Top Reasons to Buy AutoCAD® Utility Design 2013

Smart Grids Start with Smart Design

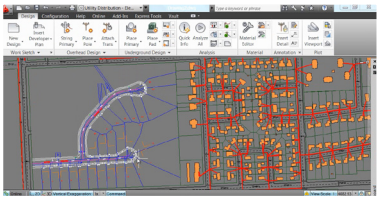
AutoCAD® Utility Design 2013 software is a model-based design solution for electric utility distribution networks that combines design and documentation with standards-driven workflows and analyses. Utility designers and engineers can improve productivity, analyze and optimize network designs for performance and reliability, and deliver more consistent and coordinated construction documentation—all in a familiar AutoCAD® environment.

"By integrating engineering and construction standards with the design process, it's now possible to promote improved consistency, quality, and accuracy in the design and construction documents. Utilizing a user-friendly graphical tool optimizes our ability to develop qualified designers, planners and estimators."

—Debra Brooks
M/E Application Manager— DM/AUD
Southern California Edison

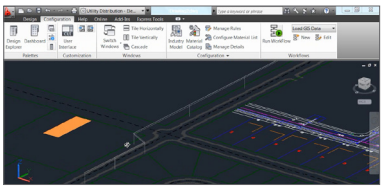
1 Design overhead and underground electric distribution networks more productively and consistently.

Design in a familiar AutoCAD® environment, more quickly and easily evaluate alternatives, and generate construction drawings and bills of material (BOMs). Speed design decisions by using powerful data access tools to create intelligent base maps from contractor drawings, geographic information system (GIS) data, and external imagery and data sources. Create and lay out designs more quickly and easily with standards-driven, easy-to-use templates and workflows,



Design in a CAD and GIS environment allowing users to share engineering data with the enterprise.

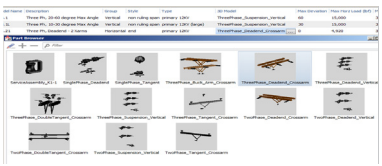
Help drive consistency across design teams and build more intelligence into the design process with rules-driven engineering standards that utilize shared templates and workflows.



Create an intelligent 3D connected network model.

2 Optimize designs and enhance reliability.

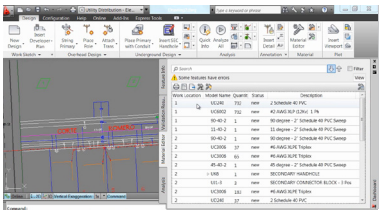
Streamline selection and placement of facilities with predefined engineering rules that are applied during the design process.



Material selection.

Perform engineering analysis to appropriately size materials during design. Calculations include voltage drop and flicker; underground cable pulling tension; overhead sag for wind, ice, and temperature; and pole sizing and guying.

Configurable engineering reports incorporate your design changes and generate updates on the fly. Build on the preconfigured industry standards to define asset type—such as wire, transformer, equipment, and structures, and to define status, such as existing, install or remove. By sharing information with 3D visualization and analysis you can help to reduce in-field changes.



Validate while designing.

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"I was able to create our material rules and catalog in just a few weeks where previously it would have taken several months. With the ability to analyze designs on-the-fly, I will be able to save time and improve consistency."

—Kyle Baker, Engineer, Distribution Design
Nashville Electric Service

"We saw that we could integrate our asset design and management processes. We'd be able to start a project in AutoCAD Utility Design and then manage data in AutoCAD Map 3D. We could use a familiar AutoCAD interface from start to finish creating, editing, and managing data."

–Ray Pearce, GIS Project ManagerCorridor
Anchorage Municipal Light & Power

AutoCAD® Utility Design 2013 software is included in the Autodesk® Infrastructure Design Suite, a comprehensive BIM for Infrastructure solution.

To learn more, visit
www.autodesk.com/infrastructuredesignsuite

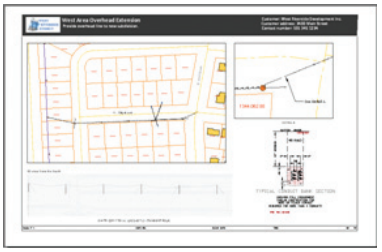
For more information about AutoCAD Utility Design, go to
www.autodesk.com/autocadutilitydesign

To locate the reseller nearest you, visit
www.autodesk.com/reseller

3 Deliver more consistent and coordinated documentation.

Simplify delivery of construction documentation and improve the design-to-construction process by automating the delivery of a coordinated 3D construction model that better conforms to cost and materials estimates. Automating this process can help save time and money: it provides a more complete, standardized, and accurate materials list to help reduce rework, truck rolls, and material costs, as well as greater accuracy for budgeting and cost planning during construction. Deliver your project construction documentation—all estimated costs, materials, and construction details—in a single package.

By integrating to materials, billing systems, a BOM report can be automatically created helping you associate the materials with unique stock numbers from your materials management or inventory system.



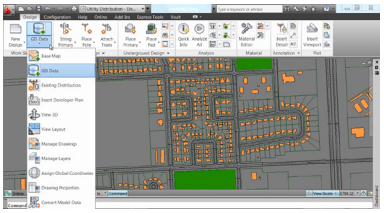
Associate construction standards to layouts.

4 Integrate designs into existing systems and processes across the plan-design-built-manage lifecycle.

Share intelligent design data, including geospatial and 3D information, within the context of the existing environment with visualization tools for proposal development or stakeholder communications.

Reduce the amount of duplicate work by integrating design and asset management processes. AutoCAD Utility Design allows you to make the design model available to GIS and records management, providing necessary symbology and attributes to help minimize as-built backlogs in an open data format.

With access to design information, and the ability to help reduce as-built backlogs, you enhance availability and usability and accuracy of the asset data to better inform decisions. And, with more consistent and coordinated as-built information, designers can trust the accuracy of the existing conditions data provided at the start of each new design project helping to improve or maintain design productivity.



Integrate to GIS, Turn GIS data into 3D model data.

Autodesk®