

Abstract

Electric Power System Construction Planning

Track: Architecture Engineering Construction

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As PJM assumes North American Electric Reliability Council duties and anticipates further growth,

the Transmission and Interconnection Planning Department is taking an innovative, proactive approach

by developing the use of integrated decision support tools such as a Geographic Information System (GIS).

A unique benefit of a GIS will be the ability to rapidly evaluate system expansions and their respective

impacts on the overall system by linking critical project, financial and scheduling information with

system mapping data. In this manner, the GIS will effectively leverage existing PJM business processes

and methodologies with new mapping, visualization, planning, and analysis tools.

Over 250 generation, substation and transmission line projects are currently being monitored and coordinated

by the System Planning Division. The existing construction projects are coordinated through the management

of multiple databases. Due to the size of the existing territory and potential for market growth, it is increasingly

difficult to adequately coordinate the construction activities for external transmission owners, project

developers, and internal PJM integration. The efficiency of this coordination can be increased significantly

by integrating ArcGIS/ArcSDE with an enterprise project management system, such as Microsoft Project server.

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