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## **Substation Design Guide**

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design of an Air Insulated Switchgear (AIS) and a Gas Insulated Switchgear (GIS) of an AC substation. The document is divided into 12 chapters starting from Electrical Arrangement to Lightning and Earthing Protection.

**High voltage  
substation design  
and application  
guide | EEP**

*Page 5/26*

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**SUBJECT:** Design Guide  
for Rural Substations

**TO:** All RUS Borrowers  
RUS Electric Staff

**EFFECTIVE DATE:** Date  
of approval. **OFFICE OF**

**PRIMARY INTEREST:**  
Transmission Branch,  
Electric Staff Division.

**INSTRUCTIONS:** This  
bulletin is an update  
and revision of  
previous REA Bulletin  
65-1, "Design Guide for  
Rural Substations"  
(revised June 1978).

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## **Design Guide for Rural Substations - Rural Development**

substation design. (g)

Meeting the requirements for future ultimate development.

(h) At the lowest possible cost. 2.

RESPONSIBILITIES The Group Manager Works

Enablement is the

Process Owner

responsible for

approving this

Reference. The

Manager Substation

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Design is the Subject Matter Expert (SME) for the content and shall

## **Substation Design Manual - Ergon Energy**

will be limited to substations with installed power limited to 2000 kVA or two 1000 kVA MV/LV transformers. The purpose of this guide is to give an overview of the guidelines and requirements specified



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by current regulations for the design and construction of substations in order to guide the designer and the user to the correct system choices.

## **Medium voltage products Technical guide The MV/LV ...**

Substation Structure Design Guide, MOP 113, provides a comprehensive resource for the structural design of

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outdoor electrical substation structures. This manual offers the most current guidelines available on analysis methods, structural loads, deflection criteria, ...

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Substation Design. Consider that you would like to choose a transformer to supply power to a factory which requires

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maximum of 270 kVA of power at 400 V on the LV side and no expansion is considered for near future. The power will be provided by connecting the factory to 33 kV MV voltage level.

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Substation with Air Terminal Chamber (ATC) Usage— ...

Design Guide

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DG022017EN Effective  
February 2020.

General Description  
Definition A secondary  
unit substation is a  
close-coupled  
assembly consisting of  
enclosed primary high  
voltage equipment,  
three-phase power  
transformers, and

## **Secondary unit substations design guide - Eaton**

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Design Guide provides

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a comprehensive resource for the structural design of outdoor electrical substation structures. This manual offers the most current guidelines available on analysis methods, structural loads, deflection criteria, member and connection design, ...

## **Substation Structure Design Guide | Books**

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Timothy L. O'Hearn, PE. Course Outline. This 15-hour course provides criteria and guidance in the engineering and design of electrical substations. The planning, engineering, design, procurement, construction, and operation of transmission and distribution substations are covered.

**Substation Design**

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in detail. Expert instructors with decades of substation design experience will guide you in learning how to develop reliable substation ...

## **Principles of Substation Design and Construction ...**

o Class (cooling design)  
Substation Equipment .  
27 n Always review and  
follow the transformers  
data plate for critical  
information n

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**IMPORTANT:** Data plates may not always be accurate n Test should to verify that data plate information matches the transformer. ...

## **Basic Substation Configurations and the Components**

Abstract: A proper design of the substation bus ensures a safe and reliable operation of the substation and the

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power system. Two different types of buses are used in substations, the rigid bus and the strain (cable). This guide provides information on the different bus arrangements used in substations stating the advantages and disadvantages ...

**IEEE Std 605-2008,  
IEEE Guide for Bus  
Design in Air ...**

Specifically, in this

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Distribution  
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Secondary Substation  
Design Guide, the  
communications  
solutions that address  
the utility distribution  
grid with use cases,  
such as SCADA  
transport, Fault  
Location, Isolation, and  
Service Restoration  
(FLISR), and line  
voltage-monitoring  
enabling applications  
such as Volt/VAR  
Control, are being

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highlighted.

## **Distribution Automation-Secondary Substation Design Guide ...**

This series of courses are based on the “Design Guide for Rural Substations”, published by the Rural Utilities Service of the United States Department of Agriculture, RUS Bulletin 1724E-300, June 2001.

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insulated outdoor  
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information presented  
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standards ANSI C37  
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