# HIGH AND LOW VOLTAGE SWITCHGEAR SERIES

CLC

Primary & Secondary Equipment PV Prefabricated Cabin



## Overview

We provide fully modular prefabricated substation solutions that reduce footprint by 30% and cut system design, installation, and commissioning time by 70%. Our all-metal prefabricated cabins feature intelligent environmental control systems, capable of operating in harsh conditions including extreme temperatures, high humidity, and sandy environments.

The solution supports integration with eCloud Energy Platform for remote health monitoring, fault analysis, and maintenance guidance, enabling unmanned substation operation and full lifecycle asset management. All substation equipment can be customized to meet specific project requirements, with guaranteed reliability and proven quality.



# Conditions of use

- Operating Temperature Range: -40° C to +85° C
- Installation: Outdoor
- Altitude: ≤ 3,000m
- Pollution Degree: Class III
- Wind Resistance: ≤ 35m/s
- Horizontal Acceleration: 0.3m/s<sup>2</sup>
- Vertical Acceleration: ≤ 0.15m/s<sup>2</sup>

For conditions exceeding the above parameters, customized designs are available based on user requirements.

## Prefabricated Substation Cabins vs. Traditional Substations: Key Comparisons

Feature	Prefabricated Cabin Solutions	Traditional Substations
Deployment Time	70% faster (modular installation)	3-6 months for civil construction
Space Requirements	30-50% footprint reduction	Large permanent site needed
Environmental Adaptability	-40° C to +85° C operation, IP54 protection	Requires additional climate-control systems
Installation Complexity	Plug-and-play components	On-site assembly of individual parts
Relocation Flexibility	Fully relocatable	Fixed infrastructure
Smart Features	Standard IoT integration (e.g. eCloud platform)	Retrofit required for digital monitoring
Cost Structure	Lower OPEX (predictive maintenance)	Higher CAPEX (civil works dominate)
Customization	Configurable equipment layouts	Limited post-construction modifications

#### Application field

• Wind power generation, photovoltaic power generation, offshore wind power, distributed photovoltaic power generation and other new energy field booster station

- Power grid 10-35kV substation
- Large factories and mining enterprises for their own substation

