



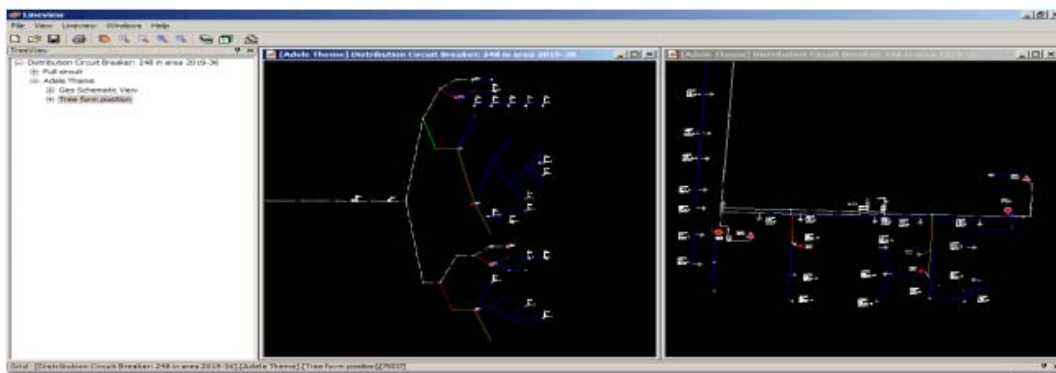
## LineView—Schematic Generator

### What is LineView?™

LineView is a .NET™ based software solution that analyses the connectivity database and entity components of a circuit, then produces an electrical one-line diagram specified by the user. This result is dynamic in that LineView can be re-run at any time and specifically after circuit corrections or switching operations.

### Why LineView?

In working with our utility customers over the last 7 years on Distribution Network Data issues, it has become obvious to us that visualizing the Distribution Network accelerates the conversion and correction of source data.



LineView offers user-configurable themes for custom circuit visualization, for example:

- Geo-schematic theme – A geographically positioned view of the circuit.
- Tree theme – A schematic circuit diagram in a tree-like format.
- 1-line Circuit theme – A straight-line circuit diagram of the trace results.

#### What are the Benefits of Using LineView?

- Users have the ability to customize the manner in which they view their data by selecting the device types that they wish to visualize. These user-defined preferences can be saved to a “view theme”.
- Load transfers, temporary restoration and the effects of switching operations can be predicted and demonstrated visually.
- Circuit Tie Switches can be quickly located and identified.
- LineView diagrams end at open points. However, the user may choose to continue a trace past the open point in order to visualize the remaining portion of the circuit.
- View themes can be customized depending on departmental needs.

### What does it Do?

To generate the one-line diagram of a distribution circuit, the user specifies the starting point or device, the entities of the circuit to be displayed and the orientation of the graphical result. For example, to visualize all the one-line diagrams for a substation, the user would select a bus bar as the starting point.

At this point, LineView traces the connectivity, identifies the conductors and devices in the result set, and generates a one-line diagram of the circuit as configured in the selected theme.

Connectivity and phase designation errors become obvious in the resulting display. To de-clutter the result, transformers may be summarized to a load block or completely removed, so that only switchable devices are displayed.