

Improve Data Accuracy with a Comprehensive Field Inventory and Data Collection Solution



AT A GLANCE

CLIENT CHALLENGES

- Inaccurate field and GIS data
- Multiple data sources
- Data export and import is a highly complex procedure
- Field survey data for the GIS required to run a robust OMS and DMS

CLIENT BENEFITS

- A pilot was conducted to demonstrate and verify the process's effectiveness and data understanding
- Significantly enhanced GIS data to reflect field conditions more accurately
- The revised data supports the functionality of future outage restorations and customer notifications
- Connectivity was corrected for each circuit

Business Need

RAMTeCH has been supporting Eversource Energy (Eversource), New England's largest energy provider serving more than 3.6 million natural gas and electric customers, in providing data management, asset, and managed services for over 11 years.

One of the most recent projects we completed for Eversource was a field inventory solution. Eversource was looking to improve its pole location, attribute information, and associated equipment GIS data accuracy as well as customer address verification fed by each individual transformer for its WMASS location.

RAMTeCH Solution

The project objective was to assess all of Eversource's WMASS Overhead (OH) facilities in the field and verify as well as analyze the data against the current assets existing within Eversource's GIS database. Utilizing our proprietary **Extract, Transfer, and Load** tool, RAMTeCH extracted the GIS data from Smallworld to an Esri format, verified it in the field, and uploaded it back into Eversource's Smallworld GIS. The additional asset services support included:

- Performing field inventory by updating the Esri data to reflect field conditions
- Importing the field-verified data back to Smallworld
- Performing QA/QC including automated checks
- Correcting connectivity and whitespace issues

Field Inventory ETL *Extract, Transfer, and Load*

The project started with an offshore team of 10 and quickly ramped up to 29 within four months to meet the timing needs of Eversource.

Results

The field inventory included adding, removing, or adjusting primary conductors and devices, secondary conductors, service lines, and meter points, as needed, which have included:

- 134,000 poles
- 220,000 metered services
- 29,845 OH transformers
- 208 circuits
- 88 substations