



**TKEYGLOBAL**

DESIGN THE FUTURE



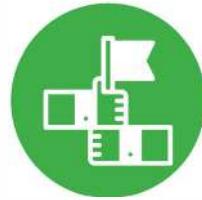
**TRANSFORMING YOUR ENERGY IN TO POWER**





## Our Vision

To become a leading brand that guides the industry with innovative minds, closely follows development processes, and symbolizes quality in energy and control technologies that will evolve in revolutionary dimensions



## Our Mission

To move society forward based on ethics, environmental and social responsibility; to design the future by taking responsibility in meeting the world's rapidly growing energy demands through innovative solutions and original ideas.

*backing your strength*



## Our Brand Strategy

To deliver the best and most up-to-date services using the latest technologies in the sector, aiming to provide flawless support in both high and medium voltage fields without compromising on quality.



## Our Brand Objective

To always provide excellent service and ensure uninterrupted access to electricity through the use of emerging technologies



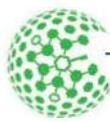
## Our Core Philosophy

Openness to innovation and continuous improvement is our fundamental principle, enabling us to respond effectively to changing customer needs.



## Why Choose Us?

The name "TKEY" (short for Transaction Key) emphasizes trust, traceability, and quality in all services we provide.



## What We Do

### 1) High Voltage Switchyard Testing, Maintenance and Repair Services

#### a) Power Transformer:

- i) Oil Change,
- ii) Treatment Service
- iii) Gasket Replacement,
- iv) Laboratory Analysis of Oil and Gas Samples

