Powering what matters.

Electrical engineering. Critical power.
Equipment supply and specialist repair.



Illustrative image

Owned and operated by

Anan AlRiyah Company for Trading

ENELECTRO / COMPANY

Electrical power solutions in Saudi Arabia

Enelectro is an electrical power solutions brand owned and operated by Anan AlRiyah Company for Trading. From Riyadh, we serve facilities and projects across Saudi Arabia.



Illustrative image

What we deliver

- Equipment and material supply, electrical installation, inspection, testing and commissioning.
- UPS, batteries, generators, electrical infrastructure, renewable energy and energy storage solutions.
- Preventive and corrective maintenance, power electronics repair and technical condition reports.

A practical approach

- Equipment selection and service planning based on site needs, operating conditions and load requirements.
- Our services can be engaged individually or combined within a coordinated project or maintenance contract.

ENELECTRO / COMPANY

Owned and operated by Anan AlRiyah

Enelectro is owned and operated by Anan AlRiyah Company for Trading, which manages its specialist electrical power services and customer relationships.

EnElectro
عنان الرياح للتجارة
Anan Al Riyah Company for Trading

Our corporate foundation

- Anan AlRiyah Company for Trading brings equipment supply, electrical services and customer coordination under one corporate structure.
- Enelectro represents its electrical specialism: power systems, field services, maintenance and electronics repair.

Specialist integration

- Anan AlRiyah coordinates projects and supplies that require several technical specialisms.
- Enelectro coordinates electrical power and control interfaces with ICT, cooling and building-management systems.
- NMACOOL is the HVAC and cooling arm. It handles HVAC equipment and mechanical maintenance, while Enelectro provides the associated electrical services through Anan AlRiyah coordination.

Corporate contact

- Riyadh, Kingdom of Saudi Arabia
- anan-g.com | info@anan-g.com
- +966 54 088 8108

ENELECTRO / COMPANY

Explore our services

Electrical capabilities, specialist support and equipment supply.

Company and supply

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ENELECTRO / COMPANY

Explore our services

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ENELECTRO / COMPANY

Explore our services

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CRITICAL / POWER

Five specialist service divisions

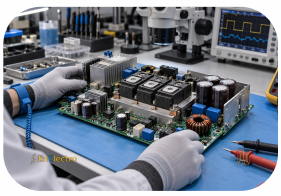
Within our critical-power and electronics offering, five connected service areas provide a clear route from diagnosis to restoration and long-term support.



Illustrative image

UPS Services

Preventive maintenance, troubleshooting, repair, installation and commissioning.



Illustrative image

Inverter and Module Services

Rectifiers, inverters, IGBT, SCR and power-conversion module testing and repair.



Illustrative image

PCB Repair Lab

Component-level PCB and control-card diagnosis, repair and functional testing.



Illustrative image

Battery Services

Inspection, testing, supply, replacement and battery health reports.



Illustrative image

Inspection and Engineering

Site surveys, measurements, condition reports and engineering recommendations.

EQUIPMENT / SUPPLY

Equipment and material supply

We supply electrical equipment, materials and spare parts for project requirements, facility maintenance and critical-power systems, with technical selection matched to the application.



Illustrative image

Power equipment

- Diesel, gas and auxiliary generators; UPS systems, inverters, rectifiers, battery chargers and battery banks.
- Distribution and AC/DC control panels, ATS/AMF equipment, switchgear, motor-control components and protection devices.
- Transformers, substation equipment and associated installation accessories.

Materials and replacement components

- LV/MV/HV cables, cable accessories, joints, terminations, containment and connections.
- Earthing and lightning protection materials, bonding accessories and surge protective devices.
- Solar modules, inverters, mounting structures, BESS components and lighting equipment.
- Electronic modules, PCBs, power semiconductors, capacitors, fans, sensors, measuring and test instruments, insulated tools and service consumables.

EQUIPMENT / SUPPLY

Technical sourcing and spare parts

Technical sourcing for planned replacements and urgent maintenance: identifying compatible parts, reviewing specifications and supporting installation and testing.



Illustrative image

Selection and technical matching

- Review BOQs, part numbers, manufacturer references, electrical ratings, dimensions and operating conditions.
- Source specified original parts and assess compatible alternatives for technical acceptance.
- Plan critical spare parts, replacement availability and delivery requirements.

Technical supply support

- Provide equipment datasheets, conformity documentation, operating manuals and applicable warranty information.
- Coordinate factory or site inspection of supplied equipment against project requirements.
- Support replacement, installation and testing of supplied equipment and spare parts.

EQUIPMENT / SUPPLY

Battery and DC equipment supply

Battery banks, industrial chargers and DC equipment for UPS and industrial power applications, selected for the required technology, capacity and system compatibility.



Illustrative image

Battery technologies

- Lead-acid batteries, including specified VRLA applications; lithium, nickel-cadmium (NiCd) and other rechargeable batteries according to the project specification.
- Check chemistry, voltage, capacity, discharge duty, dimensions and the required charging arrangement.

DC equipment and accessories

- Industrial battery chargers, rectifier equipment and associated DC distribution/protection components.
- Battery cabinets, covers, doors and connection accessories.
- Battery testers and battery-energy-storage control/management equipment.

Compatibility and integration

- Match manufacturer specifications, original part references, proposed alternatives and electrical ratings.
- Coordinate installation, commissioning, charger assessment, battery testing and replacement planning.
- Assess battery technology, charging profile, DC voltage and protection compatibility as one complete system.

