

عنوان مقاله:

Measuring Performance of Power Plants by an Integrated DEA-Game Theory Approach

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نویسندگان:

,Alireza Moini - Science and Technology, Tehran, Iran

Mustafa Jahangoshai Rezaee

خلاصه مقاله:

In various studies for assessment of power generation units, data envelopment analysis (DEA) and balanced scorecard (BSC) are the common methods used for performance evaluation. To increase the power of the method in terms of distinguishing between efficient and inefficient decision making units (DMUs), the number of units being evaluated must be proportional to the number of variables (inputs and outputs). In other words, the number of efficient DMUs relies on the number of variables. On the other hand, in real case study, it is necessary to explore how to combine multi categories of measures in a unified evaluation framework. This paper introduces integrated DEA and game theory approaches. In addition, we define measures based on BSC perspectives. BSC is used to categorize the efficiency measures. The abilities of the proposed approach have been shown by a case study of power plants in Iran.

کلمات کلیدی:

Game theory; Data envelopment analysis; Balanced scorecard; Unified performance; Power plants

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