

# SMART POWER TECHNOLOGY



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**SMART POWER**  
Technology

Engineering And Design



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# ABOUT US

Smart Power Technology is a leading company in the field of management consulting in Egypt. It leads design and supervising the implementation of a number of major projects in Egypt and the Arab world. Moreover it provides other services by feasibility studies, tender studies, project management and safety managements of projects.

The company has its own distinctive character and special touch that is reflected in every design it does. It is keen to create and innovate with the use of modern technical means and the best engineering and professional staff with long experience in the engineering field. We deal with every new engineering project as it is our first one for us, and accordingly, the success of the group depends on it, thus we provide the best possible services to the customer in the engineering field.

## why work with us?

Our growth is derived from your growth, our challenge is to look beyond a project timeline to deliver a long-term value that supports your strategic objectives.

We are Smart Power Technology, a multi-disciplinary engineering consultancy firms in the areas of Buildings and Facilities, Urban Development, Water and Environment, and Transportation. We have a strong presence in the Middle East and North Africa (MENA) region

Providing a reliable value expertise, over hard work and aspired commitment to quality, Smart Power has gained a solid reputation as one of the top consulting firms in the region, certified in accordance with ISO 9001:2008 requirements. In addition to Quality Management, it maintained and followed extensive regulations and programs in Operation Management, HSE (Health, Safety and Environment), Training & Staff Development, Human Resource Management, Business Integrity, and Social Responsibility. A wide diversified range of projects are covered by Smart Power expertise including: Residential, Commercial, Educational, Health Care, and other Public Buildings, Industrial Facilities, and Infrastructure including Transportation Engineering, Highways and Bridges, Water & Environment projects, as well as Heavy Civil Works such as Tunnels, Dams and Marine Works.

Professional integrity is one of the major factors of the success of Smart Power. Commitment to professional ethics is shared as culture of work by all highly qualified staff of about 800 members of different nationalities, educational backgrounds and cultures.

Pursuing the fast paced market challenges, EGEC business model was able to keep an organized pattern of growth spearheaded by Smart Power-House of Expertise in Egypt with EGEC firms in the Middle East & North Africa that are strongly competing within and beyond their geographical and expertise horizons.

# Engineering planning and management -EPM

Providing expert consulting and engineering services  
along with leading information technology to Projects and Industries  
Smart Power provides services

## 1-Tenders and procurement consultancy services



At Smart Power we guide our clients right the way through the tendering process. We prepare all the required documents and in conjunction with the client, develop the tender specification. We specialise in developing the specification in line with the business needs and requirements of the client to ensure the required service is provided. On the procurement side, we assist our clients in sourcing suitable suppliers and ensure they get the best value and quality in consumables and Facilities Management services

- Bid Prepare – full review of procurement policies, processes and documentation
- Bid Review – detailed analysis of past submissions and supporting documentation to evaluate your capacity to create successful and compliant bids
- Bid Support – real-time support from an experienced consultant during your tender exercise
- Bid Challenge – independent review of your submission, resultant outcome and identification of ground to challenge the contracting authority's decision

## 2-projects planning

Project Schedule using Planning engineers determine and develop the most suitable and economically viable construction and engineering methods for projects Smart Power involved throughout the development stages . Using latest program



## 3-Risk Assessment Consulting

Our risk assessment consulting and risk analysis programs are based on industry best practices and performed by knowledgeable experts trained in the field of risk assessment. Each risk assessment seeks to the following basic tasks

Identify the specific assets that need to be protected. This can include company ,employees, proprietary information, money, manufactured goods, reputation supply chain and more

Identify and quantify the types of risks that could identify the assets

Determine the criticality of each potential risk event. In this sense, we define criticality as the product of probability of occurrence multiplied by the impact of the event on the company. When criticality is properly measured organizations can be assured that only cost-justified security measures will be implemented

Smart Power security services include overseas risk assessment and security plan preparation, vulnerability assessments, accountability/communications programs .for travelers and expatriates, emergency preparedness and contingency planning

We provide expert risk assessment and analysis consulting services for multi-national companies, both large and small using risk assessment methodology that reflects industry best practices and ensures that risk is properly quantified and recommended security measures are cost-justified

Our risk assessments will

Provide an accurate picture of the current state of security at the facility/target

Identify those areas in which more or, in some cases less, security is needed as well as providing the basis for improving your organization's security awareness and training efforts based on a detailed and comprehensive report

Collect the necessary information that can be used to justify requests for capital improvements in security programs

## 3-HSE Consulting

Safety Management Systems specializes in facilitating creation, implementation, and maintenance of individualized HSE management plans and programs. We provide safety and environmental regulation assistance with our complete range of OSHA and NEBOSH compliant programs, training, and policy development plans.