ELECTRICAL / INFRASTRUCTURE

Electrical works and power distribution

Electrical installation and upgrade services for buildings, commercial facilities and operating sites, coordinated with the approved design and site conditions.



Illustrative image

Installation scope

- Site surveys, load schedules and review of single-line diagrams and equipment interfaces.
- Power-line and underground electrical works, utility cable routes and ducting within the defined electrical package.
- Power, control, instrumentation and associated communication cabling; XLPE or other specified cable types, accessories, supports, termination and identification.
- Installation and connection of distribution panels, circuit protection, isolators, outlets and electrical equipment.
- Earthing and bonding, labelling and coordination with the related civil and building-service interfaces.

Verification and handover

- Inspection, continuity and insulation checks, functional verification and commissioning tests.
- As-built updates, cable and panel schedules, inspection records and handover documentation.

ELECTRICAL / INFRASTRUCTURE

MV/HV networks and cable services

Installation, maintenance and testing services for medium- and high-voltage networks, cables, switchgear and substation interfaces.



Illustrative image

Cables and switchgear

- Review routes, cable ratings, installation constraints and interfaces with substations and distribution networks.
- Cable laying and pulling, jointing, termination, cable identification and installation records.
- RMU, medium-voltage and gas-insulated switchgear (GIS), substation load-control switchgear and protection/control interfaces.
- Inspection and maintenance support for the specified MV/HV equipment and associated accessories.

Diagnostics and commissioning

- Insulation and sheath checks, approved cable tests and technical reporting.
- VLF and partial-discharge diagnostics where applicable to the cable system and agreed test plan.
- Select cable tests for the cable construction, voltage class and manufacturer requirements, with coordinated isolation and commissioning.

ELECTRICAL / INFRASTRUCTURE

High-voltage equipment and substation interfaces

Installation, inspection and maintenance support for high-voltage equipment and electrical interfaces in substations and switchyards.



Illustrative image

Service scope

- Inspection and maintenance support for specified switchyard equipment, circuit breakers, isolators and associated accessories.
- Coordinate protection, control, earthing, surge-arrester and cable interfaces with the substation design.
- Plan installation activities, equipment handling and authorized outage arrangements.
- Define specialist tests, equipment requirements and project acceptance criteria.
- Record equipment condition, test results, corrective actions and handover status.

ELECTRICAL / INFRASTRUCTURE

Power cable laying and pulling

Power cable installation covering route assessment, drum handling, pulling, support and identification.



Illustrative image

Service scope

- Review cable schedules, routing, trays, ducts, trenches and interfaces with other services.
- Plan drum handling, rollers, pulling equipment, bend radii and specified pulling limits.
- Lay and pull power cables; arrange supports, cleats, glands, identification and route marking.
- Inspect routes and cable condition before termination and testing.
- Document cable references, installed lengths, route changes and inspection findings.

ELECTRICAL / INFRASTRUCTURE

Cable termination and jointing

Termination and jointing matched to the cable construction, voltage class, equipment and accessory system.



Illustrative image

Service scope

- Select and supply compatible termination kits, joints, lugs, glands and insulation accessories.
- Prepare and install terminations and joints according to accessory manufacturer requirements.
- Complete phase identification, screen and armour bonding, cable support and connection checks.
- Inspect workmanship and coordinate applicable electrical tests before energization.
- Provide termination and joint records, inspection findings and relevant test documents.

TESTING / ENGINEERING

Power cable testing and diagnostics

Cable testing and condition assessment to support acceptance, fault diagnosis and maintenance decisions.



Illustrative image

Service scope

- Continuity, phase identification and insulation-resistance measurements.
- Cable sheath integrity checks and approved withstand tests as applicable.
- VLF testing and partial-discharge diagnostics where suitable for the cable system.
- Review test history and support fault assessment and repair recommendations.
- Plan cable tests for the cable type and voltage class, with suitable instruments and authorized isolation.
- Provide instrument details, recorded results, findings and corrective recommendations.

ELECTRICAL / INFRASTRUCTURE

Substations and transformers

Supply, installation, inspection and commissioning support for oil-immersed and dry-type transformers and associated substation systems.



Illustrative image

Project execution

- Review transformer ratings, site layout, ventilation, access, protection and network connections.
- Coordinate foundations, lifting and positioning, installation interfaces and equipment clearances.
- Connect power and control cables, earthing, accessories, monitoring and protection interfaces.

Testing and maintenance

- Visual and mechanical inspection, electrical testing and protection verification to suit transformer requirements and manufacturer instructions.
- Coordinate transformer oil sampling and testing for oil-filled units where specified.
- Record condition, readings, deficiencies and commissioning results with corrective recommendations.

ELECTRICAL / INFRASTRUCTURE

Electrical panels and control systems

Distribution and control panel solutions matched to the electrical duty, fault level, site environment and approved project specification.



Illustrative image

Panels and components

- MDB, SMDB and DB distribution panels; LV AC/DC panelboards and LV/MV motor control centers (MCC).
- MCB, RCD, MCCB and ACB protection devices; VCB and medium-voltage switching interfaces where included.
- Contactors, motor starters, electrical control modules, metering, protection relays, control wiring, indication, interlocks and remote-monitoring interfaces.
- Design coordination and custom assembly/fabrication arrangements through the specified manufacturer or panel builder.

