



E-HOUSE AND PREFABRICATED SUBSTATION SPECIALIST COMPANY PROFILE

TGOOD

Energy, Fast!

tgood.com

➤ TGOOD Global is an international leader in e-house and prefabricated substation solutions with the fastest manufacturing, delivery and installation time in the industry.



THE TGOOD DIFFERENCE

- Over 7000 prefabricated substations and e-houses produced annually.
- Focus on prefabricated substation solutions, globally.
- The fastest manufacturing, delivery and installation time in the industry.
- Flexible solutions, designed according to client preferences.

➤ We measure delivery and installation time in weeks, not months

FASTER ASSEMBLY

Many substation solutions are ready to depart a TGOOD factory in as little as six weeks.

FASTER INSTALLATION

Modular prefabricated substations vastly shorten on-site construction time.

FASTER CONSTRUCTION

Minimised civil works immensely reduce building effort.

FASTER COMMISSIONING

Rigorous factory testing reduces commissioning time by an average of 50%.



➤ Founded in 2004 by a forward-thinking team of German and Chinese engineers, TGOOD is the world leader in e-house solutions, today.

➤ TGOOD Global Ltd is headquartered in Hong Kong and has subsidiaries in Africa, Australia, Germany, the Middle East and South East Asia. We offer the best of both worlds—local service and compliance combined with the scale and speed of large factories.

HISTORY

2004

- TGOOD was founded as a Sino-German joint venture.

2014

- TGOOD Global Ltd was established as a hub for globalisation in Hong Kong.
- Market presences were established in South America, Australia and South Africa by TGOOD Global Ltd.

2015

- Market presences established in the Middle East, South East Asia and Central Asia by TGOOD Global Ltd.

2016

- TGOOD developed advanced energy management concepts based on new micro-grid technology.
- TGOOD Germany was established as global R&D centre for TGOOD Global Ltd.

2017

- 145/36 kV e-house projects were awarded to TGOOD Global in Australia and Africa.

2018

- TGOOD Global's first 252kV modular substation project was executed.

2019

- TGOOD Global received its first order of a simple-lift gas insulated switchgear (GIS) substation for a liquefied natural gas (LNG) project.
- TGOOD Global regional businesses executed full engineering procurement and construction (EPC) projects in Russia, Australia and Malaysia.

- TGOOD launched its high power charging (HPC) and group charging solution for EVs to the global market.

2020

- TGOOD Global implemented a battery storage and HPC station up to 2000A in Germany.
- TGOOD Africa delivered a 230kV trailer substation to Côte d'Ivoire in West Africa.
- An ongoing high voltage hybrid GIS contract was awarded to TGOOD Australia by Endeavour Energy.

2022

- TGOOD Africa supplied 200 gas insulated primary switchgear to Kamo-a-Kakula Copper Complex in the Congo.
- TGOOD Australia was awarded a contract to supply 40.5kV GIS switchgear in modular e-houses in Queensland.

2023

- TGOOD Global regional businesses were awarded more than 90 projects, including primary and secondary switchgear panels and prefabricated kiosks.
- TGOOD South East Asia delivered a 145kV/22kV prefabricated substation to a major manufacturing customer in Thailand.

2024

- TGOOD Africa completed the Fleurhof prefabricated substation project, featuring 7 bays of 145kV high voltage gas insulated switchgear.
- TGOOD Global now represents Brunstock and sells its range of green gas insulated primary and secondary switchgear, step-up stations and transformers.



TGOOD SOLUTIONS



PREFABRICATED SUBSTATION

Prefabricated substations are factory pre-assembled and tested to reduce installation, construction and commissioning times by an average of 50%. TGOOD's modular high and medium-voltage switchgear such as TGP145, THP145, TGS and TAP17 are installed in-house to drastically reduce manufacturing and assembly times. TGOOD Global makes construction of substations easy and fast.



SWITCHGEAR EHOUSE

TGOOD's prefabricated e-houses have been installed in the world's harshest outdoor operating environments. As the world leader in e-house technology, TGOOD delivers thousands of units annually to meet the demands of customers and projects around the globe.



TRAILER AND SKID SUBSTATION

For temporary power solutions, emergency substation replacements and industry applications, where a movable solution is required, TGOOD trailer and skid substations deliver an instant power solution. Our trailers are designed to meet international transportation standards.





MODULAR SUBSTATION

The TGOOD 145kV modular substation is a patented solution, ideal for crowded cities and congested industrial zones. Employing sealed gas insulated switchgear modules up to 145kV, modular substations are safe to touch and provide exceptional protection against vandalism. Attractive, compact designs along with low audible noise and electric field emissions make modular substations an optimal solution for densely populated areas.



HYBRID GAS INSULATED SWITCHGEAR

TGOOD HGIS (Hybrid Gas Insulated Switchgear) technology builds upon high voltage SF₆ gas insulated breakers but incorporates air insulated busbar modules for greater affordability. HGIS results in a standalone substation component that is easy to install, has a smaller footprint than the air-insulated equivalent, and costs less than a fully gas insulated system.



GAS INSULATED SWITCHGEAR

TGOOD HVGIS utilises maintenance-free SF₆ gas insulated breakers for an extremely compact and versatile switchgear solution for challenging, space-constrained projects. Our integrated, modular GIS eliminates much of the expense, complexity and cost associated with traditional GIS systems. Where the environmental benefits of using SF₆-free gas are of interest, our affordable range of Brunstock power equipment is also available.

