Leveraging Knowledge in the Construction industry
Who We Are

Giza Systems Electromechanical (GSEC), a subsidiary of Giza Systems, is an established EPC (Engineering, Procurement and Construction) contractor specialized in the field of potable Water/Wastewater treatment and Infrastructure projects.

GSEC was founded in 2011 as the contracting arm of Giza Systems to provide EPC services for Water and Infrastructure sectors in Egypt, the Middle East and Africa. In the last few years, GSEC has expanded its portfolio to include projects for the Infrastructure, Real Estate, and Hospitality sectors particularly in KSA.

Vision

Provide international contracting and management services at reasonable cost

What We Do

GSEC offers complete solutions for the Water Utilities, Water and Wastewater Treatment, Water Desalination, Infrastructure and Hospitality sectors.

Our scope of services extends from Project to Construction Management including operations and maintenance of plants. Our portfolio of solutions and the various projects implemented are executed according to the highest international standards and ultimate client satisfaction.

Our Project Management services encompass design, procurement, installation, commissioning and start-up, as well as operations and maintenance. In addition to our project and construction management, we are able to offer our clients turnkey solutions and services guaranteeing that international quality standards are met.

GSEC operates in the Middle East and Africa through our offices and group of companies amongst which are Giza Arabia, Giza Systems Gulf, Giza Systems JLT, and HF Giza Systems. We are focused on contributing to the local and regional development with our technology solutions, commitment and outstanding customer service. Our geographic footprint extending from Saudi Arabia, Emirates and Qatar to Egypt, Kenya, and Tanzania enables us to deliver diverse projects and connect us with our clients.

Our team of high caliber engineers employs integrated methodologies based on predefined standards and procedures of Quality Assurance and Control through an intricate system to validate all steps of project implementation; this is to ensure effectiveness of our services and added value to the operations of our clients.
Giza Systems Group of Companies

Giza Systems Egypt
Handles all integration business in Egypt

Giza Systems Electromechanical
Established in 2011 as the contracting arm of the group. Focused on the water, wastewater treatment, sanitation plants, desalination, infrastructure, and hospitality

Giza Systems Arabia
Established in 2006 to create a client base and a revenue stream from the Kingdom of Saudi Arabia in the telecoms, utilities, oil & gas, and government sectors

Giza Systems Gulf
Established in 2004 as the distribution arm of Giza Systems encompasses all distribution activity within the company

Giza Systems Free Zone
Established in 2012 to serve the Qatari market

Giza Systems Middle East
Established in 2007 to eliminate custom tariffs on equipment required for Factory Acceptance Testing (FAT), which is to be re-exported to its final destination. Caters to clients exempt from sales tax & custom tariffs (ex, Oil & Gas sector) in free zone areas

Giza Systems Asia
Established in 2009 to serve the UAE & Gulf markets

Giza Systems Africa
Established in 2013 to serve Africa and Middle East, focus on smart solutions including fire, safety, security and smart buildings

The leading storage distributor and integrator in the Egyptian market operating in cloud enablement and virtualization space in Egypt and Libya

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Quality

Certificates/Classifications
Egyptian Federation for Construction and Building Contractors – Egypt
Classification as 1st Grade – Electromechanical

Ministry of Municipality & Rural Affairs – KSA
Classified in Water and Wastewater Contracting
Classified in Electrical Contracting
Classified in Telecom Technology and Electronics

Services Provided
Our services cover a wide range of activities and include:
- Erection & Installation
- Construction Management
- Sales & Sales Support
- Project Management
- Design
- Engineering
- O&M

Our technical capabilities, extensive experience and knowledge of the market enable us to develop integrated project methodologies that sustain the work effectiveness and build on the evolving technologies, as well as meet the dynamicity of our customers’ needs.

In our pursuit to constantly enhance existing resources, develop and the projects methodologies and create new capabilities, we drive forward the growth of our company, our customers, our people, and our communities.
GSEC is uniquely positioned to fulfill the needs of the local and regional markets due to our diversified technical and management experience that fulfill the various needs of the following sectors:

- Water
  - Reverse Osmosis
  - Desalination
- Water Treatment
- Wastewater
  - Industrial Wastewater
  - Wastewater Treatment
- Pumping
Hospitality and Real Estate
Giza Systems Electromechanical Offerings

Giza Systems Electromechanical staff of engineers combines extensive experience and considerable knowledge in the design of conventional and advanced system solutions for modern Water/Wastewater Treatment, Infrastructure and buildings projects. Through a multi-disciplinary approach and diverse technology-based systems integration, GSEC is able to effectively use advanced technologies and creative designs to drive constant process innovation.

Our highly trained team has hands on experience in the process design, procurement, supply, installation, testing and commissioning of water/wastewater, infrastructure and buildings projects. We also specialize in quality operation and maintenance of treatment plants.

Understanding the various needs of our clients and the diverse technology systems in place, we partner with our clients to tailor solutions and services that are optimal for them in order to achieve an increase in efficiencies by reducing operational costs and cutting on downtime, while ensuring safety standards are in place.

With the successful implementation of numerous projects, GSEC has gained industry leadership in electromechanical works by successfully completing projects in water and wastewater management, in addition to projects in the infrastructure and hospitality industries.

Our services cover a wide range of activities and include:

**Design**
- Concept and preliminary designs
- Detailed designs
- Shop and as-built drawings
- Process selection
- Process calculations
- Hydraulic calculations
- Process and instrumentation diagram
- Civil-guide drawings
- Layout drawing
- Hydraulic gradient drawings
- Equipment sizing
- Equipment data sheets
- Piping isometric

**Project Management**
- Work Breakdown Structure (WBS)
- Scheduling
- Procurement planning
- Cost controlling
- HSE
- Inspection
- Risk management
Construction Management

• Installation and erection
• Commissioning
• Testing and handover
Operation and Maintenance
• Operation instructions manuals
• Preventive maintenance
• O&M software
• Periodical maintenance

Training and Support
• Standard and customized training courses
• On-job training
Specializations

Giza Systems Electromechanical offers specialized engineering services in the following disciplines related to Electromechanical works:

- Protection and safety: earthing and lightning systems
- Lighting: indoor, flood lighting and street lighting
- Light Current Systems: fire alarms, CCTV, telecommunications, access control and audio/visual systems.
- Automation and Control: SCADA systems, PLC’s, RTU’s and instrumentation.
- Heating, Ventilation and Air Conditioning (HVAC)

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