Acceptance

- Review applicable IEC 61439 design and routine verification documentation for LV assemblies.
- Coordinate FAT/SAT, functional checks, drawings, component schedules and handover records as specified.

ELECTRICAL / INFRASTRUCTURE

Circuit breakers and electrical protection

Supply, installation, replacement and inspection of breakers matched to the distribution system and protection design.



Illustrative image

Service scope

- Miniature breakers (MCB), molded-case breakers (MCCB) and air circuit breakers (ACB).
- Specified medium-voltage and vacuum circuit breakers within the project scope.
- Trip units, auxiliary contacts, operating mechanisms, control accessories and compatible spares.
- Review ratings, breaking capacity, mounting and protection coordination requirements.
- Inspect and test mechanical, electrical and trip functions; document settings and findings.

GENERATION / TRANSFER

Generators and standby power

Generator supply, installation and maintenance support for diesel, gas and auxiliary-generator applications, with rental coordination for temporary power needs.



Illustrative image

System selection and installation

- Assess running and starting loads, operating duty, site conditions and the required standby arrangement.
- Generator sets, acoustic enclosures, fuel arrangements, exhaust systems, cooling and ventilation interfaces.
- Starting batteries, chargers, protection, controls, cabling and earthing.
- Load testing, operating checks and integration with transfer and building-management systems.

Lifecycle support

- Preventive servicing, fault diagnosis, corrective repair, consumables and spare-parts planning.
- Temporary power and generator-powered lighting towers for construction and remote sites.

GENERATION / TRANSFER

ATS, AMF and power transfer

Automatic source transfer and generator-control solutions for utility, standby generation and critical loads.



Illustrative image

Transfer systems

- ATS and AMF panels, switching devices, control logic, electrical/mechanical interlocks and status indication.
- Review pole arrangement, neutral switching, ratings, protection and source/load connections.
- Coordinate generator start/stop, mains-failure sensing and return-to-normal sequences.
- Static transfer and maintenance-bypass interfaces for critical-power systems where specified.

Integration and validation

- Synchronizing and load-sharing arrangements where required by the generator system design.
- BMS/SCADA signals, functional and transfer tests, interlock verification and witnessed test records.
- Validate source coordination and transfer sequences against the system design.

CRITICAL / POWER

UPS supply, installation and commissioning

UPS solutions for commercial, healthcare, industrial and data-center applications, including single-phase, three-phase and modular systems.



Illustrative image

Engineering and installation

- Review load, kVA/kW ratings, topology, redundancy needs, runtime requirement and future expansion.
- Select UPS equipment, battery configuration, chargers, input/output protection and manual maintenance bypass.
- Install and connect cabinets, battery banks, cabling, earthing and network/SNMP interfaces.
- Coordinate room ventilation, access, environmental conditions and interfaces with upstream/downstream systems.

Commissioning and handover

- Functional, alarm, bypass and transfer checks; battery and load tests within the approved method.
- Document settings, asset details, commissioning results, operator orientation and handover requirements.

CRITICAL / POWER

Equipment removal and reinstallation

Dismantling, replacement and reinstallation of UPS equipment, batteries and removable power modules, with safe handling and functional verification.



Illustrative image

Service scope

- Survey access and handling requirements; coordinate approved isolation and disconnection.
- Identify equipment, cables and modules before removal; protect disconnected interfaces.
- Protect equipment during packaging and transport for workshop repair or replacement.
- Reinstall or replace equipment, verify connections and perform functional tests.
- Document removed and installed assets, repair status and recommissioning results.

CRITICAL / POWER

UPS preventive maintenance

A structured inspection program to identify deterioration, document system condition and plan corrective action before faults disrupt operations.



Illustrative image

System and electrical checks

- Online and offline UPS inspection, with energized or isolated work defined by the approved method.
- Single-phase, three-phase and modular UPS inspection.
- Visual and physical inspection of cabinets and assemblies.
- Internal cleaning during approved isolation and access.
- Input/output voltage and current measurements; frequency measurement.
- DC bus voltage checking.
- Rectifier and inverter section inspection.
- Static bypass and maintenance bypass inspection.

Cooling and protection

- Cooling fan and ventilation inspection.
- Capacitor, fuse and breaker inspection.
- Cable and terminal inspection and tightening under approved isolation.
- Provide a maintenance report with readings, findings and prioritized recommendations.

CRITICAL / POWER

UPS performance and functional checks

Performance checks for UPS systems, batteries and bypass arrangements, supported by electrical measurements, alarm review and thermal inspection.



Illustrative image

Functional verification

- Alarm and event-log checking.
- Earthing inspection.
- Thermal inspection or thermal scanning where required.
- Functional and transfer testing.
- Battery charging and discharge testing where permitted.

Interpreting results

- Measure operating load and supply conditions to interpret system performance and test results.
- Review abnormal temperature, repeated alarms, bypass status and deterioration of consumable components.
- Recommend cleaning, repair, replacement or further investigation based on findings.
- Coordinate discharge, transfer and internal tests with site operations and authorized isolation windows.

CRITICAL / POWER

UPS and inverter troubleshooting

Fault diagnosis for UPS and inverter power, control, cooling and communications, with repair options, required parts and post-repair test recommendations.



