

@emdeg_eg

EMDEG Portfolio



Electromechanical Design Engineering Group

www.emdeg.net



@emdeg_eg

about us



ELECTROMECHANICAL DESIGN ENGINEERING GROUP “EMDEG” was established in **1997** by Eng. **Magdy Kamel** as an electromechanical design. Since then it has developed rapidly, and now EMDEG is considered one of the top consultancy firms in Egypt specialized in Electrical & Mechanical works.

EMDEG’s mission is to provide high quality professional services to its clients in an efficient, timely manner, with the highest standards, state of the art and economical solutions. Hence for the past twelve years, EMDEG has been recognized as a highly specialized consultancy firm, providing integrated electromechanical services.

With around 150 qualified employees, EMDEG has successfully executed more than 600 prestigious projects with very high proficiency and engineering excellence, presenting an impressive portfolio of electromechanical services in the national and international markets.

Outside Egypt, EMDEG has carried out projects in Saudi Arabia, United Arab of Emirates, Yemen, Bahrain, Lebanon, Oman, Chad, Sudan, Kenya, Ethiopia, Benin and Zambia. Since established, EMDEG has successfully cooperated with reputable national & international consultants, architects & management firms.

Being a USGBC certified member, EMDEG provides GREEN BUILDINGS consultancy & design services.

Using the latest software & design aiding programs, EMDEG offers a wide range of services, ranging from feasibility studies through concept and detailed designs up to commissioning and handing over of projects. EMDEG covers a variety of projects in the following areas of specialization:

- High Rise Buildings
- Residential Complexes
- Hotels, Resorts & Touristic Complexes
- High-Tech Office Buildings
- Malls, Recreational Complexes Retails & Commercial Facilities
- Factories & Industrial Projects
- Hospitals & Health Care Facilities
- Universities, Conference Halls & Educational Facilities
- Luxury Villas & Palaces
- Transportation Projects
- Sports Complex



Services & Capabilities

Building Services Engineering

EMDEG offers a comprehensive range of Electromechanical consulting services & solutions in the following fields of specialization.

Production of all schematic designs, single line diagrams, detailed technical drawings and tender documents for:

- Low & Medium Voltage Substations.
- Low & Medium Voltage Power Distribution.
- Emergency & Uninterruptible power Systems.
- Lighting Design, Control Systems & Specialized Lighting Effects.
- Fields & Sports Facilities Lighting Design.
- Earthing & Lightning Protection Networks.
- Fire Detection, Alarm & Evacuation Systems.
- IP Based Voice & Data Networks.
- IP Television System.
- SMATV & CATV Systems.
- Sound & Public Address Systems.
- Audio Visual & Digital Signage Systems.
- Master Clock, Time Attendance & Parking Control Systems.
- Security Systems “Access Control, CCTV & Intrusion Detection”.
- Special Systems For Hospitals & Hotels.
- HVAC Systems.
- Plumbing Systems.
- Fire Fighting Systems.
- Kitchen & Laundry Equipment Design.
- Swimming pools & Water Features Systems.
- Boilers & Pumping Stations.
- Medical Gases Systems For Health Care Facilities.
- Mechanical Transportation Systems.
- Building & Energy Management Systems.
- Automated Control Systems & Home Automation.

Infrastructure Planning

Production of all schematic designs, single line diagrams, detailed technical drawings and tender documents for:

- Low & Medium Power Distribution Networks & Substations.
- Low Current systems Networks.
- Fiber To The Home “FTTH” Networks.
- Streets & Green Areas Lighting.
- Diesel Power Generation Plants.
- Sewage & Waste Water Networks.
- Domestic Water & Fire Fighting Networks.
- Irrigation Networks.
- Desalination & Water Treatment Plants.
- Gasoline Storage & Distribution Networks.
- District Cooling Plants & Networks.

