



Automated DR Screening and Solar Map

by:



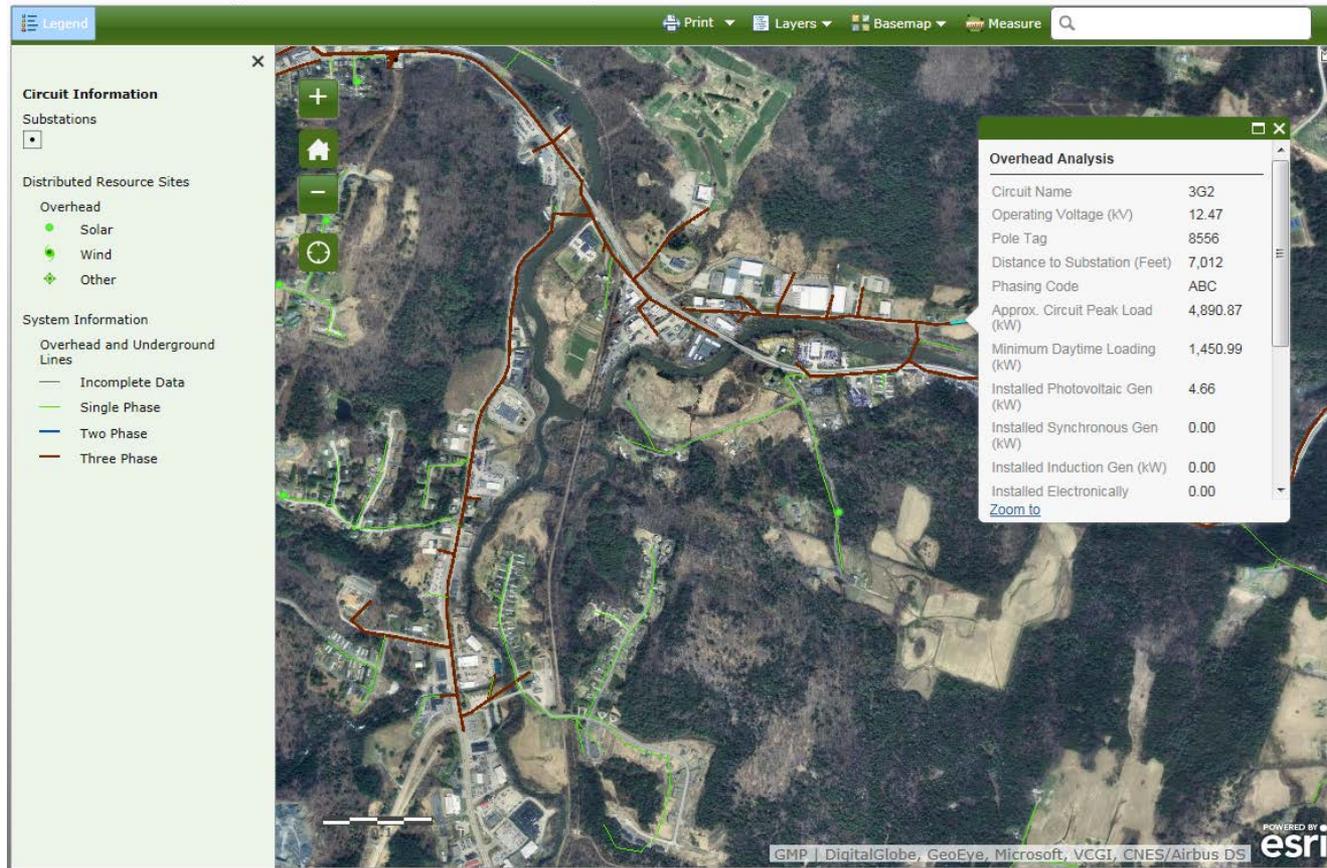
Objective and Goals

Transparent DR Interconnection in GMP's electrical distribution system by making the technical grid information available to developers

- The Project will:
 - Enable optimal siting of DR while reducing interconnection cost and project lead time
 - Improve GMP's efficiency and accuracy on DR interconnection analysis

