



Enhance the safety and reliability
of your electrical system

Electrical Digital Twin Service

Life Is On

Schneider
Electric

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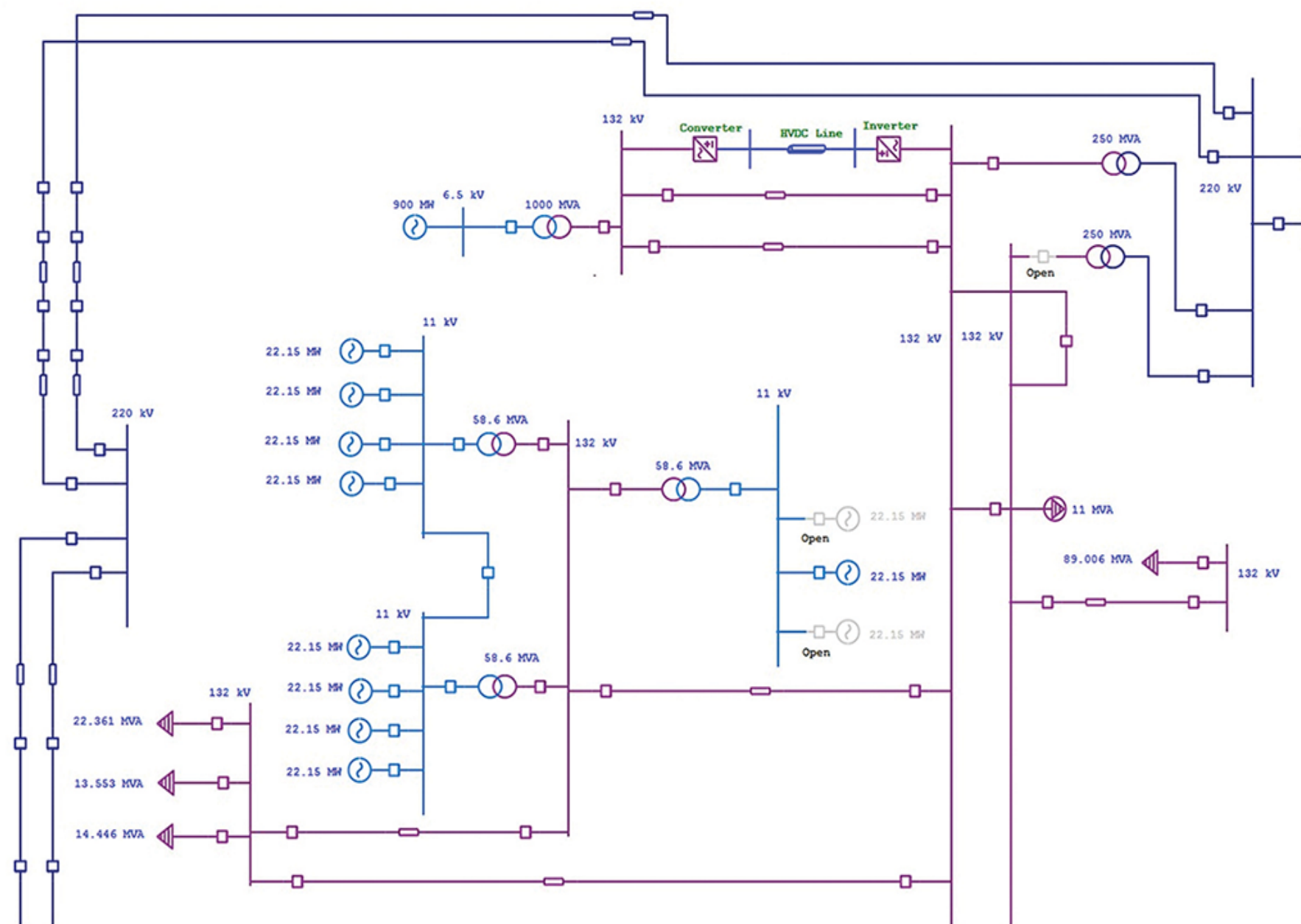
What is an Electrical Single Line Diagram?

A single line diagram (SLD) is a dedicated drawing, unique to each electrical system that represents the connection between electrical distribution assets.

It offers a comprehensive view and allows you to create or optimize your response plan, enabling electrical personnel to understand the design of the facility's electrical distribution system.

Whether you are in control of a new or existing facility, a single line diagram is a road map for all future testing, service, and maintenance activities.

Actively stay compliant with NFPA 70E Article 205.2* while effectively providing visibility of a power system to owners, electricians, & engineers.



*NFPA 70E 205.2 standards: Single Line Diagrams shall be maintained in a legible condition and shall be kept current

Simplify your operations with Electrical Digital Twin Service

Electrical Digital Twin Service is our innovative SLD network energy-management solution.

Its streamlined approach aims to reduce time-consuming activities that are associated with your single line diagram management by converting it into a single, digital and evolutive document. Schneider Electric collects electrical asset data, builds the digital SLD model, and maintains it through a dedicated service plan.