Besides our main target which is preparing design & construction documents EMDEG is also covering the following activities:

- Technical Specifications & Bill Of Quantities.
- Pre-Tender Cost Estimates.
- Evaluation of Bids & Contract Negotiations.
- Electromechanical Project Management.
- Site Supervision & Quality Assurance.
- Site Testing & Commissioning.
- Value Engineering.
- Feasibility Studies.
- Renovation, Rehabilitation & Upgrading Works.
- Shop Drawings, As Built & Coordination Works.
- Final Handing Over.
- Field Investigation, Surveying & Data collection.
- Electromechanical Green Buildings Consultancy.



@emdeg_eg

Projects by Sectors

- UNIVERSITIES, CONFERENCE HALLS & EDUCATIONAL FACILITIES
- STADIUMS, CLUBS & SPORTS FACILITIES
- HOTELS, RESORTS & TOURISTIC VILLAGES
- RESIDENTIAL COMPLEXES
- OFFICE BUILDINGS
- FACTORIES, WORKSHOPS & INDUSTRIAL PLANTS
- MALLS, HYPER MARKETS & SHOPPING CENTERS
- TRANSPORTATION PROJECTS

HOTELS, RESORTS & TOURISTIC VILLAGES



Tribute Forty West, Sodic West, Sheikh Zayed - Egypt

(Under Design)

A 170-key hotel, slated for launch in 2027, will be established at Forty West, a residential building complex in SODIC's mixed-use development SODIC West in Sheikh Zayed.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works

TRIBUTE
PORTFOLIO



Sheraton El Khobar Hotel, El Khobar - Saudi Arabia

(Under Design)

A prestigious five-star hotel in Al Khobar, the property features 581 luxury rooms and suites designed for comfort and elegance. Ideally located in the Ishbiliya District on Corniche Road, the hotel offers exceptional convenience for both business and leisure travelers, with breathtaking views of the Corniche waterfront. A 580-key hotel, will be established at El Khobar coast. The hotel consists of 25 Floors accomodating guest rooms, Restaurants, Swimming Pools, 6 Parking Floors, Banquet and Multi Purpose Halls with Total Electrical Load 11 MVA.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works



SHERATON
EST. 1937



Hyatt Ziva Hotel, Hurghada- Egypt

(Under Design)

The Hotel consists of 489 Keys Guest Rooms distributed among North Wing, South Wing and Main Buildings, Kids Club, Family & Adults Beach Clubs, Main Restaurant, Atrium, Three Specialty Restaurants (Asian, American and Italian Cuisines), and Swimming Pools

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works



Fairmont Giza Hotel, Giza - Egypt

(Under Design)

Designed as the crown jewel of the retail plaza in the new Sun Capital mixed-use development in Giza, The Fairmont will be the first hotel built in more than half a century to enjoy direct views of the pyramids.

The Project consists of 370 branded residential units, 500 guest rooms and an Admin tower

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works





Nobu Hotel Ogami, North Coast - Egypt

(Under Design)

The project includes the development of 80 guest rooms, administration and back-of-house areas, a welcoming lobby, the signature Nobu Restaurant, an all-day dining facility, and a dedicated wellness area. In addition, the design covers extensive recreational amenities, including pool facilities with a total area of approximately 418.6 m², ensuring a comprehensive hospitality experience that aligns with the brand's luxury standards.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works

NOBU



Nobu Hotel EDNC, New Cairo - Egypt

(Under Construction)

The Nobu Hotel EDNC in New Cairo is a landmark luxury development spanning 6,385 m², in collaboration with Egypt's leading developer SODIC. Scheduled to open in 2027, it will feature over 50 guest rooms and suites, a Nobu Restaurant, spa, fitness center, and pool facilities, blending Japanese minimalism with Egyptian cultural grandeur.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works

NOBU



Radisson Blu Hotel, North Coast - Egypt (Under Design)

Lower & Upper Basements, G + 5 Hotel Building of around 37,700 sqm BUA, accommodating 460 Guest Rooms Keys including all related services.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works



Hawana Salalah Hotel, Salalah - Oman

This project consists of the hotel main building about 6000 m2, Group of clusters over 400 Guest Rooms & Suites, Beach Restaurant, SPA, and Two swimming pools.

