ELECTRIC POWER SYESTEMS ENGINEERING COMPANY (EPS)



Established 1982 2020

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| Table of C | Contents | |
|------------|--|------|
| Со | mpany Profile | 5 |
| | Message from the CEO | 5 |
| | Company Data | 7 |
| | Introduction | 8 |
| | Mission | 9 |
| | Vision | 9 |
| | Objectives | 10 |
| | Organization | 11 |
| | Projects Group | 11 |
| | Consultants | 11 |
| | Facilities | 11 |
| | Organization Structure | 12 |
| | Key Personnel | 13 |
| | Ownership | 14 |
| | Major Organizations Recognizing EPS | 15 |
| | Contract Shares till the end of 2020 | 15 |
| | Activities and Services | 16 |
| Cor | npany Sectors | |
| Dis | tribution Networks | 21 |
| | Scope of work | 22 |
| | Projects served | 22 |
| | Major Projects | 23 |
| Sub | stations | 25 |
| | Scope of work | 26 |
| | Projects served | 26 |
| | Major Projects | 20 |
| | | |
| Ove | erhead Transmission Line (OHTL) & Under Ground Cables (UG) | 33 |
| | Scope of work | 34 |
| | Projects served | 34 |
| | Major Projects | 36 |
| Civi | l Works | 39 |
| | Scope of work | 40 |
| | Projects served | 40 |
| Ρον | ver Stations Projects | 45 |
| | Scope of work | 46 |
| | Total generation capacity served | 40 |
| | Major Projects | 50 |
| | | 1 30 |

| Table of Contents | |
|-------------------------------------|----|
| Overseas Operations | 53 |
| Scope of work | 54 |
| Overseas Projects | 54 |
| Major Projects | 55 |
| Networks Studies and Control System | 59 |
| Scope of work | 60 |
| Projects served | 64 |
| Information Technology | 65 |
| The Role | 66 |
| The activities | 69 |
| Projects served | 70 |
| EPS Training Center | |
| Services | 74 |
| EPS Stuff Training | 76 |
| External Trainees | 76 |

MESSAGE FROM THE CEO



Electric Power System Engineering Company (EPS) is specialized in carrying out consulting and engineering services in the field of Electric Power Systems. EPS, a joint-stock Egyptian Company, established in October 1982 according to the laws of the General Authority for Investment and Free Zones.

Since its establishment, **EPS** is offering services in the fields of Electric Power Generation, Transmission Line, Distribution Systems, control & communication, Transformer Substations, Power System Planning and Information Technology and is ISO 9001 /2015 certified since February 1.2001 Until June 2023.

The services covered include power system planning, techno-economic feasibility studies, power system design, and preparation of tender documents, bid evaluation, contracting support, and project management.

EPS has developed extensive packages of software applications oriented to automate managerial and financial processes, as well as, to support management decision-making.

Furthermore, **EPS** participated in international consultancy and contracting services for various Arab & African countries. During the last 30 years, **EPS** has succeeded to increase its scope of services extensively, and successfully, undertaken to cover a wide range of activities for more than **5000** projects. The company has also been engaged in several consulting and engineering services for generation, transmission, and distribution projects in Arab and African Countries. **EPS** is a recognized leader in power systems analysis and network expansion planning, sub-stations, transmission lines, distribution networks, and SCADA projects. One of the main focuses of the Company is to deliver quality and cost-effective services that satisfy the customers. To achieve customer satisfaction.

EPS is committed to provide quality and cost-effective engineering services in the field of electric power systems that fully meet the needs and expectations of every customer through expertise and standard of excellence. The company is also dedicated to use information technology to develop systems driven by customer need.

EPS vision is to be successful, well reputed, continues to serve a growing.

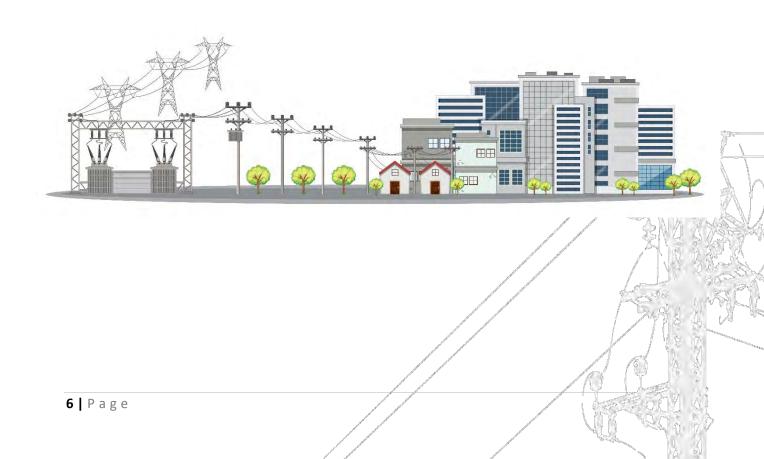




part

EPS also envisages expanding the services into business architecture and strategic Planning. Information technology is linked to business architectural and surveying issues to form an integral of the business delivered to public sector, private sector and inter professional activities covering National and Regional markets.

> Eng. Hosni El Kholy EPS Chairman & CEO



COMPANY DATA

| Capital : 5 Million LE No. of Employees : 281 Year of : 1982 Address : Misr Lel-Taamir Buildings - Sheraton Heliopolis, Zone 8, Street No. 9, Building No. 7 P.O. Box : 90 Rawdat El Sheraton Tel. :(202) 22661810 E-mail : eps@eps-egypt.com Web Site : www.eps-egypt.com Nearby : Cairo Airport, Radisson Hotel , Fairmont Hotel | Chairman & CEO | : Eng. Hosni Hassan Ali El-Kholy |
|--|------------------|---|
| Year of Establishment : 1982 Address : Misr Lel-Taamir Buildings - Sheraton Heliopolis, Zone 8, Street No. 9, Building No. 7 P.O. Box : 90 Rawdat El Sheraton Tel. :(202) 22669414 - 22669424 - 22669427 - 22669437 Fax :(202) 22661810 E-mail : eps@eps-egypt.com Web Site : www.eps-egypt.com Nearby : Cairo Airport, Radisson Hotel , Fairmont Hotel | Capital | : 5 Million LE |
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INTRODUCTION



EPS is a joint stock Egyptian Company established in October 1982 under the laws of the General Authority for Investments and Free Zones. The company is specialized in carrying out engineering and construction management services in the field of Electric Power Systems.

Since its establishment, **EPS** has conducted services for more than **5000** engineering projects in the fields of electric power generation, transmission and distribution in Egypt and in Arab Countries.

The services cover power systems planning, techno-economic feasibility studies, power systems analysis, preparation of tender documents and contracting support, supervision at construction sites, operation & Maintenance, development and implementation of information technology applications. In addition, EPS carries out preparation and execution of training programs.

From inception to completion, we prepare tender documents, plan, execute, and control projects backed by proactive planning and first-hand knowledge of contract terms, client objectives, responsibilities, and capabilities. Project budgets are continuously monitored to secure budget and contract compliance.

Engineers, technologists in addition to teams that are comprised of a variety of professions and disciplines are pooled to create effective project organization structures.

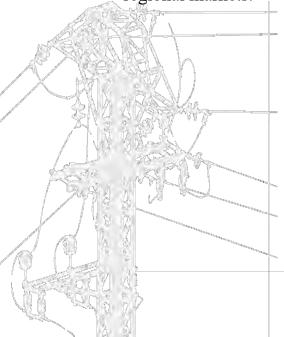
MISSION

EPS is committed to provide quality and cost-effective engineering Services in the Field of electric power systems that fully meet the needs and expectations of every customer through expertise and standard of excellence. The Company is also dedicated to use information technology to develop systems driven by Customer needs.

VISION

EPS vision is to be successful, well reputed, and continues to serve a growing market and can, with no limitations, compete local consultants.

EPS also envisages expanding the services into business architecture and strategic planning. information technology is linked to business architectural and Surveying issues to form an integral part of the business delivered to public sector, private sector and inter professional activities covering national and regional markets.



OBJECTIVES

EPS objectives are:

- To operate the company for continuity, profile and stability and establish growth objectives through effective management policies and planning procedures.
- To provide shareholders with fair return on investment.
- Employee performance to be stimulated information systems that serve the processes and the management.
- Invest in corporate development and individual training.
- Continually provide employees with modern efficient development and production tools to be in the forefront in the fields of the firm's practice.

Opening new markets.

- Achieve continuous customer satisfaction.
- To maintain relations with employees through active participation, adequate communication, fair compensation and benefits, good working conditions opportunities for work satisfaction, advancement and professional development.

Organization

EPS is organized to offer a full range of consultancy and engineering services in the fields of power systems engineering. Each individual project is managed with only one goal in mind, which is to render the services required at the highest international standards.

Projects Group

For each specific project or task, a number of specialized engineers are integrated to form a project team, managed by a longexperienced team leader or project manager. Those specialists are assigned from the company's different departments to perform their respective tasks in accordance with established schedules and milestones to fulfill the project objectives.

To provide an even wider range of engineering capability, **EPS** draws directly from the highly qualified and experienced personnel working with the different authorities and organizations of the Electricity and Energy sector

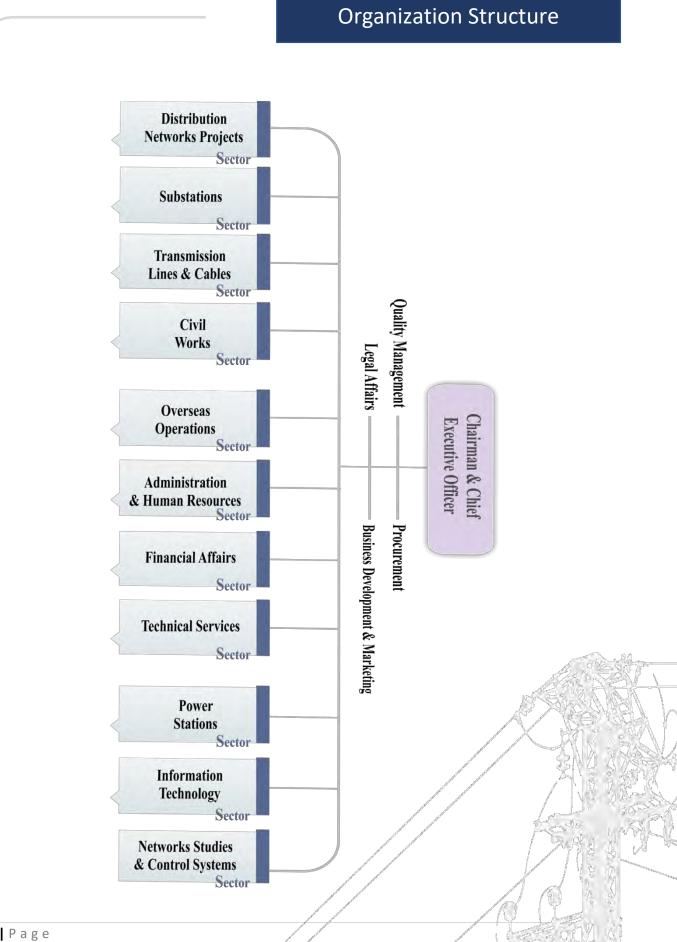
Consultants

EPS has expanded its technical resources and engineering groups by consultants employing and specialists of the highest caliber as either inhouse independent or consultants to support the projects and project teams.