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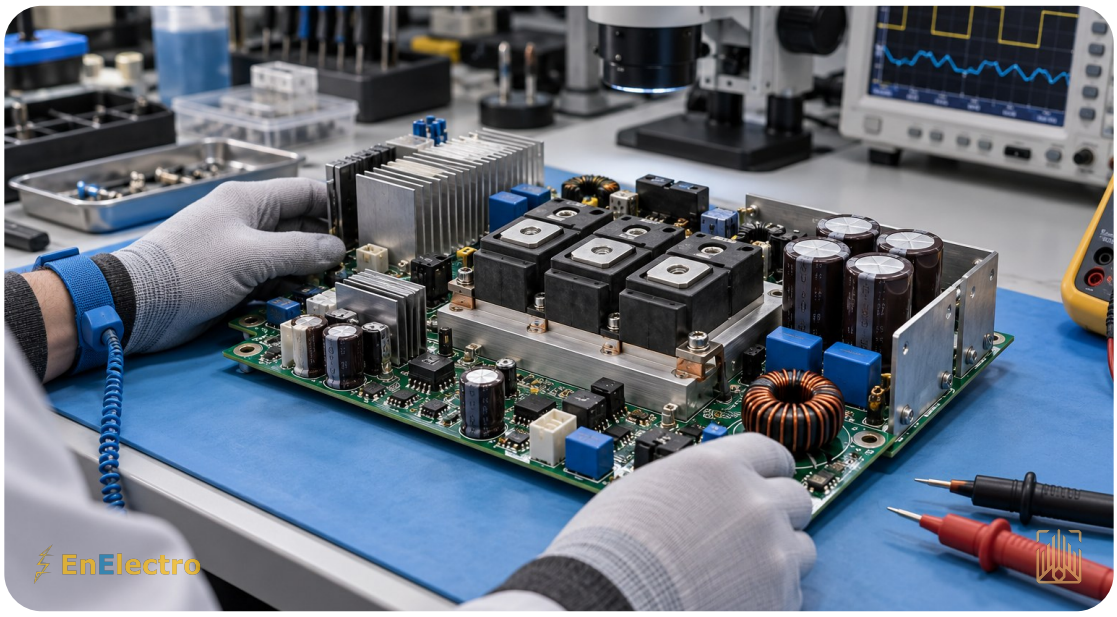
Fault conditions

- UPS not starting.
- Rectifier failure and inverter failure.
- DC bus faults.
- Over-voltage and under-voltage.
- Over-current.
- Over-temperature.
- Overload and short-circuit alarms.
- Battery charging problems and battery breaker trips.
- Bypass problems.
- Communication faults.
- Display and control faults.
- Intermittent alarms.
- Module communication failures.
- Fan and cooling problems.

ELECTRONICS / REPAIR

Rectifier, inverter and power module repair

Specialist testing and component-level repair of rectifier, inverter and power-conversion modules, based on fault diagnosis and repair feasibility.



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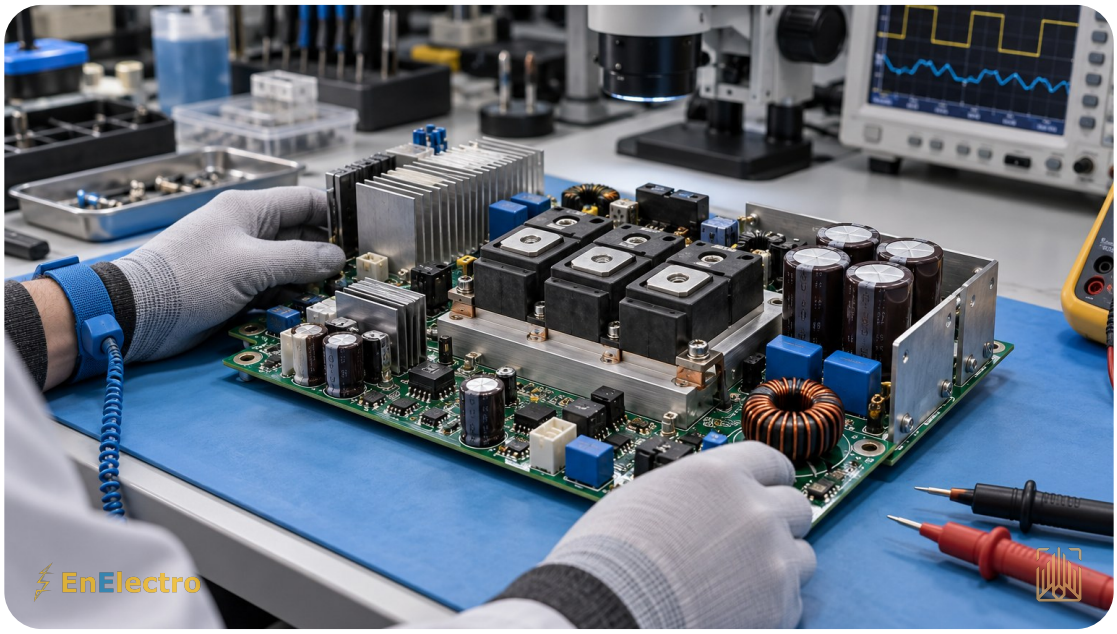
Workshop scope

- Rectifier module testing; inverter module testing.
- IGBT, SCR/thyristor and diode testing.
- Gate-driver testing and gate-drive signal checking.
- DC-link circuit testing.
- Snubber circuit inspection.
- Power capacitor testing.
- Current-sensor and voltage-sensor testing.
- Module PCB inspection.
- Burnt or damaged component identification.
- Component-level replacement.
- Post-repair functional testing.
- Provide a module repair report with fault findings, repair work and functional test results.

