

**OPTIMAL MAINTENANCE SCHEDULE OF CONVENTIONAL GENERATING UNITS IN A COMPETITIVE ELECTRICITY MARKET**

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**ABSTRACT**

The present paper proposes a planning approach to develop an optimal maintenance scheduling of conventional thermoelectrical units in a competitive electricity market, to satisfy the maximum demand of electricity at the minimum cost in the long run. This approach is based in the application, in an iterative way, of Bender Decomposition Method in electricity network where generation companies (EGEs) and the Independent System Operator (ISO) have different objectives in the market.

**Keywords:** Maintenance Schedule, Generating Units, Electricity Competitive Market, Power Dispatch, Bender Decomposition Method.

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