Facilities

The Company has computer facilities and software packages which provide considerable support during the implementation of different contracts.

EPS also maintains continuous liaison and special agreements with various specialized laboratories and research centers, in order to avail on their facilities and expertise whenever necessary.



KEY PERSONNEL

EPS is managed by highly experienced group of managers. The key personnel are:

| Name | Position | |
|--|---|--|
| For a Harry' FLKhaler | Chairman and Chief Executive | |
| Eng. Hosni El Kholy | Officer | |
| Eng. Agmag El Degenler | Substations, | |
| Eng. Asmaa El-Desouky | Sector Head | |
| Eng. Osomo El Motoroux | Distribution Networks, | |
| Eng. Osama El-Matarawy | Sector Head | |
| Fra Mahamad Saad | Civil Works, | |
| Eng. Mohamed Saad | Sector Head | |
| For A and the bin | Transmission Lines & Cables, | |
| Eng. Ayman Ibrahim | Sector Head | |
| Eng. Azza Khalil | Networks Studies and Control Systems, Sector Head | |
| | Information & Applications Automation, | |
| Eng. Nevien Khadr | Sector Head | |
| | Power Station Projects, | |
| Eng. Rabea Zayed | Sector Head | |
| Eng. Soha Zakaria Sharaf | Overseas Operation Sector, | |
| | Sector Head | |
| Eng. Hatem El Ghorory | Business Development | |
| -Eng. Hatchi El Gilorol y | Sector | |
| Mr. Mohamed Mekhemer | Admin. & Human Resources, | |
| WIT. WIOHAINEU WIEKHEINET | Sector | |
| | Financial Affairs, | |
| Acc. Manal Ashour | Sector | |
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Ownership

EPS shares are held and equally divided between the following Authorities and Companies:

- Seguptian Electricity Holding Co.
- Nuclear Power Projects Authority
- Hydro Power Plants Authority
- Cairo Electricity Distribution Co.
- Alexandria Electricity Distribution Co.
- El Nasr Transformers & Electrical Products CO.
- General Co. for Electrical Projects.
- High Dam Electric & Industrial Projects Company.
- Misr Company for Mechanical and Electrical Projects.

The first six shareholders are owned by the Ministry of Electricity and Energy; the next two shareholders are affiliated with the Ministry of Public Sector, while the last shareholder is a Privately-Owned Company.



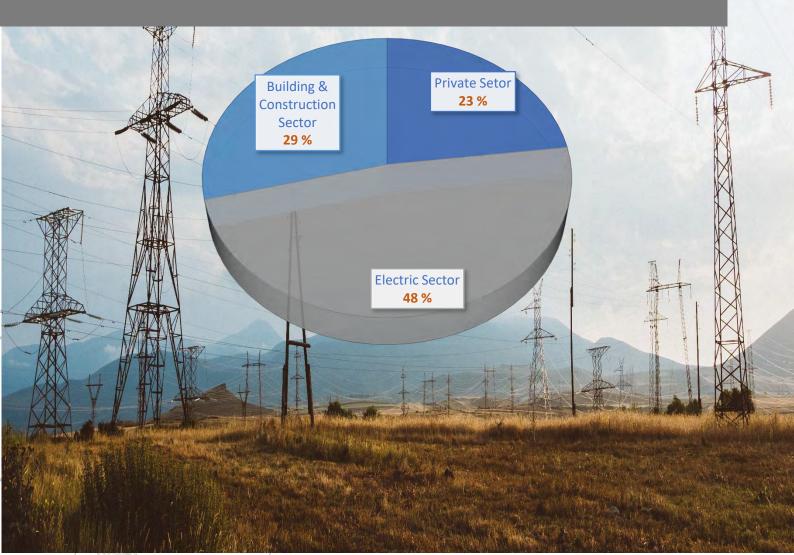
Major Organizations Recognizing EPS

EPS Company is recognized as a Consulting Firm by the agencies given below:

- The World Bank
- The African Development Bank.
- The Arab Fund for Economic and Social Development.
- The Islamic Bank
- Kreditanstalt fur Wiederaufbau (KFW)
- The United Nations Development Program
- The Commission of the European Communities
- European Investment Bank (EIB.

EPS is also a member of the Egyptian Syndicate of Engineers and the Federation of African Consultants

Contracts Share from 1/01/2020 till end 2020



Activities and Services

| Fields of Activities | | Services |
|------------------------|------------------------------|---|
| | | |
| | • Distribution | - Distribution Networks |
| 2 | Networks Projects o Rural | Load Research and Load Forecasting Field Measurements |
| ork | • Rural Electrification | |
| etw | Networks | M.V. and L.V. Networks Design Short Term and Long Term Plans |
| Distribution Networks | • Urban Supply | Indoor & Outdoor Lighting |
| ion | Networks | Optimization of Losses |
| put | | Protection Coordination |
| itri | | • Supervision for all Elements of |
| Dis | | Electrical Distribution Networks |
| | | |
| | • Substations up to | - Substations |
| | 500/220KV, | Engineering Services |
| | 220/66KV, | • Protection Coordination |
| JIS | 66/22/11KV | • Substation Control System |
| Substations | | • Switching Stations |
| sta | | • Substation Interconnection |
| duð | | Communication System Procurement Services |
| | | Procurement Services Project Management |
| | | Construction Supervision Services |
| | | o construction supervision services |
| | o Transmission Line | |
| 8 | up to 500Kv | Towers Electrical Design |
| , int | • Power Cables up to | |
| n L es | 220KV | • Surveying Works |
| uission Cables | | • Soil Mechanics |
| Ŭ mĩ | | O Procurement Services |
| Transmission Cables | | Construction Supervision |
| Tr: | | |
| | | |

| ields of Activities Design of Steel and Concrete Structures Procurement Activities Construction Supervision | Civil Works Design & design review of steel structures for overhead transmission towers up to 500KV. Design & design review of telecommunication towers up to 120-meter height. Design & design review of civil works for substation GIS and AIS types up to 500KV include detailed design and shop drawings for control and switchgear buildings, transformers foundation, outdoor equipment supports, trenche and roads. Prepare BOQ and material list structure and architecture items Design reports and provide solution for the upgrade of existing overhead transmission lines, include steel towers and foundations repair and stiffening |
|--|--|
| Concrete StructuresProcurement Activities | Design & design review of steel structures for overhead transmission towers up to 500KV. Design & design review of telecommunication towers up to 120-meter height. Design & design review of civil works for substation GIS and AIS types up to 500KV include detailed design and shop drawings for control and switchgear buildings, transformers foundation, outdoor equipment supports, trenche and roads. Prepare BOQ and material list structure and architecture items Design reports and provide solution for the upgrade of existing overhead transmission lines, include steel towers and foundations repair and |
| | |
| Steam Plants Gas Turbine Plants Combined Cycle Plants Diesel Plants Hydro-Electric Plants Wind Farms Solar PV and CSP Feasibility Studies | Power Station Projects Studies and Project Investigations Engineering Services Procurement Services Project Management Construction Supervision Operational and Maintenance Management |
| Substations Transmission lines Civil Works Distribution networks Power systems studies | Overseas Operations Technical & Financial Offers Conduct Contract Agreement Prepare the Contracts documents Project Management & Construction Supervision Coordination between company participated sectors Assigning EPS Experts for Specific Jobs |
| | Combined Cycle Plants Diesel Plants Hydro-Electric Plants Wind Farms Solar PV and CSP Feasibility Studies |

r, Irage

| | | Activities and Services |
|--|--|---|
| Fields | of Activities | Services |
| Networks Studies and SCADA Control Systems | twork Studies Interconnection Studies Feasibility Studies Protection Coordination Studies Network Planning Network Operation Studies Load Management Energy Audit Load Forecast & Development of Distribution Network Evaluation & Reduction Method for Technical & Non- Technical losses in Distribution Network Power Quality Study Energy Efficiency Protection Coordination Studies for Distribution Network Electro Magnetic Effect on Pipelines Outages & Interruption Studies for Distribution Network Renewable Energy o Other Studies | a) Network and Technical Studies Interconnection of new and existing substations/power stations studies Feasibility studies High, Extra high and medium voltage network planning studies Load forecast & development of distribution network Power quality study Grid impact studies for renewable energy (wind and solar energy) Static studies; load flow, short circuit calculations and contingency analysis. Dynamic, voltage and reactive power control, fault ride through and transient stability studies a) Detailed Engineering Design Services Primary Engineering. Substation general layout & buildings drawing Substation civil works guide and sizing parameters (Ex: Loads) Power Transformers/Reactors/Capacitor Banks Civil work guide Steel structure guide (Equipment Supports & Gantries) Earthing Grid Calculation Notes and drawings & Earthing of the equipment Lightning Protection Calculation Notes and drawings Erection (Installation) drawings to be used by site team HV/MV/LV cables routing details HV Equipment Specification Technical purchasing requirements with detailed BOQ & associated technical specifications for the required material (as Cable Trays/Ladders, HV connectors etc.) |

