

FINAL TESTED

FINAL

  
**TANELEC**

FACILITATING POWER DISTRIBUTION IN THE REGION

**Company Profile**



## INSIDE

- 3** About Us
- 4** Our Culture
- 5** Our Products

- 6** Our Products & Services:
  - Transformers
  - Switchgears

- Service & repair
- TANELEC Cookers
- 11** Our Market





## About Us

TANELEC limited commenced its operations in Arusha, Tanzania in 1981 and is the largest manufacturer of electrical distribution transformers and switchgear in East and Central Africa.

We are well equipped to provide full customer support for all our products and at the same time offer comprehensive repair and service capabilities.

### Our Mission

To be a responsive and dynamic company that exceeds customer expectations and increasing our market footprint and share in Africa through the provision of high quality products and services.

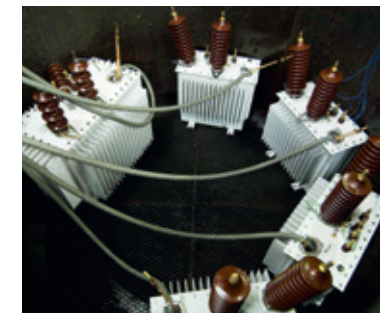
### Our Vision

To be the leading and preferred provider of distribution transformers and switchgears.

### Our Core Values

- Employees, customers and public safety.
- Ensuring that our business ethics are unquestionable.
- Demonstrating our social and environmental responsibilities.
- Customer care and service beyond expectation.

Tanelec limited manufactures power distribution equipment backed by local knowledge and international standards



## Our Culture

We believe our employees are our greatest resource and as such strive to provide occupational health, safety and ensure safe working conditions by constantly auditing our internal processes and making improvements as we identify them.

We also work at promoting team spirit within all levels of the company. Open communication ensures new ideas can be presented and incorporated. We also constantly monitor standards to ensure principles are maintained.

We are committed to our own code of practice and business ethics policies. Our senior management team comprises of experienced people whose combined talents and expertise enables us to manage and achieve our ambitions and targets.

We recognise that our own success can provide increased employment opportunities for the local community as well as providing business opportunities for service and supply sectors.

Creating local added value is important to us and our contribution to the country and regional economy.

We combine high quality with practicality. To this end, we have worked with Tanesco in Tanzania to develop products aimed at reducing energy theft, among many other solutions.



Tanzania Bureau of Standards  
Certification: *for all our products*



ISO 9001 Quality Management System



ISO 14001 Environmental Management System

We aim for the highest standards of quality in all our products and services. We are proud to have been awarded ISO and TBS certification.

**Built in Africa for Africa**  
*facilitating power distribution in the region*

**5 • Our Products**

**TANELEC**



## Transformers

We manufacture pole mounted and ground mounted distribution transformers from 25KVA up to 5000KVA up to 33Kv.

We have our in-house engineering and design capabilities and manufacture transformers using well proven technology. Our engineers ensure that the best solutions are provided to suit our customers'.

Transformers can be supplied from our standard products range, customized to suit customer needs or designed specifically for special applications. Tanelec transformers comply with IEC standards.

Only the best quality materials are used to ensure the highest possible quality. At the end of the production process, all our transformers are subjected to full routine tests including high voltage and performance efficiency tests.

### Benefits

Tanelec transformers ensure:

- Minimal vibration and noise
- Excellent mechanical strength against short circuits
- High impulse withstanding capability
- Top quality powder paint surface finish
- Minimal maintenance requirements
- Long life expectancy

### Optional Extras

- Conservator tanks
- Dehydrating breathers
- Pressure relief devices
- Temperature indicators (With or without trips)
- Bucholz relays
- Cable boxes
- Skids or rollers



We specialise in manufacture of transformers, switchgears, servicing and repair of all our products



## Switchgears

TANELEC has a proven record for producing high quality switchgear which meets IEC standards. This we have done by combining both basic local know how and the latest global technology to produce and design our products to offer defined excellence.

We engineer and manufacture a wide variety of Low Voltage Switchgear products including custom Switchgear specific to customer needs.

We also manufacture a range of Medium Voltage products such as switchboards up to 33kV, general control panels and metering panels.

### Low Voltage & Medium Voltage Switchgear

Our Low Voltage Switchgears are used extensively in the generation, distribution and general use of electrical energy.

