



Eraconix

ENGINEERING CONSULTANCY

ENGINEERING CONSULTANCY SERVICES

VISION

- **ERACONIX** Engineering Services is determined to achieve the hard equation of Happy Clients and Happy Employees.
- Values of Customer Satisfaction and High Quality Services delivered to our customers are necessary and ensured to be an everyday practice.
- Every Project is a new challenge and we strive to achieve the best possible results.
- We utilize our areas of expertise to deliver sustainable and complete design services to our clients through quality, innovation, and sustainable solutions.

We Are Simply Good at It and We Enjoy Doing It.



MISSION

- **ERACONIX** offers comprehensive services from project concept to long term support including project management, consultation, design, configuration, equipment upgrade, and training.
- **ERACONIX** is committed to invest its vast technical expertise in Public, Industrial, and Infra-Structure projects.
- **ERACONIX** staff consists of talented engineers, well-based experience, and academic positions in reputed Egyptian Universities.
- **ERACONIX** offers complete design services from concept through delivery. We ensure seamless integration of engineering systems to support and enhance our designs with High efficiency and cost-effective solutions.
- **ERACONIX** provide a complete set of BIM services; Efficient, accurate, productive, and competitive services, consequently, satisfying the client's requirements.



SCOPE OF WORK

1

Public Buildings: Hotels, Factories, Schools, and Housings Design

2

Power Substation Design

3

Renewable Energy Resources Studies

4

Value Engineering & Scope Optimization

5

Capacity building programs and on-job training for electrical engineers

ERACONIX DEPARTMENTS

Architecture

Civil & Structure

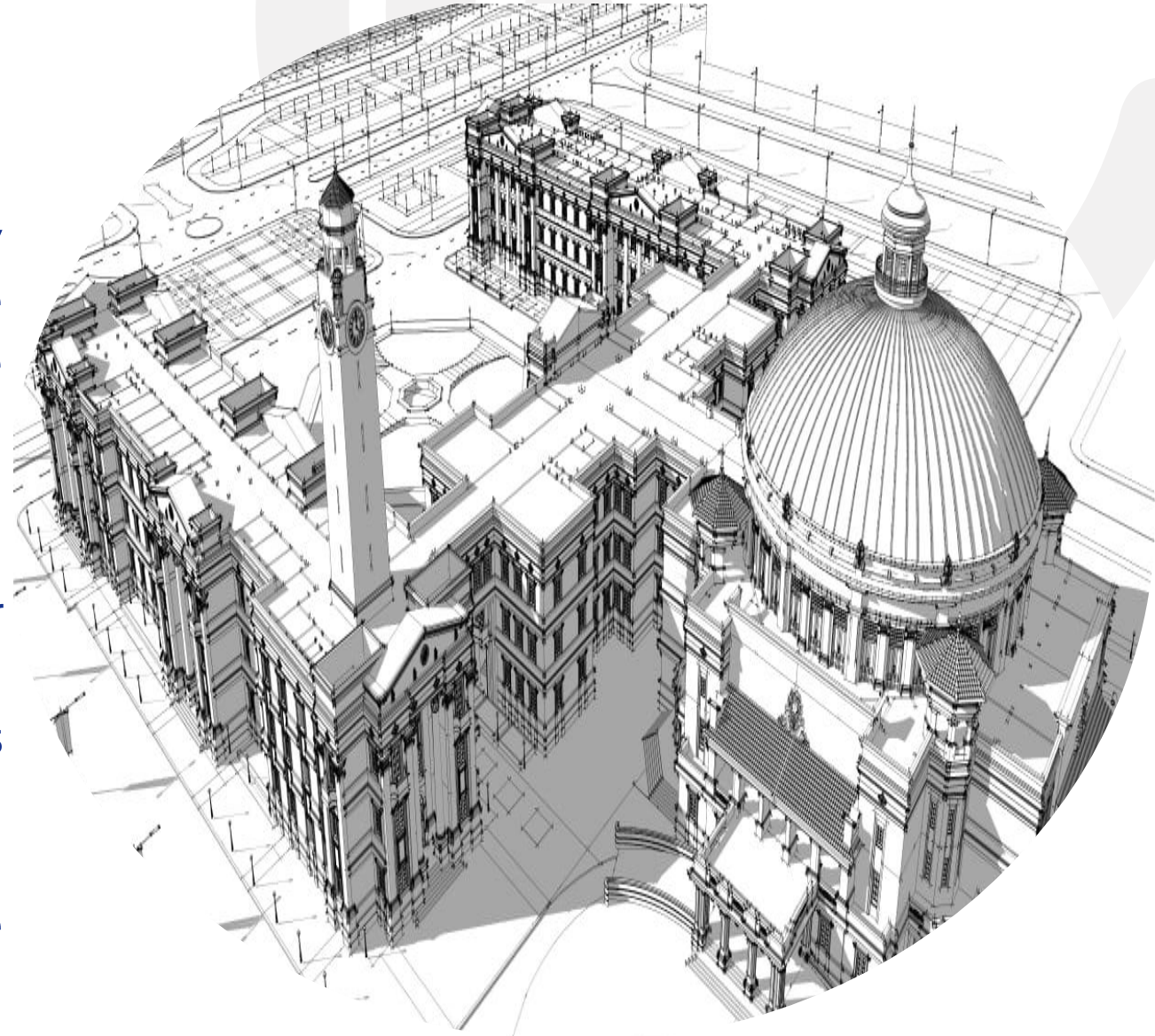
Electrical & Light
Current

Mechanical
(HVAC & Firefighting &
Plumbing)

1- PUBLIC BUILDINGS DESIGN

ERACONIX engineering services cover Arch, Civil, MEP, infrastructure and process engineering, in conjunction with a range of supplementary engineering services. These include environmental engineering, together with fire protection, lighting, communications, security, and building management systems.

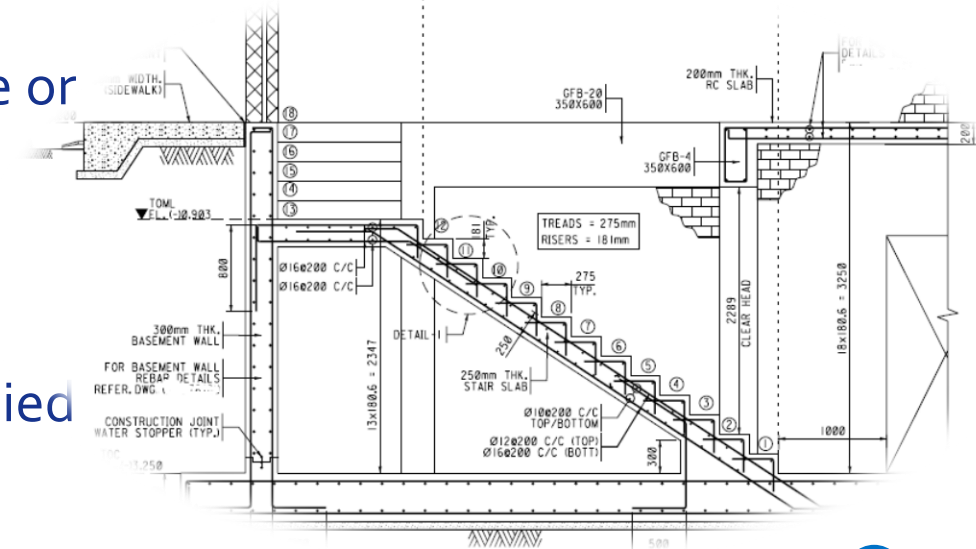
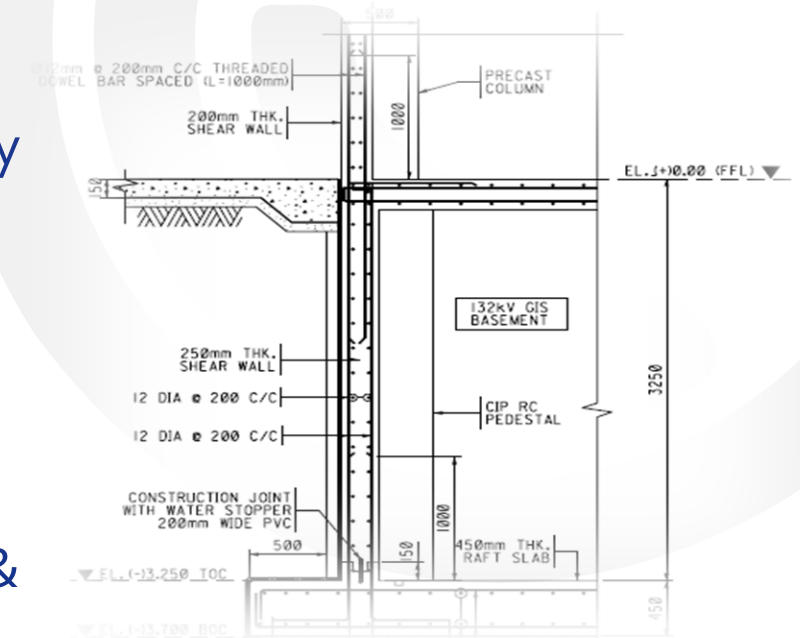
Our design services, on the other hand, cover Front-End Engineering & Design (FEED), Conceptual Design, Preliminary Design, Basis of Design Reports (BODRs), Schematic Design, Design Development, Detailed Design, Design Optimization, Construction Documents, Value Engineering and Computer Simulations.



