Unit Substation

IEM's Unit Substations can utilize any configuration up to 27kV. They are designed and assembled to accommodate any commercially available transformer for either indoor or outdoor applications.

Unit Substation

Conforms to any commercially available transformer

Full Customization and Design Flexibility

Component & Metering Selection Options

Seismic Tested to Worst Case Response Spectrum

Indoor and Outdoor Applications

UL or CSA Listed; Meets ANSI, IEEE, and NEMA Standards

Features & Benefits

- Primary – Air terminal chamber, vacuum circuit breaker or load interrupter switch to 27kV
- Transformer – Any commercially available transformer
- Secondary – Circuit breaker or fusible switches, UL 891, UL 1558, or CSA switchgear
- Maximum flexibility with wide range of components and ratings to meet application specifics
- Indoor or Outdoor assemblies/construction
- Configures to any transformer manufacturer available
- Comprehensive substation composite layout drawings.
- Superior flexibility options including increased utilization of space
- Improved voltage regulation and lowered power losses
- Complete coordination of substation components ensures precise fit
- Minimizes the use of secondary distribution cables and busway

Technical Specifications

IEM Switchgear meets seismic testing, circuit requirements as outlined by IEEE344 and ICC-ES-AC156.

IEM Difference

Fully rated bus is based on density ratings, not UL heat rise tests, resulting in more bus and lower operating temperatures.

All enclosures are designed for specific application with improved dimensional flexibility and finished using state of the art powder coating system providing an indoor finish that exceeds the 1500 hour salt spray testing requirement for outdoor equipment to 3000 hours.

Component and metering selections are based on value engineering for the application and optimized to meet specifications.

Version: 2025_01_03_RevO1. Specifications subject to change without notice.