Our Medium Voltage (MV) switchgear range is easy to install, safe to operate and is efficient on space.

Other Switchgear products include:

- Transformer and generator changeover controls
- Distribution panels
- Metering panels
- Metering boxes
- Solutions specific to customer needs

We put all our products through the most stringent tests to ensure optimum performance in accordance with IEC Standards



**Automation**

One of the greatest challenge that industry is facing today is the pressure to reduce energy consumption due to the ever-increasing energy prices and effects climate change is having on the environment. As a result, there is a need for more energy efficient products.

Many motors are oversized to cope with a maximum demand that rarely or never occurs. Many fixed-speed motor load applications that are supplied direct from AC line power can save energy when they are operated at variable-speed, by means of VSDs. Such energy cost savings are especially pronounced in variable-torque centrifugal fan and pump applications, where the loads' torque and power vary with the square and cube, respectively, of the speed.

This change gives a large power reduction compared to fixed-speed operation for a relatively small reduction in speed. For example, at 63% speed a motor load consumes only 25% of its full speed power. Drives reduce the output of an application, such as a pump or a fan, by controlling the speed of the motor, ensuring it runs no faster than it needs. The drive therefore brings the motor speed down to match the actual demand of the application thus cutting energy consumption often by at least 50%.

TANELEC supplies and supports drives and motors that help to solve the energy challenge. Our dedicated engineering team backed by world class drives and motors manufacturers provide solutions and technologies that help lower energy use, either by reducing power consumption and losses, improving productivity or through better management of equipment.

**TANELEC supplies and supports drives and motors that help to solve the energy challenge**

## Medium Voltage & Low Voltage Switchgear





We aim to be the market leader and preferred supplier  
of the products we produce

## Service and Repairs

We provide full service and repair support for all of our products. In addition to regular repairs, our transformers service includes upgrades, retrofits, relocation and site erection.

Responding to an increasing demand for this service, Tanelec founded an independent transformer service shop to provide the required expertise and facilities for repairing distribution and small power transformers.

When maintained properly, transformers can be expected to perform for twenty years or longer, without repair. We can provide all the necessary service requirements and service relevant to your transformer and its application.

In-house factory repair services include:

- Tank, winding and Core replacement
- Tapchanger overhaul/replacement
- Transformer upgrading
- Transformer refurbishment

Field repair services include:

- Cooler equipment repair/replacement
- Cable box replacement
- Oil processing and replacement
- Tapping switch repairs/replacement
- Gasket replacement
- Transformer relocation
- Transformer up-rating
- Retrofits

Our strength lies in combining both basic local knowhow and the latest global technology to ensure excellent workmanship.



We aim to engage our clients by providing an effective after sales service manned by a team of trained expert engineers. Within this team, we have 24/7 dedicated On-load Tapchanger service engineers available to complete site work and maintenance tasks.

We offer spares for both modern and obsolete models of On-load Tapchangers and Off-Circuit Tapchangers manufactured to high quality standards and as per the original drawings, materials and tools. We also repair and refurbish old Tapchangers.

**Other Services**

- Maintenance training
- Routine and general maintenance
- Site visits to assess, inspect and provide a comprehensive report on Tapchangers.
- Emergency repairs and complete overhaul
- Retrofitting old Tapchangers with modern units.
- Site installation and commissioning
- Inspection and condition assessment
- Maintenance contracts
- Spare parts
- Oil sampling
- Consultancy advice

