

Title (en)
VALUING AND OPTIMIZING SCHEDULING OF GENERATION ASSETS

Title (de)
VALUIERUNG UND OPTIMIERUNG DER EINTEILUNG VON GENERATIONSKAPITAL

Title (fr)
EVALUATION ET OPTIMISATION DES PREVISIONS EN MATIERE D'EQUIPEMENTS DE PRODUCTIONS D'ENERGIE

Publication
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- US 33654203 A 20030102

Abstract (en)
[origin: WO03094414A2] The present invention provides methods and systems for determining anticipated profit from facilities such as electrical power generation facilities, for determining values for assets based on profitability of facilities, and for determining optimal operational scheduling options for facilities. Methods and systems are provided which utilize a dynamic programming algorithm and a decision tree based model in which one or more operating constraints are implicitly modeled, facilitating computational tractability. Additionally, methods and systems are provided that utilize a dynamic programming algorithm and a decision tree based model that . accounts for a combined effect of price paths with specified uncertainty as well as operational constraints. Furthermore, methods and systems are provided that address profitability, valuation, and scheduling in relation to a group, or portfolio, of facilities, accounting for liquidity factors as well as group, or global, constraints.

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Citation (search report)

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- [X] US 6185483 B1 20010206 - DREES KIRK H [US]
- [AD] ROGER BJORGAN ET AL: "Financial Risk Management in a Competitive Electricity Market", IEEE TRANSACTIONS ON POWER SYSTEMS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 14, no. 4, November 1999 (1999-11-01), pages 1285 - 1291, XP011089520, ISSN: 0885-8950
- See references of WO 03094414A2

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