

The background of the page is a photograph of industrial machinery, likely a water treatment plant, featuring large white cylindrical tanks and pipes. A semi-transparent blue geometric shape is overlaid on the left side of the image.

# PROFILE

[www.acume.ae](http://www.acume.ae)

# ACUME

## FOLKLORE

Acume is named after the word acumen meaning 'the ability to make good judgements and take quick decisions'. History and etymology of the same has its root to the Latin word acūmen.

## STORY

Our story began in 2013, Back then we were a company providing manpower services front and centered to testing and commissioning. Today, we are privileged to say that we have extended our range of services from manpower to turnkey projects; registering Acume as a key subcontracting company in Energy, Power, and Oil & Gas sectors.

## BEING A RESPONSIBLE COMPANY

At ACUME, we have always believed in the importance of building a great, enduring organisation that strikes a balance between profitability and customer satisfaction.

Our clearer strategies having better business model. We believe that client services go deeper than managing our operations and processes to better handling of criticality. We value our responsibility as a dedicated partner is to take a problem-solving focus. This is to create the optimized services to make surewhile meeting our client's needs. Our services involve a detailed approach for inspection and evaluation to identify the problems specifically to a given facility and its sector.

Our support and maintenance programs dedicated to keep records of technical assessments that reduce time to understand client's facilities to recover and optimize the performance by extending the life cycle. To address the ever-changing needs of our customers, we are constantly striving to recommend technological advancements and improvements.

As it has been from the beginning, our purpose is to believe in the pursuit of quality of work and customer satisfaction.

**SURESH RAGHUNATHAN**

**MANAGING DIRECTOR**

# SERVICES & SECTORS

Acume offers a range of services in Energy, Power, Oil & Gas and Infrastructure sectors as per the client's requirement:.

## **Installation Services**

## **Testing & Commissioning Works**

## **Protection Coordination (ProC) Study**

## **Oil Filtration/Regeneration Works**

## **Maintenance and Repair Works**

## **Annual Maintenance Services**

## **Workforce Outsourcing Services**

## **Testing Equipment Rental Services**

## POWER

Acume has experience in all types of electrical power system of an electrical substation.



## OIL & GAS

Acume conducts inspection and maintenance and analysis on integrated electrical components.



## INFRASTRUCTURE

Acume offers electrical engineering services to various industrial and commercial facilities.



## MISSION

To deliver reliable and high-quality electrical engineering services, all of which makes us the preferred partner of choice for power, utility and infrastructure projects in UAE by keeping our acumen ahead.

## OUR PARTNERS & CLIENTS

We offer the finest service in UAE. We believe in treating our partners & clients with respect and dignity. We are proud to say that we have collaborated in several projects with our partners and clients, providing them with expected and satisfied output.

# SUBSTATION INSTALLATION

Complete power system installation services for Gas Insulated Substations having capacity from 11 kV to 400 kV with conformity on specifications to meet its design and operation standards.

## GAS INSULATED SWITCHGEARS INSTALLATION

Complete erection of GIS bays with LCC, Cable Tray installation, LV cabling laying between GIS & LCC, cable dressing, glanding & termination on both ends and all associated works including earthing.

**Transformer Bays | Line Feeder Bays | Bus Coupler Bays | Local Control Cubicle Panels**

## TRANSFORMERS & REACTORS INSTALLATION

Complete erection of transformers and accessories with necessary arrangement required for lifting/ shifting with categories of competent workers as per utility requirement with necessary tools/tackles.

**ICT Power Transformers | IDT Power Transformers | IBT Power Transformers | HVDT Power Transformers | Auxiliary/Earthing Transformers | Neutral Earthing Transformers | Neutral Earthing Switchgear | Shunt Reactor Installation**

## MV & LV SWITCHGEARS INSTALLATION

Complete erection of MV & LV Switchgear with all the associated works including bus bar installation, inter-panel wiring, bus riser panel, bus VT panels etc.:

**33kV GIS/AIS Switchgears Bays | 11kV GIS/AIS Switchgears Bays | Related Bus Riser panels, Bus section, VT, Bus duct panels. | Busduct Installation**

## CAPACITOR & BATTERY BANK INSTALLATION

Capacitor banks with damping reactors, surge arrestors, neutral CTs, Interconnection of Devices and Door Interlock with supply and fixing of JB with all associated works including steel structure earthing works.

