

Deregulation, privatization, and competition: Transmission planning under uncertainty

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Abstract-

Competitive markets expose transmission planners to new uncertainties. These are handled using a decision-analysis approach whose key contribution is quantifying and minimizing risk. The method is applied using existing and generally-available software tools. The result is transmission plan which is robust in the face of uncertainties. A study of a major proposed Central-American interconnection illustrates the problem and the method.

Index Terms- Power transmission planning, decision-making, uncertainty, risk, robustness, competition

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