Smart Power consultants function in much the same capacity as a senior administrator or HSE manager would. They support your operations by creating policies and procedures, interfacing with industry regulation databases, and implementing management programs for contractors and Short Service Employee [SSE] processing. The ultimate goal is to integrate safety into the business culture, which is best achieved through consistent compliance with HSE regulations. Because each client's situation is different, we customize our methods in:

Behavioral-Based Safety -BBS

processes

Compliance auditing

Cultural assessment

In-depth incident investigation and planning  
Root cause analysis

Corrective action planning

Management system training

Competency auditing & tracking

Regulation required reporting  
and documentation

This comprehensive, flexible approach allows us to develop and implement the right safety management system and safety manual for any company or environment.



## ARCHITECTURE Engineering

*The hallmark of Smart power's design ethos is to design built environments that are functional, livable, contextual, sustainable, and beautiful*

To live up to our promise – in any project – we maintain a holistic understanding of the economic, social, cultural and environmental impacts of the solutions we offer our clients. We appreciate that these areas may vary in importance between clients, and we take a pragmatic view in the various conceptual and technical design strategies that we adopt in order to realize our values, be it in the design of an entire community, a complex of buildings or an individual residence. We place special emphasis on the symbiotic relationship between a building, its site, its regional location, its cultural landscape, and the climate which it .must be designed to accommodate

We harness the skills, passion and knowledge of our designers to create outstanding environments. By working together from the start of a project, our architects and engineers combine their knowledge to develop integrated design solutions. And to ensure consistency and personal client service, the same project manager sees a project through from beginning to end





As the footprints of Smart Power centers grow, so too does the need for civil and infrastructure engineering of the very highest quality

The increasing reliance on large-scale infrastructure means that the design and construction process must not only meet demand but also foresee future capacity, minimize environmental impact and improve the quality of life for those whom it serves

Utilizing our experience in delivering intricate civil engineering and utilities infrastructure projects, we pride ourselves on our ability to provide our clients with sustainable solutions

Our staff have considerable experience in the following areas

- Drainage
- Highways
- Earthworks
- Temporary works
- Heavy foundations
- Bridges
- Retaining walls
- Site supervision
- Deep mine structures
- Treatment works
- Plant supports and gantries
- Water Retaining Tanks
- Canals
- Airfields
- Flood Risk Assessments
- Expert witness



# Electrical Engineering

Beyond leading-edge technology and insight, our electrical engineering services include something else: creativity. Our engineers are experts at devising solutions ,that effectively meet client needs — in power system design, energy use telecommunications and more. Our innovative use of renewable energy focuses .on power reduction, resulting in substantial savings in utility bills

Transmission Substation up to 132 K.V

Distribution Substation

Infrastructure Network for CABLING UP TO 132 Kv

Overhead Line up to 132 KV

Power generation

Low voltage system design

low current systems " fire alarm ,CCTV, Telephone Systems ,Data Systems , access " control , BMS, KNX ..... ETC

Power quality testing & monitoring

Distributed generation

Photovoltaic (PV) systems design

Approved Service provider for :



# Mechanical Engineering

professional Consulting engineers to provide service that provides independent expertise in engineering, science and related areas to governments, industries, developers and construction firms. To provide the following engineering services .

Plumbing

Sewage

Fire Fighting

HVAC Systems

Sump Pits, Dry Pits and Septic Tanks

Elevated Water Tanks

Piping Systems — including Piping Plans, ISO, Material Take-Offs

Stress Analysis

Pressure Vessels and Storage Tanks

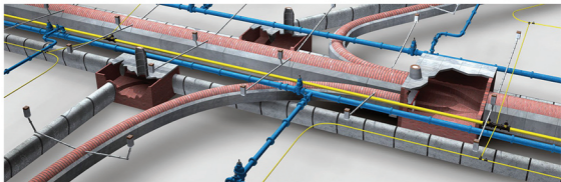
Noise and Control

Process Pumps and Compressors

Heat Exchangers

Material Selections

Loading Systems



# Revit MEP



Planning and coordination of MEP is the key to success for every project in construction industry. Advancement of the BIM and 3D technology is the revolution of the AEC industry. BIM allows virtual construction design of plumbing, electrical, mechanical, and other utilities of any project. It create a visually interactive model which allows all stake holders to coordinate the project and generate accurate shop drawing and take-off before hitting the ground

