

INTEGRATED ENGINEERING FOR CRITICAL INFRASTRUCTURE



RTTR ENGINEERING GROUP

COMPANY CATALOGUE & PROJECT PORTFOLIO



Data Center • HD Hyundai Electric • EPC Services

Power & Energy | ICT, Security & Smart Systems | Mechanical | Solar | Earthing & Cathodic | EPC services | Marine Services



COMPANY PROFILE

One accountable engineering partner

RTTR delivers integrated engineering, procurement, construction, commissioning and lifecycle support for mission-critical and industrial infrastructure.



Our work combines multidisciplinary engineering with practical site delivery. From early studies and detailed design to equipment supply, installation, testing, commissioning and maintenance, RTTR gives clients one clear technical interface throughout the asset lifecycle.

DESIGN

Concept to detailed engineering

SUPPLY

Approved equipment and systems

EXECUTION

Installation and integration

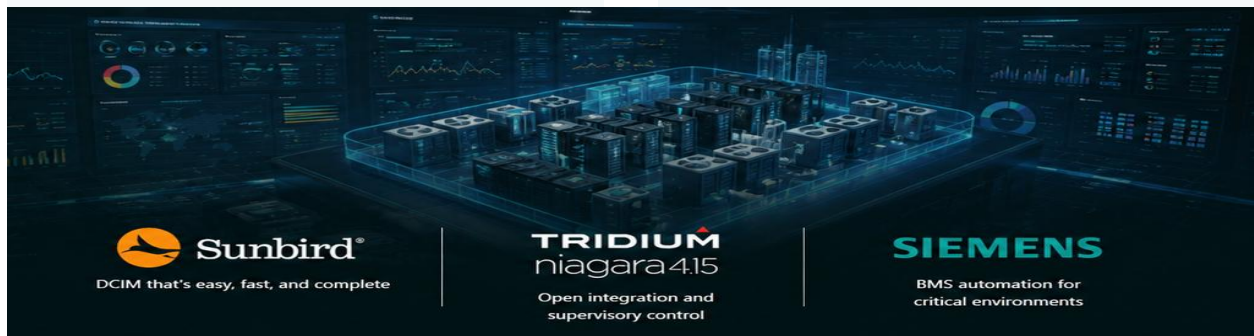
LIFECYCLE

Commissioning and maintenance

OUR CORE PORTFOLIO

Three connected business pillars

- Data Center Solutions
- HD Hyundai Electric solutions and equipment
- EPC Services: Power & Energy
- EPC Services: ICT, Security & Smart Systems
- EPC Services: Mechanical
- EPC Services: Marine



CORE 01

Data Center Solutions

End-to-end consulting and delivery for resilient, efficient and maintainable data center infrastructure.



- Feasibility studies, audits and technical advisory
- Concept, basic and detailed multidisciplinary design
- Tier-readiness and standards-based reviews
- Electrical power, UPS, generator and distribution systems
- Cooling, CFD analysis and thermal optimization

- RFP/RFQ preparation, procurement and vendor coordination
- Turnkey implementation, testing and commissioning
- DCIM, BMS, EMS, monitoring and dashboards
- Project management, supervision and quality control
- Preventive maintenance, troubleshooting and 24/7 support

Built for reliability

Our approach connects availability objectives, redundancy architecture, maintainability, energy performance and operational readiness—so the finished facility works as one coordinated system.



DATA CENTER SERVICE

Consulting & Feasibility

Independent technical guidance for defining requirements, risks, capacity and the most suitable delivery strategy.



Our service

Independent technical guidance for defining requirements, risks, capacity and the most suitable delivery strategy. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|---|
| <ul style="list-style-type: none">• Business and technical requirements• Site and utility assessment | <ul style="list-style-type: none">• Capacity and growth planning• Risk and compliance review |
|---|---|

