

# 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