ELECTRIC POWER SYSTEMS ENGINEERING COMPANY EPS

Protection, Measuring & Metering principal S.L.D. Ο Interlocking principle drawings (for AIS S/S). 0 LV Power Cables Sizing Calculation Notes. 0 Batteries & Battery charges Sizing Calculation 0 Notes. Aux. Transformer Sizing Calculation Notes. 0 o LV Power/Control Cables Cable Interconnection & Termination (Cable Book). A/C - D/C distribution principle. 0 Technical purchasing requisitions with detailed BOQ 0 associated o technical specifications for the required material (LV power and control cables, cable glands, etc.). Control & Protection Panel Schematic drawings. 0 SAS drawings review and interface. 0 Electromechanical Substation lighting system (indoor, outdoor, 0 emergency, .. etc.) • Power sockets and small power (crane, ... etc) system design. Substation air conditioning & ventilation system. 0 o Outdoor fire hydrant system. 2- SCADA, o Fire alarm & detection system. Telecommunication Indoor firefighting system. 0 Control Systems. Water supply and sewage systems for substation 0 The Distribution 0 includes indoor & outdoor design, manholes, exact Companies. root level of each pipe, water tank and sewage tank. The Transmission 0 All related calculations, technical specifications and Company 0 BOO b) SCADA **Distribution Control Centers** - AS a consultant preparation of technical specifications and financial Ο document preparation of technical DATA BOOK document 0 review the pre-qualification of the vendors 0 review the technical offers 0 participate in the analysis of financial offers with the 0 owner participate in the preparation of the contract 0 document between the contractor and the owner supervision on the project execution Ο - AS local consultant with foreign consultant

| | | | 0 | site survey of DPs, SSs, Kiosks |
|--------------------------|---|---------------------------------|--------|--|
| | | | 0 | engineering task like drawing of S.L.Ds of DPs ,SSs, |
| | | | | loops of kiosks |
| | | | 0 | preparation of DATA BOOK document |
| | | | 0 | participate in pre-qualification of the vendors |
| | | | 0 | participate with the foreign consultant in the |
| | | | | supervision of the project execution |
| | | | | Regional Control Centers |
| | | | | - AS a technical support with the contractor |
| | | | 0 | participate in DATA BASE building |
| | | | 0 | participate in Adaptation work in sites and inside |
| | | | | control center building |
| | | | 0 | participate in Testing & commissioning of the |
| | | | | controlled sites |
| | | | 0 | preparation of documentation and as built drawings |
| | | | 0 | training courses for the owner engineers |
| | | | c) | Telecommunication and Control Systems |
| | | | 0 | Planning communication network for data channel |
| | | | | and telephone communication from substations to |
| | | | | control centers and tele-protection for all HV feeders. |
| | | | 0 | Planning for automation and fiberoptic solution |
| | | | | cables and equipment. |
| | | | 0 | Planning for VHF, UHF/GPRS solutions and |
| | | | | broadband MESH WIMAX |
| | | Duain and Madalina | 0 | Installation, testing and commissioning |
| | 0 | Business Modeling | - 0 | Information & Applications Automation Business System Architecture Modeling |
| sec. | 0 | Professional Support Systems | 0 | S.W Engineering |
| tions | 0 | Management | 0 | Networking |
| ati | 0 | Information Systems | 0 | Testing |
| Applica | | and Management | 0 | Implementation |
| Vpl | | Support Systems | 0 | Web Design |
| & ⊦ ma | 0 | Computer Networks | 0 | High availability Solutions |
| tion & App Automation | | (LAN, WAN) | 0 | Geographic Information Systems |
| Au | 0 | Billing Systems | | |
| m | 0 | Geographic | | A Starter Starter |
| Information & Autom | | Information Systems | | |
| In | 0 | ERP | | |
| | 0 | CRM | | |
| | 0 | Hospital Applications | | |
| | | | | |



disst@eps-egypt.com

Scope of work

- Planning & Design supervision electrical networks for agricultural lands
- Planning & Design of Distribution networks for new cities
- Rehabilitation of distribution networks for rural area
- Power factor measurements and how to improve

Projects served

Distributed among the following activities

- Planning and Design of M.V. for main Electrical Networks for East Owinat
- Planning, Design & Supervision for internal electrical networks for 22 plants (10000 Fed) for each Plant for East Owinat
- Planning & Design of Distribution Networks for 27 New Cities
- Design of Electrical Power Supply of 3700 Factories
- Rehabilitation of Distribution Networks for 35 Rural Areas
- Planning and Design of M.V. for main Electrical Networks for Toshka
- Electrical Supply Networks for 3 High Riser Buildings
- Power Factor Improvement for 51 Plants
- Preparation of opacification for led luminaires and approved & kinds of luminaire for all street lighting networks
- Others 200 Projects





Planning & Design of M.V for Electrical Networks for East Owinat Consultancy Services for the Broadcast Television Building (Maspero)

Major Projects

Interconnection Owainat East with the Electric National Grid

Electric Distribution Networks for 22x10000 Feddan 2000 km 22 kv, 300 km 0.4 kV

Completion Date 2020

OverHead Transmission Lines 22kV





Projects served till the end of 2020 = 240 Projects

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Scope of work

- Project study and design
- Feasibility study
- Sid Documents Preparation
- Sids Evaluation
- Prepare Technical Evaluation report with recommendation
- *Prepare Final evaluation report with recommendation*
- Prepare contract documents
- Project Management
- Detailed design review of the substation
- Site Supervision of construction, testing & commissioning till

handing over

Projects served

Distributed among the following voltage levels

| 500 | kV S/St's | 25 |
|---------|-----------|----|
| 380 | kV S/St's | 5 |
| 220 | kV S/St's | 66 |
| 132 | kV S/St's | 4 |
| 66 | kV S/St's | 80 |
| Studies | kV S/St's | 60 |

Zahraa El Maadi 500/220/22 AIS (3*500 MVA)



16 Project Financed from EIB (European Investment Bank)

(9) S/St's 500/220/22 kV
 (7) S/St's 220/66/22 kV





Badr 500/220/22 GIS S/St 3x500 MVA





Zahraa El Maadi 500/220/22 AIS (3*500 MVA)

4 Project Financed from WB (World Bank)

- (2) 500/220/22 kV GIS S/St
- (2) 220/66/22 kV S/St

Strategic National Projects

Owainat East Project

- 220/66/22 kV Substation 2x125 MVA + 3x25 MVA
- Berket Ghlion 66/11 kV substation
- S United factory 66/11 kV substation



Private sectors S/St

- Watania 220/66/22 kV GIS Substation project
- Two Substation Egyptian American Steel Rolling 220/30/11 KV S/ST
 - (Beshay Steel)
- El Marakby Steel 66/33/22 kV S/ST
- Cairo Festival City Project S/ST
- Two S/ST El Massrieen Steel factory 220/33/22 kV
- Medcom Aswan factory 220 kV S/ST
- More than 5 S/S's for Cement factories
- Barwa 1&2 66/22 kV Substation project
- Damac 1&2 66/22 kV Substation project



United 66/11 kV Substation



Conventional Indoor 66 kV Equipment

- ℰ El Motawreen 66/22 kV Substation project
- ℰ El Hay El Motamyez 220/66/22 kV GIS Substation project
- Sonker 66/22 kV Substation project
- ➢ El Marakby steel 66/22 kV Substation Extension project

- Taqa S/ST 220/22/22 kV

ELECTRIC POWER SYSTEMS ENGINEERING COMPANY EPS



Go Through the Future



OVERHEAD TRANSMISSION LINES CABLES

Projects served till the end of 2020 = 730 Projects

ohtl@eps-egypt.com



Scope of work

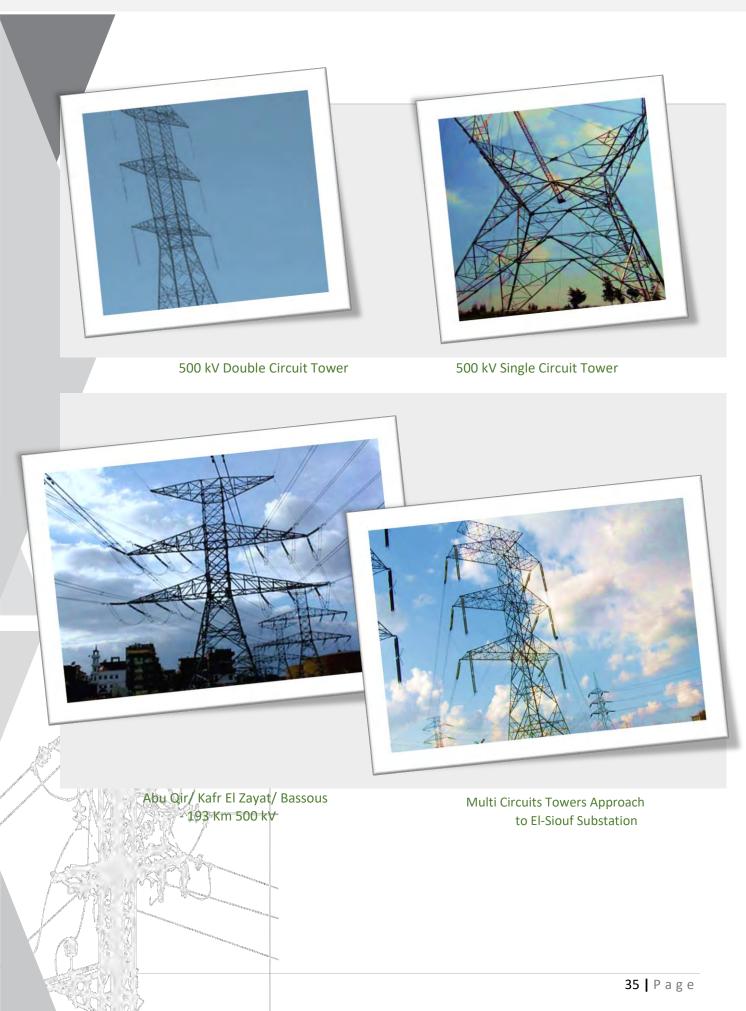
We design, manage and supervise the construction of transmission projects; we have successfully engineered many complex projects, providing the best solutions for transmission problems. Our scope includes but not limited to the following:

- Survey and geotechnical investigations
- Complete designs for Overhead Transmission lines using the most powerful software packages known in the business
- On site supervision of Transmission and Distribution Projects
- Design and supervision of Underground Cable installations for high and medium voltage projects
- Preparation of tender/contract documents as well as tender evaluation, technically and financially
- Studies for upgrading the aged High Voltage and Medium Voltage networks
- Planning, feasibility studies and selection for the best economical and technical solutions for new and existing Overhead Transmission Lines

Proiects served 29264 km

| 500 | kV T.L | 9470 | Km |
|------|-----------|-------|----|
| 400 | kV T.L | 1470 | Km |
| 380 | kV T.L | 950 | Km |
| 220 | kV T.L | 11103 | Km |
| 132 | kV T.L | 400 | Km |
| 66 | kV T.L | 4580 | Km |
| 34.5 | kV T.L | 36 | Km |
| 220 | kV Cables | 9 | Km |
| 66 | kV Cables | 1130 | Km |
| 11 | kV | 216 | Km |