1.1- CIVIL SCOPE OF WORK

ERACONIX offers a wide range of engineering and consultancy services such that:

- Study the report on Contour Survey & Soil Investigation.
- Provide Design Basis Report.
- Analysis & Design of Structures of all buildings & infrastructure.
- Structural detailing - Calculations for reinforced concrete or structural steel construction
- Design & Prepare drawings for Machine Foundations.
- Prepare working drawings for RCC, Structural Steel & Allied



2.1- ELECTRICAL SCOPE OF WORK

ERACONIX offers a wide range of engineering and consultancy services that enable you to design circuits and switchboards for machinery and equipment. Transformers, MV Panel, Diesel Generator sets & ATS, Busbar Trunking systems, HV/MV/LV/MICC cables and cable termination.



2.1- ELECTRICAL SCOPE OF WORK

A complete power distribution system including, but not limited to:

- Switchboards/Switchgear/Unit Substations.
- Cable feeders/ Busway and raceways.
- Motor Control Centers/Enclosed Motor Controllers.
- Panelboards.
- Transformers.
- Packaged Electric Generating System with Automatic Transfer Switches.
- Transient voltage surge protection devices.
- Earthing & Lightning Protection System.
- BMS (Building Management System).
- Low Current Systems (Fire Alarm System, Data/Telephone, MATV, VOIP, Sound System, Public Address, CCTV, etc.).



3.1- MECHANICAL SCOPE OF WORK

ERACONIX offers Detail design & engineering of Mechanical System which comprise designing, detailing, value engineering and specifying with schedule of quantities for all Works pertaining to air-conditioning, ventilation, smoke exhaust and fresh air supply system, Firefighting system, Water Supply, Medical Gases and Elevators conforming to the standards, statutes, regulations and safety codes of NBC, BIS, ASHRAE, SMACNA, ARI, ASME, AMCA and designed to efficiently and effectively operate for maximum energy efficiency and low noise level in all climatic

3.1- MECHANICAL SCOPE OF WORK – HVAC SYSTEM

ERACONIX offers Design, Supervision, Testing and Commissioning of Air conditioning and Ventilation works on turnkey basis including chillers, packaged type central air conditioning systems, Air Handling Units, Fan Coil Units, Precision air conditioning units, Ducted and window split AC units, Chilled water pipeline works, Chilled water pumps, GI and MS ducting and decorative ducting, Industrial and commercial ventilation systems for Residential, Commercial, Institutional, and Industrial Buildings.



