

Power distribution box near Nepal



AI Overview

In Nepal, power distribution boxes are primarily 33/11 kV substations and 11/0.4 kV transformers that step down electricity for residential and commercial use.

Overview of Distribution System

Nepal's electrical distribution system is managed by the Nepal Electricity Authority (NEA) and consists of a hierarchical network where high-voltage power is transmitted to substations and then distributed to consumers. The medium voltage (MV) network operates mainly at 33 kV and 11 kV, with 33 kV lines serving as sub-transmission to 33/11 kV substations, and 11 kV lines distributing power to local areas. About 85% of the MV network is 11 kV, while 15% is 33 kV, forming the backbone connecting substations.

Distribution Boxes and Transformers

Distribution boxes in Nepal typically refer to the 11/0.4 kV or 11/0.230 kV transformers that step down medium voltage to low voltage suitable for homes and businesses. These transformers are installed at substations or on poles in urban and rural areas. The low-voltage output is usually 400/230 volts, which feeds into secondary distribution lines for end-user connections.

Network Configurations

Nepal uses two main types of distribution systems:

- **Radial System:** A single source supplies electricity to a feeder. Faults in any section interrupt supply to all consumers on that feeder until repaired. This system is simpler but prone to voltage drops at the line ends.

Article Content

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