

Leveraging GIS for Smart Operations in Electric, Gas and Water Networks

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Abstract

Successful implementation and ongoing support of advance applications such as Distribution Management Systems, Advanced Metering, SCADA, Incident Management and Outage Management requires a cornerstone platform for establishing quality data. The GIS is a proven platform for establishing, maintaining, verifying and designing asset data from generation source to the customer and every device in between. GIS manages complex data relationships which represent the most expensive investment a utility makes, and that is in its core infrastructure. Making decisions depends on quality data and the data dependencies which support volt/var optimization, service restoration, pressure analysis along pipe networks, events related to planned and unplanned outages, or aggregating meter data. This presentation will highlight some of the key benefits of GIS as a platform for establishing successful Smart Operations and serving more advanced applications that may be adopted by an electric, gas or water distribution utility.