

# Substation Design Suite™

Design your substation 50% faster with SDS; the #1 substation design software in the world!

## Two Design Modules

Substation Design Suite™ (SDS) consists of two powerful electrical substation design modules. Harnessing the power of Autodesk, SDS gives you specialized substation design tools for intelligent 3D design and intelligent wiring design.



## High-Level Feature Summary | SDS-P4A & SDS-P&C

Physical for AutoCAD	Brief Feature Summary	Protection & Control
✓	Standards-based Design & Drafting Automation	✓
✓	Material <b>Standards</b> Embedded Directly into the Application	✓
✓	Drafting <b>Standards</b> Configured Directly into the Application	✓
✓	<b>Automated</b> Production of Drawings, Reports, and Schedules	✓
✓	<b>Automated</b> Bill-of-Material Creation	✓
✓	<b>Design Checking</b> Routines, Error Flagging, Auto-Resolve	✓
✓	Electrical Topology <b>Connectivity Model</b>	✓
✓	<b>Brownfield Workflows</b> (existing drawings, existing raster images, point clouds)	✓
✓	Integration with <b>Vault</b>	✓
✓	Portability to Out-of-Network <b>External Contractors</b>	✓
✓	Integration with External <b>Enterprise Systems</b>	✓



### Design Sync: The Best of Both Worlds

While SDS comes in two distinct design modules, SBS Design Sync allows them to connect using a project-level central data repository to:



#### Navigate

Navigate to the various representations of equipment included in projects that span multiple disciplines and/or drawings.



#### Validate

Validate rating information, connectivity, and orientation of equipment.



#### Coordinate

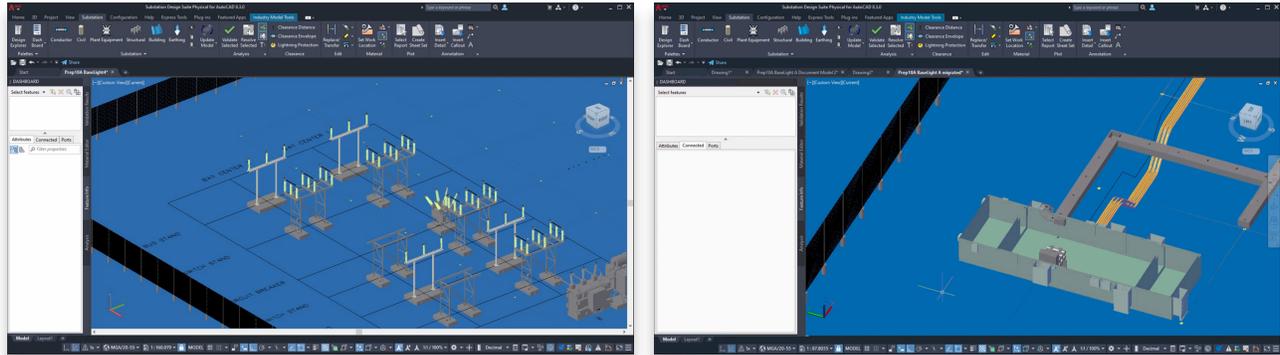
Coordinate between 3D design representations and schematic representations.



#### Utilize Enterprise Systems

Utilize information generated and maintained by the organization's enterprise systems to support asset management, estimating, and field attestation workflow processes.

# Physical Design | Substation Design Suite Physical for AutoCAD®



## SDS - P4A at a Glance:

SDS - P4A extends the power of AutoCAD to provide the necessary capabilities to automate the design and specifications of a complete intelligent 3D substation design. Read more why SDS - P4A might be right fit for you below.



### **Automated Substation Tools**

SDS saves designers time by automating certain substation-specific modeling tasks with specialized substation design tools for above-grade, below-grade, and equipment design.



### **Improved Design Quality**

Model-based design combined with automation of routine tasks and design checks significantly reduces costly human error in the electrical substation design process.



### **Flexible Design**

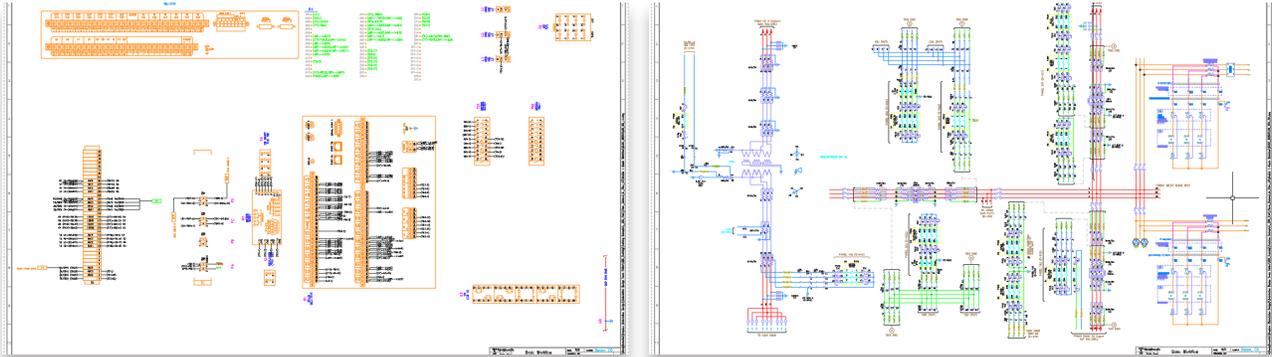
Because SDS is built on Autodesk products, it offers an established platform with which electrical designers are already familiar. This extensive base of skilled software users can quickly become highly productive, minimizing the high cost of training and the turnover experienced with proprietary platforms.



