



Reference Case Sho-Me Power

SHO-ME POWER ELECTRIC COOPERATIVE

About Sho-Me Power

Sho-Me Power is one of the largest electric transmission cooperatives in the state of Missouri. Sho-Me's 1,663 miles of transmission line provide service for 131 customer delivery points located in 125 distribution and transmission substations. 331 miles of Sho-Me owned 161 kV line and 138 miles of 161 kV line owned by others are operated and maintained by Sho-Me. Sho-Me also provides maintenance services for 217 miles of AECI owned 345 kV line and at 3 AECI 345 kV substations.

Though Sho-Me utilizes both GE Smallworld and the Physical Network Inventory (PNI) data model from GE in the office, none of this data was available to field technicians. Typically a field technician would either print out necessary mapping information before heading into the field or not bring any at all. In both scenarios the field technician would usually call the back office for additional mapping and facilities information. In essence mapping information was brought out to the field through verbal and phone communications. The system proved ineffective and time consuming for both the field technician and back office workers.

The Solution

Tensing met Sho-Me's need for facilities data in the field with Tensing Mobile GIS. Tensing Mobile GIS provides access of Sho-Me's entire GIS data base to field technicians. Field technicians no longer needed to spend time on the phone figuring out facilities information with back office workers or driving back to the office to pick up paper maps. They had all the asset information they needed on a laptop computer.

Sho-Me coupled Tensing Mobile GIS with a GPS unit to collect GPS locations of poles not currently in their database. Additionally they could map GPS coordinates on Tensing Mobile GIS to locate assets.

Tensing Mobile GIS also facilitated the need to make redline changes in the field. Field technicians utilized Tensing Mobile GIS to update network changes, keeping the GIS data up-to-date.

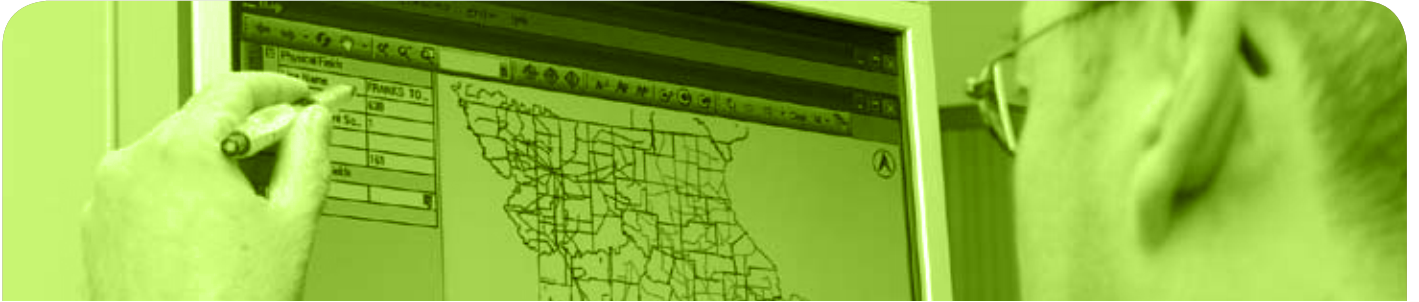
Sho-Me integrated Tensing's Microsoft Mappoint Module for additional geospatial data to complement their own data. Field technicians could map an addressing in MapPoint and simultaneously map that location in Tensing Mobile GIS, helping them locate assets more quickly. The two maps display side by side for easy reference.

Additionally Sho-Me uses Tensing Gateway, the extractor component, to extract data from their GE Smallworld GIS to display in Tensing Mobile GIS. Tensing Gateway is an easy to use component that utilizes data marshalling techniques for the fast extraction of data. With Tensing Gateway Sho-Me Power has the option extracting the entire data base or a specific geographic area. It also supports incremental updates. Tensing Gateway allows Sho-Me to refresh GIS data for their field technicians on a weekly basis, giving them up-to-date data in the field.

Tensing provided a complete solution to meet Sho-Me Powers needs for facilities data in the field. According to Andy Myers of Sho-Me Power, "Tensing Mobile GIS covered all of the needs for our field users to exploit the use of our corporate GIS out of the



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office.”

Delivered Solutions:

- Tensing Mobile GIS
- Tensing Gateway

