用户与发电企业直接进行电力购销的一种双边交易模式, 是中国电力体制改革的重要内容之一。该文建立了发电厂、大用户和电网公司3方的利润模型, 分析用户的购电电价发生变化时, 直购电参与3方的利润变化。基于机制设计理论的激励相容原理, 讨论满足直购电试点3方各自分散决策(当购电电价下降时, 希望自身的利润增加, 或者至少不下降)下的用户电量增长预期的表述形式, 以及实现3者共赢的用户电量增长预期的表述形式, 提出促进直购电试点的政策要点。针对内蒙古自治区大用户直购电试点方案中的“网时补偿”政策进行剖析, 指出该政策符合激励相容原理, 有利于充分发挥发电厂的积极性, 能够进一步降低试点改革的阻力。

关键词: 大用户直购电 激励相容原理 网时补偿 电力市场机制

Research on Model and Mechanism of Large Consumers Direct-purchasing Based on Incentive Compatibility Principle

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Abstract:

Direct-power-purchasing of large consumer is a bilateral agreement model between large consumers and power generation enterprises. Direct-power-purchasing of large consumer pilot is one of the vital practice of China electric power system reform. A three-party profit model among power plants, large consumers and grid companies was build. Based on incentive compatibility principle of mechanism design theory, the prospective expressions of the power consuming increase as well as the three-party win-win achievement were discussed to meet the individual intent of these three-party in large consumers direct-purchasing pilot (each party expect that their profit could increase or keep the original level at least when the purchasing power tariff drop down). The article analyzed the 'utilization hour compensation' policy for the pilot project of direct-power-purchasing of large consumer implemented in Inner Mongolia Municipality. It was indicated that the policy is reasonable. It will motivate the power plants enthusiasm significantly and further reduce the resistance of the pilot reform accordingly.

Keywords: direct-power-purchasing of large consumer incentive compatibility principle utilization hour compensation power market mechanism

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