



TOTALLY INTEGRATED POWER

Webinar Series: Industrial Plants – Applications for Electric Power Distribution

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October 28 – November 25, 2021

SIEMENS

Advance in knowledge with webinars

The webinar series "Industrial Plants – Applications for Electric Power Distribution" guides you through the main aspects of industrial plant planning in five meetings. From the theoretical bases through specific examples for a medium-sized and a large industrial plant with their corresponding particularities up until two deeper topics.

In the course of the webinar, our experts go into details regarding planning aids and the SIMARIS tools, which will facilitate your planning from the first concept up to the matching switchgear and devices. The structured and accurate procedure we would like to explain will help you work out cost-efficient, well thought-out, technically useful, and efficient solutions even for complex plants.



Kateryna Kapinosova

Heavy Industries & Renewables



Johannes Glas

Food & Beverage



Saul Ramirez Jordan

Chemicals



Ingo Englert

Automotive & Data Centers

Webinar time schedule | 9 a.m. and 4 p.m. (CET)

1 2021-10-28 | Introduction

First steps of concept finding for an electric power distribution incl. connection of generating plants

Two applications for industrial usage

2 2021-11-04

Planning of the electric power distribution of a medium-sized industrial plant by the example of a bottling plant for soft drinks (food & beverage)

3 2021-11-11

Planning of the electric power distribution of a large industrial plant by the example of an air separation plant (chemical industry)

Key topics

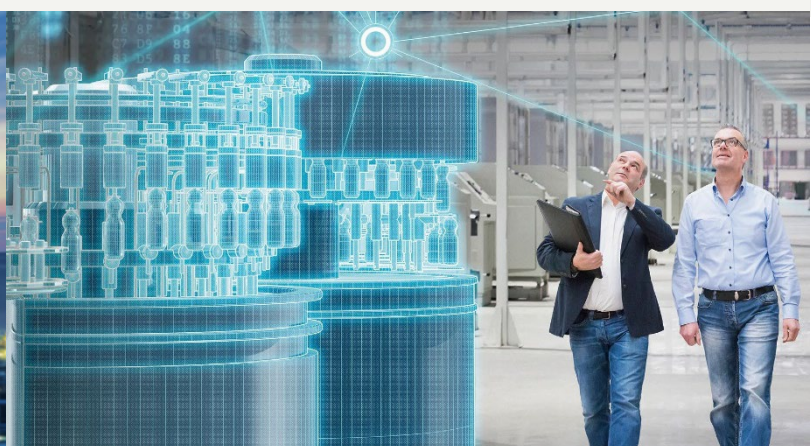
4 2021-11-18

Design of low-voltage motor feeders

5 2021-11-25

Connection of electric power distribution networks with embedded generation to the distribution grid of the DSO

[Details on the following pages ->](#)



Details to the webinars

Introduction

2021-10-28

First steps of concept finding for an electric power distribution incl. connection of generating plants

In the planning, many questions arise: How must a network be planned? What information is required? What has to be observed? Which steps are to be made? What should the concept look like?

In this webinar we will give an answer to these questions and show the first steps for the concept development and creation of an SLD with the necessary components. We will explain what must be observed in order to operate a generating plant in parallel to the network. Furthermore, in the webinars we will go into details with the SIMARIS planning tools from Siemens, with which you will be able to plan electrical distributions in an easy, fast, and safe manner.

Two applications for industrial usage

2021-11-04

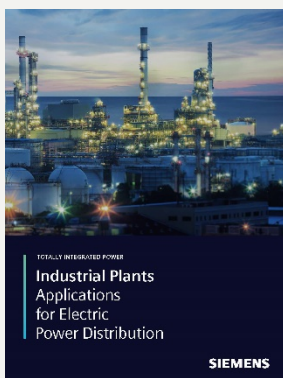
Planning of the electric power distribution of a medium-sized industrial plant by the example of a bottling plant for soft drinks (food & beverage) | Key topic: low voltage

2021-11-11

Planning of the electric power distribution of a large industrial plant by the example of an air separation plant (chemical industry) | Key topic: medium voltage

Starting with the process system descriptions and the customer requirements, **these two webinars** consider the planning of an efficient, safe, and cost-efficient medium-voltage and low-voltage network – from the infeed to the end user – by means of two different applications:

- Project description as well as customer requirements
- Description of the planning steps
- Planning aids, SIMARIS planning tools, as well as sample calculations
- Regulations and standards to be observed
- Single-line diagram as well as protection concept
- Dimensioning of the systems through to room planning for the switchgear
- Project documentation



Now newly available: Application manual for industrial plants

Based on the TIP expertise, this manual points out the general outline to be observed for the design and layout of industrial projects during the first planning phases.

Available from your TIP contact partner: www.siemens.com/tip-cs/contact

Key topics

2021-11-18

Design of low-voltage motor feeders

- Starter options and selection criteria
- Selection of the appropriate voltage level and starting type
- Influence of the starter type on the dimensioning of the electric power distribution network as well as on the design of generators
- Design of motor starter combinations with the SIMARIS planning tools
- Dimensioning of MCCs (Motor Control Centers) with the SIMARIS planning tools

2021-11-25

Connection of electric power distribution networks with embedded generation to the distribution grid of the DSO

This webinar explains which standards have to be taken into account in the planning, how to implement the DSO's requirements, how the interface protection works, and what has to be observed if customers additionally want to improve their own plants.

- Focus on plants with POC (Point Of Connection) at the medium-voltage level
- Relevant standards (IEC / EN / VDE) to be observed
- Consideration of customer-specific requirements
- Specific application

Training method:

Webinar via Microsoft Teams

Duration: 60 minutes

Language: English

Costs: Participation is free of charge

Questions? Get in touch with your local TIP contact partner:

www.siemens.com/tip-cs/contact

How to join our webinars?

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Websites for electrical planners

Totally Integrated Power:
www.siemens.com/tip-cs

SIMARIS planning tools:
www.siemens.com/simaris

Tender specification texts:
www.siemens.com/specifications

BIM for electrical planning:
www.siemens.com/bim-eplanning