3.1- MECHANICAL SCOPE OF WORK – FIREFIGHTING SYSTEM

ERACONIX offers Design, , Supervision and Commissioning of Fire Fighting systems such as Wet and Dry Safety Sprinkler systems, Deluge Systems, Wet & Dry Risers, Fire Hose Reels, Fire Extinguishers and Fire Suppression Systems, FM 200, etc. for all types of building & factories.

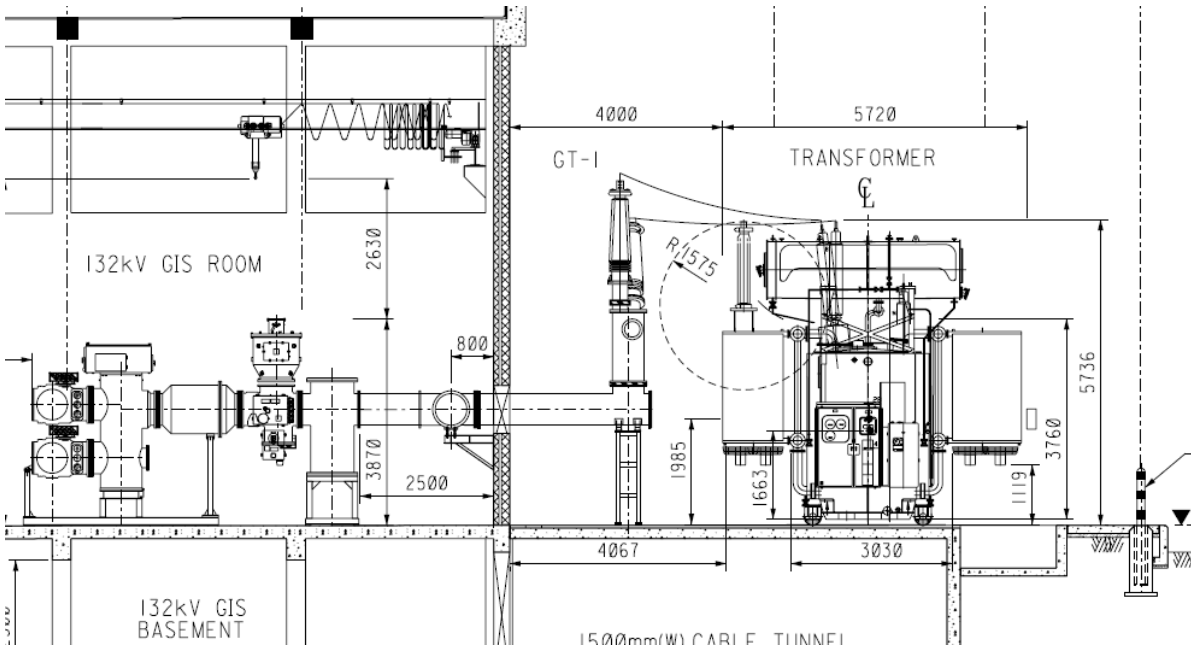


3.1- MECHANICAL SCOPE OF WORK – PLUMBING AND DRAINAGE SYSTEMS

ERACONIX offers Design, Supervision, and commissioning of Plumbing, water supply systems and drainage networks including design and installation of pumping systems for various buildings and for outdoor drainage systems, storm drainage and irrigation water supply networks, underground sewage piping works, storm water drainage systems.