#### b) Distribution Transformer Testing, Maintenance and Repair Services

#### c) SWITCHYARD INSTALLATION AND ASSEMBLY SERVICES

#### d) Current Transformer Testing, Maintenance and Repair Services

#### e) Voltage Transformer Testing, Maintenance and Repair Services

#### f) Surge Arrester Testing, Maintenance and Repair Services

#### g) Circuit Breaker Testing, Maintenance and Repair Services

#### h) Disconnector Testing, Maintenance and Repair Services

#### i) Relay Testing and Stabilization Services

### 2) Medium Voltage Switchgear Testing, Maintenance and Repair Services

#### a) Current Transformer Testing, Maintenance and Repair Services

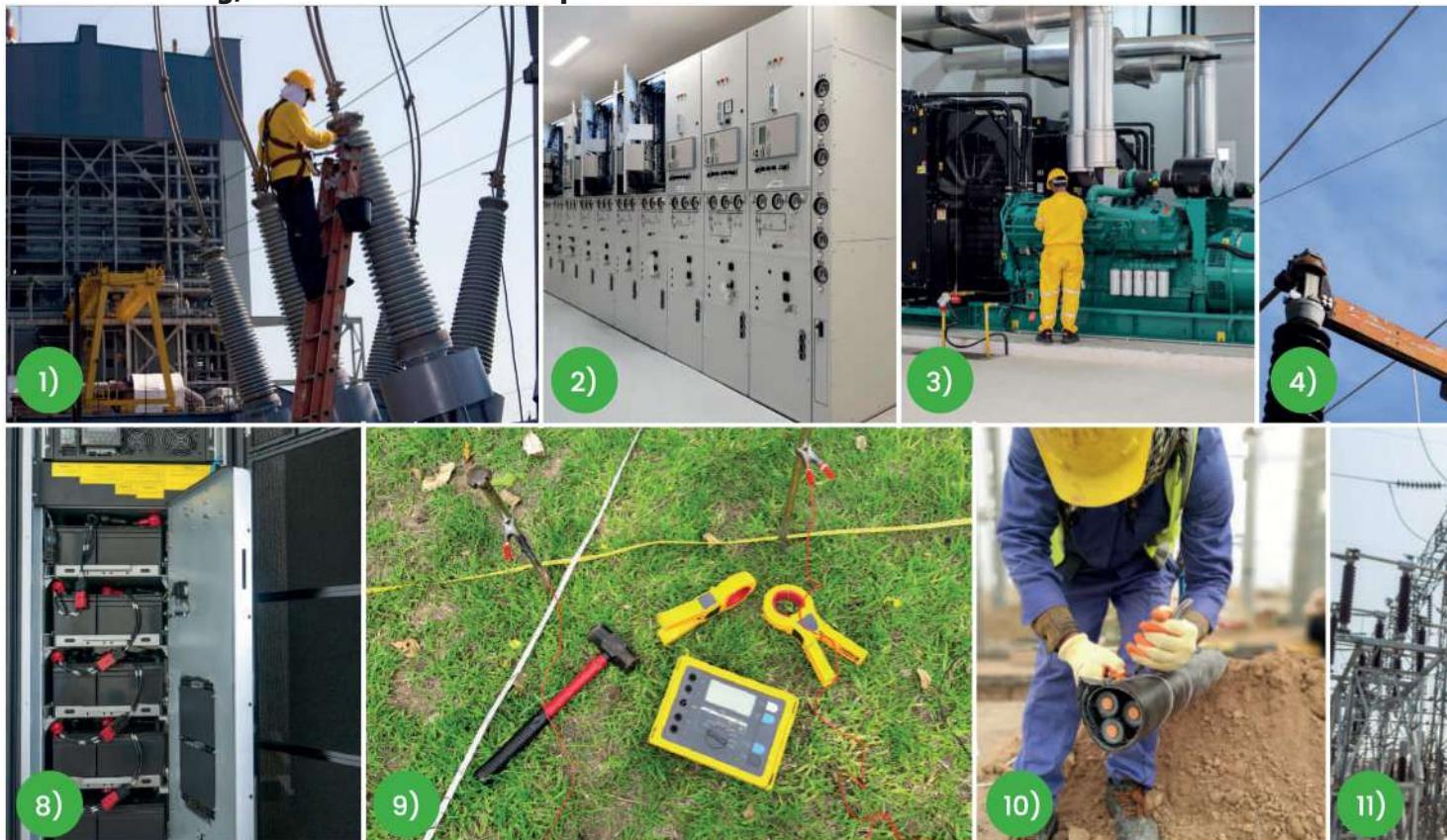
#### b) Voltage Transformer Testing, Maintenance and Repair Services

#### c) Circuit Breaker Testing, Maintenance and Repair Services

#### d) Surge Arrester Testing, Maintenance and Repair Services

#### e) Relay Testing and Stabilization Services

### 3) Generator Testing, Maintenance and Repair



# What We Do

## 4) Silicone Coating Services

- a) Medium Voltage Switchgear
- b) High Voltage Switchyard Components

## 5) High and Medium Voltage Equipment Supply Services

## 6) Supervision / Consultancy and Survey Project Services

## 7) Battery Testing, Commissioning, and Maintenance Service

## 8) Rectifier Testing, Commissioning, and Maintenance Service

## 9) Grounding System Testing, Commissioning, and Maintenance Service

## 10) Cable Testing and Commissioning

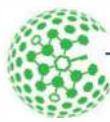
## 11) Thermal Imaging (Infrared Camera) Measurement Services

## 12) Workshop Maintenance Services

## 13) SCADA and Automation Systems Services

## 14) Compensation Testing, Maintenance and Repair Services





# The Importance of Maintenance for Efficient Use of Electrical Energy and Equipment

Maintenance is critical for ensuring the effective and efficient operation of electrical equipment. Planned maintenance strategies help businesses reduce energy costs, enhance safety, and sustain long-term system performance.



## Performance and Efficiency

Regular maintenance ensures equipment operates at optimal levels, preventing wear, efficiency loss, and excessive energy consumption.

## Safety

Maintenance ensures electrical equipment operates safely. Faults or wear in equipment can pose safety risks in electrical systems. Regular maintenance mitigates these risks, enhancing workplace safety levels.



## Lifespan Extension

Maintenance prolongs equipment lifespan, reducing costs and maximizing usability.

## Preventing Sudden Failures

Routine maintenance reduces the likelihood of unexpected breakdowns. Sudden failures can severely impact business continuity and incur additional repair costs. Planned maintenance helps detect and prevent such issues in advance.



## Energy Savings

Maintenance optimizes energy consumption, saving costs. Clean, well-organized, and properly functioning equipment consumes less energy. Improving energy efficiency through maintenance can lower operational costs.