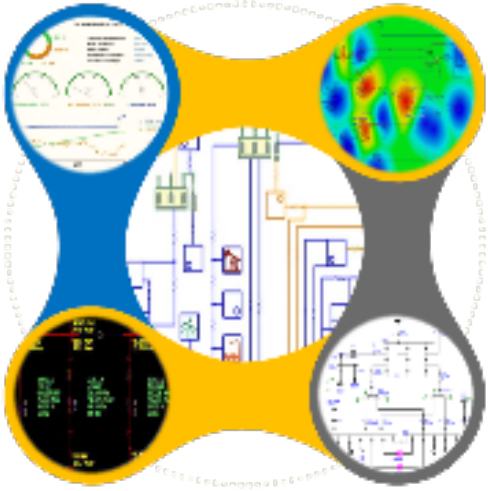
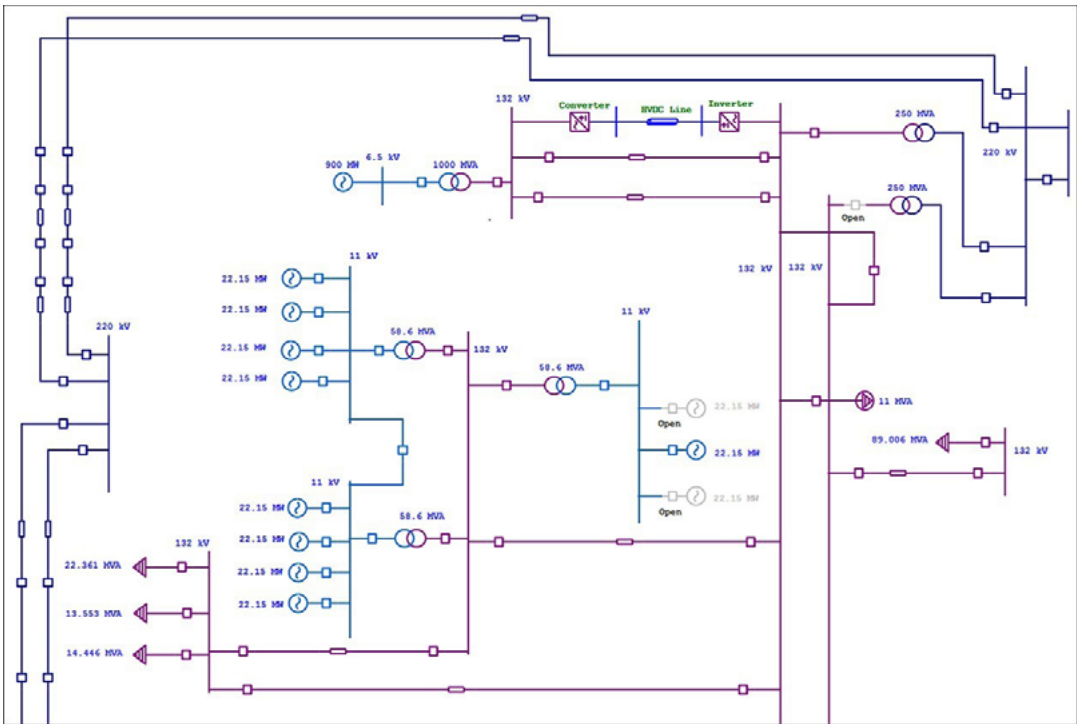
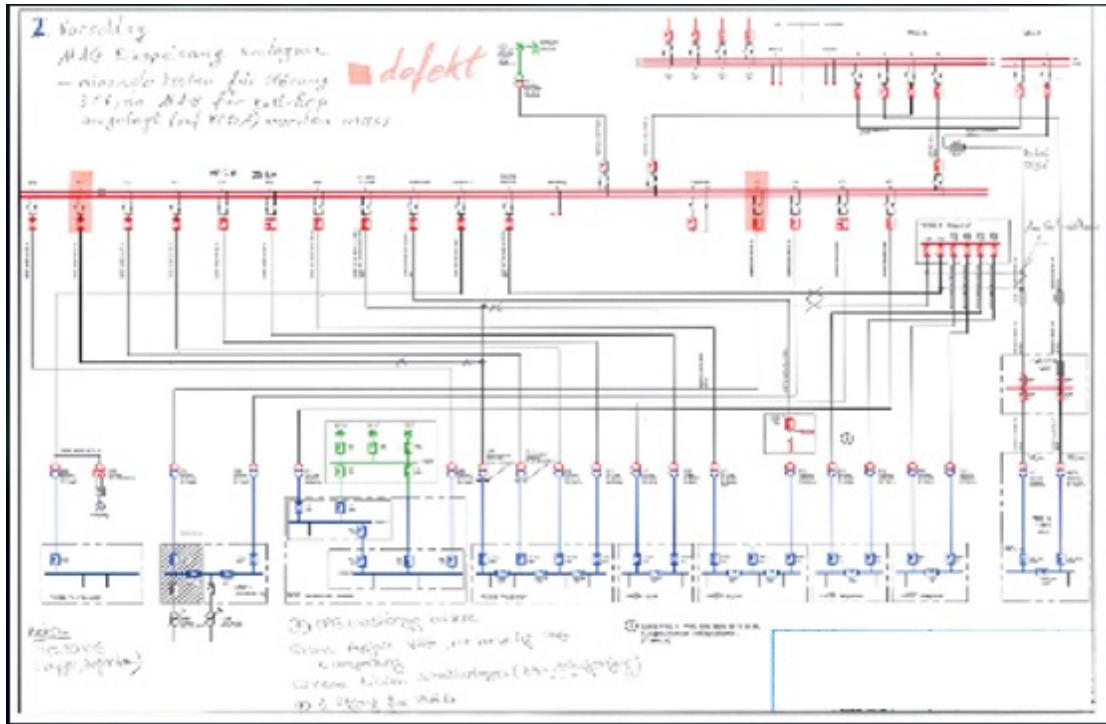
With this, we allow you to stay in control of your technical information, keeping up with today's safety challenges, to tomorrow's sustainability regulations, to the future needs of the distribution grid and beyond.

