

Traverse City Light & Power

Project Title

GIS Electric System Geodatabase Project

Project Description

For a number of years, Traverse City Light & Power (TCLP) has maintained electric system mapping in AutoCad format. With the maturity of the City's GIS and a move towards a more robust and central information system within TCLP, they wish to realize the advantages of GIS for themselves and utilize ESRI's geodatabase for the mapping portion of their enterprise system.

InfoGeographics has been contracted to design and transform the existing electric system data as well as provide training and look at short and long-term applications of the system.

Project Responsibilities

InfoGeographics followed a structured methodology to accomplish the project goals. These entail the following steps and methods:

Database Logical Design

- UML design using Visio Enterprise
- Ensuring compatibility with GIS mapping already existing for the City of Traverse City and the Grand Traverse County GIS Department
- Ensuring compatibility with the ArcGIS Electric Utility Geodatabase Model
- Ensuring that the design can accommodate easy maintenance of the system
- Ensuring that the design can accommodate the desired network routing components and connections to other database systems

GIS Applications Functional Specification

- Investigate and identify short and long term GIS Applications
- Detail the interface, nature of and general presentation of necessary data, and functional capabilities of the chosen Key Applications
- Provide documented Functional Specifications to serve as a blueprint for future development

Implementing the Schema, Importing, and Testing of the Electric System Data

- Transferring the UML geodatabase design through the Windows Repository into ArcInfo 8.x format
- Importing the existing AutoCad electric system data into the geodatabase
- Testing involving interactive and batch identification of features
- Testing the tracing/routing functionality to ensure proper junction-edge connectivity



Training & Miscellaneous Support

- Training of TCLP staff to maintain and improve the Electric System Geodatabase
- Other ad hoc tasks as assigned

Contact

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