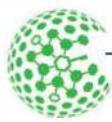


Professional Maintenance Services  
for Electrical Equipment

# Stay Safe!

To maintain uninterrupted autorestrictor, electrical power transformers, **Distribution transformers, circuit breakers, and disconnectors**, For ensuring the safety of electrical equipment. **Surge Arresters, Current Transformers, and Relays.**

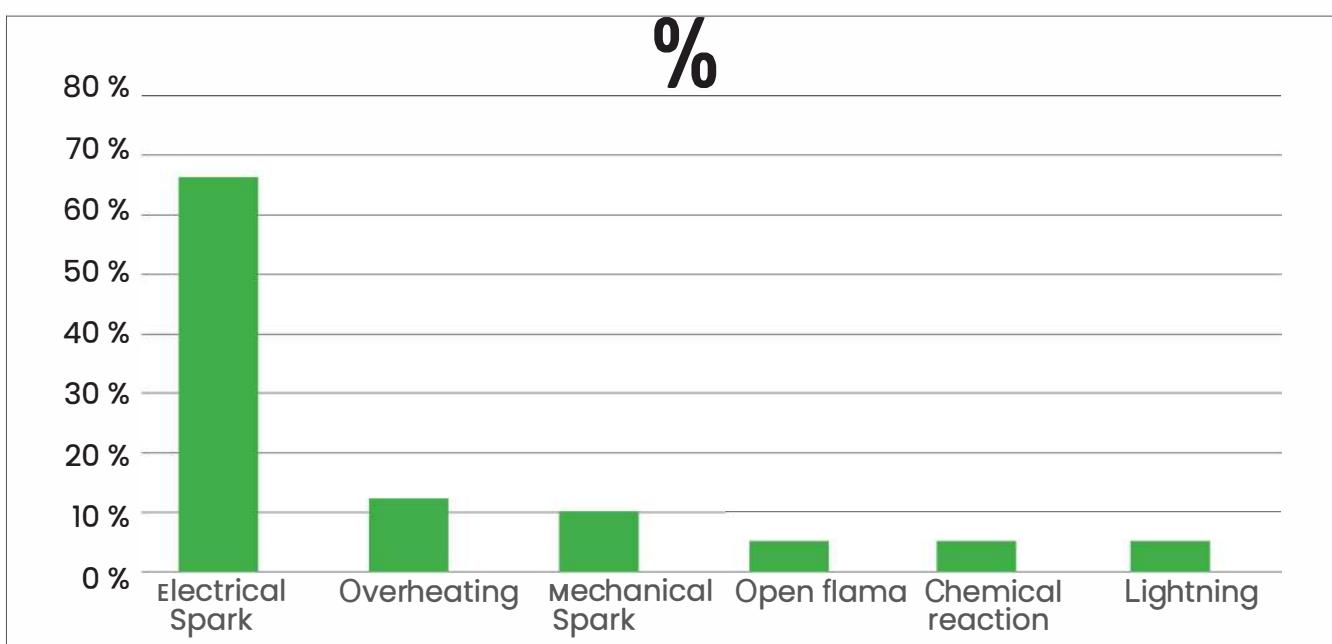
As Tkey GLOBAL, we maintain and repair this equipment and provide stabilizations so that our valued customers can have uninterrupted and safe electrical power.



## What is Silicone Coating?



In high voltage equipment, insulation deteriorations occur over time due to factors such as aging of materials, exposure to high humidity, temperature, and environmental conditions. These deteriorations increase exponentially with network surges or system discharges, and this increase makes fires and explosions inevitable. Such explosions lead to loss of life and economic damage. They can cause prolonged shutdowns in the system. In Turkey, 67% of fires and explosions have been caused by electrical faults.

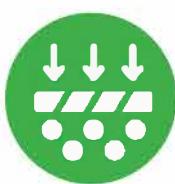


## Benefits of Silicone Coating

Due to the increasing prices of electrical equipment and the importance of energy continuity, many institutions have resorted to serious maintenance and preventive measures to protect their existing equipment. Silicone coating has become one of the most important preventive actions against insulation-related faults that may occur in medium and high voltage equipment.

**The advantages of silicone coating can be listed as follows.**

- Fast adhesion
- Smooth Surface Quality
- Maintenance-free property
- Almost complete suppression of leakage current
- Environmentally friendly
- It is the most economical way to reduce flashover.