METAL-ENCLOSED SWITCHGEAR

Medium voltage metal-enclosed switchgear offers innovative features to ensure safety and durability in a product ideal for space-constrained environments. Reliability and quality control are key, with each circuit breaker module type tested for up to more than 10,000 mechanical operations.

TRANSFORMERS

TGOOD offers a full suite of dry type, oil filled, and amorphous alloy core transformers as part of our prefabricated substation solutions. TGOOD transformers utilise cutting edge technology to reduce losses. Our Brunstock range of transformers extends this portfolio to 220kV.

> TGOOD's History of Successful Innovations

- 2004** First railway remote substation
- 2005** First 40.5 kV compact prefabricated substation
- 2006** First offshore platform substation
- 2007** First intelligent railway remote substation
- 2008** First skid substation
- 2009** First 110 kV urban substation
- 2010** First coal dual power supply substation
- 2011** First trailer substation
- 2012** First 145 kV modular substation
- 2013** First PV integrated substation
- 2014** First electric vehicle group charging substation
- 2015** First 40.5kV and 12kV PV pad-mounted substation
- 2016** First 3x3 section 110kV modular substation
- 2017** First 252kV modular substation
- 2018** First micro-grid solution
- 2019** First high power charging (HPC) solution
- 2020** First battery storage and charging station solution



➤ TGOOD's high-capacity, ISO 9001-certified manufacturing process delivers consistent, high quality solutions with best-in-class lead time.



THE MANUFACTURING EXCELLENCE OF TGOOD



- 500,000 m² production facilities.
- Over 7000 prefabricated substations and e-houses produced annually.
- Proprietary offer includes e-house, HV GIS, HGIS, transformers, metal-enclosed switchgear, prefabricated substations, RMU, and VCB.
- More than 1000 patents on e-house, substation and switchgear solutions and production processes.



GLOBAL PROJECT EXAMPLES



- > Industry: Auto Manufacture
- > Location: Germany
- > Customer: PIECH
- > Project: Battery Energy Storage and Charging Station
- > Equipment: Prefabricated e-house



- > Industry: Forestry
- > Location: Chetwynd, BC, Canada
- > Customer: West Fraser Mills Ltd.
- > Project: Chetwynd Power Plant
- > Equipment: 25kV eHouse

We delight our customers with solutions that create more value than they expect



Over the past decade, we have provided prefabricated substations and eHouse solutions for projects in some of the world's most remote locations and inhospitable operating environments. TGOOD's project management experience and customer focus ensure that your project is completed on-time and on-budget.



- > Industry: Oil & Gas
- > Location: Kazakhstan
- > Customer: Maersk Oil Company
- > Project: Dunga Oil Field
- > Equipment: 35/10kV e-house



- > Industry: Mining
- > Location: Kyrgyzstan
- > Customer: Kumtor (Centerra Gold/Canada)
- > Project: Gold Mine Substation Replacement
- > Equipment: 110/6kV Prefabricated Modular Substation



- > Industry: Utility
- > Location: Mozambique
- > Customer: Mozambique Electric Company
- > Project: Power Compensation
- > Equipment: MV Prefabricated Substation



- > Industry: LNG
- > Location: Singapore
- > Project: 69kV Power Substation
- > Equipment: One-Lift e-house



- > Industry: Mining
- > Location: Indonesia
- > Customer: Martabe Gold Mine
- > Project: Gold Mine Power System Compensator
- > Equipment: 10kV e-house

GLOBAL PROJECT EXAMPLES



- > Industry: Oil & Gas
- > Location: Iraq > Customer: Misan Oil Company
- > Project: Intake Water Pump Station
- > Equipment: 132kV Mobile Substation



- > Industry: Renewable energy
- > Location: China
- > Customer: Xinyi Solar Co. Ltd
- > Project: 20MWp Solar Farm
- > Equipment: 35kV Modular Substation



- > Industry: Biomass Power Generation
- > Location: Malaysia
- > Customer: Cypark Resources Berhad
- > Project: 8MW Solar Farm
- > Equipment: 33kV Prefabricated Substation



- > Industry: Oil & Gas
- > Location: Colombia
- > Customer: Ecopetrol
- > Project: Emergency Power Supply
- > Equipment: 115kV 20MVA Trailer Substation



- > Industry: Renewable Energy
- > Location: New South Wales, Australia
- > Customer: Endeavour Energy
- > Project: Power Distribution
- > Equipment: 145kV High Voltage Hybrid Switchgear



- > Industry: Utility
- > Location: Ecuador
- > Customer: ALEMINS S.A
- > Project: Ecuador Trailer Substation
- > Equipment: 66kV Trailer Substation



- > Industry: Coal Mining
- > Location: Pakistan
- > Customer: SEMC
- > Project: Thar Coal Mine Handling Project
- > Equipment: Prefabricated Substation, 11kV KYN, LV & Control Monitoring System



- > Industry: Power Distribution
- > Location: Johannesburg, South Africa
- > Customer: Lebohang Project Management
- > Project: Fleurhoff Housing Development
- > Equipment: 145kV HV and 11kV MV GIS in Prefabricated Substations



- > Industry: Renewable Energy
- > Location: Longreach, Queensland
- > Customer: RCR Infrastructure
- > Project: Solar Farm
- > Equipment: 22kV Modular Control and Switchroom Package

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