ELECTRONICS / REPAIR

PCB and control-card repair

Component-level PCB repair offers a technical alternative to complete board replacement when the board condition and available test methods support a reliable repair.



Illustrative image

Boards we assess

- Rectifier control PCB and inverter control PCB.
- Driver PCB and main control PCB.
- System control card and bypass control card.
- Battery management PCB.
- Communication PCB and SNMP/network cards.
- I/O PCB and display/control PCB.
- Power supply PCB and protection PCB.

Repair method

- Visual inspection and circuit diagnosis; component testing and fault isolation.
- Replacement of failed components, bench testing and functional validation.
- A final report records the repair and any remaining technical limitations.

ELECTRONICS / REPAIR

Enelectro Electronics Repair Lab

Component-level diagnosis and repair of industrial electronic boards and modules, supported by bench testing and functional verification.



Illustrative image

Equipment accepted for assessment

- UPS, inverter and rectifier PCBs.
- Industrial power supplies and SMPS boards.
- IGBT driver boards and control cards.
- PLC/DCS cards.
- VFD and control boards.
- Industrial electronic modules.

Repair and test reports

- Reported fault and diagnostic findings; root cause where established.
- Components replaced, work completed and test results.
- Final technical status, test coverage and warranty/service information.
- Equipment identification and documentation of the work completed.
- Repair-feasibility assessment and a test plan suited to the board or module.

CRITICAL / POWER

Battery inspection and health testing

Battery condition testing and charging assessment to identify weak units and support maintenance, replacement and backup-runtime planning.



Illustrative image

Inspection and measurements

- Battery visual inspection and terminal inspection.
- Individual battery voltage and total string voltage measurements.
- Internal-resistance or impedance testing.
- Temperature recording.
- Battery connection inspection.
- Corrosion inspection.
- Battery charging assessment.
- Battery discharge or load testing where appropriate.
- Battery replacement recommendations.

Condition reporting

- Compare results with the appropriate reference and identify abnormal units or strings.
- Assess battery age, installation environment and string configuration alongside the test results.

CRITICAL / POWER

Battery supply, replacement and runtime assessment

Supply and replacement of UPS and DC batteries, with charger compatibility checks and backup-runtime assessment.



Illustrative image

Replacement planning

- Check the specified battery model, chemistry, dimensions, ratings, terminal arrangement and charger compatibility.
- Assess original specified batteries and compatible replacement options.
- Plan installation windows, string replacement, safe handling and post-installation checks.
- Provide a battery schedule, installation records, warranty terms and maintenance recommendations.
- DC battery banks and industrial battery chargers: supply, installation, testing, assessment of existing chargers and replacement recommendations.

Runtime validation

- Review displayed runtime and state-of-charge indicators against operating load and battery condition.
- Assess actual backup runtime through suitable discharge/load tests or manufacturer evaluation, considering the installed load and battery condition.

TESTING / ENGINEERING

UPS inspection and technical reports

UPS inspection and technical reporting that document equipment condition, operating measurements and prioritized maintenance recommendations.



Illustrative image

Customer and equipment record

- Customer/company, site/location, contact person and inspection date.
- UPS manufacturer, model and serial number.
- Capacity in kVA and installation year when available.
- Battery type, battery/string quantities and UPS module count.

Measurement record

- Input and output voltage; input and output current.
- Frequency and DC voltage.
- Battery voltage and battery impedance.
- Temperature and load percentage.

Technical assessment

- Include photographs, observed operating conditions and the method used for each measurement where relevant.
- Explain the equipment assessed, test coverage and findings that require further investigation.

TESTING / ENGINEERING

Condition assessment and action planning

Technical condition assessment that prioritizes repair, replacement and preventive measures by their impact on operation.



Illustrative image

Condition and recommendations

- Rectifier, inverter, bypass and battery: OK / Attention / Fault.
- Cooling system, capacitors, control cards and communication condition.
- Wiring and connection condition.
- Immediate repair needs and recommended replacement.
- Preventive actions and spare parts required.
- Next maintenance date.

Decision support

- Assess fault causes and identify additional diagnostic tests when needed.
- Identify urgent work, planned corrective action and longer-term renewal options.
- Support maintenance planning, spare-parts budgeting, load review and phased replacement.
- Confirm follow-up inspection or commissioning requirements after corrective work.

SERVICE / MAINTENANCE

Electrical O&M and lighting services

Planned electrical operation and maintenance services for building systems, infrastructure and lighting assets.



Illustrative image

Electrical assets

- Asset surveys, preventive maintenance schedules, condition inspections and corrective work orders.
- Generators, UPS, chargers, batteries, distribution/control panels and associated electrical equipment.
- Inspection of connections, protection devices, cabling, earthing and thermal condition.

Lighting systems

- Internal, external, facade and landscape lighting inspection and maintenance.
- Lighting fixtures, drivers, control circuits, timers and interfaces with lighting-control systems.
- Generator-powered and solar-powered lighting towers for temporary and remote applications.
- Fault records, maintenance reports, spare-parts recommendations and handover of completed work.