Distributed among the following voltage levels



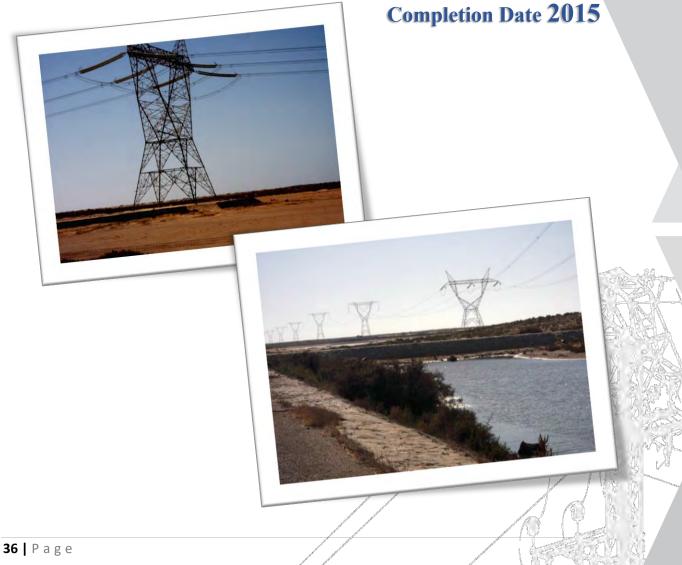
Major Projects

Zahraa Maadi Interconnection

Completion Date 2018

Single Circuit OHTL Abu Qeer/ Badr 500

Total Length 344 km



Double Circuit OHTL Samalut / Suez Gulf 500 kV

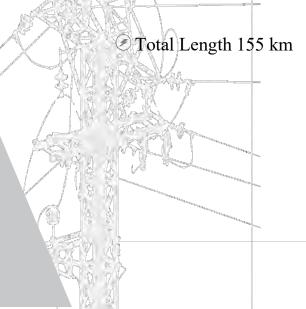
Total Length 257 km



Completion Date 2017



Double Circuit OHTL Tebben / Kurimat 500 kV



Completion Date 2019

Go Through the Future

-

Projects served till the end of 2020 = 473 Projects civil@eps-egypt.com

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Scope of work

EPS civil sector provides consultancy services for the structure and architecture design, preparation of technical specifications and tender documents, projects management, construction supervision especially for substations up to 500 KV, power generation, OHTL towers up to 500 KV and telecommunication towers.

Services provided are given a competitive advantage as we apply the latest method of technology in the engineering by using the latest international computer systems and program, the scope of services include but not be limited to the following:

Engineering service

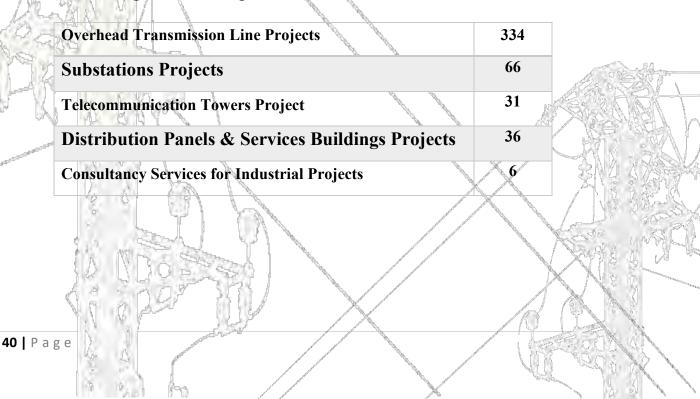
- Detail design of architecture and structure for substations (66, 220, 500 kV).
- Steel structure design of over Head transmission towers for 66, 220 and 500kV
- Steel structure design for Gantries and Equipment supports.
- Detail design of foundations for O.H.T towers.
- Design of service roads for renewable energy projects of wind farms and solar energy plants.
 - Preparation of work shop drawings for all architecture and structure drawings.
- Technical and structure studies for strengthening of existing O.H.T steel towers.

Construction supervision

- Supervision of foundation work for O.H.T.L.
- Coordination between different contractors.
- Material inspection and testing.
- Follow up all construction activities with respect to project schedule.

473Proiects served Projects

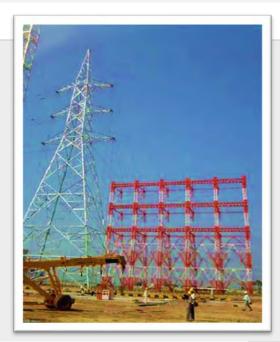
Distributed among the following activities



ELECTRIC POWER SYSTEMS ENGINEERING COMPANY EPS



Design & Construction Supervision Of MicroWave Towers



Loading test for Towers



Deep Foundations (Piles) for OHTL



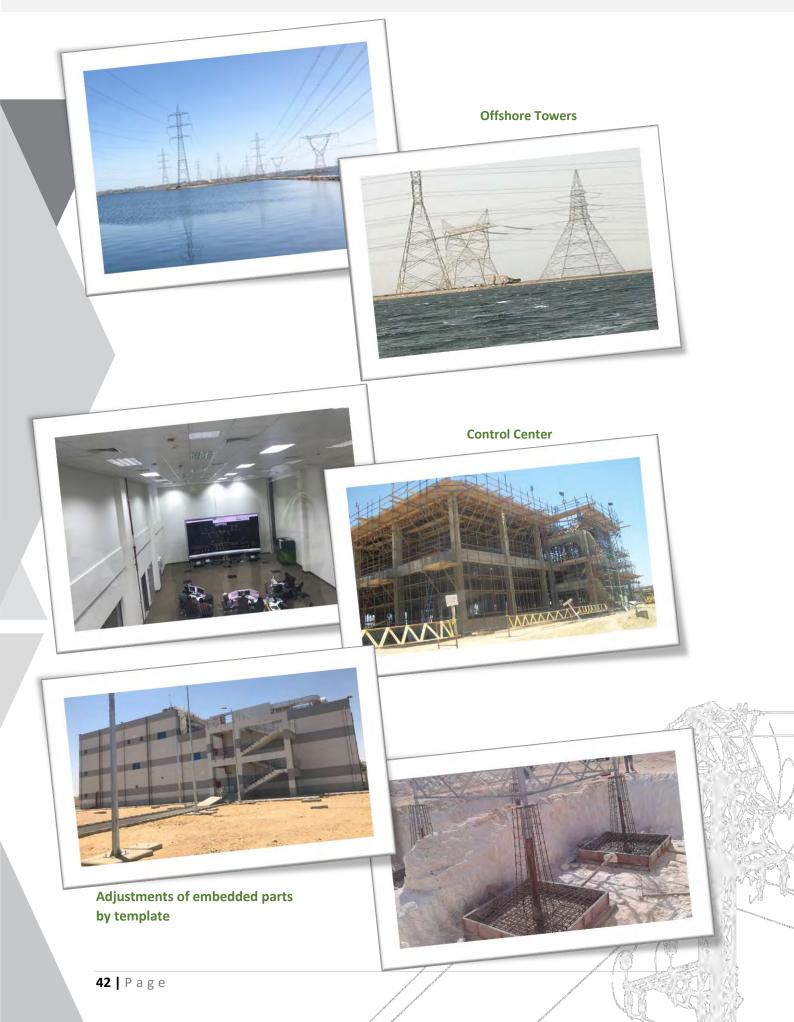
Foundation for OHTL

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ELECTRIC POWER SYSTEMS ENGINEERING COMPANY EPS



Core Test for Quality control







Test for soil compaction





Soil replacement and compaction





Plate Load Test on Soil Replacement

Go Through the Future

STREET, BOOL

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STATIONS

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PROJECTS

Projects served till the end of 2020 = 73 Projects

powgen@eps-egypt.com



Scope of work

Power stations services cover

- Feasibility Studies & Project Investigations
- Engineering Services
- Procurement Services
- Project Management & Construction Supervision
- Operation & Maintenance Services
- Maintenance Management systems

Total Generation Capacity Served

Distributed among the following types of Power Stations

- Steam Power station
- **Solution** Gas Turbine Power station
- Diesel Power station
- **Combined Cycle Power station**
- **Seasibility Studies**
- 1- Steam Power stations:
- 14 Projects with a total power reached 7535 MW
- 2- Gas turbine and Combined Cycle power stations:
- 7 Gas turbine projects 7 combined cycle projects with a total power reached 5775 MW
- 3- Diesel Power Stations:
- 12 Projects with a total power reached 84.9 MW
- 4- Co-Generation Power stations:

Two Projects with a total power of 26.3 MW

- 5- Hydraulic Power stations:
- 5 Projects with a total power reached 169.3 MW

- Co-Generation Power station
- **When the set of the s**
- **Wind Farms**
- Solar PV & CSP

6- Wind Farm:

13 Projects with a total power of 2265 MW distributed as follow: -

- NREA/DANIDA Zafarana Wind Farm Phase I (30 MW)
 The project comprises 50 units of 600 kW. The units are running now.
- NREA/DANIDA Zafarana Wind Farm Phase II (30 MW)
 The project includes 46 units of 660 kW. The farm is running now.
- NREA/KFW Zafarana Wind Farm Phase I (33 MW)
 The farm is consisting of 55 wind energy converters of 600 kW.
 The units are running now.
- NREA/KFW Zafarana Wind Farm Phase II (47 MW) The project comprises 71 units of 660 kW the units are now running.
- Spanish 85 MW wind farm. EPS acted as main consultant for all local works. The project comprises 100 turbines of 850 kW each.
- Kfw IV Zafarana 80 MW wind farm. EPS acted as sub-consultant with LI as main consultant. The project comprises 94 turbines of 850 kW capacities each.
- JBIC Wind Power Plant Project at Zafarana (120 MW) NREA sub-consultant with Decon. The project comprises 142 turbines of 850 kW capacities each.
- JICA 220 MW Wind Farm Power Plant at Gabal El-Zeit as Subconsultant to Lahmayer in the field of MV and LV network and carry out the feasibility syudy.
- 250 MW BOO Wind Power Plant Project at Ras Ghareb as a Consultant for the main contractor (Orascom Construction).
- 500 MW Consultancy services agreement with NREA for operation and maintenance of the wind farms at Zaafarana in order to improve the availability and productivity of the plant.
- Consultancy services for Orascom construction (Main contractor) ,500 MW BOO Wind Power Plant project at Ras Ghareb (running).
- 250 MW Wind Farm at Gulf Suez, Ras Ghareb NREA- sub consultant with Tractebel (running).
- EPS rendered feasibility studies for the following project: 120 MW Italgen Wind Farm at Gulf El Zeit.

7- Solar Energy:

EPS had signed joint venture agreements with the following entities: -

British University Egypt (BUE).

Solar Technology Advisor (STA).

Engcotec Advanced Technology – Prof Dr. Ibrahim Samak.

New and Renewable Energy Authority (NREA).

NOKRASHY Engineering Gmbh Prof. Dr. Hany El Nokrashy.

In the field of Solar Power Stations Project.