Your SLD can be shared throughout your company, providing everyone with the benefits of our Electrical Digital Twin Service along with Schneider Electric expertise.



Your Electrical Digital Twin Service journey

Digitize your SLD to improve change management, safety and efficiency, and be ready for digitization challenges.



- Real-Time Operating Data
- Historical Data

- Network Model Visualization
- Network Model Analysis

Convert your PDF...

1 to an Electrical Digital Twin

- Schneider Electric collects electrical asset data on site and digitizes your SLD
- You can visualize your SLD with ETAP license
- Schneider Electric will maintain your model

2 to enable advanced, innovative features.

- Deliver advanced system studies such as Arc flash, protection coordination, and short circuits
- Empower your staff
- Enhance your Electrical Monitoring and Control System to improve operational efficiency

Improve safety, efficiency, and operations

An accurate electrical single line diagram helps ensure personnel safety, equipment longevity, and plant reliability.

- Meet compliance with NFPA 70E 205.2: Single Line Diagrams shall be maintained in a legible condition and shall be kept current
- Minimize expensive modeling costs and time consuming data collection for future engineering needs
- Allow personnel who respond to an event to identify the affected equipment quickly

Improve Operational Reliability

Leverage Electrical Digital Twin Service to run Power System studies

Enhance Plant Expansion

Employ Electrical Digital Twin Service to run optimization and feasibility technical studies

Optimize and Secure Operations and Maintenance

Connect with Electrical Digital Twin Service to real time information

Accelerate your digitization journey and help leverage innovative safety and sustainability

Without an up to date SLD, businesses run the risk of increased human error, such as shutting off the wrong part of an electrical system, which in turn can lead to unwanted downtime.

With less site visibility, operators may begin working on live pieces of equipment. In worst case scenarios, this can lead to injury, or even fatality.

Help improve site safety and resiliency

With our Electrical Digital Twin Service you are provided with full visibility of your electrical system. Your operator can refer to the last update of the system architecture anytime, helping in operation, troubleshooting and planning.

Enhance sustainability to help match your Green targets

With increased pressure being placed on sustainability, site expansion is required more than ever. Electrical Digital Twin Service records network changes and keeps your network map up to date helping to simplify site expansion and improve sustainability.

Simplify your Site Management

Electrical Digital Twin Service allows us to manage your SLD for you, providing continuous improvements to your technical documentation.

Improved visibility and consistency allows you to manage multiple sites more efficiently.

Improve reliability and efficiency

With Electrical Digital Twin Service you get access to on-demand Power System (short circuit, protection coordination, Arc flash) and Power Quality Analysis delivered by our Schneider Electric Consultants.

One single source to optimize site visibility

With our Electrical Digital Twin Service you can keep your technical documentation healthy and optimized for the future.

Improve safety

An updated SLD is the most fundamental material for any facility, helping to protect your staff.

Reduce OPEX

Decrease your spending on data collection, downtime costs, and engineering.

Digitize your system

Be ready for your digital transformation by identifying easier feeders to be digitally monitored.

Comply to codes and standards

With just a few simple clicks you can access an updated network diagram 24/7, and to help you be compliant with local and be prepared for required Power Systems Studies.

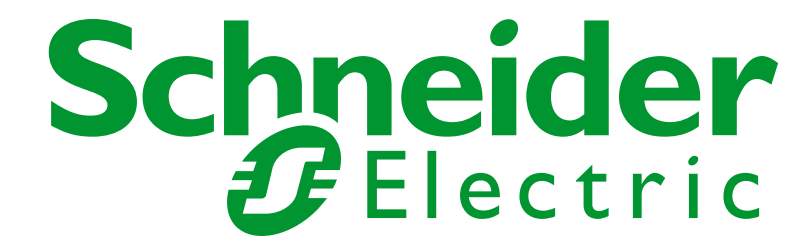
Optimize CAPEX

Modernizing your system helps to future-proof your business and improve your capital.

Improve efficiency and embrace real time features

With Power System Analysis, you can improve the efficiency of your installation. With real time features, you can empower your staff and future-proof your operations.

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Find out more at:



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