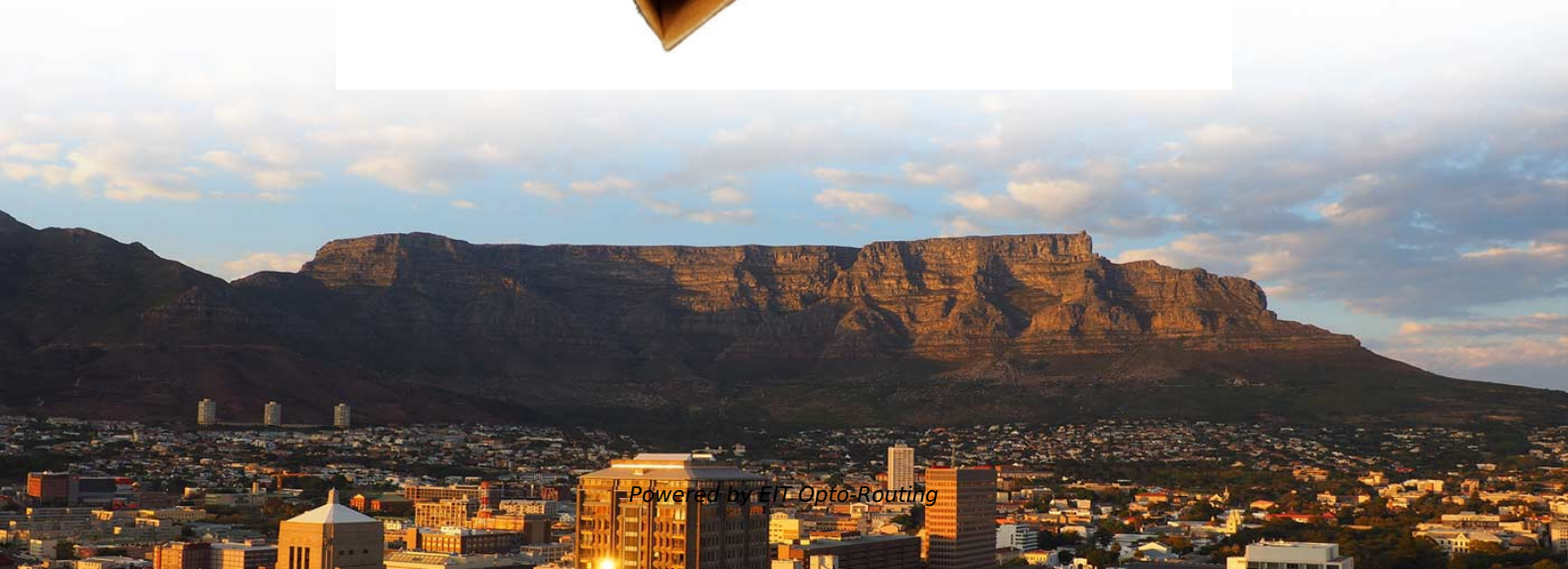


# **The function of a three-level electrical distribution box on a construction site**





## Overview

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Connects to end-use equipment via switch boxes, forming a three-tier power distribution system. Residual current devices (RCDs) at both the tertiary (equipment-level) and secondary (zone-level) stages. The construction power distribution cabinet is designed specifically for the special situation of the construction site and complies with the relevant construction electricity specifications and standards of the construction department. Let's make an example for clarity: A newly constructed residential area introduces a 10kV power line to a substation. These boxes feature bottom entry and exit cables, front-opening doors, and main busbars connected with copper strips for optimal contact.



## The function of a three-level electrical distribution box on a construction site

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### three-level distribution system\_switchgear\_Switchboard\_circuit

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The three-level distribution system refers to a system that distributes electric power through three levels of distribution devices from the incoming power line at the construction site to the electrical equipment.

### The Meaning and Function of Primary, Secondary, and Tertiary

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Secondary Distribution Box: Also designed for construction sites, meeting specific on-site electrical standards. Forms part of the three-level protection system. Features inner and outer doors,



## Power supply on the construction site

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A construction power distribution box is an essential part of a construction site as it ensures that the power needs of all the equipment and machinery on the site are met.

## Typical Constructions Of Overhead Lines

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FIGURE 2.1 - Example overhead distribution structures. (a) Three-phase 34.5-kV armless construction with covered wire. Along streets, alleys,

## What are the primary, secondary and tertiary distribution boxes?

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It is specially designed for the special situation of the project construction site and meets



the relevant construction power specifications and standards of the construction department.

## Essential Rules for 3-Level Electrical Distribution

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Follow key principles: no cross-level wiring, one machine-one switch,

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