



# TGOOD SOLUTION

## OIL & GAS

**TGOOD**



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

## TGOOD introduction

TGOOD is the global leader in prefabricated electric power distribution solutions. It is the company that first comes to mind when cost-effective electric power solutions are required fast. TGOOD, as a passionate team of professionals, delights its customers with solutions that exceed expectations.

TGOOD listens to customers, and responds to their specific needs by providing innovative power solutions globally with exceptionally short lead times, high degree of flexibility, and great value for money.

TGOOD specialises in providing vertically integrated substations solutions from power products through to and including modular buildings and structural fabrication. TGOOD stands alone on the global stage with such vertical integration and manufactures medium and high voltage power products up to 145kV. TGOOD's products can meet the requirements of various industries and have successfully executed installations in utility, transportation, mining, oil & gas, renewable energy and building sectors.

Since 2004, more than 110,000 TGOOD prefabricated substations installed worldwide!



## Standards & quality

### Quality assurance

#### Certified quality: ISO 9001

#### A major asset

TGOOD integrates a functional organization whose main role is to check quality and monitor compliance with standards. This procedure is:

- uniform throughout all departments
- recognized by many customers and approved organizations. But above all, it is its strict application that has allowed us to obtain the recognition of an independent organization:

The International Accreditation Forum (IAF). The quality system for the design and manufacture of TGS is certified to be in conformity with the requirements of ISO 9001: 2015 quality assurance standard.

#### Strict and systematic checks

During manufacture, each TGS functional unit is subject to systematic routine testing with the aim of checking the quality and conformity of the following features:

- measuring of opening and closing speeds
- dielectric test
- testing of safety systems and interlocks
- testing of low voltage components
- conformity with drawings and diagrams.

The results obtained are recorded and approved by the quality control department on each device's test certificate. This therefore guarantees product traceability. Control of vacuum interrupters Each vacuum interrupter, sealed and airtight, is checked for the quality of the vacuum obtained. This pressure measurement is based on the proven "magnetron discharge" method. Using this sophisticated procedure, measurement is very precise and does not require access to the inside of the bulb, thus not affecting the airtight seal.

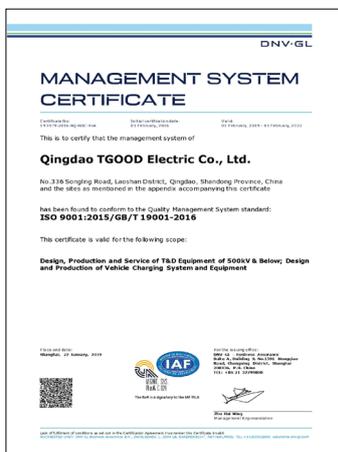
### Environment protection

As part of the group's environmental policy, TGOOD provides you an option to recover high voltage switchgear and thus eliminate any discharge to atmosphere. In order to help you protect the environment and to relieve you of any concerns in terms of stock or dismantling, TGOOD service offers to take back your equipment at the end of its life. TGS has been designed with environmental protection in mind:

- all materials used, for instance insulators and conductors, are identified, and easily separable for recyclable.
- SF<sub>6</sub> usage is reduced in TGS, and SF<sub>6</sub> can be recovered at the end of the equipment's life and reused after treatment.
- production sites are certified to ISO 14001.

### Occupational Health and Safety

Occupational Health and Safety (OH&S) bears highest importance at TGOOD. TGOOD demonstrates its commitment towards control of the risks and improvement in performance of OH&S by complying to OHSAS 18001:2007 certified by China National Accreditation Service (CNAS). TGOOD management believes in process approach and its policy is based on PDCA methodology that focuses on elimination or minimizing risks to personnel and other interested parties who could be exposed to OH&S hazards associated with its activities. Strong mechanisms are in place to assure that TGOOD performance on OH&S not only meets, but will exceed its legal and policy requirements.



Up to

30%

the space you can save with a  
TGOOD E-House solution

## Solution description

TGOOD implements the right technologies as well as uses efficient and environmentally friendly facilities to ensure reliable and sustainable power supply. Its prefabricated solutions

improve production efficiency from drill pad to refinery through technological innovations.

## Why TGOOD

- Our prefabricated E-house construction concept delivers high production efficiency for project executions in the most remote locations of the world.
- Customized technological solutions, through the whole process of upstream, midstream and downstream projects, provide highest adaptability to customer requirements.
- With experienced professionals in the field, TGOOD provides best-in-class service around the globe.

# TGOOD Solution for Oil & Gas



Oil plant substation

An innovative solution that delivers more than power, while you save power supply installation time and costs, your project realizes these significant values

## The most complete energy management solution for safe, efficient operations

E-House is an optimized integration of power and control, incorporating switch-gear, motor control centers, variable speed drives, intelligent relays and energy meters, dry transformers, batteries, UPS, and complete intelligent building management and control solutions. This comprehensive solution saves up to 30% in auxiliary energy consumption costs related to climate control (HVAC), lighting and auxiliary power, security, and fire and gas management.



E-House in off-shore oil platform

## Validated building design

TGOOD offers prefabricated and modular substation expertise to ensure that your project's equipment complies with international standards, environmental restrictions, and local regulations.

## E-House application centers

TGOOD regional execution centers provide strong project management skills and an efficient supply chain, ensuring reliable, timely, and safe delivery of your project.



E-House in the Middle East

## Solution centers

From concept to installation and commissioning, TGOOD experts based in a solution center provide the use proven tools from its wide portfolio and recognized architecture principles to deliver the solution you need. This helps to simplify project execution and reduce risk.



MV E-House in oil field

## Readiness

Extensive testing and pre-commissioning of the complete engineered solution within the factory ensures the assembly is ready to use when it is delivered. Your project realizes up to 50% reduction in delivery and start-up time, compared to a non-prefabricated solution.

## Services and E-House lifecycle support

TGOOD provides specialized manufacturer support for your entire electrical system, delivering value throughout the system's lifecycle. Services include on-site preventative maintenance and remote diagnostic testing. Detailed training programs for operators and maintenance personnel cover all aspects of the equipment and control system design and operation.



MV switchgear room of E-House in oil factory



Kazakhstan crude oil pipeline project in 2013 and 2014



Uzbekistan Lukoil substation in 2016



Colombia 115kV trailer substation in 2016



Singapore 69kV project in 2020



Up to

30%

## the cost you can save with a TGOOD E-House solution

Safe and reliable power distribution is critical in Oil & Gas operations, including onshore field, offshore platform, pipeline pumping stations, refineries, and petrochemical plants. Without it, operators could see

production come to a halt, personnel safety compromised, and profits significantly reduced.

TGOOD offers an Electrical House (E-House) solution that integrates major power and control equipment into a compact module. Factory-prefabricated, pre-commissioned the E-House

shortens the time you need to initiate power to the operation and, even more importantly, reduces project costs and contingencies by up to 30%.

# Reduce project risk

The civil, mechanical, and electrical expertise incorporated in each custom-prefabricated E-House solution returns benefits that minimize project costs and support performance

- **Fast delivery** — Modular concept and know-how of prefabricated substation makes manufacturing process efficient.
- **Provides safety** — while compliant and type- tested switchgear supports operator safety, optimized performance resulting from expert design and construction reinforces safety across project operations.
- **Flexible solution** — Real customized design based on abundant experiences enable TGOOD to provide what customer required in your project.
- **Saves cost** — Valuable land, on site labor cost and commissioning time are saved significantly for your oil and gas project.



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