Typical deliverables

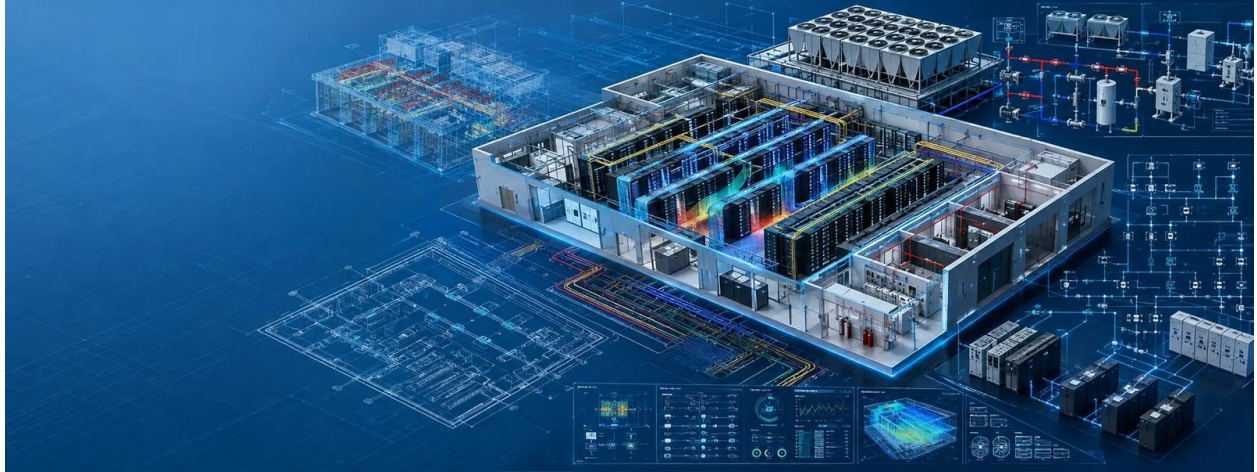
• Feasibility report • Concept options	• Budget framework • Implementation roadmap		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



DATA CENTER SERVICE

Concept & Detailed Design

Multidisciplinary design that translates availability targets into coordinated electrical, mechanical, ICT and architectural systems.



Our service

Multidisciplinary design that translates availability targets into coordinated electrical, mechanical, ICT and architectural systems. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|--|
| <ul style="list-style-type: none"> • Basis of design • Single-line diagrams | <ul style="list-style-type: none"> • Cooling and airflow strategy • Layouts and interface coordination |
|---|--|

Typical deliverables

- | | |
|---|---|
| <ul style="list-style-type: none"> • Design drawings • Calculations and schedules | <ul style="list-style-type: none"> • Equipment specifications • Issued-for-construction package |
|---|---|

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



DATA CENTER SERVICE

Uptime Design Audit

Structured review of topology, redundancy, maintainability and operational risks against project availability objectives.



Our service

Structured review of topology, redundancy, maintainability and operational risks against project availability objectives. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|--|--|
| <ul style="list-style-type: none"> • Topology review • Concurrent-maintainability checks | <ul style="list-style-type: none"> • Failure-mode review • Design-gap workshop |
|--|--|

Typical deliverables

- | | |
|---|--|
| <ul style="list-style-type: none"> • Audit register • Risk priorities | <ul style="list-style-type: none"> • Corrective recommendations • Readiness report |
|---|--|

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



DATA CENTER SERVICE

RFP, Specifications & BOQ

Procurement-ready technical documentation that enables clear comparison, compliant bidding and controlled project scope.



Our service

Procurement-ready technical documentation that enables clear comparison, compliant bidding and controlled project scope. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|--|--|
| <ul style="list-style-type: none">• Employer requirements• Technical specifications | <ul style="list-style-type: none">• Bill of quantities• Bid evaluation criteria |
|--|--|

Typical deliverables

• Tender package • Compliance matrix		• Clarification log • Technical evaluation	
DESIGN	SUPPLY	EXECUTION	SUPPORT
Studies and engineering	Equipment and materials	Installation and integration	Commissioning and maintenance



DATA CENTER SERVICE

CFD & Thermal Analysis

Airflow and thermal modelling used to identify hot spots, recirculation, bypass air and available cooling capacity.



Our service

Airflow and thermal modelling used to identify hot spots, recirculation, bypass air and available cooling capacity. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Rack heat-load model
- Supply and return airflow
- Failure and growth scenarios
- Containment assessment

Typical deliverables

- Temperature maps
- Airflow visualization
- Rack inlet report
- Optimization actions

DESIGN

Studies and engineering

SUPPLY

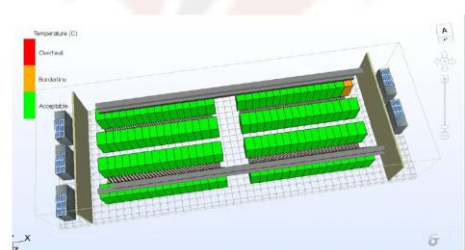
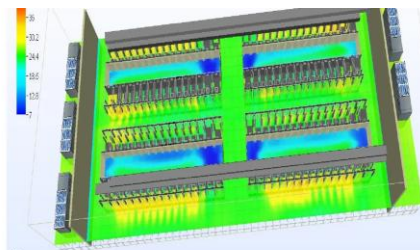
Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



DATA CENTER SERVICE

Supply & Procurement

Vendor-neutral technical selection and coordinated sourcing of mission-critical equipment and materials.