SERVICE / MAINTENANCE

Corrective and emergency maintenance

Corrective maintenance and fault-response support to diagnose failures, repair affected equipment and restore electrical and critical-power systems.



Illustrative image

UPS fault response

- UPS shutdown and critical alarms.
- Module failure, inverter trip and rectifier trip.
- Battery failure and bypass failure.
- PCB failure and communication failure.
- Cooling or fan failure.
- Repeated UPS alarms.
- Post-repair testing and recommissioning before handover.

Service coordination

- Identify the affected asset, symptoms, operating state and immediate operational priorities.
- Coordinate site access, authorized work windows, required spares and workshop support.
- Confirm repair completion, test outcome and remaining actions with the customer.
- 24/7 support options through a service agreement.

SERVICE / MAINTENANCE

Annual maintenance contracts

Maintenance packages are built around asset condition, equipment criticality and the service coverage required by the customer.



Illustrative image

Basic AMC

- Scheduled preventive maintenance and inspection.
- Cleaning and measurements.
- Maintenance report and recommendations.

Comprehensive AMC

- Preventive maintenance and breakdown support.
- Troubleshooting, labour and emergency callouts.
- Selected spare parts according to the contract.

Customized industrial AMC

- 24/7 support and scheduled site visits where contracted.
- Critical spare-parts planning and battery monitoring.
- Thermal inspection and detailed engineering reports.
- Emergency response and repair workshop support.
- Monthly, quarterly, half-yearly or annual maintenance visits to suit equipment and site requirements.

SERVICE / MAINTENANCE

Maintenance management and service levels

Maintenance programs supported by asset assessment, service-level agreements, technical reporting and ongoing performance review.



Illustrative image

Maintenance planning

- Asset surveys, baseline condition assessment and site-specific maintenance schedules.
- Service coverage planning, fault reporting and customer support coordination.
- Service-level agreements (SLA) covering acknowledgement, attendance and restoration targets.
- Plan labour, consumables, spare parts, batteries, repairs and equipment renewal.

Monitoring and improvement

- Maintenance reports, readings, fault trends and corrective-action follow-up.
- Periodic review of recurring faults, asset condition and upgrade priorities.
- Coordinate planned shutdowns, load tests and equipment interventions with site operations.

RENEWABLE / ENERGY

Solar energy and PV systems

Engineering, supply, installation and maintenance support for solar PV systems suited to the site, demand profile and approved connection arrangement.



Illustrative image

PV scope

- Site and load assessment; layout and system sizing coordination.
- Solar modules, inverters, mounting structures, DC/AC cabling, isolation and protection.
- On-grid, off-grid and hybrid configurations where suitable and permitted.
- Earthing, lightning/surge protection interfaces and coordination with utility/project requirements.

Performance and maintenance

- Commissioning checks, monitoring setup and handover documentation.
- Inspection, cleaning plans, fault diagnosis and performance review.
- Solar-generation packages and solar-powered lighting for remote or temporary loads, with battery or generator integration to suit the application.
- Design hybrid backup interfaces with suitable inverters, storage and coordinated electrical protection.

RENEWABLE / ENERGY

Battery energy storage and hybrid power

Battery energy storage and hybrid-power integration for backup support, peak management and coordination with solar, generators and grid supplies.



Illustrative image

System integration

- Coordinate storage power/energy requirements, battery configuration and power-conversion equipment.
- Integrate with solar PV, generators or the electrical grid according to the approved architecture.
- Coordinate BMS, energy management, protection, communications and monitoring.
- Review siting, thermal management, access and the required fire/safety interfaces.

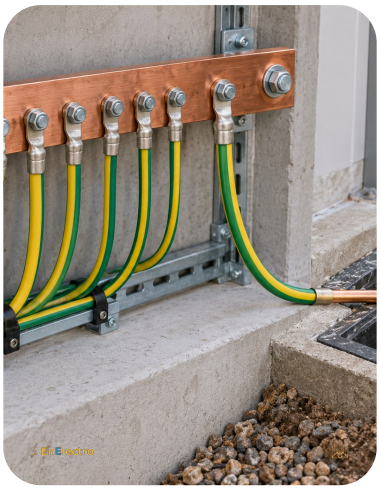
Evaluation and support

- Assess applications such as backup support, peak management and hybrid fuel-use optimization.
- Commissioning, operating-parameter review, maintenance planning and technical handover.

EARTHING / PROTECTION

Lightning protection, earthing and surge protection

Earthing, bonding and surge-protection services that connect structural protection with the needs of electrical systems and sensitive equipment.



Illustrative image

Design and installation

- Site survey, lightning protection assessment and coordination of the applicable IEC 62305 requirements.
- Air-termination systems, down conductors, earth electrodes and inspection points.
- Equipotential bonding and integration with the installation earthing system.
- Coordinated low-voltage/signal surge protective devices (SPD), plus station or switchyard surge arresters and earthing interfaces where specified.

Verification and maintenance

- Earth resistance and continuity measurements, inspection records and corrective recommendations.
- Engineering submittals, material selection, installation, testing and technical handover.
- Periodic inspections and maintenance of exposed components, joints and protection devices.
- Define earth-resistance targets and protection levels from the site assessment and project design.

EARTHING / PROTECTION

Lightning protection systems

A coordinated service covering lightning assessment, external protection, bonding interfaces and inspection.