Provide consultancy services for operation and maintenance of Kureimat themal solar power plant 140 MW for NREA.

EPS were sub-consultant for the Engineering Services for Kureimat Solar Power Station (140 MW) with the German Consultant Fitshner.

- EPS completed the project of installing 10 KW PV solar over its Building at Sheraton Heliopolis.
- EPS has been assigned to be the independent engineer for the feed in Tariff (FiT) PV power projects at Benban 1800 MW and Zaafarana 305 MW with a total power of 2105 MW.
- EPS is the main consultant to carryout the consultancy services including the detailed design for 3 plots with total power of 165 MWp PV, FiT power plants at Benban.
- EPS was selected by Egyptian Transmission Company as a short list with STA for offering consultancy services for 200 MW at Kom Ombo.
- EPS provided support to Egyptian Electricity Transmission Company (EETC) for technical analysis and evaluation of the contractor's proposals in the field of wind farm and PV solar projects at Egypt with a capacity reaches 4300 MW BOO Projects.
- 8- Feasibility studies:
 - EPS prepared a study to develop the performance evaluation for electric production companies in the Arab Republic of Egypt and determine the target values for the operation key performance indicators according to international standards for the benefit of the Electricity utility and consumer protection Regulatory Agency.
 - EPS performed pre-feasibility studies for PV solar system at Canal Electric Distribution Company.
- S MW Co-generation project KC textile factor at 10th, of Ramadan City.
- EPS/Engcotec achieved the following activities in the first stage of New Toushka City (5000 KWp solar PV) project:
 - Performing the feasibility study.
 - Prepare the study of interconnection the solar park with the unified grid.
 - Preparing the tender documents for the project
 - Assist the Owner (NUCA) in the evaluation of the contractor offer.
- The scope of EPS/Engcotec will also include the following tasks for the above project of New Toushka City:
 - Supervision of erection and commissioning
 - Prepare the provisional Acceptance Certificate (PAC)
 - EPS prepared the feasibility study for 20 MW and 50 MW CSP for the Owner (NUCA).

ELECTRIC POWER SYSTEMS ENGINEERING COMPANY EPS



Al korimat Solar Thermal Power Stations



Zafarana Wind Farms

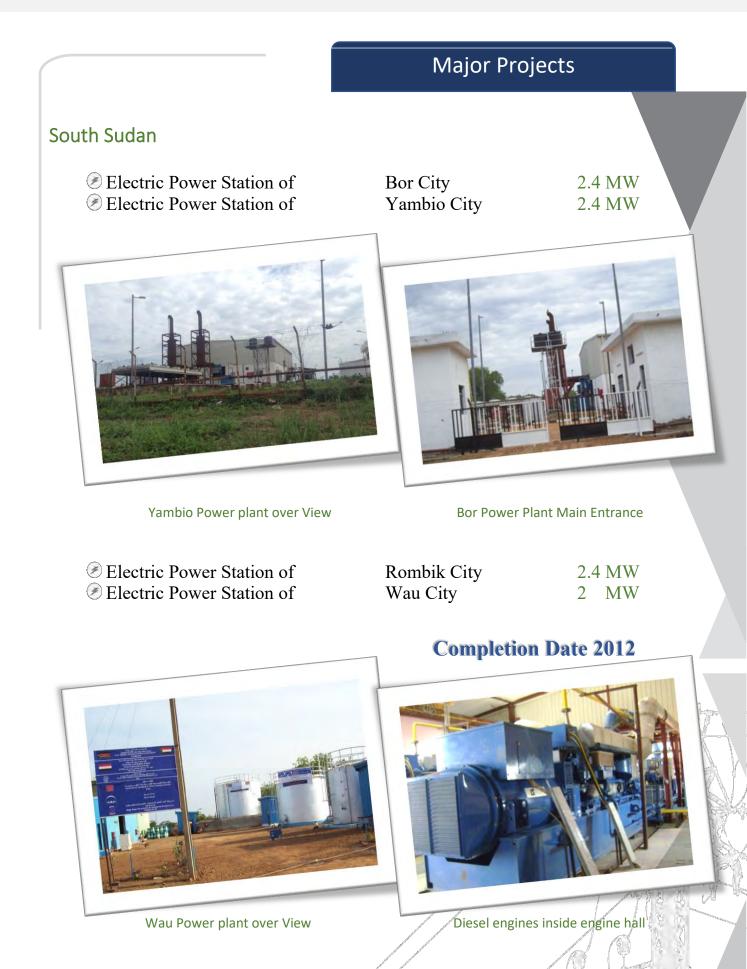


Karama Power Plant



Damietta Combined Cycle Power Station





Owainat East Project

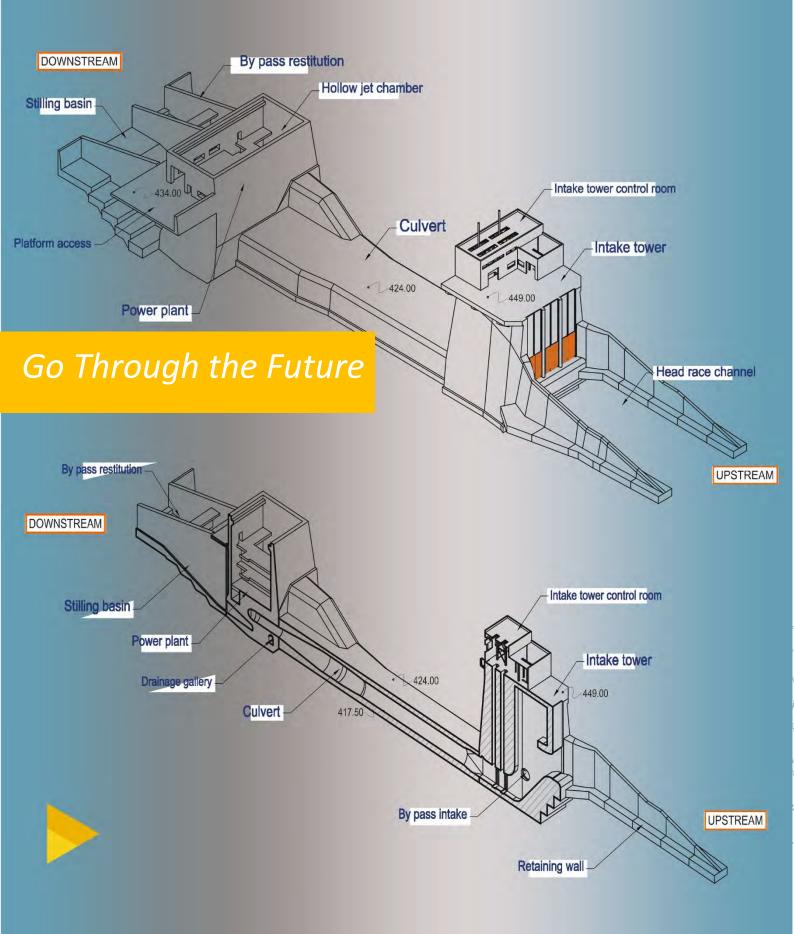
S Electric power stations 4 MVA each

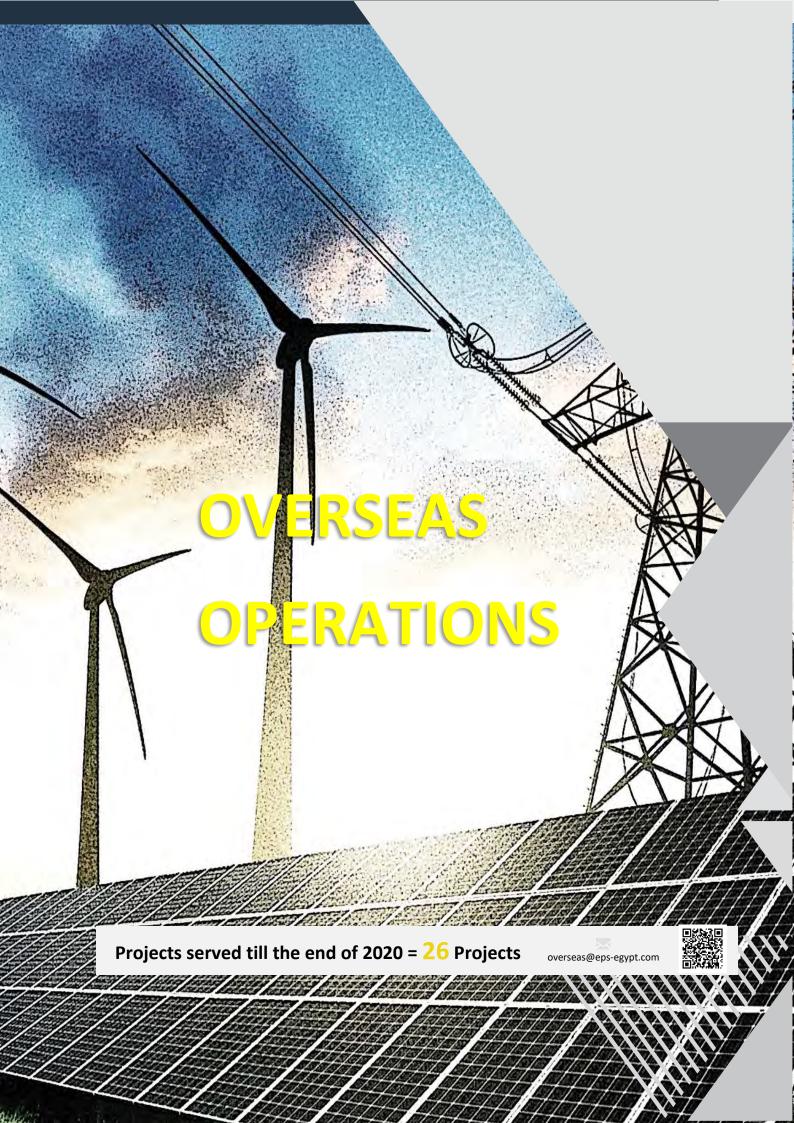
Completion Date 2012



Diesel engines inside engine hall







Scope of work

- Conduct Pre-feasibility Study & Feasibility Study.
- Study and prepare technical and financial tender documents according to client TOR.
- Design of reinforced concrete structures and reinforced concert deep and shallow foundations for Substations, Power Generation & OHTL's.
- Prepare contract documents between the client and EPS.
- Prepare contract documents between the client and successful bidders.
- Project management and construction supervision
- © Coordination between company participated sectors
- Conduct contract / progress meetings
- Assign EPS experts to participate for providing engineering services for specific jobs.
- Provide required assistance to the client during guarantee period
- Setting KPI (key Performance Indicator) to measure the implementation of contracted work.
- Technical consultant for supervision & monitoring for facility management contractor (FMC).
- Independent Engineer, Report to stakeholders the status, progress& achievement of milestone.
- Independent Engineer To attend Operating Committee meetings

Overseas Projects

- Providing Consultancy Services to Oman Electricity Transmission Company (OETC) in Sultanate of Oman, Qatar General Electricity and Water Corporation (KAHRAMAA) in Qatar, Saudi Electricity Company (SEC) in Kingdom of Saudi Arabian, Dubai Electricity Water Authority (DEWA) in United Arab of Emirates, Republic of South Sudan Government, Burundi Government, General Electrical Company Of Libya (GECOL) in Libya and Algerian Energy Company (AEC) in Algerian for Substations, Transmission Lines, Civil Works, Distribution Networks and Power Systems Studies Projects.
- Independent Engineer for infrastructure (substations, OHTL, underground cables, Local monitoring center, roads around the site (ring road) & internal roads.
- Reporting to Stakeholders on the state of completeness of the relevant Infrastructure Works.
- Determining whether the infrastructure works milestones have been achieved.
- Independent Engineer To attend Operating Committee meetings.