Our service

Vendor-neutral technical selection and coordinated sourcing of mission-critical equipment and materials. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|---|
| <ul style="list-style-type: none">• Approved vendor review• Technical submittals | <ul style="list-style-type: none">• Factory coordination• Logistics planning |
|---|---|

Typical deliverables

- | | |
|---|---|
| <ul style="list-style-type: none">• Procurement schedule• Submittal register | <ul style="list-style-type: none">• Inspection records• Delivery documentation |
|---|---|

DESIGN	SUPPLY	EXECUTION	SUPPORT
Studies and engineering	Equipment and materials	Installation and integration	Commissioning and maintenance



DATA CENTER SERVICE

Turnkey Implementation

Integrated site delivery covering civil interfaces, MEP installation, ICT systems and disciplined project controls.



Our service

Integrated site delivery covering civil interfaces, MEP installation, ICT systems and disciplined project controls. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|--|
| <ul style="list-style-type: none"> • Construction planning • Installation supervision | <ul style="list-style-type: none"> • Interface management • Quality and safety control |
|---|--|

Typical deliverables

- | | |
|---|--|
| <ul style="list-style-type: none"> • Method statements • Inspection records | <ul style="list-style-type: none"> • Progress reporting • As-built package |
|---|--|

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



DATA CENTER SERVICE

Data Center Commissioning

Progressive verification from component checks through integrated systems testing and operational handover.



Our service

Progressive verification from component checks through integrated systems testing and operational handover. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|--|---|
| <ul style="list-style-type: none">• Commissioning plan• Pre-functional checks | <ul style="list-style-type: none">• Functional performance tests• Integrated scenarios |
|--|---|

Typical deliverables

• Test scripts • Defect register	• Commissioning report • Handover records		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



DATA CENTER SERVICE

Data Center Tests

Independent testing of electrical, mechanical, controls and resilience functions under normal and abnormal conditions.



Our service

Independent testing of electrical, mechanical, controls and resilience functions under normal and abnormal conditions. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Load-bank testing
- Protection and transfer tests
- Cooling performance tests
- Alarm and interlock tests

Typical deliverables

- Witness sheets
- Measured results
- Issue closure log
- Acceptance report

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



DATA CENTER SERVICE

Project Management

Technical project leadership connecting scope, programme, budget, quality, interfaces and stakeholder decisions.



Our service

Technical project leadership connecting scope, programme, budget, quality, interfaces and stakeholder decisions. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Planning and controls
- Design coordination
- Site supervision
- Risk and change control

Typical deliverables

- Master programme
- Progress dashboard
- Decision register
- Closeout dossier

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



DATA CENTER SERVICE

24/7 AMC & Operations

Planned and responsive support that protects availability and shortens recovery time throughout operation.



Our service

Planned and responsive support that protects availability and shortens recovery time throughout operation. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|---|
| <ul style="list-style-type: none">• Preventive maintenance• Remote and onsite response | <ul style="list-style-type: none">• Spares and escalation planning• Operational checks |
|---|---|

Typical deliverables

• Maintenance plan • Service reports	• Incident analysis • Performance review		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



DATA CENTER SERVICE

DCIM & BMS

Unified monitoring and control for power, cooling, environmental conditions, capacity and alarms.



Our service

Unified monitoring and control for power, cooling, environmental conditions, capacity and alarms. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|--|---|
| <ul style="list-style-type: none">• Meter and sensor integration• BMS control sequences | <ul style="list-style-type: none">• DCIM asset model• Alarm and dashboard design |
|--|---|

Typical deliverables

- | | |
|---|---|
| <ul style="list-style-type: none">• Points list• Graphics and dashboards | <ul style="list-style-type: none">• Trend reports• Operator training |
|---|---|

DESIGN	SUPPLY	EXECUTION	SUPPORT
Studies and engineering	Equipment and materials	Installation and integration	Commissioning and maintenance



DATA CENTER SERVICE

PUE & Capacity Optimization

Data-driven improvement of energy efficiency, cooling performance and usable infrastructure capacity.