### **High Business Value**

At an affordable purchase price, SDS leverages your Autodesk product investment into a specialized electrical substation designing workstation. It offers tremendous value by improving designer productivity and providing better information to improve construction effectiveness.

# Electrical Design | Substation Design Suite Protection & Control



## **SDS - P&C at a Glance:**

SDS - P&C extends the power of AutoCAD Electrical to provide advanced electrical substation design capabilities necessary to fully layout and specify an electric substation.



### ***Automated Substation Tools***

SDS P&C optimizes work hours by automating time-consuming electrical substation designing tasks related to preparing electrical design packages.



### ***Improved Design Quality***

Features such as routine task automation and real-time error checking significantly reduce human interaction in the electrical design software process, preventing costly errors.



### ***Flexible Design***

SDS P&C does not restrict the flexibility of AutoCAD Electrical. Rather, designers can continue using all design methods and enhance their electrical design software skills.



### ***High Business Value***

At an affordable purchase price, SDS P&C helps turn your AutoCAD Electrical into a specialized electrical substation design workstation. This offers tremendous value by improving designer productivity and providing better information to improve construction effectiveness.

# The Value of Substation Design Suite™ |

## Potential Benefits from Using Substation Design Suite™



### **Planning and Estimating Efficiency**

5% or more reduction in contingency budget for projects.



### **Leveraging Standards**

Engineering and business rules are applied in the project. Improved asset selection and allocation of compatible units (CU's).



### **Design Efficiency for Detailed Design**

20% to 80% improvement in time frame for project timelines. 50% improvement in timeline for project changes and updates.



### **Construction, Commission, Operate**

Eliminate or significantly reduce change orders by catching errors and omissions in the design process. Faster construction and commissioning and an improved as-built process.



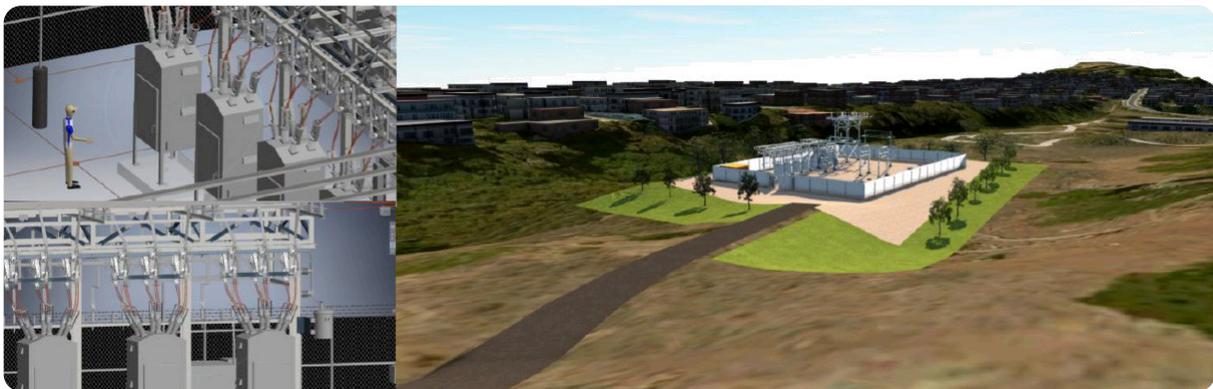
### **Potential ROI for Capital Projects**

Industry estimates cost savings opportunity from 3% - 7% of project budget. Reduce project contingency funding. Make more capital available earlier.

## **Adding Functionality:**

The design modules of Substation Design Suite™ add incredible functionality to AutoCAD and AutoCAD Electrical. CAD designers can move from trying to configure their out-of-the-box software to perform unnatural tasks, to focusing on their design efforts, allowing Substation Design Suite™ to handle the required configurations.

Using the Substation Design Suite™ solution, the physical designers move from model creators to intelligent assemblers of components. Electrical designers now focus on protection schemes and verifying designs as opposed to administering CAD applications.



Substation Design Suite™ is a product of SBS.  
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