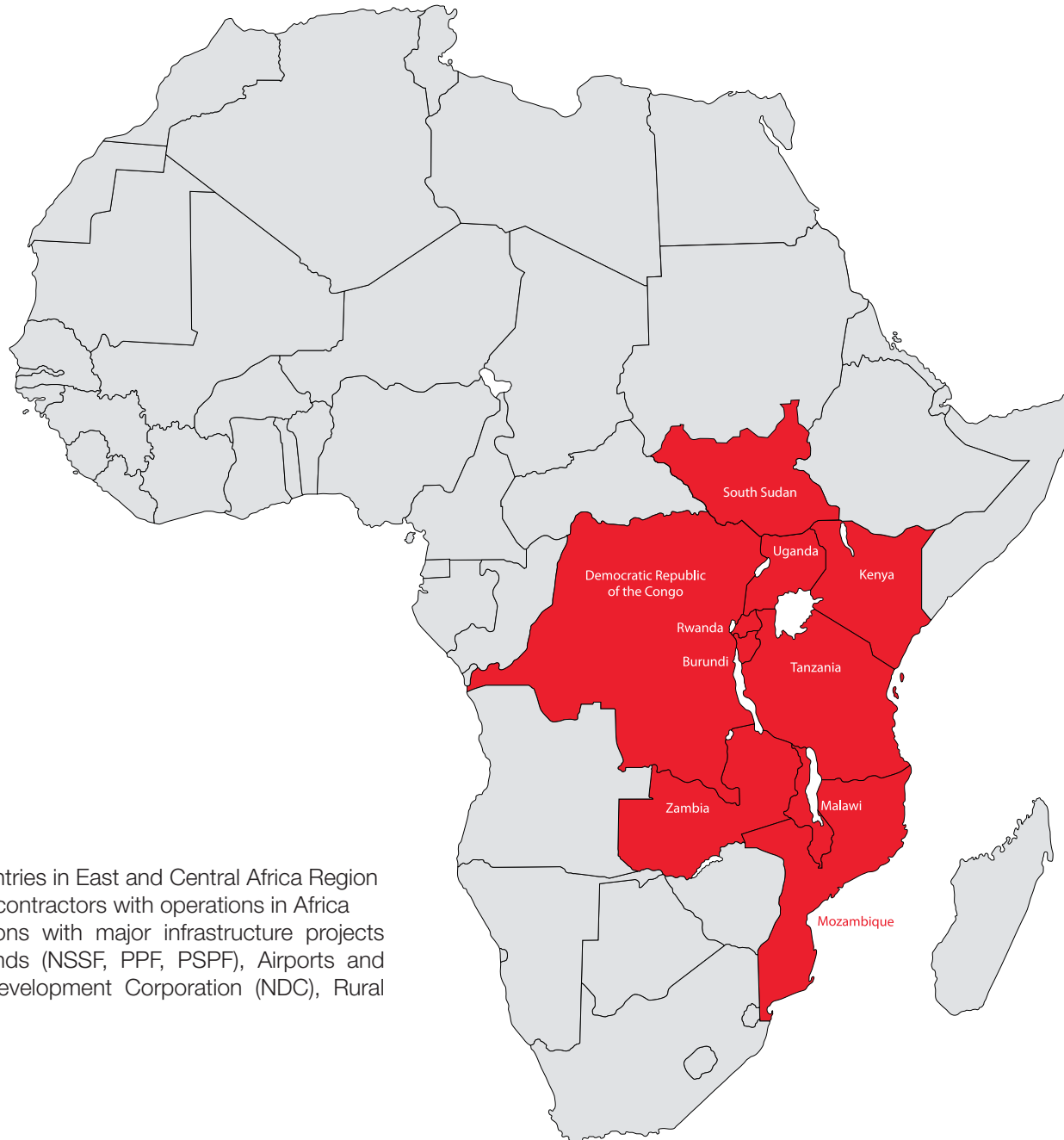
**Benefits**

- Cost effectiveness in repairing rather than buying new
- Economical use of inventory
- Shorter down time during repair
- Fully repaired transformers are as good as new



**OUR FUTURE:**  
 Our target is to increase production capacity and efficiency aimed at improving our competitiveness in an international market.





**Our Customers**

- Power Utilities in Over 10 countries in East and Central Africa Region
- Major Local and International contractors with operations in Africa
- Public and private corporations with major infrastructure projects such as: Social Security Funds (NSSF, PPF, PSPF), Airports and Ports authorities, National Development Corporation (NDC), Rural Electrification Authorities



Main Factory: Themi Industrial Area, P.O. Box 7156, Arusha, Tanzania • Tel: +255 27 2507892-4 / 2508027 / 2503950 • Fax: +255 27 2508212 / 2508725 • E-mail: [info@tanelec.co.tz](mailto:info@tanelec.co.tz)

Tanelec Kenya Limited: Addis Ababa Road, Industrial Area, Nairobi, Kenya

Tanelec Uganda Limited: Plot 30, Kibira Road Kampala, Uganda

Zambia Factory: Plot 748, President Avenue, P.O. Box 240078, Ndola, Zambia • Tel: +260 212 611353 • Fax: +260 212 611354 • Email: [info@tanelec.co.zm](mailto:info@tanelec.co.zm)

Website: [www.tanelec.co.tz](http://www.tanelec.co.tz)