Illustrative image

Service scope

- Site survey and coordination of applicable IEC 62305 design requirements.
- Air terminals, down conductors, earth-termination interfaces and inspection points.
- Coordinate equipotential bonding and surge protection with the electrical installation.
- Material submittals, installation inspection, test records and periodic maintenance recommendations.



Illustrative image

INDUSTRIAL / CONTROL

Industrial electrical and drive services

Electrical installation and maintenance support for factories, process facilities, utilities and desalination-related applications.



Illustrative image

Plant electrical systems

- Electrical work packages for power-generation facilities, industrial plants and associated infrastructure.
- Motor installation and electrical maintenance; LV/MV MCC, motor starter and variable-speed drive/VFD services.
- Electrical maintenance and repair of production and manufacturing equipment.
- Coordinate motor/machine alignment support and planned interventions according to the equipment and project requirements.
- Fault diagnosis for power supplies, drive/control boards and industrial electronic modules.
- PLC/DCS card repair assessment and interfaces with the plant control system.

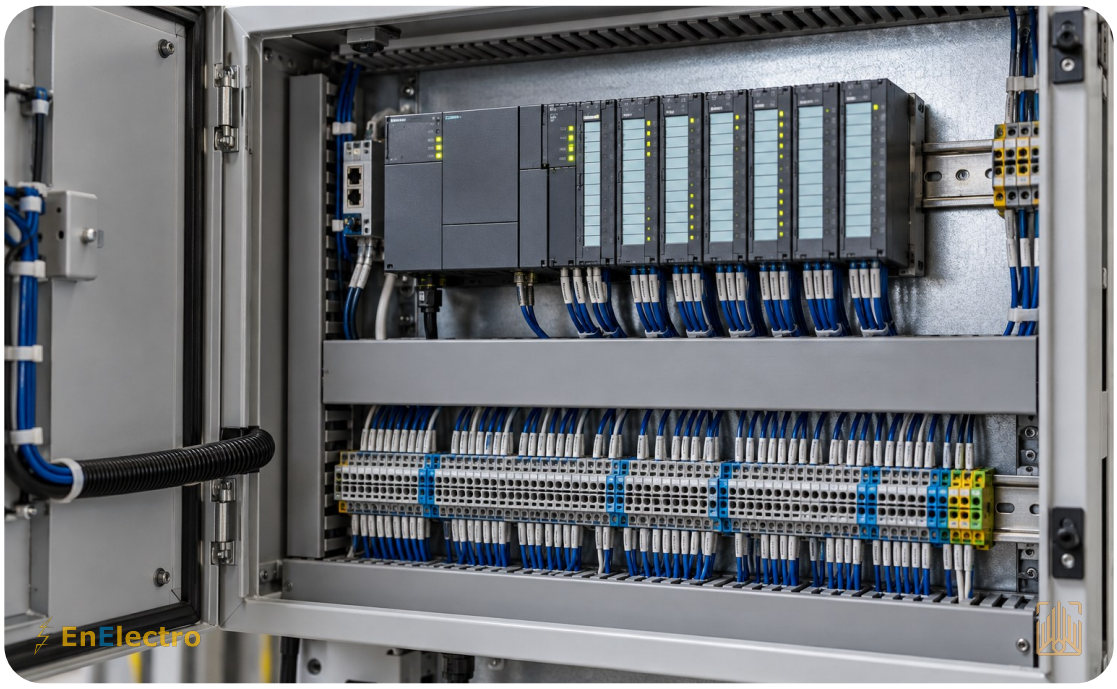
Planned interventions

- Coordinate shutdown windows, equipment access, replacement compatibility and test requirements.
- Document faults, repair actions, component replacements and functional results before handover.

INDUSTRIAL / CONTROL

PLC control and industrial electronics

Inspection, fault diagnosis and repair support for industrial controls and their electrical interfaces.



Illustrative image

Service scope

- PLC/DCS cards, I/O modules, control power supplies and communication interfaces.
- Panel wiring, terminal connections, interlocks and field-signal checks.
- Coordinate VFD, motor starter and monitoring interfaces with the electrical control system.
- Assess modules in the repair lab; repair or replace compatible components where feasible.
- Complete bench and functional tests and document final service status.

INDUSTRIAL / CONTROL

SCADA, BMS and smart monitoring

Electrical-system monitoring and integration services that make operating status, alarms and measurements available to facility teams.



Illustrative image

Monitoring scope

- Generator, UPS, energy-meter and protection-panel interfaces.
- Install and integrate energy-management controls, computerized/electronic controls and power-monitoring interfaces.
- SCADA and BMS signal coordination, alarm/status points and remote-monitoring requirements.
- SNMP/network cards, communication boards and equipment communication troubleshooting.
- Smart metering and IoT integration with electrical control and communications networks.

Configuration and verification

- Point lists, interface schedules, communication settings and access requirements.
- Functional testing, alarm verification and operating-information handover.

TESTING / ENGINEERING

Electrical testing and commissioning

Electrical inspection, testing and commissioning to assess equipment condition, verify function and support technical acceptance.



Illustrative image

Test services

- Visual/mechanical inspection, insulation resistance, continuity and earthing tests.
- Voltage, current, frequency, load and thermal measurements as applicable.
- Generator and UPS functional tests, transfer tests and load-bank testing.
- Battery charging/discharge tests and backup-runtime assessment suited to the system requirements.
- Cable diagnostics, protection/control checks and transformer tests as specified.
- Factory and site acceptance coordination, punch-list closeout and recommissioning after repair.

