

HD Hyundai Electric

Equipment supply • Electrical engineering • Lifecycle support



Repair • Overhaul • LV / MV Panels • 24/7 Maintenance

Supply • Repair • Overhaul • LV / MV Panels • 24/7 Maintenance

Local engineering strength for industrial and critical electrical infrastructure

Engineering roots since 1998 • Oman operations since 2018

Company profile, product portfolio and detailed electrical services

2,000+

Successful projects | Group

28 Years of heritage

Inside this profile

From official product access to dependable facility operation

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RTTR Engineering Group

Engineering roots since 1998. Oman operations since 2018.



SERVICES AT A GLANCE

- 01** One accountable engineering partner
- 02** A complete delivery model
- 03** Markets, resources and manufacturing relationships
- 04** Evidence that reaches the operating team

One accountable engineering partner

RTTR combines multidisciplinary engineering with practical delivery from Muscat. Our roots began in electrical-panel engineering and manufacturing in 1998, and our Oman operations began in 2018. We connect consultancy, detailed design, procurement, installation, commissioning and long-term operating support through one coordinated customer interface.

A complete delivery model

Customers can appoint RTTR for a specialist assignment, equipment supply, a coordinated EPC scope, asset repair or ongoing maintenance. Responsibilities, technical interfaces, approvals, programme and acceptance requirements are defined before execution. This supports a documented transition from the initial requirement to a practical, maintainable operating system.

Markets, resources and manufacturing relationships

Our engineering capability supports data centers, industrial plants, oil and gas, utilities, water infrastructure, commercial and institutional facilities, residential systems and marine applications. Wider group production and assembly resources, together with manufacturing and technology partners, support equipment supply and coordinated execution. The team, facilities and specialist support assigned to each job are defined around its actual technical requirement.

Evidence that reaches the operating team

Drawings, equipment schedules, technical approvals, test records, settings, software backups and operating information form a coordinated handover. We connect preventive maintenance, fault diagnosis, repair and contracted 24/7 AMC with the assets, priorities and responsibilities agreed with the customer.

Experience & capacity

Company-supplied figures, clearly scoped

2,000+

Successful projects

28

Years of heritage

6,000+

m² group production space

300+

Group technical resources

1998

Engineering roots

2018

Oman operations

2026

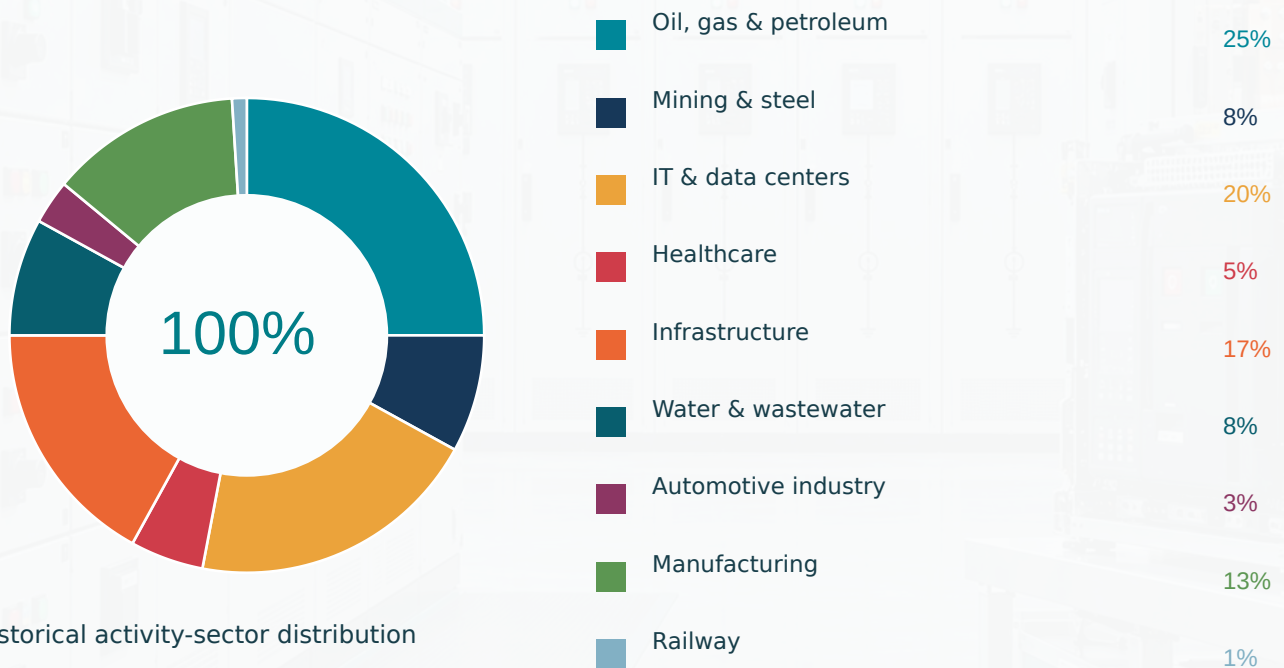
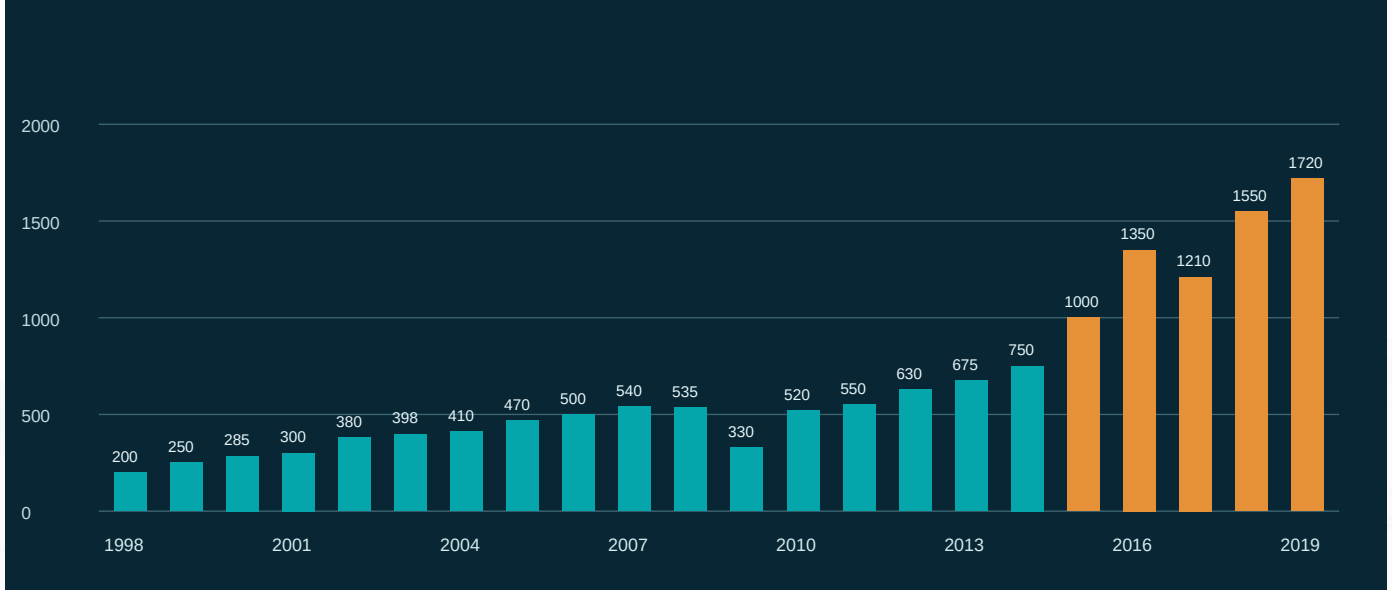
Integrated capability

