

CMU Abstract

Clearing the Fog of Assumptions: Real Time Visibility Delivers Big Market Efficiency from Dynamic Line Ratings

Oncor's recent co-funded Smart Grid Demonstration Project (SGDP) demonstrates next-generation SCADA technique by jettisoning assumptions for real-time information in a key area: thermal ratings for overhead transmission lines. This presentation quantifies the economic costs of thermally constrained lines; compares traditional line rating methodology with real time monitoring methods; summarizes the operational breakthroughs of integrating real time ratings into market dispatch; and explores how the SGDP results are already being extended to new areas.

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