Mechanical design and detailing

Plumbing Layout Design

Piping and Plumbing drawings

HVAC layout design



## Long Distance consulting services

Long Distance Smart Power consultations Services are useful if for some reason ... you are unable to have a consultant visit your Company /business/Site . They can also be particularly useful if you need the consultation quickly, away , anywhere any language and any time .we provide "Contractor portable "for immediate response and uploading and downloading files with 24 hours Services as per contracts with professionals engineer

We can offer the following :

*" tenders Study and Pricing for "Egypt and Gulf countries Only*

- 1- Design
- 2- Shop drawings
- 3- REVIT WORKS
- 4- projects planning
- 5- Risk Assessment Consulting
- 6- HSE Consulting



# Project Experience

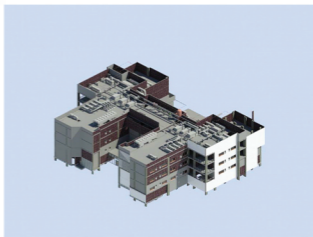
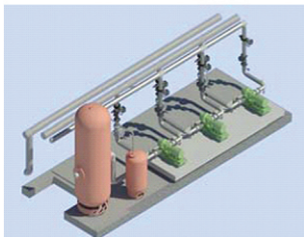
## Some of last 10 years projects experience

### Suez Hospital

Location Suez, Egypt

Date:2017

Main Contractor AL-Nour for Construction and Building



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### EL-SAYAD PLAZA

Location Damietta, Egypt

Date:2016

Main Contractor AL-nour  
for Construction and  
Building



# King khaled Military Academy

Location: Riyadh –Saudi Arabia

Date: 2017

Owner : - National Guard

Main Contractor :Saudi Edrak Contracting company

Project Name: Reinforcement  
of Electrical Network

كلية الملك خالد العسكرية



## Reinforcement of transmission Substation 8104 132/13.8KV

Location : Saudi Arabia, Riyadh .

Date: 2016

Main Contractor : Saudi Edrak Company.

Owner :National Grid .

Description : Complete Repair of 13.8 KV Switchgear include Scada Work .





## Design and Engineering Services

Replacement of Existing Three (03) 115kV S/C OHTLs in  
Conflict with new interchange by MOT at Khafji Area PTS # 15EO1114  
Location : Saudi Arabia, AL Khafji  
Date: 2015  
Main Contractor : Innovative Systems - ISys

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## projects 2016

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Design Services for :Construction of Nada & Al-Mubarkiyah 115/13.8kV S/S in Al-Hassa  
Location :Saudi Arabia – AlHassa  
Date :2015  
Owner:national Grid –EOA  
Contractor :Al Sharif Group - ASG







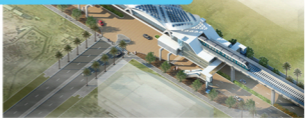
# Riyadh Metro Project

Location :Saudi Arabia – Riyadh

Date : 2015

Contractors: Saudi Edrak contracting company & SAUDI SALCO CONTRACTING CO - SALCO

Owner :The High Commission for the Development of Arriyadh& Saudi Electricity company



