



شركة حلول الخليج المحدودة  
**GULF SOLUTIONS COMPANY**

Electrical, Mechanical & Industrial Services



TESTING  
& COMMISSIONING



OPERATION  
& MAINTENANCE



INSTALLATION  
& ERECTION



SUBSTATION AUTOMATION  
(IEC61850)



REPAIR &  
RETROFITTING



## ABOUT US

GULF SOLUTIONS is a leading & reliable Electrical, Mechanical & Industrial services provider Company and have been operating in the Kingdom of Saudi Arabia & Middle East.

We specialize in Engineering & Consultancy, Installation & modifications, Testing & commissioning, Plant Maintenance and Turn arounds, Retrofitting & Repair, Power system Automation & Energy Management system, Transformer & Power factor Correction, Power system studies & Technical trainings, etc.

Our solutions facilitate enhancement of efficiency & productivity, improves cost and downtime. Our crew is extremely technical and have enough experience to deliver excellent quality with a competitive pricing. Our ability to retain clients and acquire new business opportunities has been our core strength.

# Our Core Values



## Customer Focus

**Make a difference every day:**

We constantly push ourselves to be our best, we focus on solutions, and we arrive every day inspired to make an impact through our talents, passion and hard work

## A Will to Win

we exhibit a strong will to win in the marketplace and in every aspect of our business



## Win-Win Partnerships

We view our trade partners as allies in serving our stakeholders. We treat them with respect, fairness and integrity – expecting the same in return

## Teamwork

we work together, across boundaries, to meet the needs of our customers and to help our Company win.



## Respect

We value our people, encourage their development and reward their performance

# OUR SERVICES



**INSTALLATION, ERECTION AND  
START-UP SERVICES**



**TESTING & COMMISSIONING  
SERVICES**



**SUBSTATION AUTOMATION**



**ENERGY MANAGEMENT  
SYSTEM**



**POWER FACTOR CORRECTION SOLUTIONS**



**OPERATION & MAINTENANCE**



**RETROFITTING**



**POWER SYSTEM STUDIES**



**TECHNICAL TRAINING**



**TRANSFORMER SERVICES**



## INSTALLATION, ERECTION AND START-UP SERVICES

“ Our installation and start-up services get you up and online, while keeping you on schedule”

Services provided under our installation and Erection packages include:

- › Substation installation up to 380 KV including GIS, AIS etc.
- › Installation Supervision.
- › Installation of Transformers
- › Installation of Switchgear, MCCs, RMUs etc
- › Demolishing & Modification Works
- › Installation of Grounding System.
- › Installation of Low/Medium Voltage cables
- › Installation of cable trays & ladders, bus ways & bus duct, conduits, etc.

## TESTING & COMMISSIONING SERVICES

Gulf Solution offers professional expertise in Testing & commissioning services of electrical power systems up to 380kV.

Services provided under Testing and Commissioning includes:

- Testing outdoor (AIS) & Indoor (GIS)
- Testing & commissioning of Complete substation protection & Control Scheme.
- Testing of LV/MV switchgears, RMU, MCCs.
- Testing of LV switch racks, Distribution boards etc.
- System testing of High & low Impedance Bus bar system
- Line end to end & relay testing
- Testing, Commissioning, Programming and Configuration of all types and makes of relays (ABB, SIEMENS, Alstom, SCHNEIDER, SEL, GE etc.)
- Station grounding system test.



# SUBSTATION AUTOMATION

Gulf Solutions is qualified to offer full scope of Supply, Engineering, HMI development, Installation & Commissioning of IEC61850 based Substation Automation Solution.

Services provided under Substation Automation include:

- ▶ Expertise on COPADATA ZENON & SURVALENT.
- ▶ Modification & upgrade of existing SAS Systems.
- ▶ Integration of IED's of all types and Brands Including CID files.
- ▶ Integration of non-IEC61850 devices with SAS.
- ▶ Modbus, DNP3 & other legacy protocols
- ▶ Password Management & Cyber security Solutions
- ▶ Ethernet switches, gateways, servers, modems etc.
- ▶ HMI Graphics, Alarms, Event & Interlocking
- ▶ System Redundancy, Historical Reports, Annunciator, Alarms and Events.



## ENERGY MANAGEMENT SYSTEM

Our energy management will provide you actionable insight on how power is been efficiently utilized in your power consuming industry.

**Services provided under Energy Management System include:**

- ▶ lump sum turnkey solution for EMS
- ▶ Production Energy Monitoring Solutions
- ▶ Generation Dispatch and Control
- ▶ Real-time SCADA Applications
- ▶ Energy Meter System Design, Installation & Service
- ▶ Energy Scheduling and Accounting
- ▶ Energy Benchmarking





## POWER FACTOR CORRECTION SOLUTIONS:

Improvement of power factor will reduce costly penalties, decrease the load, and improve the quality of power for your system. We offer a complete package of Design, manufacture, supply, installation and commissioning of Power Factor Corrections panels for your industry.

