

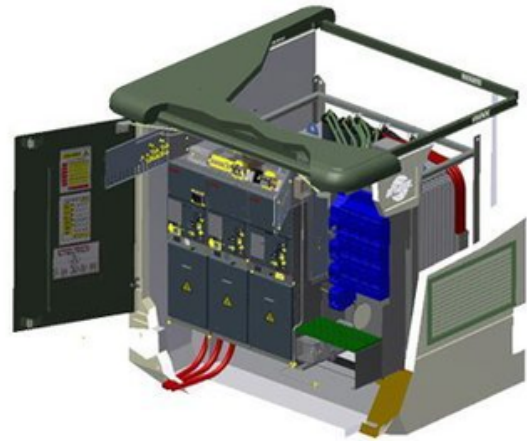
SUBSTATION FOR UNDERGROUND NETWORK

DESCRIPTION

The medium voltage underground substation is a complete and compact solution for the distribution and transformation of electrical energy.

It is designed to operate in underground environments and ensure reliable and secure power supply.

These substations provide optimal protection against surges, short circuits, and risks related to climatic or environmental conditions.



SPECIFICATION

- Nominal voltage: 10 kV to 36 kV.
- Transformer power: Up to 2500 kVA.
- Insulation: Compliant with IEC 62271 and IEC 60076 standards.
- Protection class: IP54 or higher for installation in harsh environments.
- Operating temperature: -25 °C to +50 °C.
- Dimensions: Compact, suitable for confined spaces.
- Monitoring options: Remote monitoring systems for remote tracking.
- Energy loss reduction through high-efficiency equipment.
- Fast installation and simplified maintenance.
- Enhanced protection against environmental risks.
- Adaptability to local specifications.

MATERIAL

- Enclosure: Structure made of galvanized steel or prefabricated concrete for increased durability.
- Medium voltage equipment: Switches, disconnectors, and circuit breakers compliant with IEC standards.
- Transformer: Oil-immersed or dry (resin), suited to the region's requirements.
- Protection cells: For network management and monitoring.
- Internal wiring: Made of copper or aluminum, insulated for optimal safety.

APPLICATION

Suitable for electrical distribution networks in urban, industrial, and suburban areas, underground infrastructures such as tunnels, underground parking lots, or metropolitan transport networks.