- Review and agree the matters relating to the construction, commissioning, operation and maintenance of the Project.
- Technical consultant for supervision & monitoring of facility management.
- Coordinating with the FM contractor to set time schedule for Monitoring and Supervision.
- Setting KPIs to measure the implementation of contracted works for each activity.
- Supervision of implementation of Contractor works.



Running

Technical Consultant (TC) for Lekela Egypt Wind Power BOO S.A.E

Running

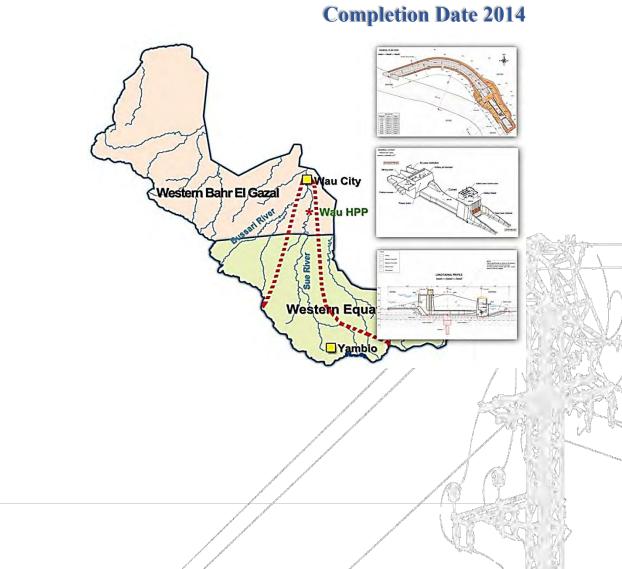


South Sudan

Selectric Distribution Network of Wau City



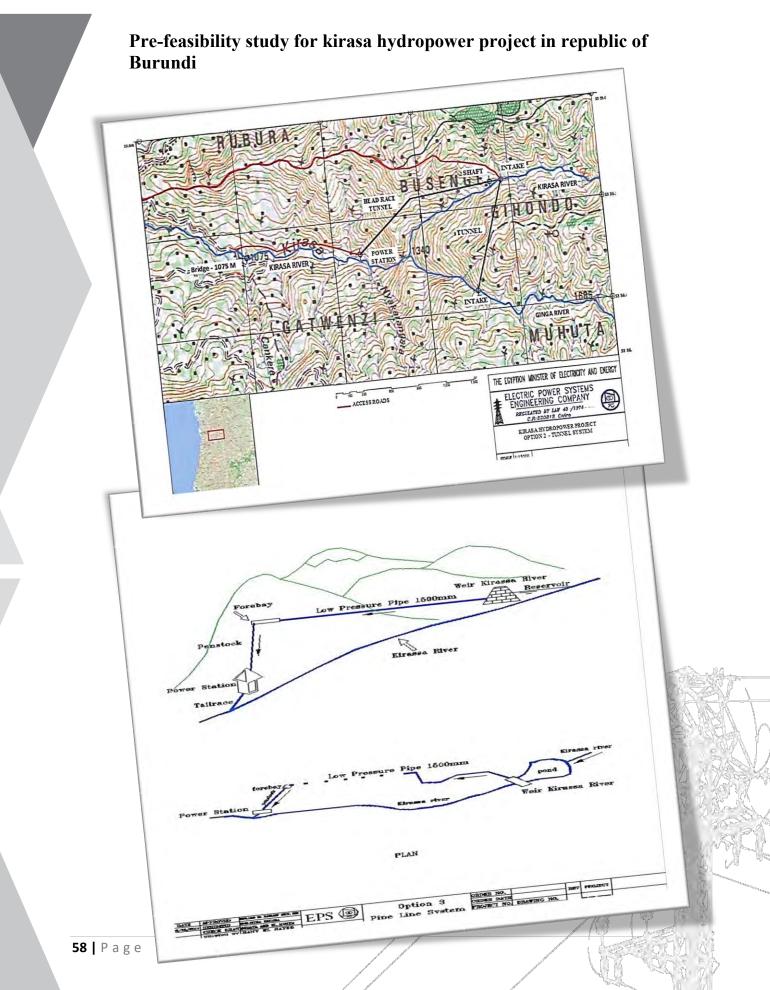
Completion Date 2012



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Burundi





STEMS

MORKS

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syseng@eps-egypt.com

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Scope of work

The Networks studies and control system sector including:

- Network and Technical Studies
- Detailed Engineering Design Services
- SCADA, Telecommunication and Control Systems

1. Network Studies

- Selectrical Network Planning Studies
- A. Load forecast studies.
- B. Planning of high voltage, extra high voltage and medium voltage networks including.

Static studies:

Load Flow Calculations Study.

- F Three Phase and Single-Phase Short Circuit Calculations Study.
- Contingency analysis.

Dynamic studies:

- Dynamic studies have been performed to assess the system stability and to establish the stability limits following a set of critical faults on the power system. These studies assess the dynamic performance of transmission system modelling.
- C. Rehabilitation and expansion of electrical power High voltage networks.
- D. Planning of medium voltage networks including load forecast.

Interconnection studies

Interconnection of new and existing substations/power stations studies for the power system high voltage (unified network).

Interconnection Studies for Renewable Energy Plants

Study the impact of the connection of wind farm generations as well as the solar plant (Static and Dynamic studies)

Projects:

- Gird Impact Study for Al-Subh Solar Project Plants for Three different plots (including static and dynamic studies) according to the Egyptian Gird Code requirement for 50 MW PV Solar projects in Benban.
- 250 MW BOO Wind Power Plant Project at Ras Ghareb as a Consultant for the main contractor (Orascom Construction).
- Study the influence of the interconnection of Masder (200 MW) Wind Farm to the Unified Power.
- Study the influence of the interconnection of Italgen Wind Farm to the Unified Power System by the year 2013.

2. Detailed Engineering Design Services

The detailed Electrical Engineering includes the following activities:

A. Primary Engineering.

In substation projects, the engineering works related to HV design and general installation part (primary engineering) include the following items:

- Substation general layout & buildings drawing
- Substation civil works guide and sizing parameters (Ex: Loads)
- Power Transformers/Reactors/Capacitor Banks Civil work guide
- Steel structure guide (Equipment Supports & Gantries)
- Earthing Grid Calculation Notes and drawings & Earthing of the equipment
- Lightning Protection Calculation Notes and drawings
- Erection (Installation) drawings to be used by site team
- HV/MV/LV cables routing details
- HV Equipment Specification
- Technical purchasing requirements with detailed BOQ & associated technical specifications for the required material (as Cable Trays/Ladders, HV connectors etc.)

B. Secondary Engineering

In substation projects, the engineering works related to LV system control (Secondary Engineering) include the following items:

- HV/MV Substation Single Line Diagram (S.L.D)
- A/C-380/220V S.L.D.
- Ø/C -220V S.L.D.
- O D/C-48V S.L.D.
- Protection, Measuring & Metering principle S.L.D.
- Interlocking principle drawings (for AIS S/S).

- LV Power Cables Sizing Calculation Notes.
- Batteries & Battery charges Sizing Calculation Notes.
- Aux. Transformer Sizing Calculation Notes.
- LV Power/Control Cables Cable Interconnection & Termination (Cable Book).
- \bigotimes A/C D/C distribution principle.
- Technical purchasing requisitions with detailed BOQ & associated technical specifications for the required material (LV power and control cables, cable glands, etc.).
- Solution Control & Protection Panel Schematic drawings.
- SAS drawings review and interface.

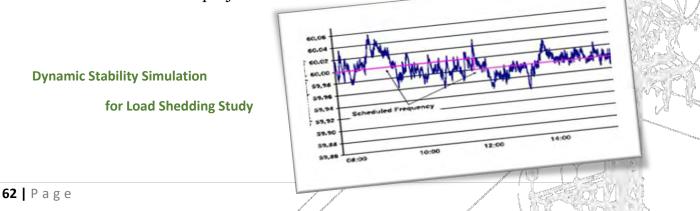
C. Electromechanical

In substation projects, the engineering works related to Electromechanical system include the following items:

- Substation lighting system (indoor, outdoor, emergency, .. etc.)
- Power sockets and small power (crane, ... etc) system design.
- Substation air conditioning & ventilation system.
- Outdoor fire hydrant system.
- Fire alarm & detection system.
- Indoor firefighting system.
- Water supply and sewage systems for substation includes indoor & outdoor design, manholes, exact root level of each pipe, water tank and sewage tank.
- All related calculations, technical specifications and BOQ

Projects:

- Benban (3) 500 kV GIS Substation (500/220/22) kV.
- ➢ El Narges (220/66/22) kV GIS Substation
- 250 MW BOO Wind Power Plant Project at Ras Ghareb as a Consultant for the main contractor (Orascom Construction).
- Tameya (220/66/11) kV GIS Substation.
- Sharm (220/66/11) kV GIS Substation.
- Hurghada (220/66/11) kV GIS Substation.
- BenBan (1,2,3&4) substations (220/22) kV.



