

Solutions for Efficiency and Reliability



INTRODUCTION

Solutions FZC is an organization, established in November, 2010 as RAK Free Zone entity. The current geographies served are UAE, Oman, and Qatar with direct presence and other Middle East Countries with associates and partners.

Solutions FZC is a team of highly dedicated people working closely together to ensure our customers' success. Experience, Expertise, commitment and drive are key team attributes to make profitable advancements, reach new heights in solutions & service and deliver real results to Client.

Strategy of being closer to our customers allows us to understand the issues that influence their business realities. This empowers us with unique insight to create effective solutions that increase the productivity and quality of our customers operations.

We believe that the measure of our worth is in the results we deliver to our customers. Utilization of in-depth technological competence and industrial knowledge allows us to deliver cutting-edge solutions and services designed to make a real and sustainable difference to business.

The expertise include Control, Automation and instrumentation solution provider, system integrator and value added supplier, specializing in blending market leading technologies into total integrated solution for our customers.

The focused segments include District Cooling Systems, Water and Waste Water, Oil and Gas, Infrastructure which are the important segments for the region. The solutions developed and validated are keeping in view creative, energy efficient and cost effective approach for our customers.

“We Strive to Develop a Superior SOLUTIONS for our Customers through state-of-the-art Technology, Innovation, Leadership and Partnership”

Major Highlights:

- Control, Instrumentation & Integration work for Business Bay, DIFC, DHCC & TECOM ETSs – EMPOWER, UAE
- Innovation Park, Muscat, OMAN – TRC Social Center – ETC Controls
- Modification Works for DCP01 & DCP02 – EMMAR, UAE
- ETS Rooms (29 nos.) Repair & Maintenance – EMMAR, UAE
- ENI Tower, Shams Al Reem, Abu Dhabi, UAE – ETS Controls and Inst.
- ETS Room for Al Abraj Quarter, Pearl Qatar
- Tilal Shaza Hotel, Muscat – DCP
- Zarqa Waste Water Pumping Stations, Jordan – PLC & SCADA System
- Sweihan Air Base DCP, UAE Armed Forces
- Pumping Station RTU System Retrofitting & SCADA System, Qatar Ashghal
- AD02 & AD03 BTU Metering Station – Tabreed
- Porto Arabia PA-13 & PA13B Buildings ETS – Pearl Qatar
- IBA Twin Tower, Lusail Development, Qatar – ETS PLC Control System
- Wave Kempinsky Hotel & Apartments Muscat, OMAN– ETS Controls & Instrumentation
- Versace, Dubai, DCP & Associated ETS Control & Instrumentation – Emicool
- Dubai Park Meraas Land, Dubai – 13 Buildings ETS Control & Instrumentation – Tabreed
- Dubai Park – Hotel H1 & Bollywood Secondary ETS – Meraas Land Development
- PLC Control System for Al Rashid Tower, KSA

SERVICES AND SOLUTIONS

Design Services

Our unique level of detailed hardware, software, and systems level design is what distinguishes Solutions FZC. By dedicating special attention to the design, documentation and development phase, we can ensure our customers a smooth and timely Completion.

Turnkey Project (Control and Automation)

- Project Review
- Project Planning
- QA/QC Documentation
- Design and Engineering Documentation
- Procurement Panel
- Assembly Software
- Development Factory
- Acceptance test Site
- Installation
- Instrument Calibration verification
- Testing and Pre-Commissioning
- Functional Commissioning
- Client Training
- Project Handover and as Built Documentation
- Operation and Maintenance Manual
- Warranty Support
- Annual Maintenance Contract and Service



Project Management Services

- Contract Review
- Project Planning
- Risk Assessments
- Method Statement
- Site Management
- Functional Commissioning
- Progress Reporting
- O & M Training
- AMC



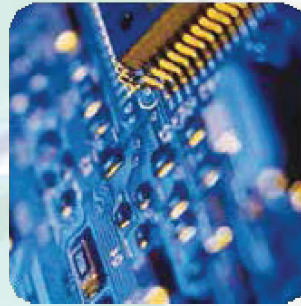
Design Engineering

- Functional Design Specification
- Software Design Specification
- Hardware Design Specification
- Quality Plan
- Inspection and Test Plan (ITP)
- Procedures / Method Statement
- Schematic Drawing
- Panel Production Drawings
- Instrument Data Sheet
- Instrument Location Drawings
- Cable Routing Drawings
- Instrumentation Loop Drawings and Termination Details
- Instrumentation Wiring / Tubing Risers and Schedules
- Customized Design Drawings as per Customer requirement
- Operation and Maintenance Manuals.