Test and commissioning reports

- Document test methods, instruments, measured results, acceptance findings and corrective recommendations.
- Provide test records, commissioning reports and technical handover documents.

TESTING / ENGINEERING

Energy efficiency and power quality

Measurement-led assessment helps identify excessive consumption, electrical quality issues and practical improvement options.



Illustrative image

Assessment and improvement

- Energy-consumption review, load profiles, operating patterns and energy-audit recommendations.
- Power-factor assessment, capacitor-bank solutions and power-factor correction equipment.
- Harmonic measurements and mitigation solutions, including specified harmonic-mitigation transformers.
- Review phase-load balance, equipment condition and opportunities for operational improvement.
- Evaluate efficiency upgrades, solar/hybrid options and replacement plans against technical and commercial assumptions.

Improvement planning

- A prioritized improvement list with measurement evidence and implementation considerations.
- Estimate energy savings and investment returns from measured baselines and stated operating assumptions.

TESTING / ENGINEERING

Engineering consultation and technical training

Practical engineering support for equipment selection, maintenance planning, technical proposals and operation of electrical assets.



Illustrative image

Advisory and engineering services

- Site surveys, equipment condition assessments and technical recommendations.
- Electrical engineering support, detailed engineering and front-end engineering design (FEED) for defined electrical work packages.
- Load/capacity and single-line diagram review; measurement/recording instrument and control-interface engineering support.
- Technical proposals, BOQ review, procurement support and coordination with EPC contractors on electrical work packages.
- Define specialist load-flow, short-circuit and protection-coordination studies where required.

Operator and technician training

- Equipment orientation, operating sequences, alarm interpretation and maintenance awareness.
- Training materials, participant records and certificates of attendance.
- Training programs tailored to the equipment, maintenance tasks and participants.

ELECTRICAL / INFRASTRUCTURE

EV charging electrical infrastructure

Electrical infrastructure support for EV charging installations, coordinated with site capacity, the selected charging equipment and project approvals.



Illustrative image

Electrical scope

- Assess available capacity, charging demand and connection points.
- Coordinate distribution panels, protection, cable routes, earthing and metering.
- Coordinate charging-equipment supply and installation, monitoring interfaces and operational checks with the site electrical infrastructure.
- Document installation records, test results and maintenance requirements.

ENELECTRO / COMPANY

Sector applications and integrated delivery

Electrical services tailored to the operating requirements of commercial, institutional, industrial and critical-infrastructure facilities.



Illustrative image

Facilities we serve

- Commercial and government buildings, retail and education facilities.
- Healthcare facilities and other sites with sensitive electrical loads.
- Industrial plants, utilities, desalination applications and construction sites.
- Data centers, telecommunications and critical infrastructure.

Data-center and critical-power interfaces

- Coordinate UPS, battery banks, generators, MV/LV distribution, transfer systems and earthing.
- Coordinate electrical requirements with NMACOOL cooling systems, ICT racks and BMS/monitoring interfaces.
- Coordinate design, installation, testing and maintenance across the participating technical specialisms.

ENELECTRO / COMPANY

HVAC coordination with NMACOOL

NMACOOL provides HVAC and cooling services within Anan AlRiyah. Enelectro supports the related electrical power, protection and control interfaces.



Illustrative image

NMACOOL specialist scope

- Air conditioners.
- Air handling units (AHU).
- Centrifugal liquid chillers.
- Cooling towers.
- Fan coil units (FCU).
- Reciprocating chillers.
- Screw chillers.
- Air diffusers.
- Air exhausters.
- Ventilation dampers.
- Vents.

ENELECTRO / COMPANY

Quality and project delivery

Quality practices that connect equipment selection, installation, inspection and testing with clear technical handover.



Illustrative image

Delivery sequence

- Survey and scope definition; identify interfaces, constraints and required approvals.
- Technical submittal and procurement; confirm equipment and material specifications.
- Installation or repair coordinated with site operations and equipment requirements.
- Inspection, testing, corrective closeout and commissioning.
- Handover documents, operator orientation and maintenance planning.

Quality practices

- Apply the project specification, applicable standards, equipment instructions and site HSE requirements.
- Define inspection and acceptance criteria and verify equipment function before handover.
- Provide technical readings, repair reports, material documentation and completion records.

ENELECTRO / COMPANY

Our customers

We value the relationships that support our work across commercial, institutional and industrial environments.

ENELECTRO / COMPANY

Start your project with Enelectro

Our team helps you identify the electrical service, equipment or maintenance solution that fits your site and operating needs.



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Understand your requirements

- Review the site, equipment, load requirements and existing system condition.
- Assess drawings, BOQs and available equipment or fault information.
- Identify supply, installation, testing, repair or maintenance requirements.

Plan the service

- Recommend suitable equipment and services for the application.
- Coordinate site assessment, technical review and implementation planning.
- Contact our team with your project details, equipment references or maintenance requirements.

ENELECTRO / COMPANY

Discuss your electrical requirements

Contact Enelectro for equipment supply, electrical projects, critical-power services, electronics repair and maintenance support.



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Enelectro

- enelectro.com
- info@enelectro.com
- +966 54 088 8108
- Riyadh, Kingdom of Saudi Arabia

Owned and operated by

- Anan AlRiyah Company for Trading
- anan-g.com | info@anan-g.com