



COMPANY PROFILE

Power substation services, engineered to perform.

Installation, testing, commissioning and maintenance of power transformers, GIS, switchgear and power cables — on site, to standard, fully documented.

Installation

Testing

Commissioning

Maintenance

Who we are

ENEREX is a Saudi power-services company focused on one thing: keeping substations safe, reliable and energised.

We install, test, commission and maintain the equipment that moves power across the grid — power transformers, gas-insulated switchgear (GIS), MV / HV switchgear and power cables.

Our engineers work to international test standards and manufacturer procedures, document every result, and hand over assets with clear, decision-ready reports. All testing is carried out on site, where the equipment actually lives.



Installation

Erection and mechanical completion



Testing

On-site diagnostic and acceptance tests



Commissioning

Safe, verified energisation



Maintenance

Preventive to corrective



Our vision

To be the Kingdom's most trusted partner for substation testing, commissioning and maintenance — known for technical precision and uncompromising safety.

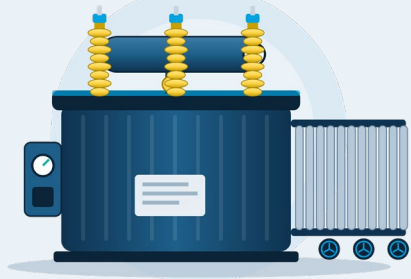


Our mission

To protect clients' critical assets through accurate testing, dependable maintenance and honest reporting — while developing Saudi engineering talent.

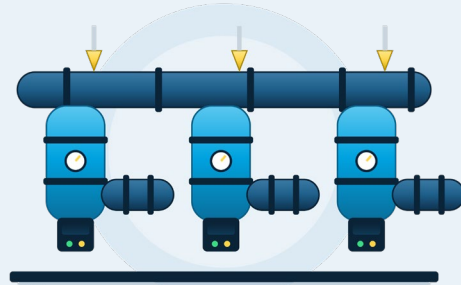
What we cover

Four equipment families at the heart of every substation — supported across their full life.



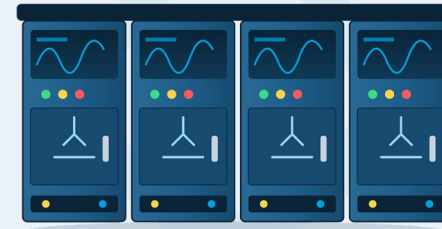
● Power transformers

Erection, oil processing, electrical testing and overhaul.



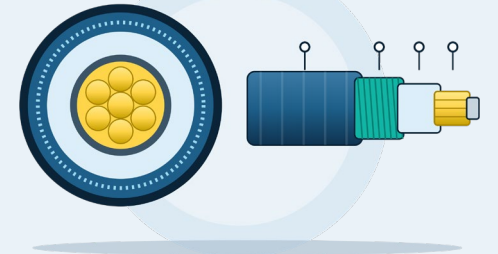
● Gas-insulated switchgear

SF6 handling, on-site high-voltage and diagnostic testing.



● MV / HV switchgear

Breakers, panels and protection — tested and maintained.



● Power cables

Laying, jointing, VLF / tan δ testing and fault location.

Power transformers

From erection and oil filling to full electrical acceptance tests on site, we keep power transformers healthy for the long term.



On-site service

Installation

- Erection, assembly & oil filling
- Vacuum drying and oil processing
- Bushing, tap-changer & accessory fitting
- Cooling, protection & control wiring
- Pre-energisation inspection

Testing & commissioning

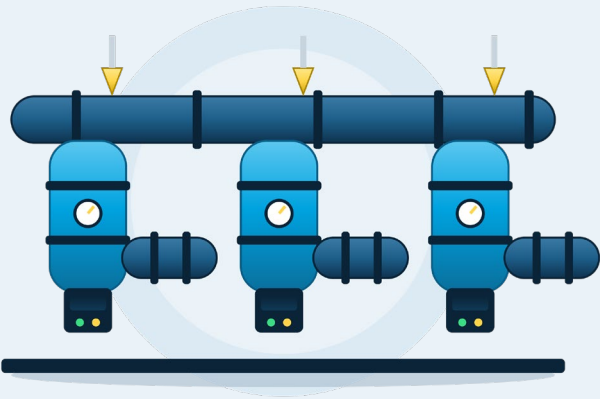
- Turns ratio, polarity & vector group
- Winding resistance (incl. OLTC)
- Insulation resistance, PI & tan δ
- SFRA, excitation current & impedance
- Oil BDV, moisture, DGA & furan

Maintenance & repair

- Annual & periodic maintenance
- Major overhauling & leak repair
- Oil filtration & regeneration
- OLTC & cooling-system service
- Condition & life assessment

Gas-insulated switchgear (GIS)

Compact, sealed and unforgiving of mistakes — GIS demands clean assembly, correct gas handling and careful verification.



