



## EHOUSE AND PREFABRICATED SUBSTATION SPECIALIST COMPANY PROFILE

**TGOOD**

Energy, Fast!

[tgood.com](http://tgood.com)

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



## THE TGOOD DIFFERENCE

- › Over 7000 prefabricated substations and ehouses 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

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

#### FASTER INSTALLATION

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Modular prefabricated substations vastly shorten on-site construction time.

#### FASTER CONSTRUCTION

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Minimised civil works immensely reduce building effort.

#### FASTER COMMISSIONING

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





16800 30KV FEEDER PANEL

BAR NO. XB-149926/1

+11A10

➤ Founded in 2004 by a forward-thinking team of German and Chinese engineers, TGOOD is the world leader in ehouse 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

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

## 2014

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

## 2015

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

## 2016

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- › 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

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- › 145/36 kV ehouse projects were awarded to TGOOD Global in Australia and South Africa.

## 2018

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

## 2019

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- › 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

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- › 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

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

## 2023

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

## 2024

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- › TGOOD Africa completed the Fleurhof pre-fabricated 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, and transformers.



# TGOOD SOLUTIONS



## PREFABRICATED SUBSTATION

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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

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



## TRAILER AND SKID SUBSTATION

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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.









国家电网  
STATE GRID

110kV城市中心智能变电站  
110kV City Center Intelligent Substation  
产品世界首创 技术水平国际领先

TC002

FH

## MODULAR SUBSTATION

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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

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TGOOD HGIS (Hybrid Gas Insulated Switchgear) technology builds upon high voltage SF<sub>6</sub> 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

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TGOOD HV GIS utilises maintenance-free SF<sub>6</sub> 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.

## METAL-ENCLOSED SWITCHGEAR

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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

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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.

# > 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.



# MANUFACTURING EXCELLENCE



- > 500,000 m<sup>2</sup> production facilities.
- > Over 7000 prefabricated substations and eHouses produced annually.
- > Proprietary offer includes ehouse, HV GIS, HGIS, transformers, metal-enclosed switchgear, prefabricated substations, RMU, and VCB.
- > More than 1000 patents on ehouse, substation and switchgear solutions and production processes.



# GLOBAL PROJECT EXAMPLES



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

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



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



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



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 eHouse



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



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



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

# GLOBAL PROJECT EXAMPLES



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



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



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



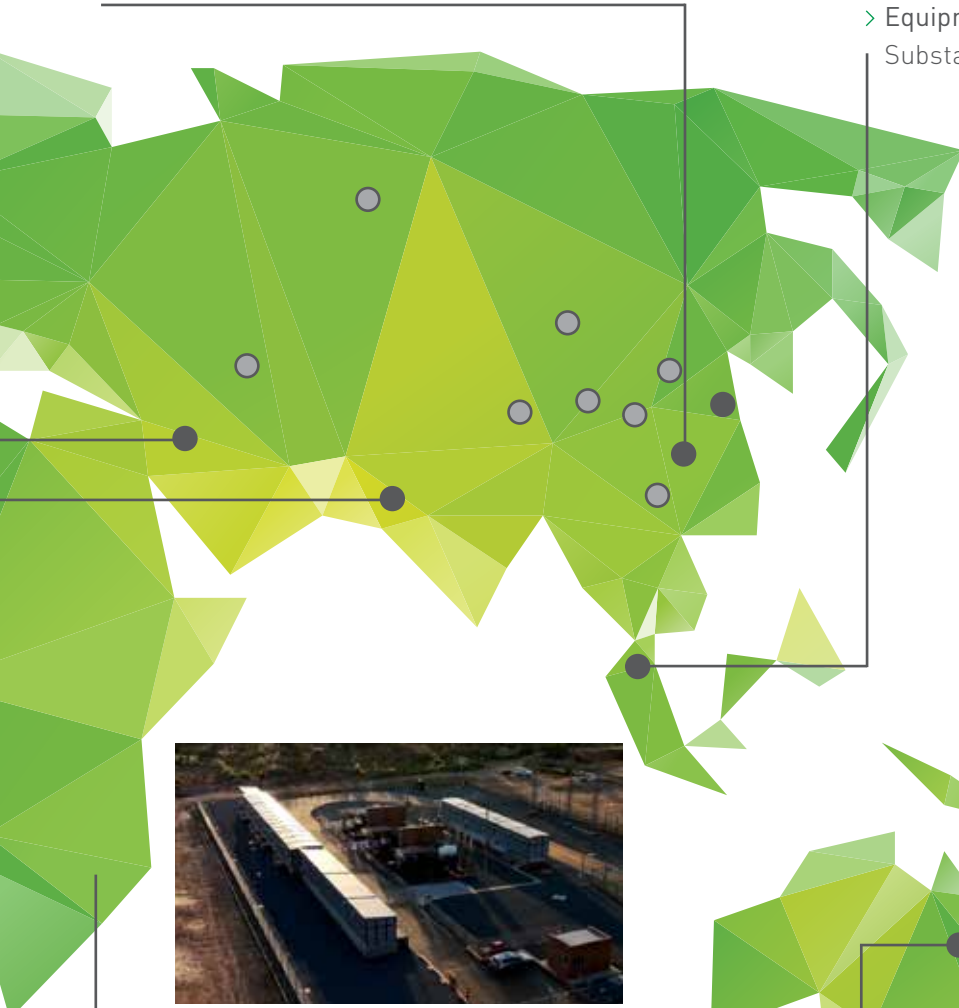
- > Industry: Coal Mining
- > Location: Pakistan
- > Customer: SEMC
- > Project: Thar Coal Mine Handling Project
- > Equipment: Prefabricated Substation, 11kV KYN, LV & Control Monitoring System



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



- > Industry: Power Distribution
- > Location: Johannesburg, South Africa
- > Customer: Lebohag 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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