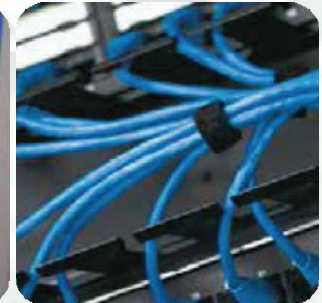
Automation Engineering

- P&ID
- Automation System Architecture
- Automation Specifications
- Input / Output List
- I/O Assignment
- Operation and Control Philosophy
- Functional Logic Diagram
- Software Development Specification
- Factory Acceptance Test Procedure
- Site Acceptance Test Procedure



Instrumentation Engineering

- Design and Selection of Instrument Data sheet
- Instrument Installation procedure
- Instrument Hook up Drawing
- Calibration Procedure
- Testing and Commissioning procedure



Solutions

- SCADA System
- PLC and DCS
- Telemetry and RTU
- Instrumentation
- Building Management System
- BTU Metering
- AMR and Billing System
- HVAC Control
- Solar System



Sectors

- Sectors
- District Cooling
- Water and waste water
- Oil and Gas
- Infrastructure
- Metals
- Food and Beverages
- Industrial Refrigeration
- Comfort HVAC
- Metering and Billing for Utilities
- Car Park Ventilation System
- Airport
- Irrigation



WORKSHOP FACILITIES



We have a well-equipped modern workshop with required facilities for Panel Assembly in the well-recognized industrial area of RAKIA. The facilities have allowed us to successfully execute the projects involving Control Panels, Instrumentation and MCC.

The company offers the following services within the manufacturing facility:

- ◆ Panel Design
- ◆ Panel Assembly
- ◆ Wiring
- ◆ Testing
- ◆ Factory Acceptance Test
- ◆ Instrument Calibration

The workshop is also equipped with computerized drawing and design facilities to achieve maximum accuracy and with all required tools and machinery for panel assembly works.

Testing Equipments:

Simulator panels , Analog Simulator, Digital Simulator, Multi-meters, Meggers, Set of Hand Tools require for testing and Factory Acceptance Test.

Calibration Verification Capability / Facilities

Equipped with complete range of Instrument that is required for our business sector. All equipment are portable type and easy to carry to site for calibration verification.

All equipment are calibrated on annual basis and its certification are traceable to NABL



CAPABILITIES

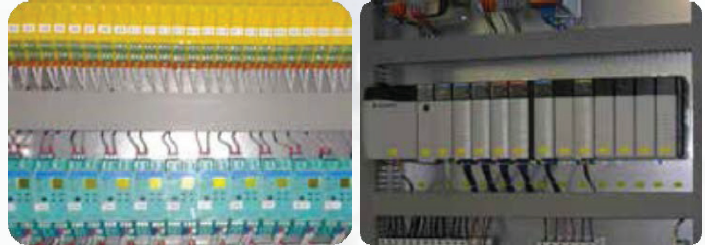
PLC and SCADA SYSTEM

With high availability, single database configurability, resilient open architectures, advance diagnostics and operator's tools, Solutions provides total commissioned PLC and DCS solutions using extensively proven core technologies from multiple vendors.

Our capabilities include redundant systems, integration to third party systems and multi-protocol communications. Solutions FZC has expertise in almost all major industrial automation software products and communication technologies.

Capabilities on PLC / SCADA Platform

- GEIP
- Rockwell (Allen Bradley)
- Siemens
- Schneider Electric
- Beckhoff



INSTRUMENTATION PACKAGE

- Selection of Instruments
- Data Sheet
- Technical Submittal
- Design Drawing
- Site Installation
- Calibration verification
- Cabling and Instrument Hookup
- Loop Checking
- Testing and Commissioning
- Documentation



We provide complete instrumentation package covering all aspect of Instrumentation design, purchasing, documentation and installation. We comply with client's approved manufacturers or recommend suitable 'Best of breed' to meet specifications.

In generally, we supply following make of Instruments,

- ABB
- Endress + Houser
- Siemens
- WIKA
- STRATA
- Sontay
- Samson
- Landis + Gyr
- Any other Make as required and accepted by Client.



BUILDING MANAGEMENT SYSTEM

Solutions FZC brings its application knowledge to intelligence for buildings and homes. Our solution includes both classical and innovative approaches for integrated facilities control and Energy Management.

ENGINEERING

We provide complete project engineering service from detailed design to 'as built' project documentation. We fully comply with the relevant international standards, and maintain modern engineering tools.

We get a thorough understanding of client's processes and goals and create the solution. We develop control systems in modules and incrementally test each module. We don't just program the software, we engineer control systems.

INSTALLATION & COMMISSIONING

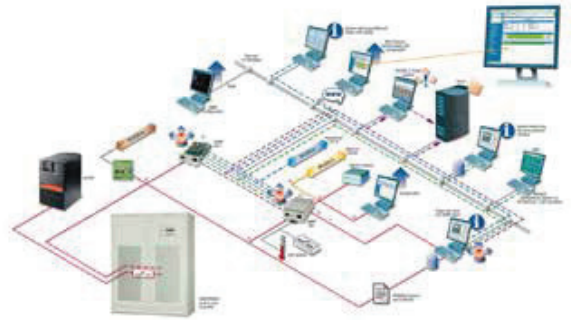
We provide complete installation, field wiring, termination, loop checking, testing and commissioning for control systems.