Our service

Data-driven improvement of energy efficiency, cooling performance and usable infrastructure capacity. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|---|
| <ul style="list-style-type: none">• Energy baseline• Capacity review | <ul style="list-style-type: none">• Setpoint optimization• Improvement scenarios |
|---|---|

Typical deliverables

• PUE analysis • Capacity dashboard	• Optimization plan • Verified savings		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



DATA CENTER SERVICE

CCTV & Access Control

Layered physical-security systems for sites, rooms, racks and critical operational areas.



Our service

Layered physical-security systems for sites, rooms, racks and critical operational areas. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Security zoning
- Camera coverage
- Identity and access rules
- Event integration

Typical deliverables

- Security design
- Device schedules
- Test records
- User procedures

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance

Suprema
BIOMETRICS & SECURITY

CHD[®]
by Newabel

Smart Bluetooth Code Hanging Lock

IP66 level, effectively prevent rain and dust

Anti-plug unlock patent technology, effectively prevent illegal unlocking



Bluetooth function



Dynamic password



Nearby awakening



Ultra-low power consumption



CHD2100-J2 Series

Smart access control integrated cabinet lock

Fingerprint/Card Reading/Password/Bluetooth/NFC multi-mode unlock



Anti-plug design



Shock-proof design



Dual lock function



European standard lock core



RTTR ENGINEERING GROUP

www.rtrrco.com | info@rtrrco.com | Sultanate of Oman, Muscat

CORE 02

HD Hyundai Electric

RTTR provides HD Hyundai Electric solutions in Oman, supported by local engineering, selection, integration and after-sales coordination.



- LV and MV power distribution solutions
- Switchgear and motor-control systems
- Protection and control devices
- Power-quality equipment and solutions
- DC distribution devices
- Miniature circuit breakers and molded-case breakers
- HiMCC systems for LV switchgear
- UL HG-MS and related product families

From equipment selection to system integration

RTTR supports specification review, technical selection, supply coordination, project integration, testing requirements and lifecycle support.



EPC SERVICES 01

Power & Energy

Engineering and field delivery for safe, efficient and dependable electrical and renewable-energy systems.



- Electrical engineering for buildings, industry and critical facilities
- LV and MV distribution, switchgear and protection
- Electrical panels, capacitor banks and power quality
- Load studies, short-circuit and protection coordination
- Lighting, energy optimization and technical documentation
- Solar PV, off-grid systems and renewable-energy integration
- Earthing and lightning-protection systems
- Cathodic protection for pipelines, tanks and structures
- Site survey, installation, testing and commissioning
- Preventive and corrective maintenance

ENGINEERING

Studies and design

PROCUREMENT

Equipment and materials

CONSTRUCTION

Site execution

COMMISSIONING

Testing and handover

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www.rtrrco.com | info@rtrrco.com | Sultanate of Oman, Muscat

EPC SERVICES / POWER & ENERGY

Electrical Engineering

Complete LV and MV engineering for buildings, industrial facilities and mission-critical infrastructure.



Our service

Complete LV and MV engineering for buildings, industrial facilities and mission-critical infrastructure. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Load and demand studies
- Distribution and protection design
- Switchgear and panel engineering
- Power-quality assessment

Typical deliverables

- Calculations and SLDs
- Panel schedules
- Specifications and BOQ
- Testing and handover

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



Solar & Renewable Energy

Practical solar and hybrid-energy solutions shaped around the load profile, site conditions and operating strategy.



Our service

Practical solar and hybrid-energy solutions shaped around the load profile, site conditions and operating strategy. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|---|
| <ul style="list-style-type: none">• Grid-connected solar PV• Off-grid and BESS solutions | <ul style="list-style-type: none">• Yield and shading studies• Protection and monitoring |
|---|---|

Typical deliverables

- | | |
|---|---|
| <ul style="list-style-type: none">• Energy model• Array and SLD design | <ul style="list-style-type: none">• Equipment schedules• Commissioning records |
|---|---|
- | | | | |
|--|--|--|---|
| DESIGN
Studies and engineering | SUPPLY
Equipment and materials | EXECUTION
Installation and integration | SUPPORT
Commissioning and maintenance |
|--|--|--|---|



EPC SERVICES / POWER & ENERGY

Earthing & Lightning Protection

Safety-focused earthing, bonding and lightning-protection systems for people, equipment and structures.