Figures describe the wider group record and resources, rather than the Oman operation alone. Engineering roots date to 1998; Oman operations began in 2018. The total project figure has been updated using company-supplied information.

Production & sector experience

Historical indicators from the previous company catalogue

Historical electrical-cell production | 1998-2019

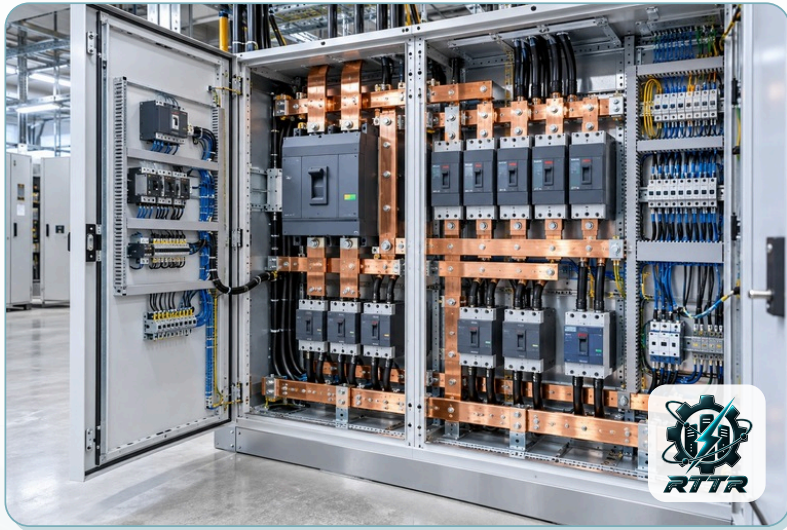


Historical activity-sector distribution

Source: supplied previous company catalogue, p.15. Historical data; electrical-cell production is a separate measure from project count.

Vision, mission & certified expertise

Reliability, responsibility and long-term customer value



SERVICES AT A GLANCE

- 01 Certified technical personnel
- 02 Multidisciplinary coordination
- 03 Multiple technology and delivery partners
- 04 Documented testing and handover

Our vision

To be a trusted engineering partner for reliable critical infrastructure, connected facilities and sustainable operation. We aim to connect the technical depth of specialists with the accountability of an integrated delivery partner.

Our mission

Connect sound engineering, appropriate equipment, disciplined site execution and verified performance with practical long-term support. Safety, reliability, efficiency and customer requirements guide engineering decisions from concept to handover.

Certified technical team and supporting partners

Our technical team includes certified engineers and specialists. Personnel and supporting resources are assigned around each discipline, equipment and platform. Multiple technology, manufacturing and technical partners support product access, specialist integration and delivery. Qualifications and relevant supporting records can be submitted as part of project review.

Connected engineering departments

Specialist capability with coordinated project interfaces



SERVICES AT A GLANCE

- 01 Data centers & consultancy
- 02 HD Hyundai Electric & Power / Energy
- 03 ICT, Security & Smart Systems
- 04 Mechanical & Marine
- 05 Technical training

Data centers & consultancy

Feasibility, audits, RFP/RFQ, detailed multidisciplinary design, critical power, cooling, CFD, DCIM/BMS/EMS, turnkey delivery and 24/7 AMC.

HD Hyundai Electric & Power / Energy

Electrical equipment supply and support; LV/MV boards, PLC and control, UPS, batteries, diesel generators, ATS, electrical maintenance, earthing/lightning, solar and cathodic protection.

ICT, Security & Smart Systems

Network topology, copper/fiber, CCTV, access control, CHD by Newabel rack security, smart systems, software integration and custom applications.