3. Telecommunication and Control Systems

EPS participate in the following control centers as a consultant

A. Distribution Control Center

- North Cairo distribution control center
- Alexandria distribution control centers (East West Middle)
- Canal distribution control centers (Ismailia 10th of Ramadan)
- North Delta distribution control center (El-Mansoura)
- South Delta distribution control center (Tanta)
- Middle Egypt (Menya Asyut)
- Electricity distribution systems improvement projects:
 - 🗲 North Cairo: Helmiya
 - 🗲 North Delta: Damietta
 - 🗲 Alexandria: Borg Alarab

B. Regional Control Centers

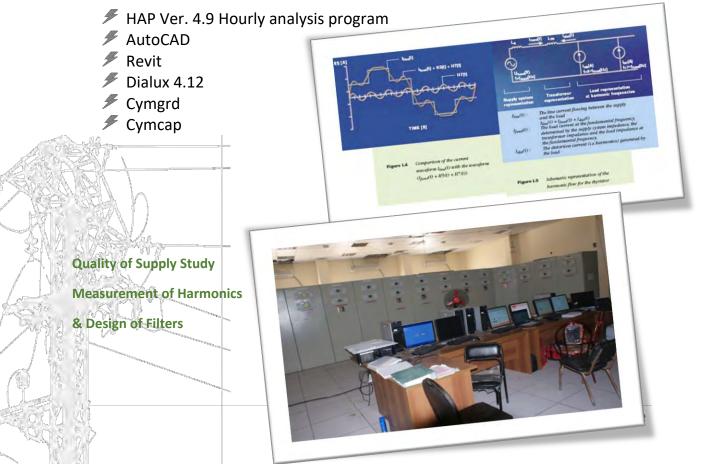
- Canal Regional Control Centers (CANRCC)
- Upgrading Upper Egypt Regional Control Center for Nga Hamady.
- Upper Egypt Regional Control Center for Samalout.

Software packages:

Networks and Technical Studies:

- PSS/E Ver.34.5 (Power System Simulator for Engineers)
- ETAP Ver.20.0.0(Electrical Transient Analyzer Program)

In Detailed Engineering Design Services



Projects served

Distributed among the following activities:

| Interconnection Studies | 25 |
|--|-----------|
| Feasibility Studies | 12 |
| Protection Coordination Studies | 20 |
| Network Planning | 30 |
| Network Operation Studies | 11 |
| S Load Management | 4 |
| Energy Audit | 43 |
| School Load Forecast & Development of Distribution Network | 26 |
| Evaluation & Reduction Method for Technical & | |
| Non-Technical losses in Distribution Network | 39 |
| Power Quality Study | 4 |
| Energy Efficiency | 9 |
| Protection Coordination Studies for Distribution Network | 5 |
| Electro Magnetic Effect on Pipelines | 2 |
| © Outages & Interruption Studies for Distribution Network | 1 |
| Supervision of Installation & Construction of | |
| Distribution Network | 1 |
| S Voltage drop and power losses studies | 1 |
| Renewable Energy | 7 |
| Wind Farm | 5 |
| Nuclear Power Plant | 1 |
| PV Plant | 3 |
| Other Studies | 65 |
| Detailed Engineering Design for Substations | 15 |
| Distribution Network Control Centers | 16 |
| Regional Control Centers | 2 |
| Communication Networks | 3 |
| Water Network Control Centers | 1 |
| Control Centers Upgrade Studies | 4 |
| | 2 |
| SCADA Adaptation (Installation and Testing) | 4 |
| DMS Training | 4 |
| | |
| | The start |



The Role

Initiate the project through a development cycle, from initial planning to production based on customer needs.

- Developing of Software Integrated Packages (Technical Financial Administrative - Technical)
- Design and Implementation of Integrated Solutions
- Supplying of hardware (Servers PCs Printers)

Development Methodologies

- Software Engineering Development Process
- **Business Molding**
- ERD Diagrams for Database
- Object Oriented Design
- Object Oriented Analysis
- Solution Object Oriented Programming

We are providing a Qualified Technical Support Team for Applications and Databases.

Using The latest technologies of Computers, Servers, as well as the latest release of Databases such as Relational DB SYBASE, MS SQL Server, ORACLE, others

Our Mission

Development Software Applications

- Desktop Applications
- Web Applications
- Mobile Applications
- Maintained and support Applications
- Network solutions
- Hardware solutions and implementations



A unified program across Egypt

Unified Electric Meters Readings System

Electric Meters Readings System Is a Uniquely Designed Systems Which aims to record the Electric Meters Readings with high accuracy to reach a valid Electricity bill, nationwide.

The unified Meters reading system aims to eliminate the usual billing errors, record the readings as well, and avoid human errors using the latest technology



and sophisticated System Design which enforces the meter reader to take a photo of the meter attached with the meter reader location and immediately send this data to the distribution companies to be validated and approved before issuing the Electricity Bills.

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The subscribers' unified readings App record the meter reading and send it instantaneously to its distribution company through the app that photograph the meter and record the reading easily by entering the subscriber's reference and the meter number registered in the electricity bill.

Currently it is available on Google Play and is being added on the Apple App Store

All of this is done through a mobile application installed on mobile phones that run on Android system, which work according to the standards of digital connectivity, to allow the Meter Readers company "Shoaa" to record the Meters readings monthly

The System is currently Implemented Nationwide for the electricity customers at 9 distribution companies and serves over 23 Million Customer

Automation of subscribers' services

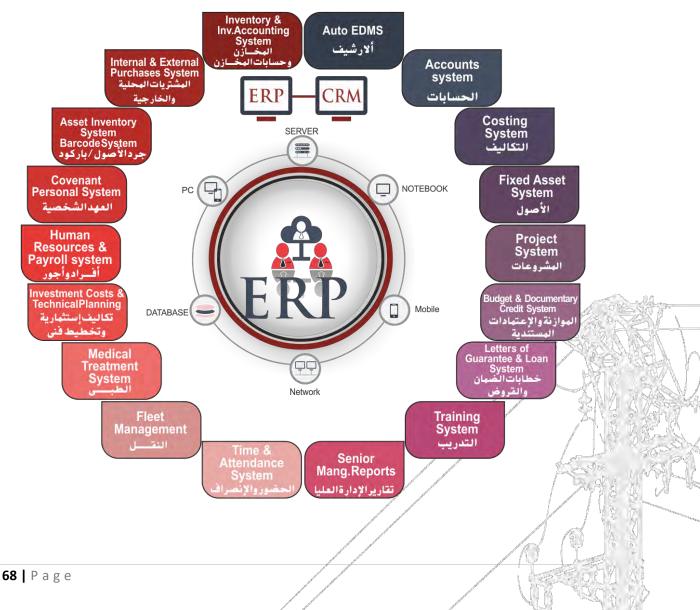
The project aims to integrate the daily operations carried out by each of the commercial and technical departments concerned with serving the subscribers

through a computer-based system to automate those processes, as well as issuing monthly invoices in a way that achieves the speed and accuracy of obtaining information and contributing to the decision-making and serving this project includes all subscribers applying to perform services.

ERP Systems

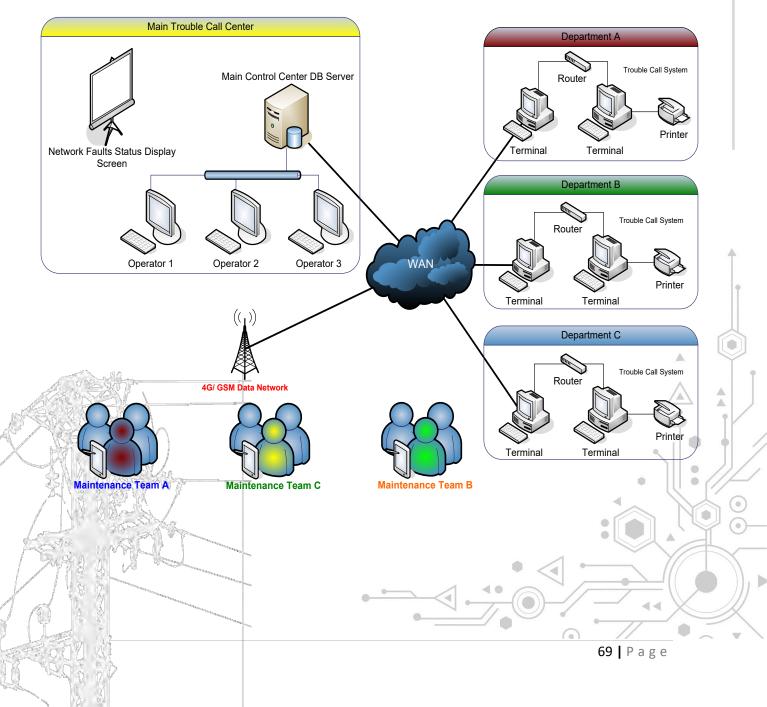
It is an integrated system that includes financial and administrative programs that cannot be dispensed with in all fields because it is compatible with the work system and regulations for each party, whether governmental bodies, private companies or business sectors

It works to serve the individual and the company and provides current and future solutions and speed of implementation so that the information is entered once and traded with all programs to complete the inputs, expenditures, revenues, and archiving of documents.