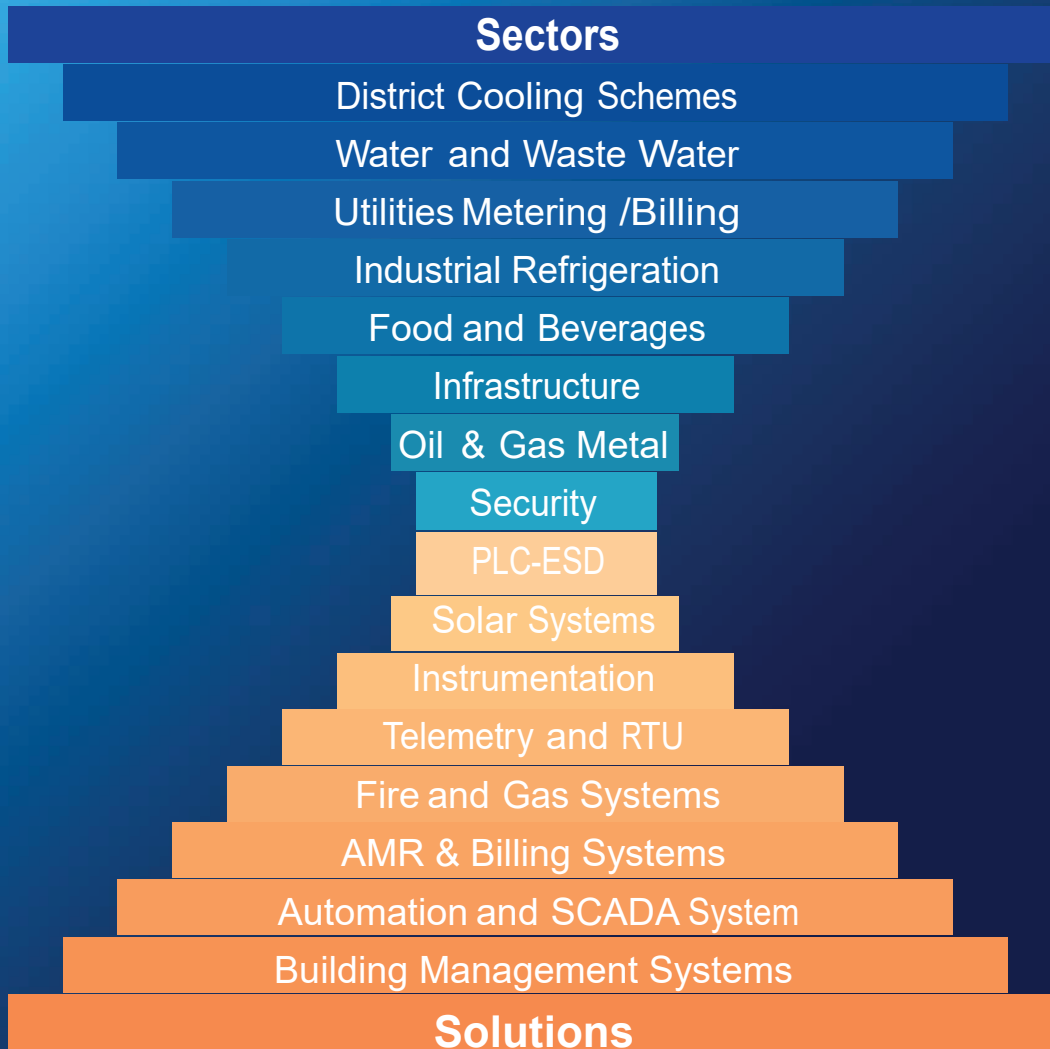
SUPPORT CONTRACTS

Solutions FZC understands clients and end user's need of high quality 24 hours customer care and support – where they are and when they need it. Supports services can include all aspects of post delivery customer care – from simple first line response on demand to structured, defined, periodic maintenance agreements.

KEY CLIENTS

- Emicool, UAE
- Tabreed, UAE
- EMPOWER, UAE
- UAE Armed Forces, UAE
- Meraas Land, UAE
- Meydan District Cooling, UAE
- EMAAR, UAE
- Dubai Civil Defense - UAE
- Emirates Airlines
- Ashghal, Qatar
- Qatarcool, Qatar
- Marafeq, Qatar
- Lusail Development, Qatar
- Qatar Petroleum, Qatar
- Mubadla, UAE
- Hamad Medical City, Qatar
- Barwa, Qatar
- Wave Muscat, Oman
- Innovation Park, Oman
- Water Authority, Jordan
- Al Rashid, KSA
- Royal Saudi Air Force





Solutions_{FZC}
The System Integration Expert

P.O. Box -86482, RAKFTZ

Ras AL Khaima, UAE

Tel.: +971-7-2437340

Fax: +971-7-2437341

E-mail: info@solutions-uae.com

www.solutions-uae.com