Solar Map

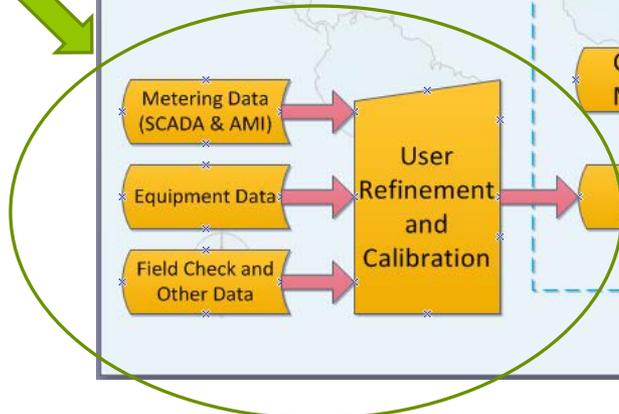
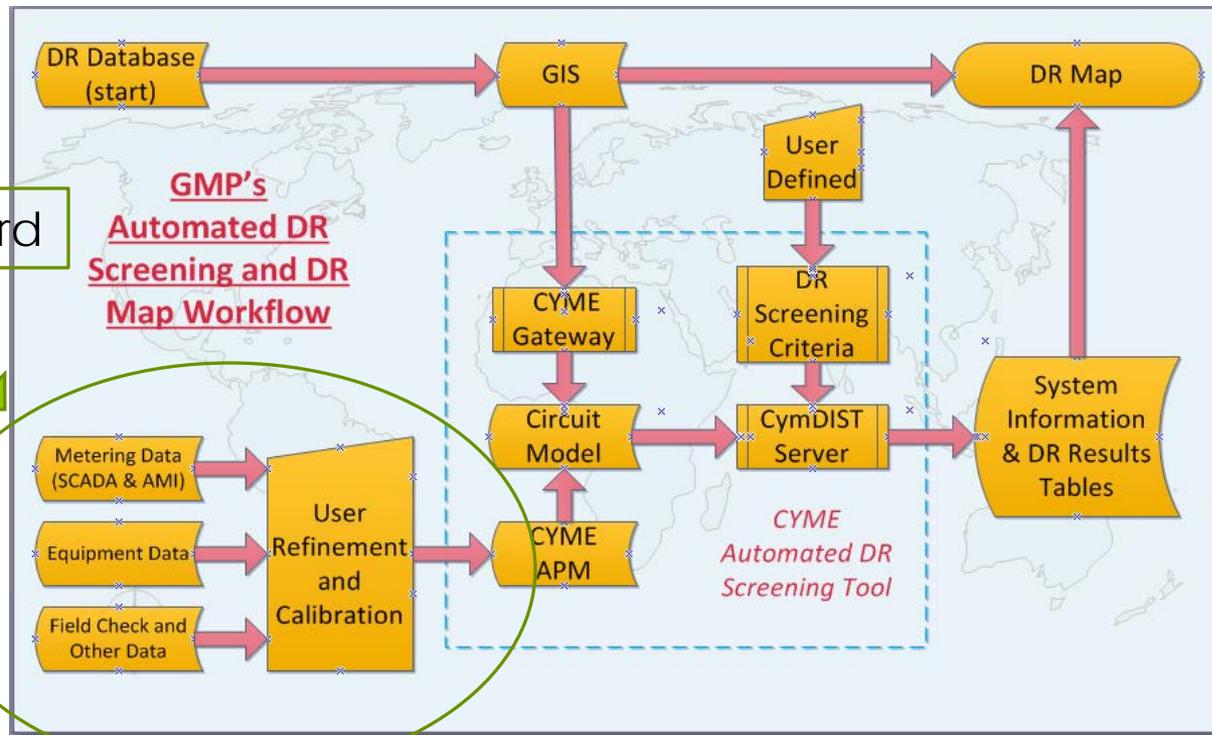
Distribution System Information Map



<http://gmp.maps.arcgis.com/apps/OnePane/basicviewer/index.html?appid=dcf1de0fd1ff4cd29d81ca534d3b0318>

Automated DR Screening

DOE Award



Automated DR Screening

- Integration of metered load data, GIS information and Distributed Resource (DR) Database
 - Metered load data from SCADA, AMI and MV90
 - GIS data includes GMP's distribution circuit infrastructure and equipment information, such as regulators, capacitors, conductor and cable size types, and protective and switching devices.
 - DR database provides the size and type of the DR system and the location relative to GMP's GIS data.
- Refinement and visual display of all GMP distribution circuits with table showing pertinent grid information, necessary for evaluation of interconnection.
- Development of circuit calibration tools to properly simulate actual circuit metering data. This provides proper depiction of circuit load distribution, voltage performance and other system parameters.
- Complete Capacity load flow analysis for each protective zone in a circuit; screening specific locations to assist developers in determining the maximum generation that can be added for potential interconnection.

Load Calibration Tool