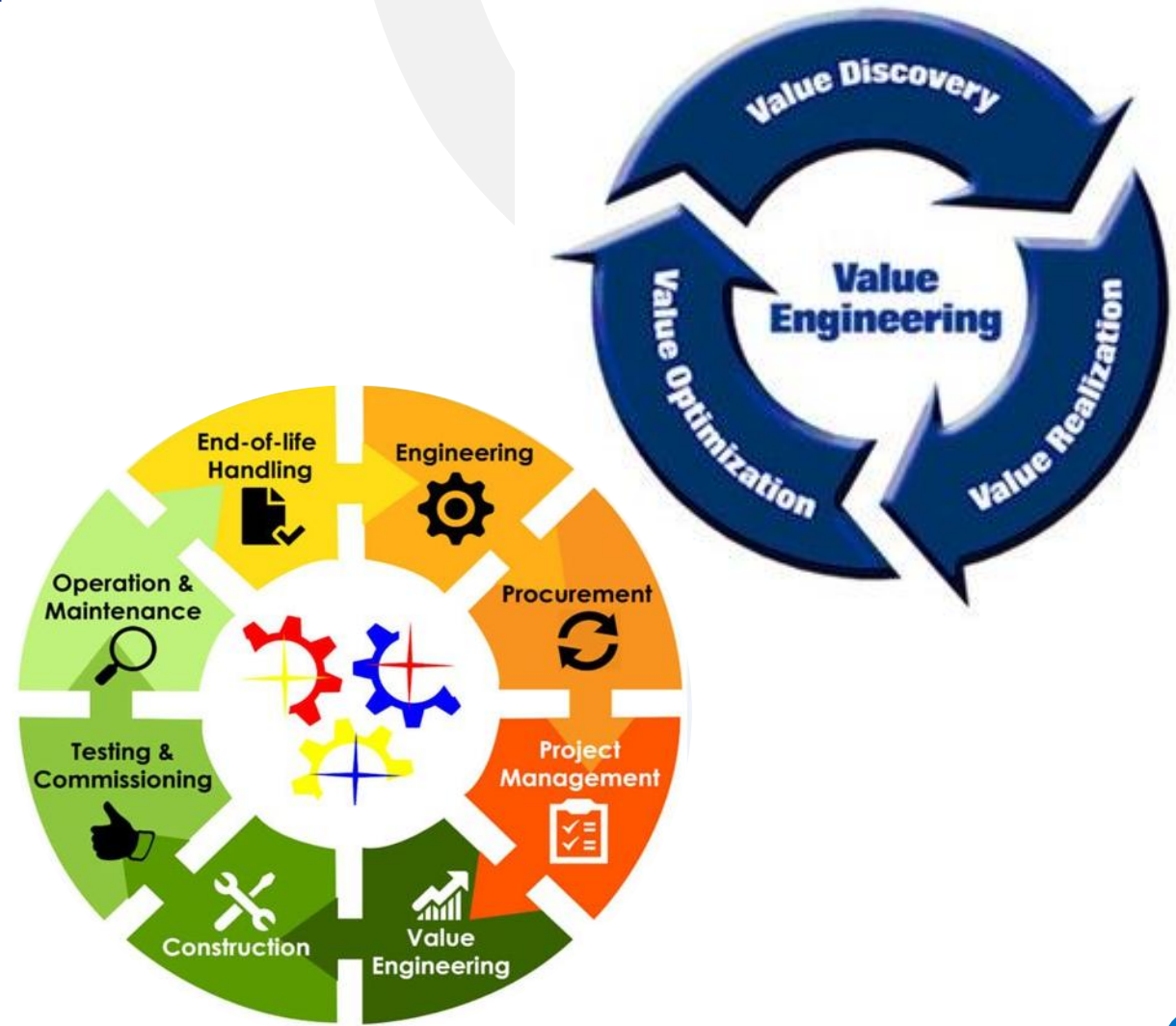
ERACONIX Provides Design & Engineering services (Electrical, Protection, Civil, Structural and Mechanical) for Electrical Substations of Medium & Extra High Voltages up to 500kV including GIS Indoor substations and AIS outdoor Substations and transmission line.