Mechanical & Marine

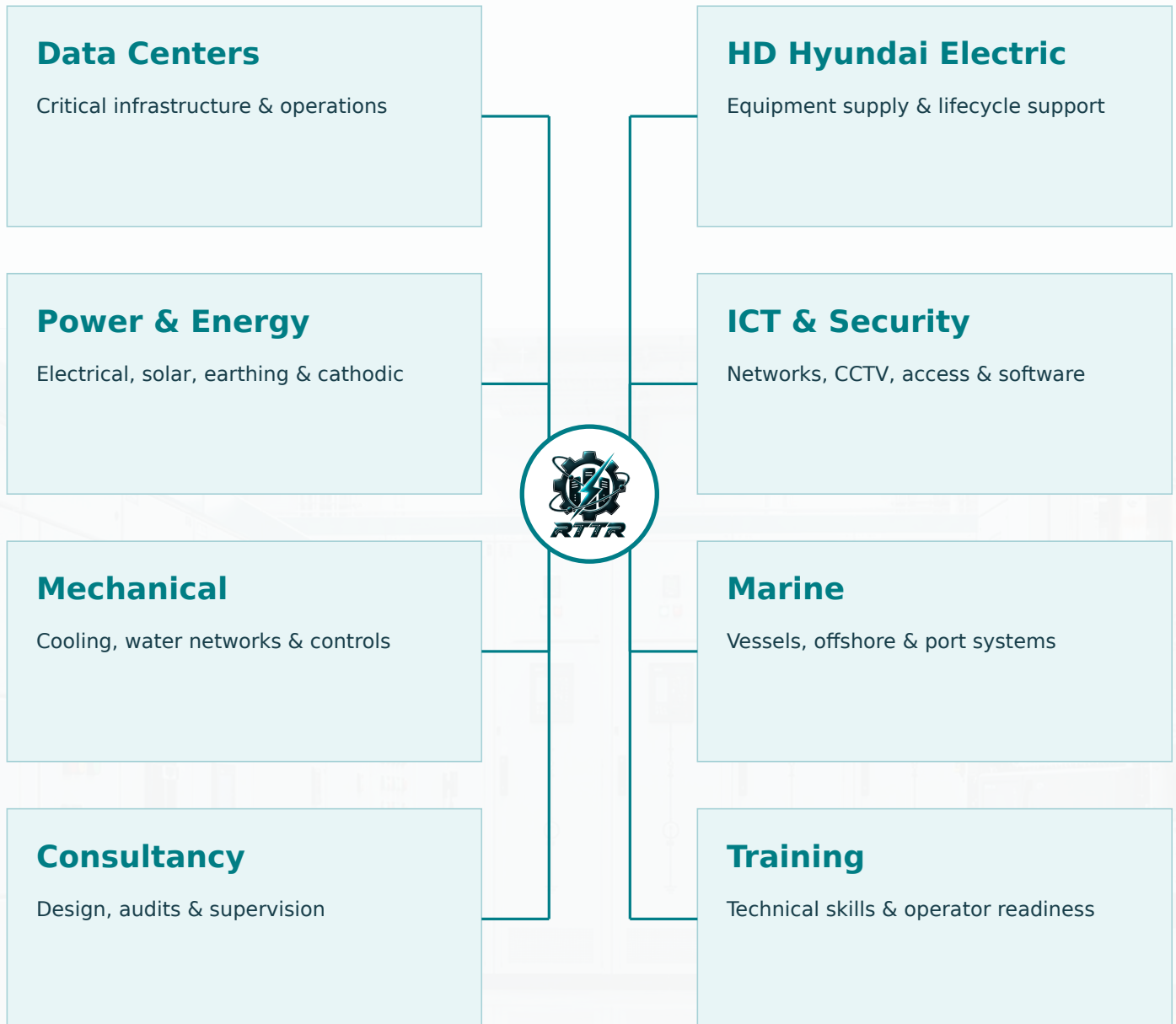
Precision and residential cooling, hydronics, pumps, valves, controls and AMC; marine communication, navigation, e-navigation, automation/engine support and VTS.

Technical training

Practical client workshops, specialist training and project-specific operator handover support.

The RTTR engineering network

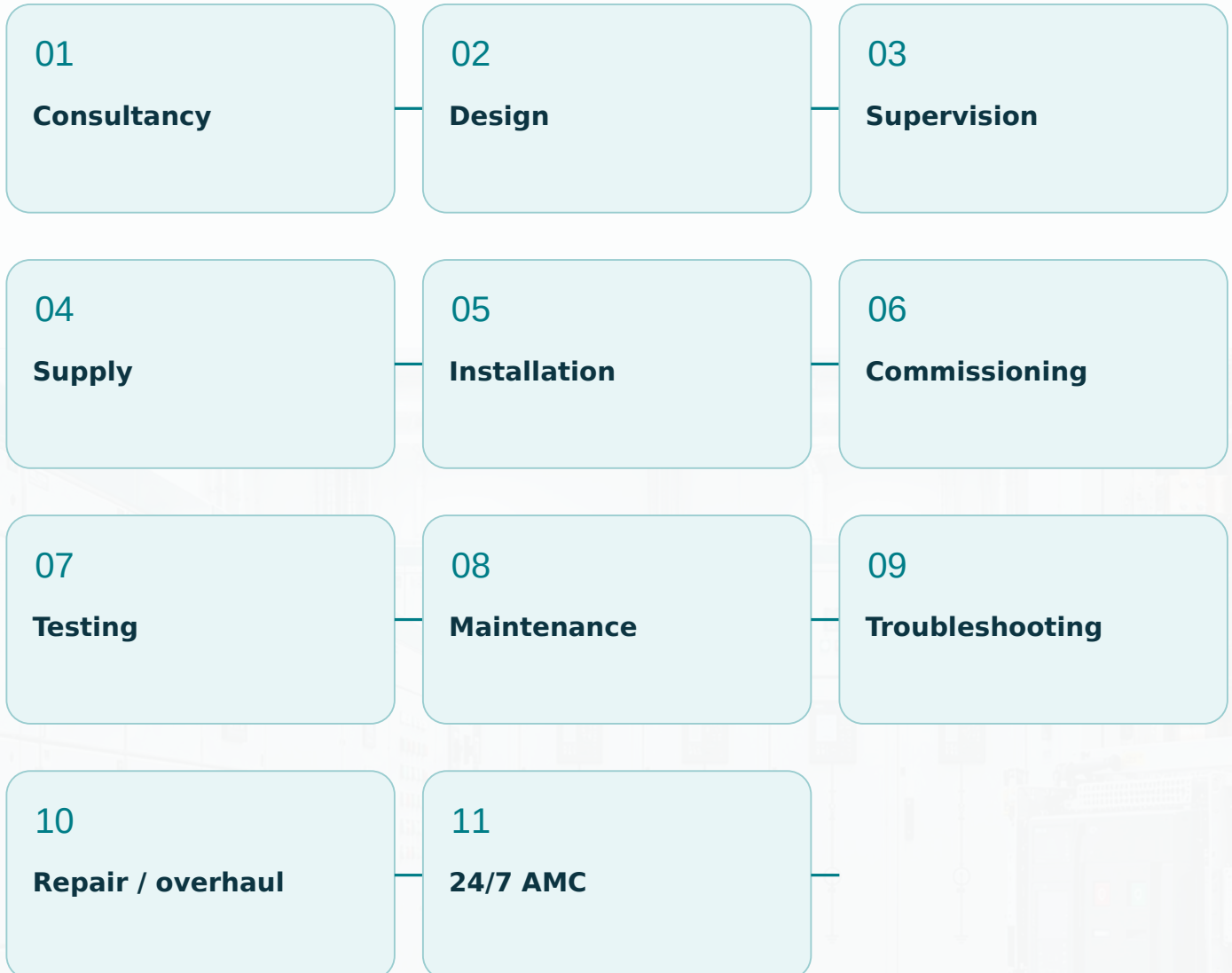
Specialist departments. One coordinated capability.