## Construction of Spimaco Power House

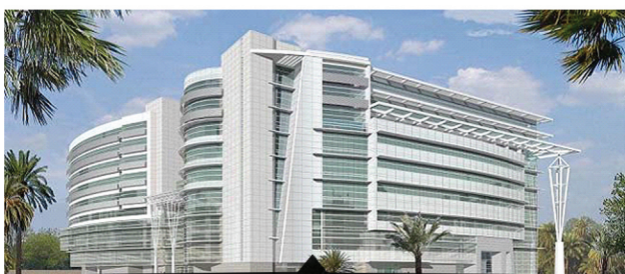
Location :Saudi Arabia – Qassim

Date :2015

Owner :SPIMACO ADDWAEIH

Main Contractor :SaudiEdrak Contracting Co





## Dar AL-Fouad Hospital

Location: Naser City, Egypt

Date : 2015

Main Contractor: ORASCOM Company

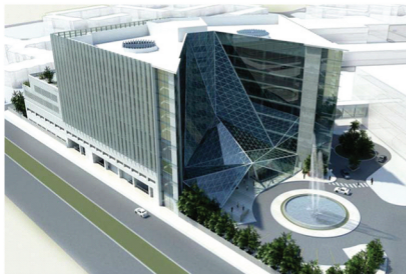
## IRLAX FACTORY

Location : Sulaimania – Iraq

Date : 2014

Main Contractor : Faruk Holding

Company Power Company



## KING FAHD HOSPITAL

Location : Kingdom of Saudi Arabia, Dammam

Date : 2013

Main Contractor :  
IZMA\_KSA

## MARRIOTT HOTEL

Location : Iraq

Date : 2013

Main Contractor: Faruk Holding  
Company



## ERBIL BUSINESS TOWER

Location: Erbil – Iraq

Date: 2013

Main Contractor: Braiaty Company



## AI RA'IDAH HOUSING COMPLEX - RHC

Location: Jeddah - K.S.A

Date: 2012

Main Contractor: ( MASCO ) Group

Main Consultant: SAUDI CONSULTING  
SERVICES -Satic



## GRAND MILLENNIUM SULAIMANI

Location: Sulaimania – Iraq

Date: 2010

Main Contractor: Faruk Holding  
Company



## Some other projects:

Projects	Location	Date
GALLARIA MALL	Egypt	2015
EXTENSION BUILDING OF INTERNATIONAL SCHOOL	Jeddah- KSA	2015
BELLA MALL	QATAR	2015
DETAC etisalat	Egypt	2014
Jeddah mall	K.S.A.	2014
SAFWA HOTEL	LIBYA	2014
Eleman factory (Car maintenance workshop)	K.S.A.	2014
OM Omar mosque	K.S.A.	2013
Alqueeque School	K.S.A.	2013
Nursing Building	Sulaimanyah	2013
Mr. Farouk Residence	-Iraq Sulaimanyah	2013
Accommodation Building	-Iraq Sulaimanyah	2013
Rank Mall Building	-Iraq Sulaimanyah	2012
King Abdullah Port-Phase 1A/1B - Huta Marine	K.S.A.	2012
King Abd El-Abdallah office building	K.S.A.	2012
Privat Residential Building (Zawawy Villas)	K.S.A.	2012
El-Hamra Land Square	K.S.A.	2012
Privat Residential Building (Waganat)	K.S.A.	2012
IV Solutions Plant (pharma plant)	-Iraq Sulaimanyah	2012
Administration building in Kirkuk	Kirkuk - Iraq	2012
El-Ahly Bank - Sohag branch	Sohag- Egypt	2012
CIB Branch - Emerald Mall	Emerald Mall _ New Cairo	2012
CIB Branch - Meeting point	Meeting point Mall- Cairo	2012
CIB Branch - Katamia.	Katamia- Cairo	2012
Fatima Hotel	K.S.A.	2011
Thanyan Office Building	K.S.A.	2011

Carrier (many Branches)		Cairo - Egypt	2011
Khair Mall		Fifth Avenue- Cairo	2011
Mall Bloom		Fifth Avenue- Cairo	2011
Wisten Hotel		Makah - K.S.A.	2010
Hussain Hospital (Operation Building)		Baghdad- Iraq	2010
Nile School- PortSaid Branch		Port-Said Egypt	2010
Nile School - Qina Branch		Qina- Egypt	2010
Qurashi Farm (48000 m2)		K.S.A.	2010
Tameeyz Hotel		Jeddah- KSA	2010
Family Mall		Madinah - KSA	2010
Drug Factory		Musel - Iraq	2010
Chop Chop Restaurant		Dokki - Egypt	2010
Damac - Garden Hights		New Cairo- Egypt	2010
Kohler - ShowRoom		Dokki - Egypt	2010
Iraq Pharmaceutical Plan Project		Salmania – Iraq	2009
Shops			
Naga Home, Mobacco, Ulla Popken, Scarf Home, Bounce, and Seventy Shops	Mall Of Arabia	Egypt	2010
Seventy Shop	SunCity Mall	Egypt	2010
Fattoush Shop	Carrefour - Alex	Egypt	2010
Rockport, and Mind Wind er Shop	Maadi City Centre	Egypt	2010



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THE PIONEER IN ENGINEERING DESIGN

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