

## **Pole-Vault Reporting System**

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In rural areas, cooperative electric companies such as Guernsey-Muskingum Electric provide electricity mainly to farmers in heavily wooded areas. There are two main problems that cause outages for these companies: decaying electric poles and dead trees near electric lines. Currently, there are two methods for locating damaged poles: 10 % of the poles are inspected annually and poles are inspected during service calls. Due to the high number of poles, those methods are still insufficient.

A system is being developed that will allow customers of Guernsey Muskingum Electric to report damaged poles, dead trees, and their location. This system will consist of three parts. First, a web page has been created that allows customers to report problems and their locations. Second, reports are stored in a database using Microsoft Access. Finally, an application is being developed in order to provide a way for the user to filter data and view pole locations on a map. The team will present the most recent version of the system.