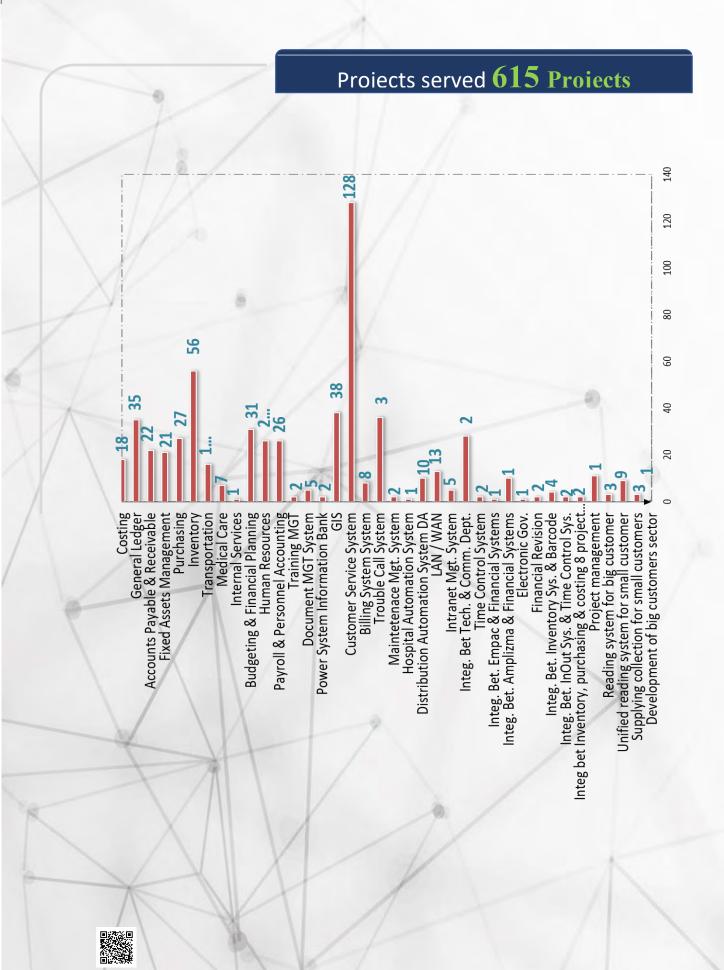


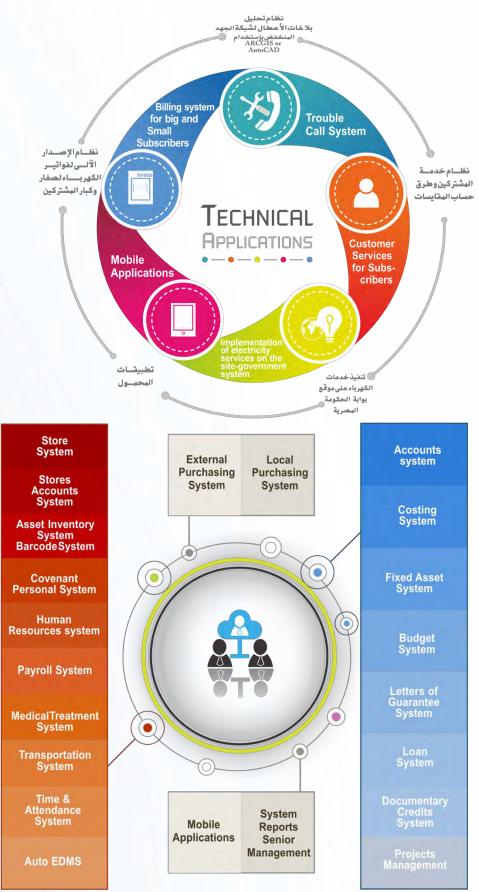
The activities as follows

- 1. Preparation of offers and contracting process and project management
- 2. Requirements Definition
- 3. Design
- 4. Development
- 5. Integration and Testing
- 6. Installation in customer site



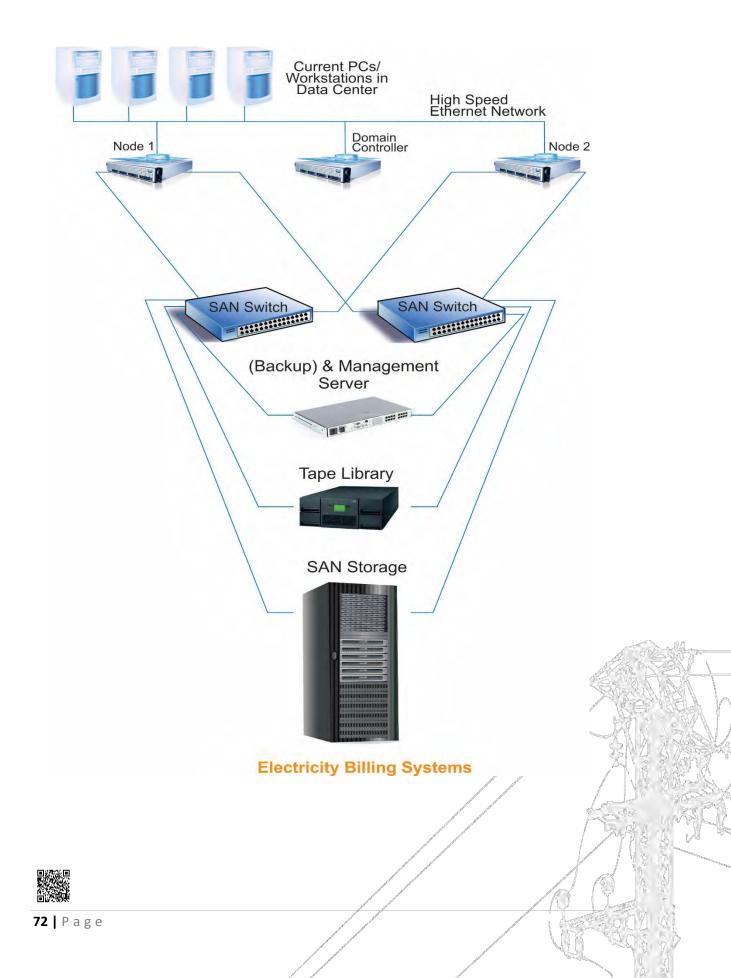
Trouble Call System





Financial and Administrative Application Systems





EPS Training Center



Services

- Class-Room Training
- On Job Training
- Laboratory Testing
- Field Training
- Software Applications



EPS is providing different training programs. One goal of the training activity is to provide trainees with the specific knowledge and skills necessary to effectively perform their work. The training plan may also include, strategies for marketing. **EPS** training programs covering the fields of Power Stations Projects, Transmission, Distribution, Control Communication, and Information Technology.

Training courses are tailored to meet the needs of individuals, teams and organizations and are customized for developing their skills and improving their innovations and creativity.

EPS has an equipped training facility for formal class-room, and theoretical training. The training programs are structured as a mix of theory, practical experience knowledge, and laboratory experiments.

EPS is using the laboratory facilities available at the Training Centers in Egypt.

The following training programs were provided at **EPS**'s Training Centre:

- High Voltage Substation General Diploma.
- Primary substation Design.
- Substation protection, Testing& commissioning Secondary design.
- Substation protection, Testing& commissioning Secondary design (advanced).
- Power System Studies.
- Project Management.
- Distribution Course Level 1.
- Distribution Course Level 2.
- Substation Automation System (SAS).
- Planning of High Voltage Networks.
- Planning of Distribution Networks.

- Protection Coordination for Electrical Systems.
- Maintenance and Operation of Distribution Networks.
- Improvement of the Performance and efficiency of Power Stations .(Steam, Gas Turbine, Combined, Cycle, Hydraulic, and Diesel Stations).
- Operation and Maintenance of all types of Power Stations.
- Shaft Alignment, Balancing and Vibration monitoring of different types and Power Stations Rotors.
- Operation of Control Centers.
- Geographic Information Systems.
- Modern Transmission Lines Survey using Total Stations.
- Optimum Tower Spotting for High Voltage Transmission Lines using Computers.
- Short Term Unit Commitment for Power Stations.
- Large Scale Project Management.
- Legal Rules and Regulations for Electricity Companies.
- Distribution Networks Design & Planning.
- Safety in substations and switchyards.
- Dielectric oil testing and how to determine the transfer technical state form oil testing results.
- Dielectric gas SF6 testing technical state assignment
- Design and optimization of OHL using PLS-CADD and PLS. Tower SW.
- Electrical network study and planning and network losses reduction.
- Occupation safety and health administration.
- Quality management system documentation control.
- Numerical bay control unit.
- Wireless techniques.
- New generation in telecommunication systems.
- Interfaces between different telecontrol protocols .
- Computerized maintenance.
- Feeder protection, remote terminal units and SCADA systems.
- System grounding design and planning.
- Power feeding for the isolated area far away from the general electrical network.
- Information evaluation.
- Civil survey.
- Using the international standards.
- Power quality improvement for different loads.
- Planning and design methods for distribution for low voltage distribution networks.
- Study of protection against electrical shocks.
- Power Quality and energy saving.



• Electrical network performance implements and new power management .

1- EPS Stuff training

The Training for EPS stuff includes:

- Governance (Reasonable management)
- Anti-corruption compliance
- Strategi Plans

2- External Trainees

About 150 Trainees from the General Electricity Company of Libya, 50 from Public Electricity Corporation of Yemen, 45 from Southern Sudan Electricity Corporation (SSEC), 10 from Sultanate of Oman and 515 from Egyptian Electricity and Energy Sectors.

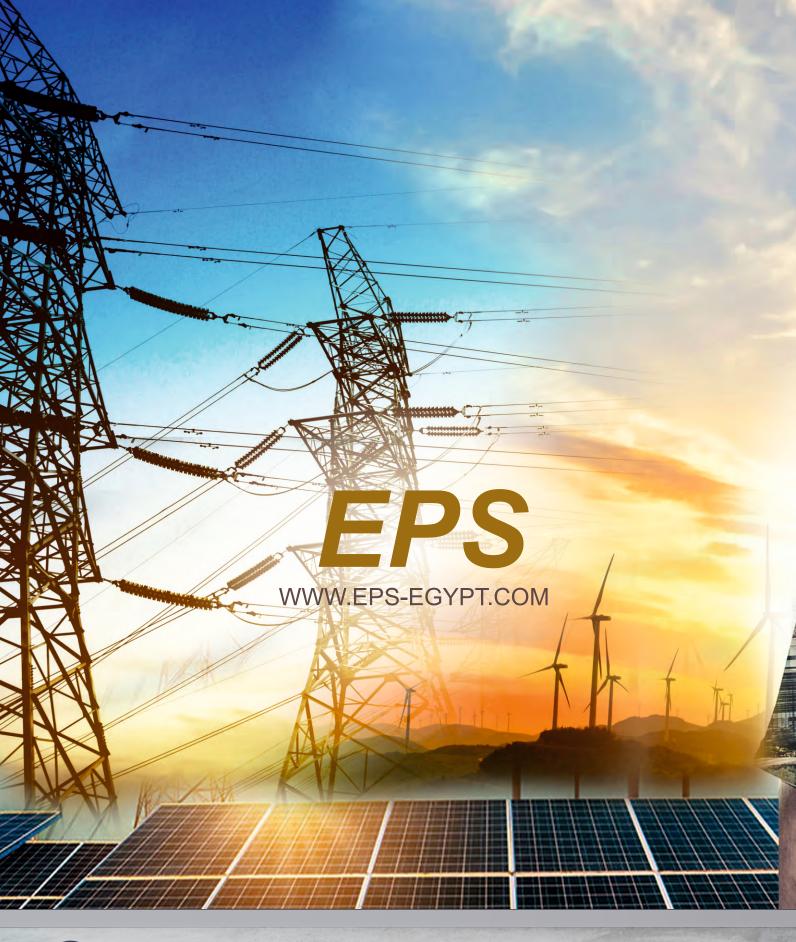
In addition to the above programs EPS has conducted training in Software applications to the employees of the different customers. Training covered how to run and maintain the application software in addition to databases such as: ORACLE, SYBASE, ACCESS, etc. Also, operating systems such as: Windows NT, Windows 2000, UNIX and open VMS are covered.

- The Number of Trainees till the end of 2019/20, reached more than 2050 Trainee.

The Training programs are to be organized at different locations as follows:

- o EPS's Training Center at Cairo.
- o Hotels.
- o Customer's premises.
- Ministry of Electricity & Renewable (MERE) and EDCS's laboratories training Centers and site visits to the power utilities.

Designed by Sherine Shehata





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Designed By Sherine Shehata