Specialist disciplines connected through one customer interface. Each proposal defines discipline responsibilities, equipment coverage and delivery records.

A complete lifecycle service

A clear scope from the first enquiry to operating support

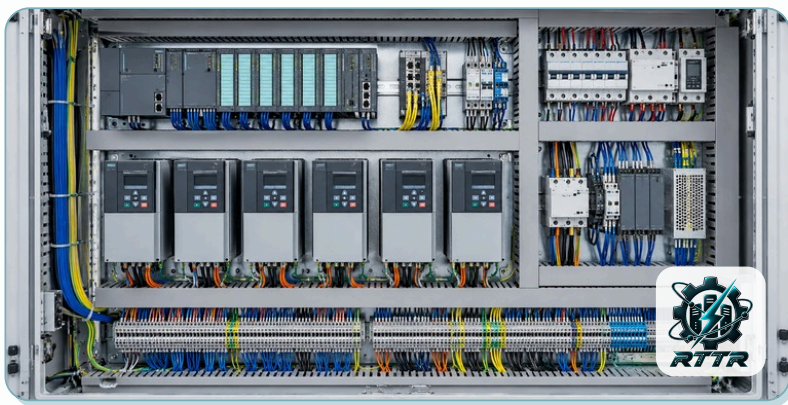


From requirement to operation

Define the assets, equipment and acceptance criteria first. Engineering, work packages, testing and handover stay connected through a clear scope. Preventive maintenance, repair and 24/7 AMC are tied to agreed coverage, response arrangements, parts and responsibilities.

RTTR Engineering Group

Built on engineering. Present in Oman.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

RTTR Engineering Group traces its engineering roots to 1998, beginning with electrical panel manufacturing and growing into a multidisciplinary engineering organization. Our work connects consultancy, design, procurement, installation, testing, commissioning and long-term technical support. Oman operations were established in 2018, with Muscat as the base for local client coordination and service delivery.

Electrical infrastructure is a core part of that capability. We support customers who need dependable power for factories, commercial buildings, critical facilities, data centers and other demanding operating environments. The service can begin with one replacement device, a planned shutdown or a complete new switchboard, and can extend to ongoing maintenance of the facility.

Key capability

1998 - Engineering roots. Practical experience developed from electrical panel manufacturing into wider engineering and infrastructure services.

2018 - Oman presence. Local coordination in Muscat for surveys, customer requirements, procurement, implementation and lifecycle support.

130+ - Data center experience. The group's wider mission-critical experience informs its approach to power continuity, testing and coordinated system interfaces.

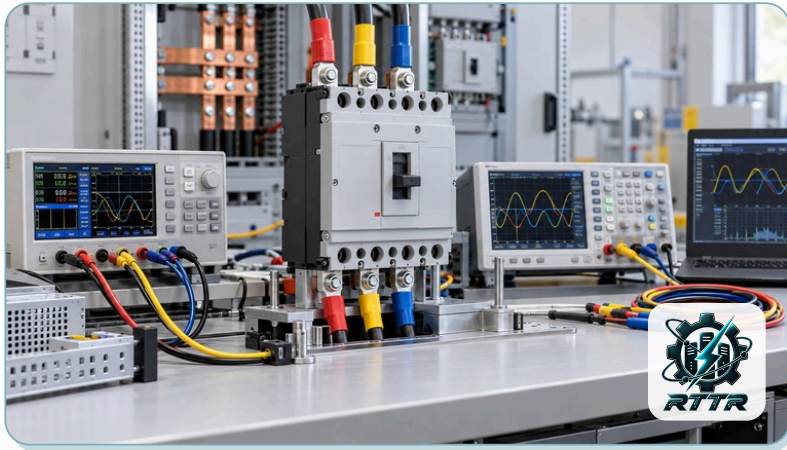
One connected delivery route. Design decisions, purchased equipment, installation records, commissioning results and maintenance requirements stay connected.

Client value

Customers receive an accountable local engineering interface backed by multidisciplinary technical resources.

Vision, mission & technical team

Engineering with responsibility and long-term value.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

Our vision is to be a trusted regional leader in mission-critical power and data center infrastructure, delivering high-reliability electrical systems and integrated engineering solutions that support the digital and energy transformation of the Middle East.

Our mission is to design, manufacture and deliver high-quality electrical systems, data center infrastructure and turnkey engineering solutions with a strong focus on reliability, safety, efficiency, responsibility and customer satisfaction. Our technical team includes certified and professionally accredited specialists, with disciplines coordinated according to each project's needs.

Key capability

Certified technical expertise. RTTR's wider engineering resources include PMP-certified personnel and professionals holding Uptime Institute credentials for relevant data center work.

Electrical competence matched to the task. Inspection, switching, test procedures and repair activities are assigned to personnel with the appropriate experience and equipment-specific knowledge.

Structured quality controls. Approved technical submissions, inspection plans, calibration records, test sheets and defect closure support traceable acceptance.

Knowledge transfer. Operating instructions, maintenance guidance and practical familiarization help the customer manage the installed equipment.

Client value

Individual credentials support the relevant professional scope. Manufacturer certification and product compliance are established through the applicable equipment documentation.

One engineering group

Connected departments, coordinated interfaces.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

RTTR brings together engineering disciplines that frequently meet at the same facility. An electrical upgrade can affect cooling, controls, security, IT loads, fire systems and operating procedures. Our departments coordinate those interfaces so the project remains technically coherent from the first requirement to handover.

Projects can be delivered through a focused electrical scope or a broader multidisciplinary engagement. The final responsibility matrix is agreed with the customer, particularly where specialist partners, equipment manufacturers, contractors and facility operators share delivery duties.

Key capability

Data center & consultancy. Feasibility, design, technical review, procurement support, commissioning and lifecycle operation.

HD Hyundai Electric & power. Product selection, supply coordination, electrical equipment services, LV/MV panels and facility maintenance.

Power, energy & EPC. Electrical infrastructure, renewable energy, earthing, lightning protection, cathodic protection and project delivery.

ICT, security & smart systems. Structured cabling, CCTV, access control, smart systems, BMS/DCIM integration and applications.

Mechanical & marine services. Cooling, HVAC, MEP, industrial interfaces and telecom/marine engineering support.

Training & applications. Technical training, operating guidance and practical tools for engineering and facility teams.

Client value

A coordinated engineering approach reduces unresolved interfaces between the electrical package and the rest of the facility.

