As a Utility, Grid Reliability is Critical and Relies on:

- A strong structural engineering foundation
- Minimization of outages due to clearance violations (ground, vegetation and other obstacles)
- Mitigation of fire risk from overhead lines

Power Line Systems offers a solution to Grid Reliability

Power Line Systems’ PLS-CADD is the industry’s de-facto design software to help utilities ensure grid reliability in a practical, cost effective and efficient manner, with significant social and economic ROI.

**BENEFITS OF POWER LINE SYSTEMS (PLS-CADD)**

**Risk Assessment and Mitigation**

*PLS-CADD enables a utility to enhance the risk assessment of its grid:*

- Wires move with temperature, wind and ice, and PLS-CADD assesses weather in tandem with structural considerations
- Field solutions that only measure static clearances do not consider the effects of wire movements and structure deflections under a variety of weather conditions
- Vegetation near structures may not need to be cleared to the edge of the right-of-way, while vegetation at midspan outside of the right-of-way may pose potential risks

**Grid Reliability**

*Many lines were constructed decades ago, making their structural integrity a concern. PLS-CADD can help utilities:*

- Effectively evaluate the structural integrity of your entire overhead line grid
- Rapidly identify, classify and prioritize a pole replacement program to ensure poles remain standing after a storm
- Analyze structures based on NESC, GO95 and ASCE codes and standards, including the changes in wire tensions due to temperature, wind and ice effects, as well as structure deflections

**Practicality, Cost Effectiveness and Efficiency**

*With a proven technology solution and years of experience, PLS-CADD can help utilities:*

- Rapidly identify and classify vegetation encroachments or trees that may fall into your lines
- Avoid the huge expense of blindly clear cutting your entire right-of-way of your entire grid
- Prioritize encroachments to aggressively tackle the most critical violations first

**Tried and Tested Technology**

*Power Line Systems has a proven technology to ensure the integrity of a utility’s grid and infrastructure.*

- Power Line Systems’ PLS-CADD technology has been the industry standard for 30 years with frequent software updates
- In 2010, the North American Electric Reliability Corporation (NERC) mandated that all lines 100kV+ be reassessed, and PLS-CADD has been the de-facto standard for this assessment with information from LiDAR surveys.

For more discussion, see [https://www.powline.com/technotes/Wildfire_Risk_Assessment_Using_PLS-CADD.pdf](https://www.powline.com/technotes/Wildfire_Risk_Assessment_Using_PLS-CADD.pdf)
For more information: [https://www.powerlinesystems.com](https://www.powerlinesystems.com)

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