**Services provided under our Power Factor Correction solutions include:**

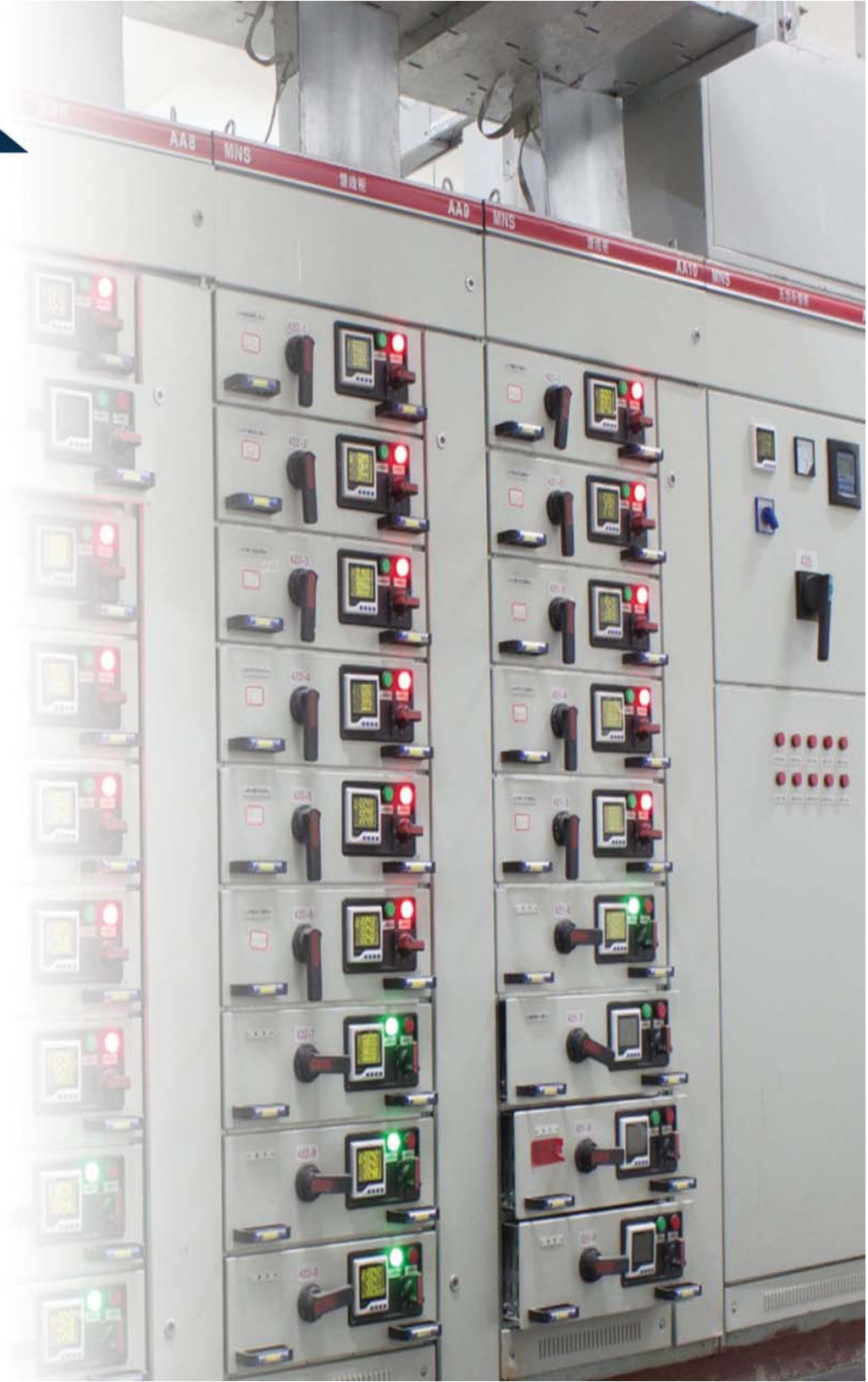
- ▶ Power factor Calculation Studies.
- ▶ Fixed Low Voltage compensation.
- ▶ Automatic Switched Low Voltage compensation.
- ▶ Fixed Medium Voltage compensation.
- ▶ Automatic Switched Medium Voltage.
- ▶ LV and MV Harmonic Filters compensation.

## OPERATION AND MAINTENANCE

"Gulf Solutions provides comprehensive operation & maintenance services to suit the electrical infrastructure of your industry".

Services provided under our Operation & Maintenance packages include:

- Complete Health Check Up and Maintenance Electrical equipment
- Round the clock deputation of Engineer/Technicians.
- Early restoration of system after breakdown
- Periodic checks and general maintenance.
- Annual maintenance and annual rate contract.
- 24 x 7 Trouble Shooting services.



## RETROFITTING

When it is time to upgrade or replace aging equipment, Gulf Solutions help you sustain your existing line-up by upgrading active components matching current technologies.