### Protection and Insulation

Silicone coating protects the electrical components inside medium voltage switchgear against environmental factors such as moisture, dust, and chemicals. Additionally, the coating prevents hazardous situations related to high voltage and insulates the internal components of the switchgear from external conditions. This increases the durability of the switchgear and helps it comply with safety standards.



### Resistance to Air, Moisture, and Chemicals

Silicone coating is resistant to external factors and provides protection especially against moisture, corrosive chemicals, and atmospheric conditions. This contributes to the long lifespan of the switchgear and reduces maintenance requirements.



### High Temperature Resistance

Silicone material has high temperature resistance. Silicone coatings used in medium voltage switchgear can maintain their performance even under high temperature conditions. This feature enhances the reliability of the switchgear.



### Electrical Insulation

ChatGPT:

Silicone coatings generally possess electrical insulation properties. This provides safe electrical insulation between the components inside the switchgear and against external elements.



### Long Lifespan and Durability

Silicone coatings are long-lasting and known for their durability under various environmental conditions. This feature reduces the maintenance requirements of medium voltage switchgear and increases the overall system reliability.

For these reasons, silicone coatings are frequently preferred in medium voltage switchgear and high voltage installations. These coatings contribute to the reliable and durable operation of the switchgear, thereby increasing the reliability of energy distribution systems.

## Testing and Commissioning

Tkey GLOBAL provides reliable, high-quality, and professional solutions to our clients with a team specialized in high voltage and medium voltage testing and commissioning services in the electrical sector.

We support our clients who are sensitive about the safety and performance of electrical infrastructure by offering solutions through our extensive experience and expert staff. In compliance with safety standards, we conduct tests on high and medium voltage systems safely using our state-of-the-art equipment and experienced personnel.

At every stage of the testing and commissioning processes, we carry out on-site inspections and provide our clients with detailed reports. These reports offer critical information to assess the condition of the system and determine necessary improvements, ensuring timely action is taken to prevent major failures.

With our expert team specializing in electrical infrastructure safety, we continue to support our clients' success by contributing to their access to clean and uninterrupted electrical energy.

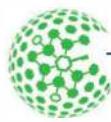




# Journey to High Safety and Quality Standards



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## Laboratory

As Tkey GLOBAL, we provide laboratory services in accordance with IEC, ASTM, and ISO standards to help our valued customers optimize the maintenance and performance of transformers, which are among the critical components of industrial facilities and power networks.

The insulating oils used in high voltage equipment such as transformers, reactors, and voltage regulators may deteriorate or age due to various reasons. These deteriorations may be at an early stage and can be identified through scientific methods to determine their severity. Necessary precautions can be taken in a timely manner before serious failures occur in the transformer or equipment. In this way, economic and time losses are minimized.

By applying physical, chemical, and electrical tests on the oils, the level of contamination and aging is measured. At the same time, developing transformer faults can be monitored safely through the dissolved gas analysis (DGA) method in oil.

By presenting the analysis results in comprehensive reports, we aim to provide you with clear insights into the condition of your transformers and offer recommended actions to enhance the safety of your systems. By delivering critical information, we help improve the reliability and efficiency of both your operations and your electrical systems.



*We provide you with critical information to help improve the reliability and efficiency of your electrical systems.*



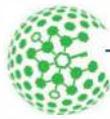
## Material Supply

We are pleased to offer the materials that meet your needs with 24/7 service availability. To fulfill your urgent material demands, we instantly respond with our in-stock MV switchgear, transformers, and electrical materials, preventing losses that may occur due to energy outages.

If requested, our expert personnel can perform testing and commissioning on the same day, providing uninterrupted energy to you, our valued customers. We have professional consultants available to support you at every stage of projects designed to meet your needs.

By offering a comprehensive product portfolio for high voltage and medium voltage equipment, we provide top-level service. We also offer custom production solutions upon request, providing flexibility to meet the specific requirements of our customers.





## Modernization Services

As Tkey GLOBAL, we develop solutions using the latest technologies to meet the needs of our valued customers and to enhance the efficiency of electrical systems while ensuring their safety. Thanks to our expert team and the quality services we provide, we successfully manage modernization projects for our valued customers.

