

Generator substation basic specifications





Overview

What is a generator substation?

A generating substation is responsible for stepping up the voltage from the generator's lower voltage to a higher voltage. This makes it more suitable and economical for transmitting electric power over longer distances with less power losses caused by the impedances of transmission lines.

What is 66/11 kV substation specification?

This specification is intended to cover complete design, engineering, assembling, testing at manufacturer's works, substation building, complete erection, testing, commissioning and putting into successful commercial operation of 66/11 KV substation.

What size generator should a power plant have?

Generators for a power plant serving an installation will be in the range from 4160 volts to 13.8 kV to suit the size of the unit and primary distribution system voltage. Generators in this size range will be offered by the manufacturer in accordance with its design, and it would be difficult and expensive to get a different voltage rating.

What factors determine the layout of a substation?

Depending on several factors, substations are often built to different equipment specifications. For example, the layout may be determined by the size or shape of the specific site, or by the type of connection that has driven the need for the site.



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Specification For Erection, Testing and ...

Nov 3, 2025 · This specification is intended to cover complete design, engineering, assembling, testing at manufacturer's works, substation ...

Connection Principles and Typical Substation ...

Dec 4, 2024 · This basic arrangement layout will be used as a starting point for the design of the arrangement for the connection of a new Generator/Load System to an existing 132kV ...

IEEE Guide for Switchgear-- Unit ...

Oct 6, 2022 · It is intended that the incoming, outgoing, transformer, and transition sections included in a unit substation meet the basic requirements of applicable industry standards for ...

Substation configuration and build types , National Grid

2 days ago · Substation configuration and build types Each substation, whether existing or new, can have different configurations or equipment construction depending on what is needed, and ...

Section VI-2B : Specifications

Nov 14, 2023 · 2.1 General The purpose of this section is to specify basic conditions for the design, manufacture, test, and delivery to site of erection including port clearances and ...

Substation configuration and build types

2 days ago · Substation configuration and build types Each substation, whether existing or new, can have different configurations or equipment ...

An Introduction to Electrical Generators for Power Plants

Oct 5, 2020 · Generators for a power plant serving an installation will be in the range from 4160 volts to 13.8 kV to suit the size of the unit and primary distribution system voltage. Generators ...

Specification For Erection, Testing and Commissioning Of ...

Nov 3, 2025 · This specification is intended to cover complete design, engineering, assembling, testing at manufacturer's works, substation building, complete erection, testing, commissioning ...

Modular Substation Technical Data

Apr 22, 2025 · GB/T 1231 Specification of high strength bolts with large hexagon head, large hexagon nuts, and plain washers for steel structures. ISO 898-1:1999 Mechanical properties of ...

Specification sheet Diesel generator set

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110



for Level 1 systems. Warranty and service - Backed by a comprehensive warranty and worldwide ...

Basics of Designing Power Substations

Jun 3, 2019 · Another reason for adding a new substation is to replace an outdated, aging substation that is obsolete and has reached its end-of-life expectancy. The basic steps a utility ...

substation

Oct 21, 2022 · IEEE Std 1267TM-1999 (R2005), IEEE Guide for Development of Specification for Turnkey Substation Projects IEEE Std 1268TM-2005, IEEE Guide for Safety in the Installation ...

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