**Capacitor Banks with Damping Reactor and Complete accessories | Electrical Door Interlock System | Main & Standby Battery Bank with Fuse Box**

*Our installation team is well trained to use various forms and templates of OHS, QMS and project management system efficiently.*

We provide a complete installation services from HV Transformers, HV & LV Switchgear, HV & LV panels, HV & LV cables, Switch rooms, and Distribution circuits for a fully fledged electrical substations. We are well equipped to offer project and site management services to complete monitoring and control from the start to handover of the project. Our site managers demonstrate good leadership with thorough understanding of time, cost, quality and responsibilities in the substation installation projects.



### PANELS INSTALLATION

Complete erection of cubicles and related supports installation works for all panel boards like:

**Relay Panels | HV & LV Switchgear Panels | LVAC Panel Boards | Heating & Lighting Distribution Boards | HVAC Distribution Boards | Telecommunication Equipment | DC System - Battery Charger Panels | Installation of Fault Recorder Panel including antenna cable laying and installation**

### CABLES LAYING & TERMINATION

Complete set of Power and Control cables laying and dressing between Substation Electrical Equipment including cable supports, cable tag fixing, Feruling, Spare core end cap fixing, etc. as per the Cable Schedule provided:

**132kV Cables Laying | 33/11kV Cable Laying & Termination | Complete set of LV Power and Control Cables Laying & Termination | Cable Link Box Installation**

### EARTHING & LIGHTNING SYSTEM

Complete earthing as per utility specification and drawings provided:

**Underground/Buried earthing grid works with earth risers | Earth pit installation | Earthing Conductor Connection works | Installation of Deep earth rods (with normal or bore drill methods) | Earthing of all equipment, Cable tray and structures (steel/aluminium), all cranes and beams, all type of doors and windows, firefighting pipes and supports, Fire water tank, Panels and DBs | Complete lighting protection works including installation of lightning rods**

# TESTING & COMMISSIONING

This key electrical engineering service is for power systems to validate their integrity of substation at whole level by set of proven standards that are verified as Site Acceptance Tests. This enables the system stability for new or retrofit components.

## HIGH VOLTAGE TEST

Insulation Resistance  
Sheath Test  
DC/VLF Hipot Test for HV cables  
AC Hipot Test for HV Switchgear

## EARTH MEASUREMENTS

Grid Resistance Measurement  
Step and Touch Potential  
Earth Pit Resistance  
Soil Resistivity Test Measurement

## RELAY TEST

Line Diff. Relay  
Transformer Diff. Relay  
Distance Relay  
Synchronization Check Relay  
Backup Protection Relays

## BATTERY SYSTEM TEST

Functional checks on Charger Panel  
Load Test of Battery Charger  
Initial Check for Battery Cells  
Charging and Discharging Test for  
Battery Cells

## SWITCHGEAR TEST

Testing and Commissioning of  
HV & LV Switchgears  
Switchgear maintenance and  
Troubleshooting

## CT/VT TEST

Insulation Resistance  
Polarity  
Excitation  
Winding Resistance  
Ratio Test

## POWER/ DISTRIBUTION/ AUTO TRANSFORMER/ REACTOR

Tan Delta & Capacitance Measurement  
SFRA Test  
Oil Sampling and Chemical Analysis

## POWER QUALITY TEST

Measuring and Analysing the Power  
Quality of Electrical Equipment  
Harmonic Analysis

# TRANSFORMER OIL REGENERATION

## VAPOR PHASE DRYING & TRANSFORMER OIL PURIFICATION

We offer cost effective, on site service for reclaiming oil in a capacity of 3000 LPH and 6000 LPH to reinstate it's condition to improve expected life of the transformer.

Our qualified resources of men, machines and materials kept together in one place for this key preventive maintenance service. The ultimatum is to achieve a significant state of condition of oil while a transformer is in service and being processed for a properties that signifies the transformer oil.

Acume' oil treatment units are capable of treating all types of mineral based transformer oils. All our oil regeneration equipment is mounted on trailer to facilitate mobility hence suitable for easier transportation between sites.



Complete Oil treatment for IBT, ICT, IDT, HVDT, ET/AT, Shunt Reactors to Limits as per utility soecs with necessary storage facilities

**Main Tank and OLTC except HV cable box**

**HV Cable boxes for HV cable test**

**HV Cable boxes after link installation**

**MOLG Checks**

**Pressure Test**

Acume' mobile oil regeneration unit is designed for its regenerating capability for the transformer oil continuously without any disruption of services and while transformer is in operation. This preventive maintenance service is vital and based on the aging period of the transformers thus makes insulating oil prone to oxidized and degraded. This process of regenerating the oil is from protecting the cellulosic insulations with the elimination of the dissolved gas and other impurities.