4- VALUE ENGINEERING & SCOPE OPTIMIZATION

- Our Added Value engineer services include:
- Project review (Technical due diligence)
- Optimization Scope by removing/modifying un-necessary components for essential functions in the project.
- Eliminating over engineering of systems
- Using alternative design approaches to achieve value at lower costs
- Improve Project Quality

On Time, On Budget, On Value





REFERENCE PROJECTS – PUBLIC BUILDINGS IN EGYPT

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- International Campus of Cairo University – Shaikh Zaid – 6th of October – Cairo - Egypt “Electrical Systems Design and Supervision” .
- Heaven Mall Design
- VERIX Mall Design
- Security System Renovation for Nag’a Hammadi Barrages.
- BMW Factory Extension and Warehouses MEP Design.
- Engineering Design of Sodium Silicate/Aluminate Factory for High Dam (Aswan) .
- Infra-structure Facilities Design for Sadat University.
- Historical Museum Design - Military colleges and institutes (4,500 m2).
- Suez Central Hospital Renovation Design – Ministry of Health.

REFERENCE PROJECTS – PUBLIC BUILDINGS IN EGYPT

- Exam and Library Building Design- Military colleges and institutes (32,000 m2).
- Four Health Unit Design – South Sinai – Ministry of Health.
- Military Hospital - Military colleges and institutes Design (15,000 m2).
- Abu Qorqas Hospital Design – Menya Gov. – Ministry of Health.
- Abu Hommus Hospital Design – Beheira Gov. – Ministry of Health.
- Bani Ebid Hospital Design – Dakahlyia Gov. – Ministry of Health.
- Dar Alsalam Hospital Design– Sohag Gov. – Ministry of Health.
- Bani Mazar Hospital Design – Menya Gov. – Ministry of Health.

REFERENCE PROJECTS – PUBLIC BUILDINGS IN EGYPT

- Infrastructure Network Design for Piece 119 New Qena
- Design of SAMALOUT Water Treatment Plant (Extension).
- Planning and design of the open agricultural drainage network with Pumping Stations for New Quta in Fayoum Governorate.
- Infra-structure Facilities Design for Reportage Compound.
- Design and Supervision Pumping Station for Abu Zaabal Military Factory (18) with 7 kM drainage lines.
- Supervision of Al-Sadat Purification Plant (Water treatment plant)

REFERENCE PROJECTS – PUBLIC BUILDINGS IN EGYPT

- Design of Renovation for Ganobiya, Chinese and Halazoniya Pumping Stations in Sadat City.
- Engineering Design of Lighting & Ventilation of long tunnels inside High-Dam (Aswan).
- Smart Parking for Military Production Ministry.
- Air Defense brigade Design (140) (300,000 m²).
- Strategic Military Warehouses and Administrative Building Design (800,000 m²).
- Strategic Warehouses Design – Ministry of Health.
- Construction of MBT Training Facility at Shabramant



REFERENCE PROJECTS – PUBLIC BUILDINGS IN KINGDOM OF SAUDI ARABIA

REFERENCE PROJECTS – PUBLIC BUILDINGS IN KSA

- Renovation of 8 Water Well including all Studies for Aramco.
- Second Stage for MOWAH Water Desalination Plant MEP Design.
- LAMA Square Complex Mall Design.
- CPU OFF Island Design Design (Salam Palace).
- Staff Accommodation Project LIMAK Design.
- Four Administration Buildings (U-Valley) – Hafr Al-Batin Design.
- Environmental Security Storage Facilities Project