Official representation. Local support.

HD Hyundai Electric - Authorized Representative in Oman.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

RTTR Engineering Group is an authorized representative of HD Hyundai Electric in the Sultanate of Oman. We provide customers with a local route for product enquiries, technical selection, quotation coordination and supply, supported by our engineering and after-sales capabilities.

We coordinate requirements across the HD Hyundai Electric electrical equipment portfolio, from protection and switching devices to switchgear and wider power equipment. Each enquiry is matched to the actual model, technical requirements, manufacturer availability and applicable supply arrangements. Our engineering services also cover inspection, troubleshooting, overhaul, maintenance, installation and commissioning.

Key capability

Supply with a technical basis. Catalogue selection is checked against the equipment duty, system voltage, fault level, control interfaces and installation conditions.

Local engineering coordination. Site surveys and technical clarification connect the customer's operational need with the proposed product and service scope.

Repair and maintenance services. RTTR provides equipment assessment and practical repair planning, with manufacturer documentation and specialist support used where required.

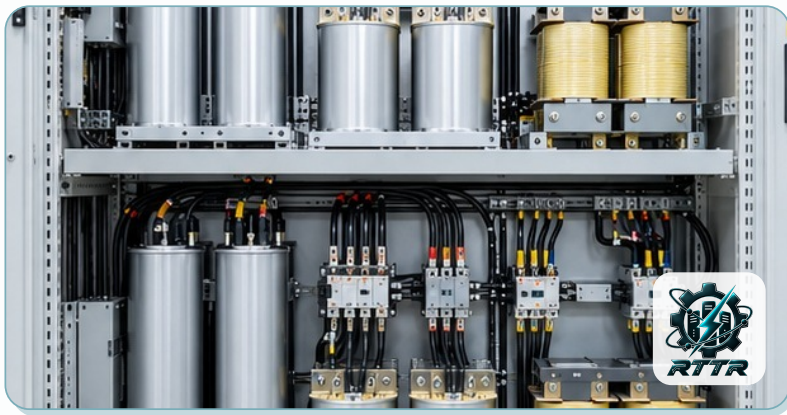
Clear product and service boundaries. The quotation identifies the equipment, repair scope, spare parts, tests, exclusions, responsibilities and acceptance criteria.

Client value

Official representation is a commercial relationship; RTTR's repair and engineering services are described separately from manufacturer product certification.

Electrical equipment portfolio

From the protective device to the complete power system.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

Our supply capability is organized around the customer's electrical system rather than an isolated part number. We can coordinate enquiries for HD Hyundai Electric protection devices, contactors, relays, low- and medium-voltage switchgear, transformers, motors and related power equipment, then define the applicable technical and commercial route for each item.

The product families below are supported by HD Hyundai Electric's published portfolio and the catalogue resources linked at the end of this profile. Exact ratings, dimensions, certifications, accessories and availability must come from the selected product's current documentation.

Key capability

LV protection & isolation. Air circuit breakers, molded-case breakers, miniature protection, residual-current devices and switch-disconnectors.

Control & motor protection. Magnetic contactors, overload relays, motor-control devices, auxiliary contacts and coordinated starter arrangements.

DC power applications. DC-rated ACBs, MCCBs, switch-disconnectors and miniature devices for the applicable DC system configuration.

LV & MV switchgear. Distribution boards, motor control centers and medium-voltage equipment with the agreed protection and control interfaces.

Wider power equipment. Transformer, motor, generator, gas-insulated switchgear and other portfolio enquiries are coordinated according to project requirements and the applicable manufacturer offering.

Client value

Selection begins with system duty and installation compatibility, followed by the relevant catalogue and manufacturer confirmation.

Power circuit breakers

ACB and MCCB selection, replacement and support.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

Catalogue example: HGN DC ACB

Power circuit breakers protect incoming supplies, bus couplers, distribution feeders and large loads. RTTR supports HD Hyundai Electric ACB and MCCB enquiries, inspection and replacement planning by reviewing the installed equipment and the required protective duty. Frame rating alone is insufficient to establish a suitable replacement.

For a legacy unit, the survey includes the nameplate, fixed or withdrawable arrangement, pole configuration, cradle, terminals, control voltage, trip unit and mechanical interfaces. A replacement recommendation connects the electrical rating with the physical fit and the facility's shutdown requirements.

Key capability

Protection duty. Review rated current, voltage, frequency, breaking capacity, short-time duty and coordination with upstream and downstream protection.

Mechanical fit. Check envelope, terminal spacing, racking arrangement, cradle compatibility, interlocks and access for maintenance.

Control interfaces. Confirm closing/tripping coils, auxiliary contacts, spring charging, signalling and remote-operation requirements.

Replacement acceptance. Agree functional checks, appropriate electrical tests, protection-setting review and records before returning the circuit to service.

Client value

Comparison matrix; model recommendation; approved data sheets; accessory schedule; installation method; test and commissioning records.

Miniature & residual-current protection

Coordinated protection for final circuits and distribution.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

Catalogue example: HGD miniature breaker

HD Hyundai Electric miniature and modular devices support building and industrial distribution applications. The supplied catalogue resources include HGD and HiBD miniature protection, HRC/HiRC residual-current devices, switch-disconnectors and associated product families. Selection is made from the actual catalogue edition for the chosen series.

RTTR checks the circuit duty, fault level, load characteristics, enclosure arrangement and coordination requirements before proposing a device. The final selection also considers neutral treatment, the applicable residual-current protection function and how the device will be installed and maintained.

Key capability

MCB selection. Match current rating, trip characteristics, number of poles, voltage and short-circuit capability to the circuit.

Residual-current protection. Review the required function, sensitivity, device type and discrimination with other protective devices.

Isolation & modular accessories. Identify switch-disconnectors, auxiliary devices, busbar systems and installation accessories relevant to the selected range.

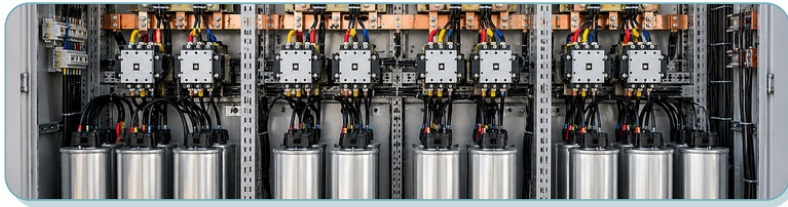
Distribution-board integration. Check spacing, termination, heat dissipation, labelling and the board's overall protective arrangement.