# WORKFORCE OUTSOURCING



*In-depth domain knowledge and a history of successfully completed projects makes us a leading human resource provider for electrical engineering projects in UAE.*

Acume offers fulfillment for project's demand by deploying skilled technicians and engineers with qualifying approvals from DEWA, SEWA, FEWA, AADC, ADDC and TRANSCO. Our qualified electrical engineers with CNIA security permits having well experienced with electrical infrastructure of on-shore and offshore facilities.

Acume has standard to specialized training programs in place and ensuring that all our personnel follows a strict process while executing projects. This is probably the biggest fulfillment that brings us the utmost trust and confidence.

No matter how urgent the short term project requirement is, Acume can swiftly provide the individual or team of personnel. Our deployed workforce understand the day-today project operations professionally and shall meet the committed deliverables as scheduled.

We are constantly looking to reduce the risk of code violations, process disruptions, safety hazards, and reliability issues in each project rigorously. Our recommendations are made with the sole intention of making power systems more safe and reliable.

**Acume enable employees to participate periodic technical courses with the third party certifications. We maintain and update skill matrix of company's human resources facilitating easier decision making on resource allocation and for the effective talent management ultimately.**



# MAINTENANCE SERVICES

**Operational Maintenance**  
**Corrective Maintenance**  
**Preventive Maintenance**  
**Thermography**  
**Protection Study**  
**Cable Fault Locating**



## MAINTENANCE

LV & HV Switchgears  
Functional checks on Protection relays  
Power & Auxiliary Transformers  
Battery system  
Power factor control system  
Earthing system

## REPAIRS

HV Circuit Breakers  
LV Circuit Breakers  
LV Motors  
Compressor Unit  
Auxiliary Transformer



Overhauling services and Repairs are handling with experienced professional team. Scheduled maintenance services with on-site survey and root cause analysis of fault in high voltage electrical component and equipment of power systems in industrial plants and utility substations.

# TESTING EQUIPMENT RENTAL

Programma | ODEN AT  
 Omicron | CPC 100  
 Omicron | CT Analyzer

Programma | Sverker 760  
 Programma | Freja 300  
 Omicron | CMC 356  
 ISA | DRTS 64

Kilovolt | KPG 110kv  
 Automatic Electric | 5kV | 25kV  
 Phenix | 6CP100/50-7.5 | 6CP50/10-3  
 b2 High-Voltage | HVA60 | HVA90  
 Fluke | 80K-40

Doble | M5400  
 Omicron | CP TD1 | CP SB1  
 Scope T&M | TRM-104

Motwane | DCM-10A  
 Lutron | CM-9930  
 Chauvin Arnoux | MINI 05  
 Waco | DT-2250  
 Kyoritsu | 2010 Mini

Fluke | 435 II  
 Programma | EGIL

Programma | MOM 600A  
 Megger | DLRO 10  
 Scope | CRM 100c  
 Megger | MIT515 | MIT525



Acume offers wide range of electrical testing equipment for rental with valid calibration certificates. Our on-time delivery of equipment ensured to meet the testing requirements that are scheduled at project sites.

# OUR ORGANISATION

Leading the currentness for futurity with **acumen ahead**.

We stand for approachability when undertaking the each stages of the project with utmost professionalism and integrity. Our team of professions is dedicated to standard business practices, which emphasize the interest of our clients and the effective completion of their projects by managing all the subjecting aspects and their related concerns. Our experience in understanding and managing the projects of various industries prepared us to meet the clients' needs without unnecessary frills.

**Our services are weighed by highest standards of engineering practices with effective outcomes. We assure the quality of our services by adhering strict quality management system being ISO 9001:2015 organisation.**

## OPERATIONAL EFFICIENCY

Our efficiency is been valued for each operations, for us it's about improving the quality of services.

## STRATEGIC SUSTAINABILITY

Our opportunities compelling us adhered to strategy to drive sustainable development commitments.

## ENHANCED RELIABILITY

We offer clients to access the appropriate and standard services with assured engineering practices.

## QUALITATIVE GOVERNANCE

We manage to let it evolve our organisation practices with closer attentiveness and deeper learning.

## HEALTH & SAFETY

Our employees are well aware of their individual roles and responsibilities in looking after their own health and safety with fellow team members, they are more focused to help, create the best possible working conditions in site environment for each project. Our objective is always "zero accidents" and this is reflected in our OHSAS action guidelines and they are transmitted from the highest level and applied to all the personnel involved in our projects.

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