Our service

Safety-focused earthing, bonding and lightning-protection systems for people, equipment and structures. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Soil resistivity survey
- Earth-grid design
- Lightning risk assessment
- Bonding and surge protection

Typical deliverables

- Calculations and drawings
- Material schedule
- Test plan
- Resistance test report

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



EPC SERVICES / POWER & ENERGY

Cathodic Protection

Corrosion-control engineering for buried and immersed pipelines, tanks, marine assets and structures.



Our service

Corrosion-control engineering for buried and immersed pipelines, tanks, marine assets and structures. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Corrosion survey
- Sacrificial-anode systems
- Impressed-current systems
- Monitoring and inspection

Typical deliverables

- Design calculations
- Anode layout
- Test-point schedule
- Commissioning report

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



EPC SERVICES 02

ICT, Security & Smart Systems

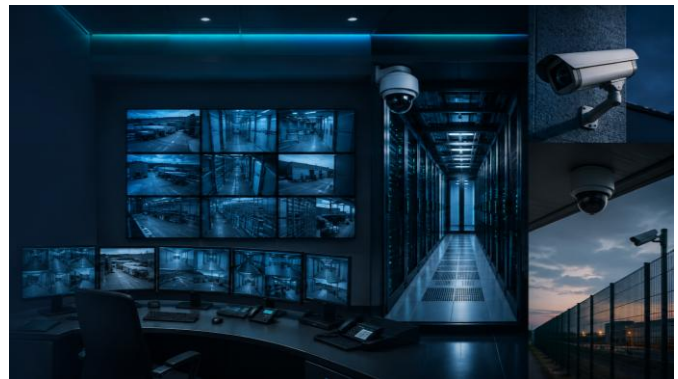
Connected infrastructure, physical security and intelligent control systems designed as one coordinated platform.



- Copper and fiber structured cabling
- Networks, racks, pathways and labeling
- CCTV and video analytics
- Access control and rack security
- Intrusion detection and video intercom
- Smart home, BMS and automation
- EMS, DCIM and operational monitoring
- Custom applications, dashboards and reporting
- System integration and interoperability
- Testing, commissioning, training and support

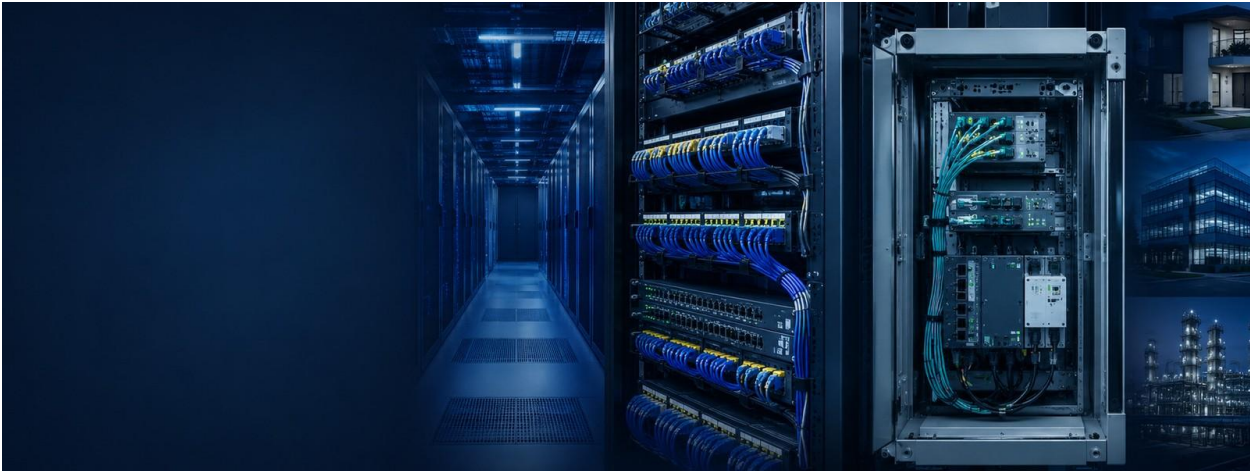
Integrated by design

Power, communications, security, controls and monitoring are coordinated from the start—reducing interfaces and improving operational visibility.



Networks & Structured Cabling

Reliable copper, fiber and network infrastructure planned for performance, resilience and maintainable growth.