Client value

Device schedule; coordinated circuit selection; catalogue references; distribution-board layout inputs; installation and functional-check records.

Contactors, relays & motor control

Reliable starting and control of industrial loads.



SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

Catalogue example: UL HG-MC contactor

Magnetic contactors and overload relays are central to motor-control systems and other frequently switched loads. The downloaded UL product resource is titled UL HG-MC and covers magnetic contactors and thermal overload relays. RTTR uses the applicable manufacturer data to match the device with the actual load and control scheme.

Our service includes supply coordination, starter assessment, replacement planning and fault investigation. A failed contactor may be the result of a wider issue such as coil voltage, a loose connection, excessive switching, overload or an unsuitable control sequence; replacing the device without finding that cause can leave the problem unresolved.

Key capability

Application selection. Review motor duty, utilization category, operating frequency, coil supply and the required contact arrangement.

Protection coordination. Check overload selection and the relationship between the starter and short-circuit protective device.

Control-system review. Inspect interlocks, auxiliary contacts, start/stop circuits, remote commands and feedback signals.

Testing & restoration. Verify mechanical operation, control voltage, contact condition and the approved sequence before release.

Client value

Starter/device schedule; control schematic review; defect diagnosis; replacement list; functional-test sheets and maintenance recommendations.

MV switchgear & protection

A coordinated medium-voltage system, not a standalone panel.

RTTR supports the design, supply coordination, installation and commissioning of medium-voltage panels and associated equipment. The project definition includes the incoming system, load duties, protection philosophy, interfaces and the environmental conditions of the electrical room.

The work may involve a new installation, a facility extension or an upgrade to existing switchgear. Surveys establish how new equipment connects to the existing system and how the planned work will be isolated, tested and accepted. Switching arrangements and energization are coordinated with the customer and the relevant operating authority.

Key capability

System definition. Establish voltage class, fault duty, busbar arrangement, feeder configuration and the required operating philosophy.

Protection & control. Coordinate relay functions, CT/VT data, trip circuits, interlocks, signals and interface requirements.

Installation engineering. Review room access, cable entries, clearances, earthing, foundations and equipment handling.

Acceptance planning. Define applicable inspection, electrical tests, relay verification, interlock checks and energization prerequisites.

Client value

Approved technical schedule; SLDs; protection/control drawings; layout and installation details; test plans; as-built records and handover documents.

SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

01 **Design**

02 **Supply**

03 **Commissioning**

04 **Support**

Wider power equipment

Transformers, motors, generators and wider power equipment.

HD Hyundai Electric publishes a broad power-equipment portfolio that includes transformers, gas-insulated switchgear, MV/LV switchgear, motors and generators. RTTR provides a local engineering and enquiry route for customers who need those product families, alongside the protective and control devices required to connect them into the facility.

The enquiry is developed around the operating duty, installation environment and project interfaces. Where the equipment requires specialist manufacturer involvement, the technical submission and service responsibilities are coordinated with the relevant resources. No catalogue title alone establishes suitability for the customer's particular application.

Key capability

Transformer enquiries. Define type, capacity, voltage ratio, impedance, cooling, installation environment and the required supporting documentation.

Motor enquiries. Review output, voltage, frequency, speed, starting method, enclosure, duty and process interface.

Transmission & generation enquiries. Coordinate gas-insulated switchgear, generator and wider power-equipment requirements with the applicable manufacturer product and project resources.

System interfaces. Connect equipment selection to protection, starting, cabling, earthing, controls and the available room arrangement.

Lifecycle requirements. Address installation, commissioning, recommended spares, maintenance access and manufacturer support arrangements.

Client value

Enquiry data sheet; manufacturer coordination; technical/commercial comparison; interface schedule and agreed installation/support scope.

SERVICES AT A GLANCE

- 01 Key capability
- 02 Client value

01 Design

02 Supply

03 Commissioning

04 Support

Supply, selection & spare parts

A documented route from requirement to delivery.

RTTR supports equipment procurement by turning a customer enquiry into a technically defined purchase. We review the application, existing equipment where relevant, required accessories and the documents needed for customer approval. This reduces the risk of purchasing a part that has the correct rating but cannot perform the required function or fit the installation.

Spare-part requirements are linked to the equipment model and condition. A repair assessment can separate items that are reusable, serviceable, replaceable or obsolete, allowing the customer to choose a practical route before committing to a complete replacement.

Service scope

Capture the requirement. Obtain nameplates, photographs, ratings, drawings, fault history and installation dimensions.

Resolve technical queries. Clarify model variants, interfaces, accessories, certificates, testing and the acceptance basis.

Control procurement. Coordinate quotation, approval, manufacturer information, lead time, delivery and incoming inspection.

Plan operational spares. Prioritize critical parts by failure consequence, availability, installed quantity and maintenance strategy.

Typical deliverables

Technical selection sheet; approved equipment list; quotation scope; spare-parts recommendation; delivery documents and incoming-inspection record.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 Design

02 Supply

03 Commissioning

04 Support

Equipment troubleshooting & repair

Find the cause, define the repair and verify the result.

RTTR provides troubleshooting and repair services for Hyundai electrical equipment and related electrical-system interfaces. The process begins with the reported symptom and operating history, followed by a controlled inspection and the tests appropriate to the equipment condition.

We distinguish the failed component from the conditions that caused the failure. Control voltage, overload, poor termination, contamination, worn mechanisms, incorrect settings or a damaged interlock can require different corrective actions. The repair plan identifies what can be restored, which parts are needed and how the restored equipment will be accepted.

Service scope

Condition & fault assessment. Record the symptom, evidence, operating history and immediate effect on facility operation.

Targeted diagnosis. Investigate mechanical, insulation, control, protection and connection issues using suitable test methods.

Repair planning. Define replacement parts, workshop/site work, specialist support, shutdown requirements and the test sequence.

Verified restoration. Complete the agreed tests, document findings and confirm that outstanding defects and restrictions are understood.

Typical deliverables

Fault report; repair recommendation; parts list; service record; before/after findings; acceptance tests and follow-up actions.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 Design

02 Supply

03 Commissioning

04 Support

Circuit-breaker overhaul

Structured servicing of ACB mechanisms and interfaces.

A circuit-breaker overhaul can restore a serviceable unit when its condition and parts availability support that route. RTTR assesses the breaker, its history and the manufacturer information before defining the extent of disassembly, cleaning, inspection, replacement and testing.

