

# Abstract

## **Substation/Transmission Location Site Analysis**

**Track:** Education

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Geographic Information System's influence has grown in the field of electrical power systems in recent years. Its influence will continue to increase as professionals in the field realize the benefits that GIS can offer their industry. Commonwealth Associates, Inc. (CAI) provides guidance and data in order to help them accomplish their goal of integrating spatial attributes into their database. As a result this project will provide the electric utility industry with new, more efficient methods in both locating and developing new resources and facilities. Property owners will profit from the placement of facilities in more acceptable locations. The general public will benefit through the reduced costs of electrical power and an improved environment. These improvements will include visual aspects of the environment, the local air quality, and the local land use. The completion of this project will provide CAI with new techniques and/or technologies that will aid it in accomplishing its goal to create an improved version of its PNDM Suite, resulting in improved marketability and an increase in sales.

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