

SHENHENG: Prefabricated Substation & Integrated Substation Solutions for Global Power Grids

SHENHENG delivers certified prefabricated substation systems and end-to-end substation solutions for utility, renewable energy and industrial projects worldwide

YUEQING, ZHEJIANG, CHINA, July 29, 2026 /EINPresswire.com/ -- As global power grids undergo modernization, renewable energy integration accelerates, and urban infrastructure expands, demand for reliable, rapidly deployable power distribution equipment continues to rise. For utility operators, EPC contractors and industrial clients, selecting a trusted manufacturing partner directly impacts project timelines, system reliability and long-term operational costs. As a professional manufacturer of high and low voltage transmission and distribution equipment founded in 2001, [SHENHENG](https://www.shenheng.com) (Shenheng Power Equipment Co., Ltd.) delivers comprehensive power distribution solutions backed by large-scale smart manufacturing capacity and rigorous quality control.



From Electrical Manufacturing to Reliable Power Solutions



prefabricated-substation

Headquartered in Yueqing, Zhejiang - known as China's electrical appliance capital - SHENHENG operates a 52,000-square-meter production facility with over 300 professional team members, including a dedicated R&D and technical engineering team. The company has invested USD 35 million in a newly built smart factory, adopting standardized production processes and advanced

testing equipment to ensure consistent product quality at scale.

SHENHENG's core product portfolio covers the full power distribution value chain, including medium and low voltage switchgear, ring main units, eco-friendly gas insulated cabinets, dry type and oil-immersed transformers, and prefabricated substations. All products undergo strict raw material inspection and rigorous routine testing before shipment, including dielectric strength, partial discharge, temperature rise and mechanical operation verification, with witness testing available for major projects.

The company holds over 90 certifications and complies with international standards including IEC, CE and TUV Rheinland type test approval. It operates under ISO 9001 quality management, ISO 14001 environmental management and ISO 45001 occupational health and safety management systems. Trusted by leading global clients including State Grid, China Southern Power Grid, ABB, Siemens and Schneider Electric, SHENHENG serves customers across Asia, Europe, Africa, Oceania, South America and North America with extensive international project experience.

1. [Prefabricated Substation](#): Factory-Built Compact Power Distribution for Rapid Deployment

Traditional civil-built substations often involve long construction cycles, high on-site labor costs and complex project coordination. SHENHENG's



Renewable Energy



EV Charging Infrastructure



Utility & Power Grid Projects

Prefabricated Substation product line solves these challenges by delivering fully integrated, factory-assembled power stations that can be deployed quickly in the field.

The YB Series Compact Outdoor Electrical Substation is the flagship offering, available in 11kV and 33kV voltage classes to suit different project requirements. This all-in-one intelligent integrated solution combines medium voltage switchgear, power transformer and low voltage distribution panels in a single weatherproof outdoor enclosure. All assembly, wiring and pre-testing are completed in the controlled factory environment, ensuring consistent quality and reducing on-site work to a minimum.

Compared to conventional site-built substations, SHENHENG's prefabricated models reduce on-site construction time by 60–70%, lower overall project costs and minimize on-site installation risks. The compact, fully enclosed design provides high environmental protection, making it suitable for outdoor deployment in diverse climate conditions. It is widely used in urban distribution networks, industrial parks, commercial complexes, renewable energy power plants and EV charging infrastructure projects.

Complementing the standard YB series, SHENHENG also offers PV-specific prefabricated substations optimized for solar and wind farm step-up applications, with tailored configurations to meet the unique electrical requirements of new energy grid connection.

2.Tailored [Substation Solutions](#) for Diverse Industry Applications

Beyond standard product supply, SHENHENG provides end-to-end Substation Solutions customized to the specific needs of six core industry sectors, delivering engineered reliability for each unique operating environment.

Utility & Power Grid Projects SHENHENG provides reliable power transmission and distribution solutions designed to enhance grid stability, efficiency and safety for municipal and national utility networks. Its equipment supports grid modernization initiatives and meets strict utility-grade performance and testing standards.