For legacy equipment, repairability is established first. Obsolete parts, damaged primary components, an unsupported trip unit or unacceptable mechanical wear can make replacement more appropriate. The customer receives that recommendation before the overhaul is treated as a guaranteed solution.

Service scope

Mechanical service. Inspect operating mechanisms, springs, latches, racking and interlocks; clean, adjust and lubricate where permitted by manufacturer guidance.

Electrical interfaces. Inspect main contacts, auxiliary contacts, coils, terminals and control wiring; identify defective or worn components.

Repair & reassembly. Replace approved parts, restore the correct assembly and record settings and mechanical adjustments.

Acceptance tests. Agree contact resistance, insulation resistance, mechanical operation, closing/tripping checks and applicable protection testing.

Typical deliverables

Initial assessment; overhaul scope; replaced-parts register; measured results; functional-test records and return-to-service recommendation.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 Design

02 Supply

03 Commissioning

04 Support

Switchboard overhaul & servicing

Restore panel condition, connections and operating confidence.

RTTR provides overhaul, troubleshooting and servicing of electrical switchboards. The work considers the complete assembly: busbars, connections, breakers, control circuits, metering, indicators, enclosure condition, earthing, cable terminations and the operating environment.

The service can be carried out during a planned factory shutdown or as a defined remedial package. Work is prioritized according to safety, failure risk and production impact, with checks for defects that may not be visible during normal operation. All remedial modifications are reviewed for their effect on the assembly and its protective arrangement.

Service scope

Condition inspection. Check contamination, corrosion, overheating evidence, damaged insulation, loose fixings and mechanical deterioration.

Connection & component service. Inspect accessible connections, terminations and devices; perform tightening or servicing according to the relevant procedure.

Controls & indications. Verify control wiring, meters, lamps, auxiliary supplies, alarms and intended interlocks.

Records & follow-up. Document defects, work completed, test results and items requiring further design or replacement action.

Typical deliverables

Panel-condition report; defect priorities; shutdown/service method; component list; test sheets; marked-up drawings and follow-up recommendations.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 Design

02 Supply

03 Commissioning

04 Support

Factory electrical maintenance

Protect production through disciplined asset care.

RTTR provides repair and maintenance of factory electrical installations and power-distribution systems. The scope can cover incoming supplies, distribution panels, motor-control equipment, cables, earthing, controls and the electrical interfaces serving the production process.

The maintenance plan is shaped around the customer's operating constraints. Critical loads, shutdown windows, asset condition, spare-part availability and the effect of a failure are assessed together. Planned maintenance, condition assessment and corrective work are connected through one asset and defect record.

Service scope

Asset baseline. Establish equipment identification, criticality, drawings, operating history and the initial condition.

Planned maintenance. Develop inspections and service tasks around manufacturer guidance, environment and asset duty.

Corrective work. Diagnose defects, prepare repair scopes, coordinate approved parts and schedule access to minimize disruption.

Operational coordination. Agree shutdown planning, isolation, production interfaces, permits and restoration responsibilities.

Typical deliverables

Electrical asset register; maintenance schedule; inspection forms; defect/action log; service reports and recommended repair or upgrade packages.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 **Design**

02 **Supply**

03 **Commissioning**

04 **Support**

24/7 electrical AMC & support

Continuous support built around an agreed service scope.

RTTR offers 24/7 maintenance and technical support arrangements for electrical installations and switchboards. The service can combine planned preventive maintenance with callout coordination, fault assessment, corrective works and operational reporting.

The agreement defines the assets, coverage, communication route, attendance arrangements, response targets, spare-parts responsibilities and escalation process. Support is organized around the facility's critical equipment and operating needs; the customer receives a clear service model rather than an undefined promise of unrestricted repair.

Service scope

Planned coverage. Map the supported assets, maintenance tasks, intervals and records required by the customer.

Incident coordination. Establish the contact route, technical triage, escalation and site-access arrangements for urgent events.

Corrective maintenance. Record faults and recurring issues, agree repair actions and track defects through closure.

Performance reporting. Summarize completed work, open risks, component condition, recommended spares and upcoming shutdown requirements.

Typical deliverables

AMC scope matrix; service-level arrangements; PPM calendar; callout and incident records; monthly reports and an improvement/action register.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 **Design**

02 **Supply**

03 **Commissioning**

04 **Support**

LV panels: design to commissioning

A complete delivery route for low-voltage assemblies.

RTTR designs, supplies, installs and commissions low-voltage electrical panels for industrial, commercial and critical-facility applications. The work can include main distribution, sub-distribution, motor-control and project-specific control panels, with Hyundai devices selected where appropriate to the approved design.

The engineering basis connects load demand, fault duty, protection, busbar capacity, environmental conditions and maintainability. Assembly configuration, internal separation, access, cable termination and heat dissipation are defined before procurement and fabrication proceed. Applicable assembly verification and project acceptance requirements are agreed with the customer.

Service scope

Design engineering. Develop SLDs, load/device schedules, protection and control schemes, GA drawings and termination details.

Equipment & fabrication. Approve component selections, enclosure arrangement, busbar system, labelling and fabrication/inspection plans.

Installation. Coordinate transport, positioning, earthing, incoming/outgoing cables, access and interface verification.

Testing & handover. Complete agreed factory/site checks, functional verification, settings review, drawings and operating documentation.

Typical deliverables

Design package; BOQ; approved technical submissions; assembly inspection/verification records; FAT/SAT results; as-built drawings and manuals.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 **Design**

02 **Supply**

03 **Commissioning**

04 **Support**

MV panels: coordinated project delivery

Medium-voltage design, supply, installation and start-up.

RTTR provides a connected engineering scope for medium-voltage switchboard projects. We develop the design basis with the customer, coordinate equipment supply and installation, and plan the testing and energization route required for the facility.

Medium-voltage work depends on disciplined interfaces. The switchgear configuration, feeder duties, protection functions, cable arrangement, earthing and control scheme must be consistent with the incoming system and the downstream loads. The operating authority and customer's facility team are involved in the approval and energization process.

Service scope

Define the system. Confirm system data, incoming supply, bus arrangement, feeder duties and future extension requirements.

Engineer the interfaces. Coordinate relay data, CT/VT ratios, trip supplies, signals, cable terminations and earthing provisions.

Install with control. Review approved layouts, handling/access, alignment, cable works, quality inspections and interface completion.