**Services provided under Retrofitting include:**

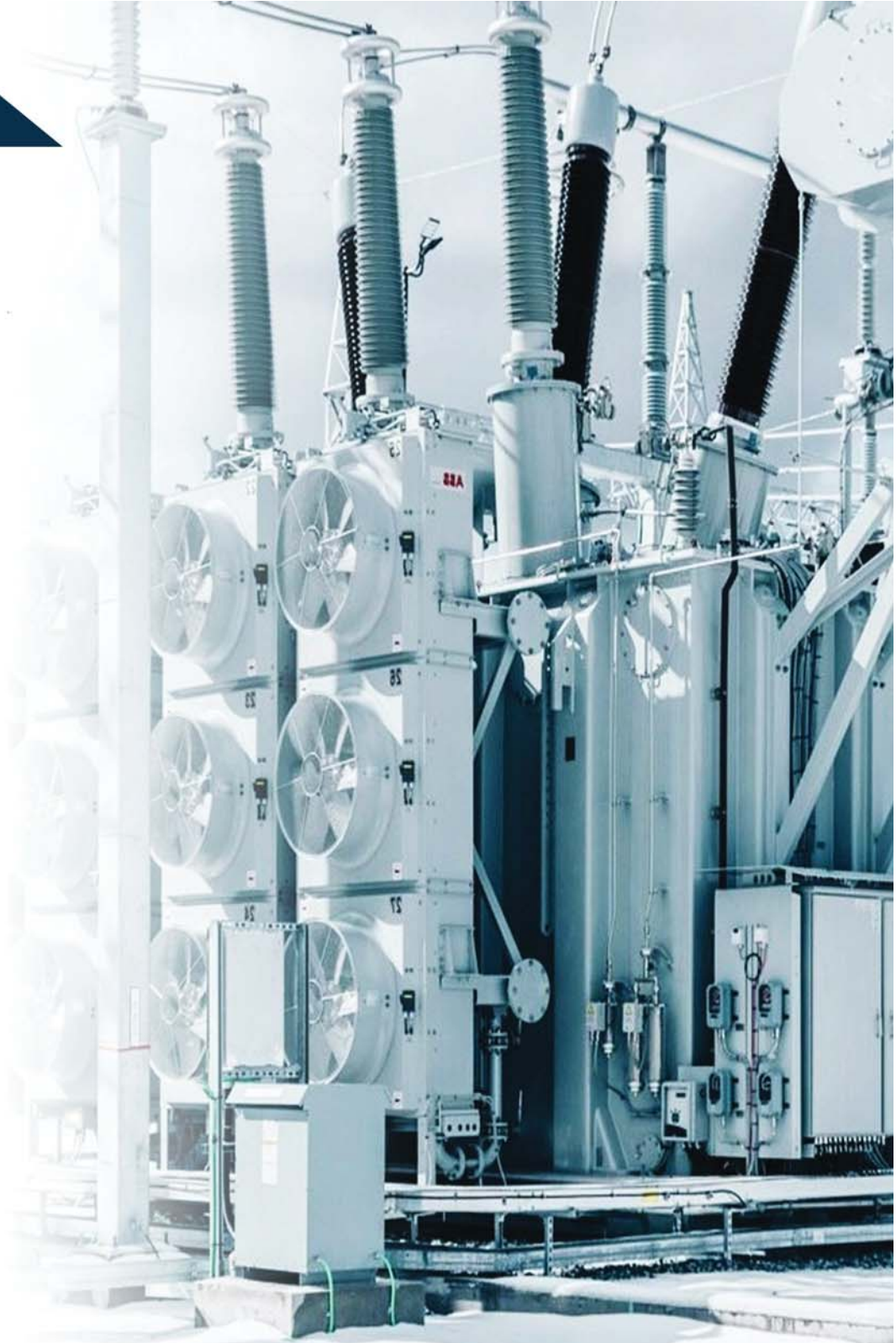
- › Replacement of Obsolete Protection Relays with New Numerical Relays.
- › Manufacturing of Bulbavr Parts, Droppers, and Risers.
- › Replacement of Old Breakers with New Breakers.
- › Replacement of CT's and other components etc.
- › Supplying spare parts of obsolete circuit breaker.

## TRANSFORMER SERVICES

Gulf Solutions offers oil treatment, on site repair, complete overhauling and on site testing services for power & distribution transformers.

### Services provided under Transformer include:

- Mechanical Check and visual inspection.
- On Site Transformer Oil Filtration.
- Complete Transformer Repair, Overhauling Services.
- Gasket & Bushing replacement.
- Onsite Leakage repair
- Maintenance and repair Services for On-Load Tap changer.
- Complete transformer testing.



## TECHNICAL TRAINING

Managed by a team of professional training experts, Gulf Solutions provides specialized On-Site and classroom technical training programs.

**Services provided under Technical Trainings include:**

- Power System Protection and Control
- Substation automation system (IEC61850)
- Other tailor made trainings from the area we serve in

## POWER SYSTEM STUDIES

We offer full range of power systems studies to utilities and Industries covering new and expansion projects.

**Services provided under Power System Studies include:**

- Power factor improvement studies.
- Relay co-ordination studies.
- Arc flash Analysis.
- Verification of various protective relaying schemes for sensitivity and stability.
- Power System Analysis Studies.
- Short Circuit Analysis Studies.
- Load Flow studies.
- Harmonic Analysis.
- Transient stability Analysis Studies





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