



## ESRI ArcGIS & TM&M ArcFM Implementation

A locally owned and controlled not-for-profit municipal utility, Garland Power & Light (GP&L) serves 68,000 customers, making them the third largest municipal utility in Texas and the 39th largest in the nation. Garland's electric distribution system has 1,007 miles of overhead lines and 1,000 miles of underground lines. Its transmission system consists of 22 substations and 133 miles of transmission lines.

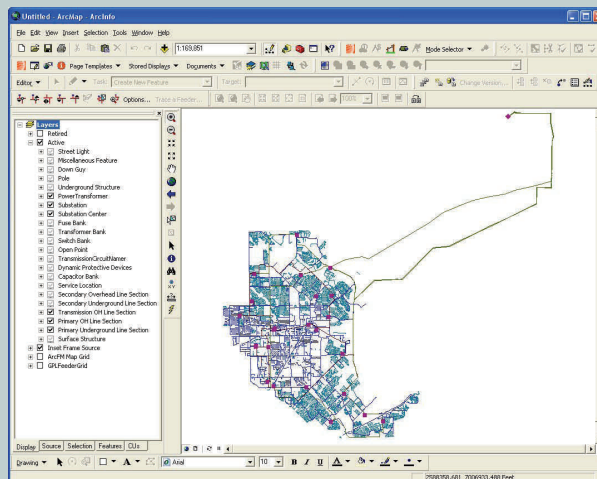
### Project Highlights:

- Data Conversion
- New Technology
- Product Training
- Feeder Manager

GP&L decided to purchase an enterprise GIS to alleviate the burden of working with disparate data and producing paper maps from multiple systems. After previously attempting two GIS implementations, GP&L needed an efficient, cost-effective solution for streamlining facility and asset management.

### Technology:

- ESRI ArcGIS Desktop
- ESRI ArcSDE
- TM&M ArcFM
- Microsoft SQL Server



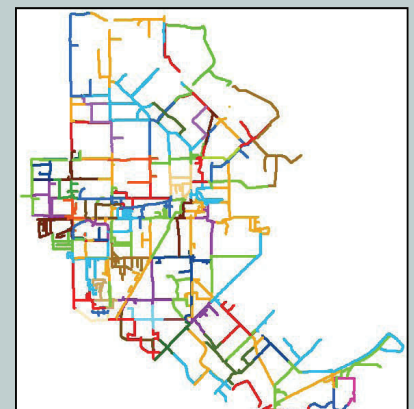
GP&L's data in ArcGIS with ArcFM

GP&L chose ESRI ArcGIS with Telvent Miner & Miner's ArcFM for its standard Multispeak model capabilities which allowed them to implement core functionality inexpensively and prepare for easy integration with future applications including work management, outage management, distribution planning, and CIS.

A TM&M project manager, now with SSP Innovations, began the project in September 2004 leading the data migration from shape files (line data) and an Access database (GPS point data) to the ESRI geodatabase. The data was mapped into the standard Multispeak model with minimal changes which allowed for use of the standard ArcGIS and ArcFM out of the box tools including Feeder Manager which provided network tracing for GP&L's 120 distribution circuits. The team also facilitated on-site training and completed a formal rollout of the data to the GIS group. The entire project was completed in just over three months with a small, highly productive team.

GP&L went into full production with ArcGIS Desktop and ArcFM in December 2004 and had their primary trunk feeders fully traced out and operational within a matter of weeks.

The new technology has allowed GP&L to minimize data redundancy and provided for the management of multiple business requirements in one system. This cost-effective three-month project set the stage for GP&L to continue developing their enterprise GIS. Since 2004 GP&L has partnered directly with SSP Innovations to extend the GIS to include transmission facilities as well as enhanced asset tracking and reporting for all asset types.



GP&L trunk feeders by FeederID