

# 5 Reasons for 3D Modeling

Today construction, engineering, utility, and design firms need better designs to meet their requirements or the requirements of their clients. 3D modeling provides an accurate depiction of a finished project, increases the overall design accuracy, and eliminates the need for redundant designs thus saving time and budget dollars. Here are 5 reasons why leveraging NEI's 3D modeling capabilities will help the overall design, schedule, and bottom line.

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## IMPROVED QUALITY DESIGN WITH BUDGET AND TIMELINE IN MIND

Design software has evolved in terms of capabilities, scope, and sophistication. Engineering companies, like NEI Engineering, can use design software to provide higher quality deliverables within tight deadlines and budgets. 3D modeling reduces changes between conceptual and detailed design by taking initial concept layouts into detailed engineering.

***We can get our designs back to you faster and with fewer revisions so you can get to final design quicker.***

2

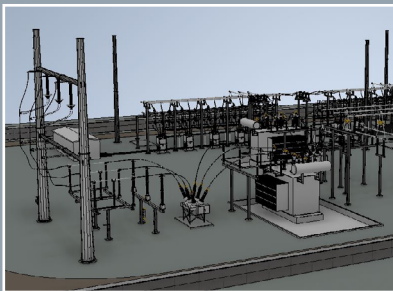
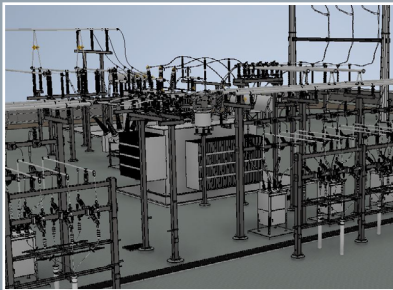
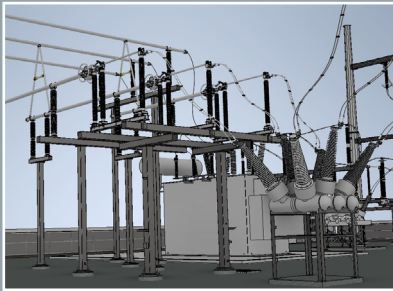
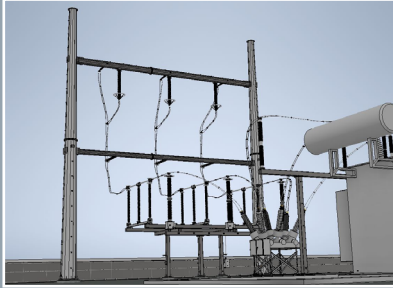
## BETTER CONCEPTION AND PROJECTED FORECASTING CAPABILITIES

3D modeling software helps with productivity savings for substation and transmission line design projects. It allows engineering, owner-operators, procurement and construction (EPC) companies to conceptualize the final design and provides the ability to make intelligent, data-driven decisions and predictions. Additionally, the software creates visibility of multiple 'what-if' scenarios during the design process. The creation of virtual models enables all stakeholders to visualize and participate in the overall design process.

***We can help your team understand and conceptualize the final product earlier so that your design is exactly what you want.***



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## LESS ROOM FOR ERROR

3D modeling makes better use of design resources by taking away manual and tedious parts of engineering designs. It also helps the engineers visualize all components in 3D during the initial design stage and modify/edit immediately. Utilizing 3D modeling can speed the design process and spot shortcomings before proceeding to manufacturing and production. 3d modeling allows for a project to be checked, tested, and revised before going into production that no 2D design ever could. This allows for better collaboration between engineering and design by reducing the number of iterations and improves engineering design efficiency and productivity.

***The automation capabilities catch issues before they cost you.***

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## EASE OF USE

3D design software provides a single file for accurate information of general arrangements, layouts, foundation drawings, elevation drawings, BOM, steel drawings and other documents. This gives a comprehensive overview and tighter control over the design and quality across disciplines.

***Quality control is built in and the information presented is accurate and up to date.***

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## DOCUMENTATION MANAGEMENT

3D modeling helps to organize and manage design assets and documents. It provides consistency and automates the detailing and planning process, thus increasing speed and accuracy of final design. For example, the software defines specifics of the BOM and automatically updates enabling efficient procurement and fabrication time.

***Fewer data sets mean fewer headaches for your team.***