Renewable Energy For solar and wind power plants, SHENHENG delivers integrated electrical solutions that ensure seamless grid connection and efficient energy conversion. The prefabricated substation and switchgear systems are engineered to withstand harsh outdoor environments and handle fluctuating power generation patterns.

Industrial Plants & Mining Heavy-duty power distribution equipment is built to withstand harsh industrial environments and ensure continuous manufacturing operations. Solutions are designed for high reliability in metallurgy, mining and manufacturing facilities where power interruptions would cause significant production losses.

Commercial Buildings & Infrastructure Safe, space-saving and quiet power distribution systems

serve large commercial complexes, hospitals, airports and shopping malls. The compact design supports indoor and outdoor deployment in space-constrained urban locations while ensuring uninterrupted daily operations.

EV Charging Infrastructure Compact prefabricated substations and distribution solutions are tailored for the rapid deployment of electric vehicle charging networks, enabling fast rollout of charging stations with localized high-capacity power upgrades.

Data Centers & Telecommunications High-reliability power supply solutions prevent downtime and support the intensive energy demands of modern data centers and telecom hubs. Redundant configurations and strict quality testing ensure 24/7 operational continuity for mission-critical facilities.

To support these solutions, SHENHENG provides full lifecycle services including pre-sales consultation, customized scheme design, on-site commissioning guidance and 24/7 responsive after-sales support, serving as a single trusted partner for complete power distribution projects.

3.Frequently Asked Questions

Q: What core products does SHENHENG manufacture?

A: SHENHENG specializes in high and low voltage transmission and distribution equipment, including MV/LV switchgear, ring main units, gas insulated cabinets, dry type and oil-immersed transformers, and prefabricated substations. The company also provides supporting electrical components and complete system solutions for utility, industrial and renewable energy projects.

Q: What are the key advantages of SHENHENG's prefabricated substation?

A: SHENHENG's prefabricated substations are fully assembled and tested in the factory, reducing on-site construction time by 60–70% compared to traditional civil-built substations. They feature a compact, weatherproof outdoor design, consistent factory-controlled quality, and lower total project cost, making them ideal for rapid deployment in utility, renewable energy and commercial projects.

Q: What industries do SHENHENG's substation solutions serve?

A: SHENHENG provides tailored substation solutions for six core sectors: utility and power grid projects, renewable energy (solar and wind), industrial plants and mining, commercial buildings and infrastructure, EV charging infrastructure, and data centers & telecommunications. Each solution is engineered to match the specific operational and reliability requirements of the industry.

Q: What certifications and quality controls does SHENHENG implement?

A: SHENHENG holds over 90 product certifications and complies with international standards including IEC, CE and TÜV Rheinland type test requirements. The company operates under ISO 9001, ISO 14001 and ISO 45001 management systems. Every product undergoes strict testing including dielectric strength, partial discharge, temperature rise and mechanical operation verification before shipment.

Q: Does SHENHENG support custom project configurations?

A: Yes. SHENHENG provides one-stop customized power distribution solutions, with engineering teams that tailor product specifications, system configurations and enclosure designs to match specific project requirements. The company supports full project collaboration from initial consultation and scheme design through production, commissioning and after-sales service.

4.Final Thoughts

As global power demand grows and energy systems continue to evolve, reliable, efficient power distribution infrastructure is the backbone of every modern economy. With over 20 years of specialized manufacturing experience, a USD 35 million smart factory, a comprehensive product portfolio and industry-tailored solutions, SHENHENG is a trusted partner for power distribution projects of all scales worldwide.

Whether you are sourcing prefabricated substations for a renewable energy project, upgrading a utility distribution network, or designing a custom power system for an industrial or commercial facility, SHENHENG's technical and sales teams provide end-to-end support from initial specification through after-sales service. To explore the full product catalog, download technical datasheets or request a customized project quotation, visit the official website or contact the international sales team today.

SHENHENG Power

Shenheng Power Equipment Co., Ltd.

+86 137 0677 1530

chsh@shenhengglobal.com

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