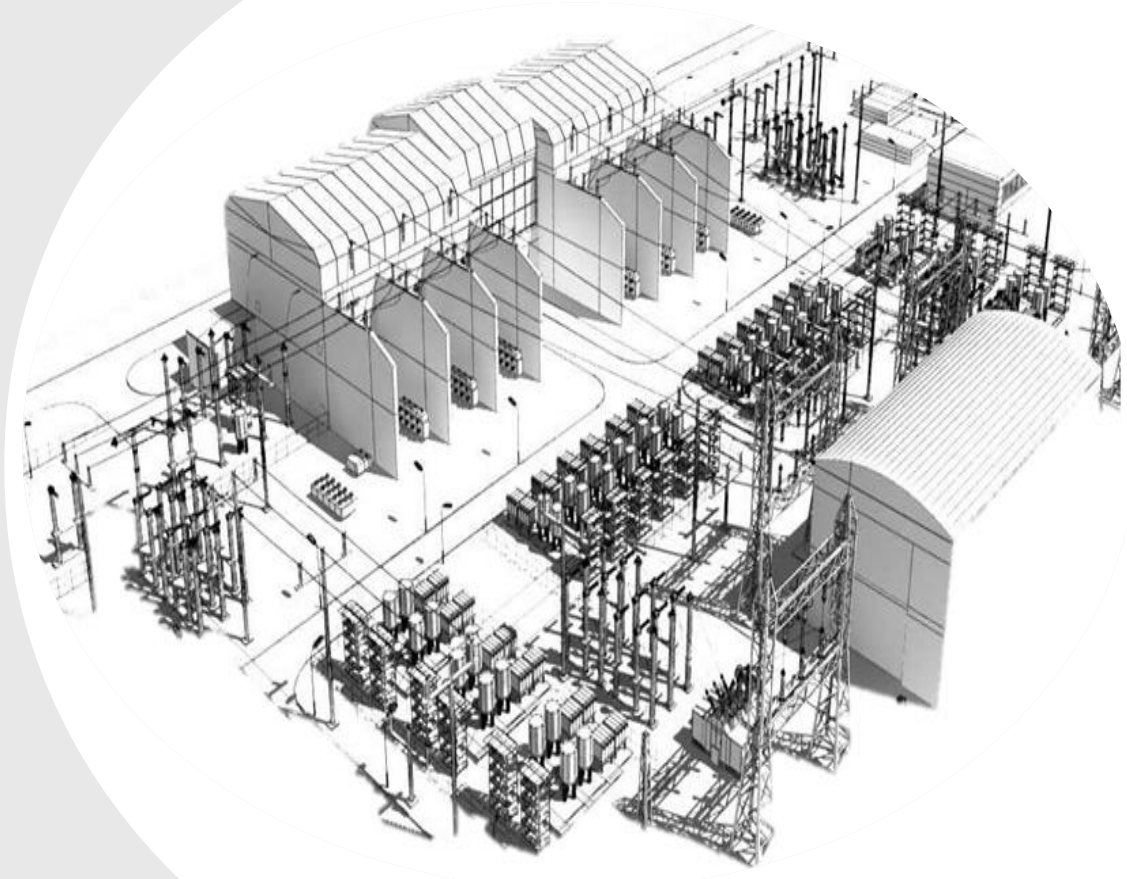
REFERENCE PROJECTS – PUBLIC BUILDINGS IN KSA

- PMO Services for Al-Othaim Park – Dammam City.
- PMO Services for Al-Othaim Circle – Al-Khubar City.
- PMO Services for Al-Othaim Park – Jubail City.
- Al-Falaq Masjid in Jeddah (500 Prayed Capacity)
- Unification of Voltage from 110 to 220V, King Khalid International Airport (KKIA).
- Royal Terminal Electrical System Upgrade, King Khalid International Airport (KKIA).
- Environmental Security Storage Facilities Project



REFERENCE PROJECTS – POWER SUBSTATION

- Engineering Design of Two Main Power Substation for Helwan Engineering Industries Factory.
- Engineering Design of Main Power Substation for Helwan Diesel Factory.
- CANAL Regional Control Center – (Engineering Scope) – El-Sewedy T&D
- Distribution Control Centers – Cairo Region (Engineering Scope) – Schneider Electric.
- Central Regional Control Center – Cairo Region (Engineering Scope) – NARI.
- Upgrading of Distribution Management System and Introducing of Advanced Meter Infrastructure in NCEDC - El-Sewedy T&D
- Engineering for Gerza 220/66/11kV Substation.
- Engineering for New Housh Eissa 220/66/11kV Substation.



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THANK YOU



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VILLA 141 – 2ND DISTRICT – FIFTH SETTLEMENT –
NEW CAIRO – CAIRO - EGYPT