Commission for operation. Complete agreed tests and protection/interlock verification, close defects and obtain the required release for energization.

Typical deliverables

Design basis; SLD and control drawings; approved equipment schedules; installation records; test reports; settings documentation and operator handover.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

01 Design

02 Supply

03 Commissioning

04 Support

Electrical testing & commissioning

Prove the installation before operational release.

RTTR develops electrical test and commissioning scopes that connect the approved design with the actual installed condition. The objective is to demonstrate the required equipment functions and system interfaces, document defects and establish a clear basis for handover.

Testing is selected according to equipment type, condition, manufacturer instructions and project requirements. Not every test is appropriate for every connected assembly or electronic device. The method defines isolation, connected-equipment precautions, calibrated instruments, acceptance criteria and the parties witnessing the work.

Service scope

Pre-test readiness. Confirm approved drawings, completed installation, identified circuits, permits and the agreed method.

Electrical checks. Apply relevant insulation, continuity, contact-resistance, phase and earthing checks within the approved scope.

Functional verification. Test closing/tripping, interlocks, control supplies, alarms, indications and protection functions as applicable.

Controlled acceptance. Record results, close defects and connect the signed evidence with the customer's energization/handover decision.

Typical deliverables

Commissioning plan; test procedures; calibration register; measured results; witnessed functional checks; defect closure and signed handover records.

SERVICES AT A GLANCE

- 01 Service scope
- 02 Typical deliverables

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Retrofit, replacement & obsolescence

Upgrade the asset without losing its system interfaces.

RTTR supports replacement planning for ageing Hyundai equipment and legacy switchboards. The assessment identifies whether the existing unit can be repaired, whether parts remain available and how a replacement would connect to the installed mechanical and electrical arrangement.

A different make or a newer frame is not automatically a drop-in substitute. Where an alternative product is proposed, the customer receives a compatibility review covering terminals, clearances, controls, interlocks, protection and the assembly's operating constraints. The delivery plan includes shutdown sequencing and restoration tests.

Service scope

Survey the existing arrangement. Collect nameplates, dimensions, cradle/terminal details, schematics, duty and maintenance history.

Compare options. Review overhaul, direct replacement or engineered retrofit, including availability and lifecycle implications.

Control modifications. Approve changes to busbars, cable connections, controls and panel arrangement before work.

Plan the changeover. Define outage needs, temporary operating arrangements, tests, defect closure and the final documentation update.

Typical deliverables

Condition survey; compatibility matrix; proposed replacement/retrofit scope; installation drawings; shutdown method and acceptance records.

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From enquiry to dependable operation

A practical delivery method with clear decisions.

Our delivery route is structured around progressive technical clarity. The customer can engage RTTR for equipment supply, a repair package, a complete panel project or ongoing electrical maintenance. Each route has an agreed scope, responsibilities and acceptance evidence.

The process keeps commercial commitments connected to the actual technical requirement. Site information, product documentation, approved drawings, inspection records and test results are retained through the handover so future service work has a reliable starting point.

Service scope

01 - Survey & define. Understand the assets, load duties, faults, operational constraints and the requested outcome.

02 - Engineer & propose. Develop the technical route, equipment/parts selection, work scope and delivery/maintenance model.

03 - Approve & prepare. Resolve submissions, procurement, access, permits, shutdown planning and inspection/test procedures.

04 - Deliver & verify. Supply equipment, complete installation/repair, inspect workmanship and perform approved tests.

05 - Handover & support. Provide signed records, updated drawings, operating guidance, recommended spares and agreed ongoing support.

Typical deliverables

One accountable local interface connects technical definition, delivery, documented acceptance and lifecycle support.

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Official catalogue library

Direct links to the seven resources already listed on RTTR's website

01 | Miniature Series Protection, isolation, residual-current devices and accessories • [Open catalogue PDF ↗](#)

02 | HD Hyundai Electric Prequalification Statement Company background, manufacturing, quality and certifications • [Open catalogue PDF ↗](#)

03 | DC Distribution Devices HGN DC, HGP DC and HGD DC protection and isolation • [Open catalogue PDF ↗](#)

04 | HiMCC - LV Switchgear & Motor Control Center Assembly construction, modules, technical data and room planning • [Open catalogue PDF ↗](#)

05 | Miniature Circuit Breaker - HGD / HRC / HSD Concise product and application overview • [Open catalogue PDF ↗](#)

06 | HG Modular Devices MCB, MSD, RCCB, RCBO, motor control, SPD, fuses and distribution boxes • [Open catalogue PDF ↗](#)

07 | UL HG-MC - Contactors & Overload Relays Magnetic contactors and thermal overload relays • [Open catalogue PDF ↗](#)

Manufacturer download center: current catalogues, manuals, certificates and drawings

The linked documents were reviewed for this profile. Product names follow the downloaded files; the seventh file is titled UL HG-MC. Current model documentation and manufacturer confirmation govern final selection. External catalogue links remain subject to the source website's availability.

Official product references

[Miniature Series](#)

[Prequalification Statement](#)

[DC Distribution Devices](#)

[HiMCC LV Switchgear](#)

[MCB 8 pages](#)

SERVICES AT A GLANCE

01 [Open catalogue PDF ↗](#)

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Official catalogue library

Direct links to the seven resources already listed on RTTR's website | continued

[MCB 210 pages](#)

[UL HG / MS](#)



Let's define your requirement

One local interface for supply, electrical services and ongoing support

Send RTTR the information available for your equipment or facility. We can arrange a survey where needed, clarify the technical scope and propose a supply, repair, project-delivery or maintenance route.

For equipment supply. Provide nameplate photographs, model, quantity, voltage/current, pole configuration, accessories and the required delivery location.

For a repair or overhaul. Include the fault description, service history, equipment condition, drawings and available shutdown window.

For LV / MV panel projects. Send the SLD, load schedule, system fault data, room arrangement, control requirements and project programme.

For 24/7 maintenance. Share the asset list, critical loads, site location, current condition and requested coverage or service-level requirements.

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[Website & contact form ↗](#)

[Email RTTR ↗](#)

Scope and commercial terms are defined in the project quotation or service agreement. Manufacturer imagery and catalogue resources remain the property of their respective owners. Engineering scenes are conceptual illustrations created for this RTTR profile. Published company information, user-approved service scope and the linked technical resources form the basis of this document.

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- 03** Commissioning & testing
- 04** Maintenance & support

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