We are pleased to assist you with technology upgrades through comprehensive modernization projects aimed at replacing outdated or insufficient electrical infrastructure with modern, reliable, and efficient equipment.

To modernize aging or maintenance-dependent equipment, we offer not only professional project management but also consultancy services, ensuring that projects are completed on time and within budget. With our expert team in the electrical sector, we identify the specific needs of our valued customers.



## Third-Party Inspection Services

As Tkey GLOBAL, we are pleased to provide third-party inspection services to ensure that the goods and services you receive in high and medium voltage fields are not delivered to you in a manner that does not comply with the required standards.

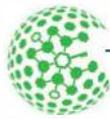
We carry out inspections in accordance with the standards requested by our valued customers and provide reports to verify the quality of the work and its compliance with the project.

To eliminate potential problems that may arise after the systems are commissioned, we intervene in a timely manner during the project or installation phase with our expert personnel, preventing future issues on your behalf.

We manage the conformity assessment processes of products and systems and inform you about obtaining the necessary international or local certifications. We provide consultancy services and manage electrical infrastructure projects from beginning to end.



Regular inspection and examination of high voltage and medium voltage equipment, installations, and systems. Verification of compliance with safety standards and providing improvement recommendations if necessary.



## Energy Storage Systems

With our expert team in the integration and installation of energy storage systems, we design and implement the required projects, shaping the future.

As Tkey GLOBAL, we offer innovative and sustainable energy storage solutions in the energy sector to our valued customers. We ensure that our customers can store the electricity they obtain from renewable energy sources and use it effectively. We increase energy efficiency and ensure that systems provide uninterrupted power.

We offer lithium-ion battery systems for storing electricity obtained from renewable energy sources or the grid. We can increase the capacity of your existing systems. With smart energy storage systems, we optimize energy usage and help our customers save on energy costs.





# *End-to-End Robust Solutions in Power Infrastructure*

## **Substation and Transmission Line Installation**

TKey Global specializes in substation installation, managing engineering, procurement, installation, and commissioning with on-site experience. For transmission lines, we deliver practical field execution including pole erection, conductor stringing, grounding, and testing.

### **Scope of Services:**

- Substation Construction (Design, Installation, Commissioning)
- Transformer, Busbar, Breaker and Relay System Integration
- Transmission Line Installation
- Grounding, Testing and Commissioning

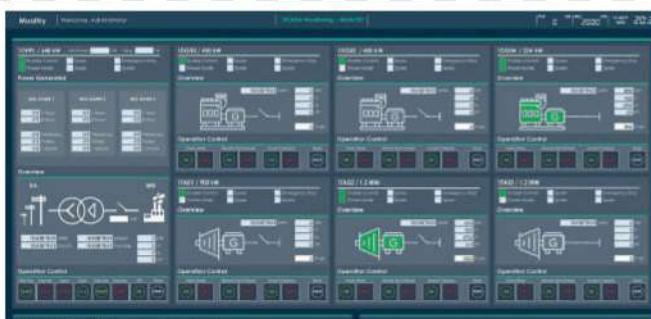


## SCADA

SCADA systems, one of the indispensable elements of industrial automation, help businesses optimize their production processes, increase efficiency, and achieve operational excellence.

As Tkey GLOBAL, we design SCADA systems tailored to your needs with our expert team. By enabling the control and monitoring of your relays from a single central point, we enhance your safety and efficiency.

We offer integration services for your existing systems and ensure that they consistently operate at optimal performance through our regular maintenance services.



# Our Business Areas

Manufacturing Facilities

Renewable Energy

Power Plants

Shopping Malls & Airports

Commercial & Living Spaces

Commercial & Living Spaces

Oil & Gas & Petrochemical Facilities



**Reliable Solutions,  
Strong Steps in  
High Voltage!**



“ If a man is called to be a street sweeper,  
he should sweep streets even as  
Michelangelo painted pictures, sweep streets  
like Beethoven composed music, sweep streets  
like Leontyne Price sang before the Metropolitan  
Opera, sweep streets like Shakespeare  
wrote poetry.

Sweep streets so well that all the hosts of heaven  
and earth will pause and say:  
**“Here lived a great street sweeper  
who swept his job well.”**

*Martin Luther King Jr.*



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