Our service

Reliable copper, fiber and network infrastructure planned for performance, resilience and maintainable growth. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Campus and building networks
 - Copper and fiber cabling
- Racks, pathways and labeling
 - Testing and certification

Typical deliverables

- Network architecture
 - Cable schedules
- Test results
 - As-built documentation

DESIGN	SUPPLY	EXECUTION	SUPPORT
Studies and engineering	Equipment and materials	Installation and integration	Commissioning and maintenance



CCTV & Video Analytics

Video surveillance designed around operational risk, image quality, coverage and useful event intelligence.



Our service

Video surveillance designed around operational risk, image quality, coverage and useful event intelligence. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|--|
| <ul style="list-style-type: none">• Camera and lens selection• Coverage and storage design | <ul style="list-style-type: none">• Video analytics• Control-room integration |
|---|--|

Typical deliverables

• Coverage drawings • Device schedule	• Retention calculation • Acceptance testing		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



Access Control & Rack Security

Identity-based protection for sites, rooms and IT racks with traceable events and controlled privileges.



Our service

Identity-based protection for sites, rooms and IT racks with traceable events and controlled privileges. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Access zoning
- Reader and lock selection
- Rack-level security
- Alarm integration

Typical deliverables

- Access matrix
- Door schedules
- Event workflows
- Commissioning records

DESIGN

Studies and engineering

SUPPLY

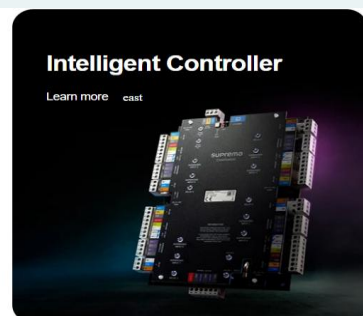
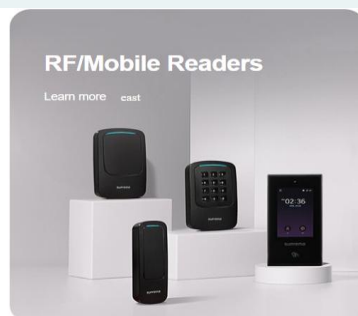
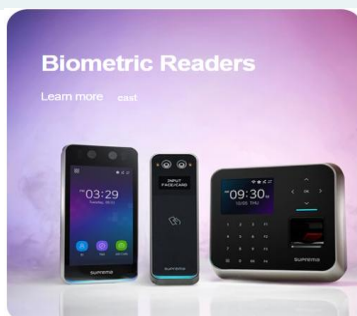
Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



EPC SERVICES / ICT, SECURITY & SMART SYSTEMS

Smart Home, BMS & Automation

Integrated controls that improve comfort, visibility, energy performance and operator response.



Our service

Integrated controls that improve comfort, visibility, energy performance and operator response. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Control philosophy
- Sensors and actuators

- BMS graphics
- Energy monitoring

Typical deliverables

- Points list
- Sequence of operation

- Graphics package
- Operator training

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



Custom Applications & Dashboards

Purpose-built software and dashboards that convert engineering and operational data into clear action.



Our service

Purpose-built software and dashboards that convert engineering and operational data into clear action. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|--|
| <ul style="list-style-type: none">• Requirements analysis• Workflow automation | <ul style="list-style-type: none">• Data integration• Web and mobile dashboards |
|---|--|

Typical deliverables

• Functional specification • Configured application	• User documentation • Support plan		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



EPC SERVICES 03

Mechanical & MEP

Mechanical systems engineered for mission-critical availability, industrial performance and long-term maintainability.



- | | |
|---|---|
| <ul style="list-style-type: none">• HVAC engineering and equipment selection• Precision cooling for critical facilities• Cold rooms and controlled environments• Ventilation and indoor-air systems• Plumbing and drainage services | <ul style="list-style-type: none">• MEP design and multidisciplinary coordination• Cooling-load calculations and optimization• Shop drawings, BIM coordination and as-built documentation• Installation supervision and quality inspection• Testing, balancing, commissioning and maintenance |
|---|---|

RELIABILITY	EFFICIENCY	COORDINATION	SUPPORT
Duty/standby strategies	Energy-aware selection	MEP interfaces	Maintenance and repair



EPC SERVICES / MECHANICAL

HVAC & Precision Cooling

Cooling systems engineered for stable environmental conditions, resilience and efficient operation.



Our service

Cooling systems engineered for stable environmental conditions, resilience and efficient operation. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Cooling-load calculations
- Chillers and DX systems
- CRAC and CRAH solutions
- Controls and redundancy

Typical deliverables

- Design calculations
- Equipment schedules
- Control sequences
- Performance testing

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



EPC SERVICES / MECHANICAL

Cold Rooms

Controlled-temperature spaces designed around product requirements, heat gain, insulation and dependable refrigeration.



