

110kV Urban Power Substation

This 110kV city center substation is a compact and efficient solution for urban power distribution. The substation integrates high-voltage transformers, switchgear, and control systems within a secure, weather-resistant enclosure.



ADDITIONAL IMAGES



Overview

Advanced Urban Power Distribution

This 110kV Urban Power Substation is a compact and efficient solution designed for high-density city centers and industrial zones. It integrates high-voltage transformers, switchgear, and advanced control systems within a secure, weather-resistant E-House enclosure. Engineered for minimal environmental impact, it features acoustic shielding and a reduced footprint to ensure reliable power delivery in congested areas.

Performance Metrics

Key Performance Indicators

110 kV

Voltage Rating

40 dB

Noise Level

420 m2

Minimum Land Area

Installation & Efficiency

Construction Timeline	3 to 6 months
Commissioning Timeline	1 month or less

Environmental & Safety

Safety Design

- Safe-to-touch E-House enclosures
- Integrated fire-fighting equipment
- Robust safety signage and fencing
- Surge arresters for overvoltage protection

Shielding & Protection

Acoustic Shielding, Electromagnetic Shielding, Radiation Reduction, Vandalism Protection

Technical Configuration

System Components

- High-voltage step-down transformers
- Circuit protection switchgear
- Remote control buildings
- Overhead busbars and insulators
- Disconnectors

Voltage Levels Supported

110kV • 35kV • 10kV

Smart Capabilities

Smart Grid Integration

- Advanced monitoring systems
- Remote control capabilities
- Smart box-type substation integration
- Efficient energy management

Customization

Aesthetic Customization

Custom paint work available to blend with urban surroundings