Grid Analysis & Monitoring

Get unparalleled visibility into the energy flow in your grid using Awesense's True Grid Intelligence® (TGI) platform.

SITUATION

» The future of the electric grid is an uncertain one. As more and more consumers begin inputting energy into the grid, and more devices are connected to the network, operators are faced with the growing challenge of how to visualize and control the energy-flow in the grid. With generation becoming increasingly decentralized, utilities need to remodel entire distribution strategies and, if grid operators are to ensure uninterrupted delivery of service in the future, operators and planners must have access to the real-time dynamics of their network.

SOLUTION OVERVIEW

» TGI® was built to unlock all the data available to utilities by integrating measurement points from all distribution sensors and devices into one platform. With the ability to visualize and understand energy flow geospatially, TGI® provides unequaled situational awareness and real-time monitoring to operators and planners.

PROBLEMS FACING UTILITIES

» Lack of understanding in distribution grid energy flow
» Reliability in danger as more DERs are connected to the grid
» Inability to process large amounts of data
» Smart meter data not providing the insight necessary to run the grid of tomorrow

WHAT TGI® OFFERS

» Scalable, near real-time analysis on a segment, feeder or grid-wide basis
» Incorporate data from all time-series measurement points - sensors, meters, capacitor banks, reclosers, etc.
» Unrivalled situational awareness through utility-focused GIS engine
» Design custom grid alerts to prompt operators and planners of any events within the grid, including unusually high voltage or current, low power factor, outages, transformer health, and others
» Voltage, current phase balance, power factor and power quality reporting
» Integrations with legacy operational systems: AMI, GIS, OMS, ADMS, DERMS
» Quick and easy implementation
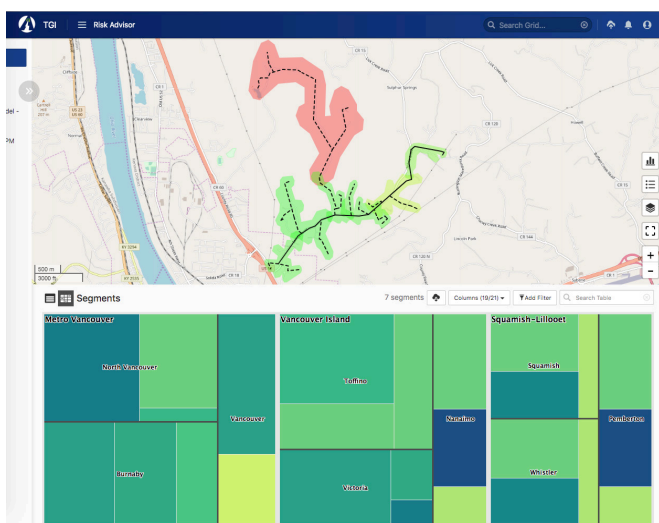
If you would like to learn more about how we provide distribution **grid visibility and insight**, contact us at **sales@awesense.com**.