On-site service

Installation

- Bay assembly & module jointing
- SF6 evacuation, filling & handling
- Busduct & cable-termination connection
- Control, interlock & mechanism setup
- Alignment, torque & seal checks

Testing & commissioning

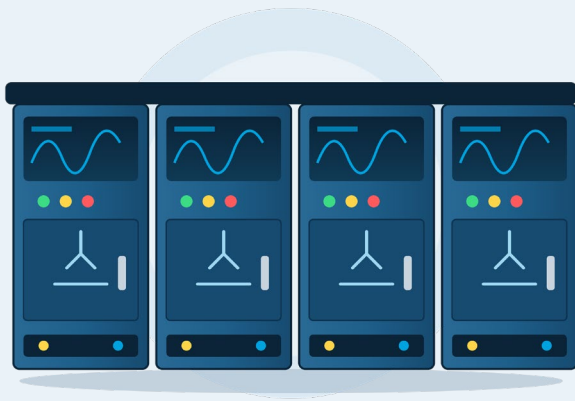
- SF6 purity, moisture & decomposition
- Gas-leak & density-relay checks
- Main-circuit & contact resistance
- AC withstand & partial-discharge tests
- Breaker timing, interlock & CT / VT

Maintenance & repair

- Scheduled mechanism maintenance
- SF6 gas management & top-up
- Gas-compartment leak repair
- Breaker & disconnector overhaul
- Diagnostic condition surveys

MV / HV switchgear

Breakers, busbars and panels that must operate on demand. We prove every function before energisation and keep it that way.



On-site service

Installation

- Panel erection & busbar jointing
- Circuit-breaker & truck installation
- CT / VT & protection-panel mounting
- Control cabling & terminations
- Earthing connection & punch-listing

Testing & commissioning

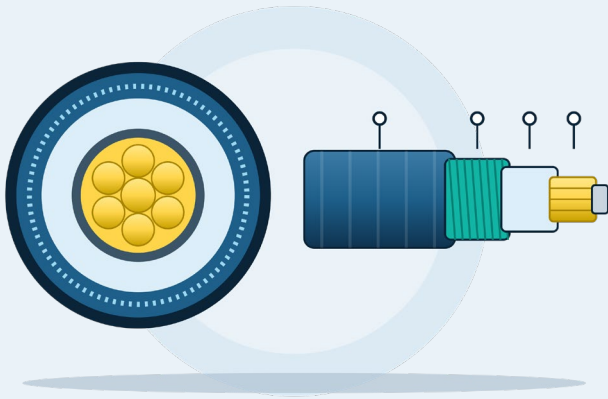
- Contact & insulation resistance
- AC / DC high-voltage withstand
- Breaker timing, travel & coil tests
- Vacuum-interrupter integrity checks
- Relay primary & secondary injection

Maintenance & repair

- Preventive maintenance programmes
- Breaker overhaul & lubrication
- Contact cleaning, torque & alignment
- Trip-circuit & relay verification
- Thermography & outage support

Power cables

The hidden half of the network. Correct jointing and proven diagnostics are what keep cable circuits in service.



On-site service

Installation

- Cable laying, pulling & routing
- MV / HV termination & jointing
- Sheath & cross-bonding links
- Support, cleating & identification
- Earthing, bonding & as-built records

Testing & commissioning

- Insulation resistance & continuity
- VLF (0.1 Hz) withstand testing
- Tan δ & partial-discharge diagnostics
- Sheath integrity & phasing-out
- Fault pre-location & pinpointing

Maintenance & repair

- Fault location, repair & re-jointing
- Termination & joint replacement
- Periodic diagnostic testing
- Thermographic termination checks
- Emergency restoration support

Beyond the primary equipment

The supporting systems that make a substation work as one.



Protection & control

Relay testing, settings verification, trip and interlock checks, SCADA / IEC 61850 signal tests.



Instrument transformers

CT and VT ratio, polarity, burden and insulation testing, plus metering verification.



Earthing & bonding

Earth-resistance, step-and-touch and continuity measurements of grounding systems.



Oil & SF6 services

Sampling, BDV, moisture, DGA and furan analysis; SF6 quality testing and handling.



Thermography & diagnostics

Infrared surveys and condition-based assessment of ageing assets.



Emergency & shutdown support

Rapid mobilisation for breakdowns, outage windows and urgent energisation deadlines.

How we work

A disciplined four-step method on every job.

1

Plan

Scope review, method statements, test plans and safety permits agreed up front.

2

Execute

Qualified engineers, calibrated instruments and strict permit-to-work discipline.

3

Verify

Results checked against standards and manufacturer limits; anomalies flagged immediately.

4

Report

Clear, traceable test reports and handover files, ready for client sign-off.



Permit-to-work on every task



Lock-out / tag-out and safe isolation



Risk assessment and PPE discipline

Safety first — no task is worth an injury.

Why ENEREX



01

Focused specialism

A dedicated substation practice — transformers, GIS, switchgear and cables.



02

Standards-based testing

Procedures aligned with IEC / IEEE practice and manufacturer requirements.



03

Complete documentation

Traceable, structured reports that asset owners can act on.



04

Safety & quality discipline

Risk assessment, permit-to-work and lock-out on every job.



05

One partner, full lifecycle

Installation to maintenance under one accountable team.



06

Saudi-first capability

Active graduate development and a local-content growth plan.



LET'S POWER WHAT'S NEXT

Talk to ENEREX.



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LOCATION

Jeddah, Saudi Arabia



COMMERCIAL REGISTRATION

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