Our service

Controlled-temperature spaces designed around product requirements, heat gain, insulation and dependable refrigeration. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|--|---|
| <ul style="list-style-type: none">• Temperature requirements• Envelope and insulation | <ul style="list-style-type: none">• Refrigeration selection• Monitoring and alarms |
|--|---|

Typical deliverables

• Load calculation • Room and piping layouts	• Equipment specification • Commissioning report		
DESIGN	SUPPLY	EXECUTION	SUPPORT
Studies and engineering	Equipment and materials	Installation and integration	Commissioning and maintenance



EPC SERVICES / MECHANICAL

Ventilation & Plumbing

Coordinated air, water and drainage systems for safe, compliant and maintainable facilities.



Our service

Coordinated air, water and drainage systems for safe, compliant and maintainable facilities. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|--|---|
| <ul style="list-style-type: none">• Fresh and exhaust air• Smoke and pressure control | <ul style="list-style-type: none">• Water supply and drainage• Pump and piping systems |
|--|---|

Typical deliverables

- | | |
|---|--|
| <ul style="list-style-type: none">• Calculations and drawings• Equipment schedules | <ul style="list-style-type: none">• Testing records• As-built documentation |
|---|--|

DESIGN	SUPPLY	EXECUTION	SUPPORT
Studies and engineering	Equipment and materials	Installation and integration	Commissioning and maintenance



EPC SERVICES / MECHANICAL

MEP Engineering

Integrated multidisciplinary engineering that resolves interfaces before construction and supports smooth site delivery.



Our service

Integrated multidisciplinary engineering that resolves interfaces before construction and supports smooth site delivery. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Electrical-mechanical coordination
- BIM and clash review
- Builders-work requirements
- Site technical support

Typical deliverables

- Coordinated drawings
- Interface matrix
- Shop-drawing review
- Handover dossier

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



EPC SERVICES 04

Marine Services

Design, supply, installation, commissioning, maintenance and repair for vessels, offshore assets, ports and coastal facilities.



- Marine communication systems
 - GMDSS, radio, satellite and onboard telephony
 - Marine navigation and bridge systems
 - Radar, AIS, ECDIS and voyage data solutions
 - E-navigation and digital-voyage solutions
- Marine automation and vessel management systems
 - Alarm, safety, fire and gas monitoring
 - Engine, propulsion and auxiliary-system support
 - Vessel Traffic Management Systems (VTS)
 - Port and coastal traffic-surveillance integration

Complete lifecycle coverage

Each marine scope can be delivered as an integrated package—from engineering and procurement through onboard execution, functional testing, commissioning, operator support and planned maintenance.



EPC SERVICES / MARINE SERVICES

Marine Communication

Always-on communications for vessels, offshore assets and maritime operations.



Our service

Always-on communications for vessels, offshore assets and maritime operations. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|---|
| <ul style="list-style-type: none">• GMDSS and emergency systems• VHF, UHF and HF radio | <ul style="list-style-type: none">• Satellite communications• Onboard telephony and paging |
|---|---|

Typical deliverables

• System architecture • Equipment supply	• Onboard integration • Radio and functional tests		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



EPC SERVICES / MARINE SERVICES

Marine Navigation

Integrated bridge and navigation systems supporting safe passage and confident vessel operation.



Our service

Integrated bridge and navigation systems supporting safe passage and confident vessel operation. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|--|
| <ul style="list-style-type: none">• Radar and AIS• ECDIS and positioning | <ul style="list-style-type: none">• Gyro, speed and depth sensors• Bridge alarms and interfaces |
|---|--|

Typical deliverables

• Bridge design • Interface schedule		• Harbour and sea trials • Operator training	
DESIGN	SUPPLY	EXECUTION	SUPPORT
Studies and engineering	Equipment and materials	Installation and integration	Commissioning and maintenance



E-Navigation

Digital voyage solutions that connect planning, navigation data, communications and fleet visibility.



Our service

Digital voyage solutions that connect planning, navigation data, communications and fleet visibility. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|--|
| <ul style="list-style-type: none">• Digital voyage planning• Electronic charts and updates | <ul style="list-style-type: none">• Fleet connectivity• Data and cyber interfaces |
|---|--|

Typical deliverables

• Solution architecture • Integration records	• User workflows • Acceptance testing		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



EPC SERVICES / MARINE SERVICES

Automation & Engine Support

Marine control, safety and machinery support from standalone panels to vessel-wide platforms.



Our service

Marine control, safety and machinery support from standalone panels to vessel-wide platforms. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- | | |
|---|---|
| <ul style="list-style-type: none">• Alarm monitoring and control• Safety and emergency systems | <ul style="list-style-type: none">• Pump, valve and steering control• Engine and propulsion spares |
|---|---|

Typical deliverables

• Control philosophy • Panel and interface supply	• Functional testing • Maintenance support		
DESIGN Studies and engineering	SUPPLY Equipment and materials	EXECUTION Installation and integration	SUPPORT Commissioning and maintenance



EPC SERVICES / MARINE SERVICES

VTS & Port Traffic

Integrated coastal and port awareness for safer, more efficient maritime traffic management.



Our service

Integrated coastal and port awareness for safer, more efficient maritime traffic management. RTTR coordinates engineering decisions with procurement, site execution, testing and operational requirements so the delivered system is practical, documented and maintainable.

Scope of work

- Radar and long-range sensors
- AIS and radio integration
- Electro-optical surveillance
- Operator and decision-support systems

Typical deliverables

- Coverage design
- Control-room integration
- Scenario testing
- Training and lifecycle support

DESIGN

Studies and engineering

SUPPLY

Equipment and materials

EXECUTION

Installation and integration

SUPPORT

Commissioning and maintenance



CAPABILITY DEVELOPMENT

Technical Training

Practical training aligned with real engineering systems, safe working methods and operational responsibilities.



- Data center fundamentals and operations
- Electrical safety and power systems
- PLC, controls and automation
- BMS, DCIM and monitoring
- Commissioning and test procedures
- Customized client workshops

Delivery formats

Programs can be delivered as classroom sessions, university seminars, technical workshops or project-specific operator training, supported by practical examples and structured course material.



SELECTED EXPERIENCE

Projects & Delivery References

A concise selection from RTTR's data center, power and industrial project experience in Oman and international markets.



PROJECT / CLIENT	LOCATION	SCOPE
Medical City Data Center	Oman	Design, supply, commissioning and turnkey delivery
Datamount Data Center	Oman	Consulting, monitoring, inspection and supervision
Datamount Data Center	Oman	24/7 repair and maintenance support
Jabal Akhdar Data Center	Oman	Data center design and consultancy
PDO Utility Panels / Al Hassan Switchgear	Oman	Delivery reference covering approximately 500 electrical panels
MONENCO	Oman	Primary-substation design
Acropolis Data Center	Oman	UPS supply
Cement Engineering Activity Center	Kuwait	Pump-station electrical panel

Delivery Footprint

EXPERIENCE INDICATOR	COUNT
Data Centers	140
DCIM Projects	12
Electrical Projects in Oman	6
24/7 Data Center Maintenance	1
CCTV & Access Control Projects	10
Mechanical Projects	20



TECHNOLOGY ECOSYSTEM

Partners & Solution Platforms

RTTR combines local engineering accountability with established technology manufacturers and specialist platforms selected for each project requirement.



Al Hassan LLC



Cathodic Protection Network



Rittal



Schneider Electric



Tridium · Niagara



CHD Newabel



Suprema



THE RTTR DIFFERENCE

Engineering that reaches operation

We bring the technical depth of a specialist with the practical accountability of an integrated delivery partner.



- One accountable interface across multiple disciplines
- Engineering-led procurement and equipment selection
- Practical constructability and site coordination
- Clear documentation, testing and handover

- Solutions aligned with safety, reliability and efficiency
- Local responsibility supported by international technologies
- Lifecycle thinking from concept through maintenance
- Flexible support for consultancy, supply-only and turnkey scopes

Sectors we support

CRITICAL	INDUSTRIAL	BUILT	MARINE
Data centers and ICT	Oil, gas and utilities	Commercial and institutional	Vessels, ports and offshore



LET'S BUILD RELIABLE INFRASTRUCTURE



RTTR ENGINEERING GROUP

Data Center • HD Hyundai Electric • EPC Services

Power & Energy | ICT, Security & Smart Systems | Mechanical | Solar | Earthing & Cathodic | EPC services | Marine Services



For enquiries, company information and project discussions:

www.rttrco.com | info@rttrco.com

Sultanate of Oman • Muscat

Integrated engineering for mission-critical and industrial infrastructure.