Total Electrical Load is around 4.4 MVA and Air Cooled Chillers Plant with Total Load 1050 TR.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works



HAWANA SALALAH
OMAN



Swissotel Sharm El Sheikh

Renovations of Aqua and Club Hotels Main Buildings and Guest Rooms to match with Accor Guidelines.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works

swissôtel
SHARM EL SHEIKH



Moxy Hotel - Downtown, Cairo - Egypt

hospitality development located in the historic Lazoghly district of Downtown Cairo, an area renowned for its cultural heritage and architectural significance. The project comprises 389 keys distributed across two interconnected buildings, designed to introduce a new era of smart, modern stays within the heart of the city.

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works

moxy
HOTELS



Rixos Magawish, Hurghada - Egypt

480 Keys Resort consists of: Guest room buildings, Promenade buildings, Pools area approximately 16,635 sqm, Main building, Courts area approximately 3,240 sqm

Scope of Work :

Full Design Drawings, Tender Documents and Site Supervision for MEP Works



Baron Palace Sahl Hasheesh, Hurghada - Egypt

Resort with total site area about 120,009 sqm. The Resort consists of: Island Hotel (152 Keys), Eclipse Hotel (398 Keys), The Horizon Hotel (171 Keys), Water theme park, and Plaza

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works





Marriott Resort, Marsa Alam - Egypt

A resort with a total land area of about 170,300 sqm, and staff housing plot with a total land area of about 52,500 sqm. The resort has about 7 guestroom buildings (516 keys) other than Guest room Villas, Main building, Main Dining Building, Amphitheater restaurant, Specialty & Beach restaurants, Kids Club, Clinic, Spa, Aqua park, Pools, Bars, Diving center in addition to a huge space for retail Bazar

Scope of Work :

Full Design Drawings, Tender Documents and Site Supervision for MEP Works



Novotel Hotel, Marsa Alam - Egypt

Four Stars, 250 Guest rooms Hotel, 50 VIP Villas, 500 chalets and all related facilities with Total connected load of 8 MVA

Scope of Work :

Full Design Drawings, Tender Documents and Site Supervision for MEP Works





The Chedi Hotel, El Gouna, Red Sea - Egypt

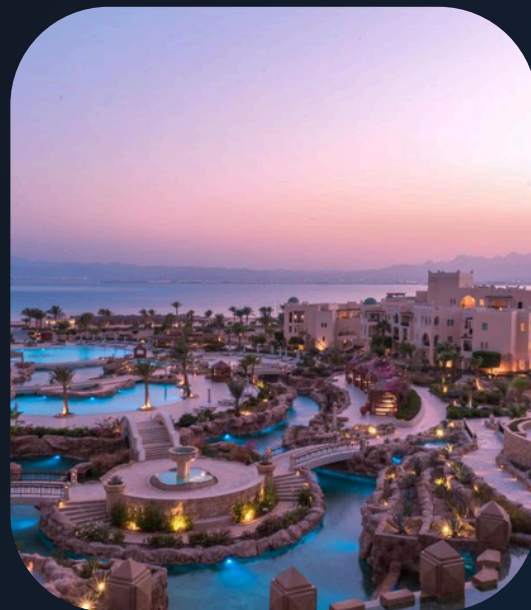
This oriental delight houses 82 elegant rooms and suites within its timeless façade all of this attached with gourmet eateries, sublime tropical-style pools, fully-equipped event spaces, fitness and activity areas, and a tranquil spa

Scope of Work :

Full Design Drawings, Tender Documents and Site Supervision for MEP Works

THE CHEDI

EL GOUNA, RED SEA, EGYPT



Kempinski Hotel, Soma Bay, Red Sea - Egypt

350 Guest rooms, Five stars hotel with 6 MVA, connected power and 800 R. Ton Air cooled chiller plant

Scope of Work :

Full Design Drawings, Tender Documents and Site Supervision for MEP Works

Kempinski
HOTELS & RESORTS



Steigenberger Hotel, El Gouna, Red Sea - Egypt

Complete renovation of the main building lobby, lobby bar, sports bar, conference and meeting halls, in addition to the hotel main dining restaurant and pool bar

Scope of Work :

Full Design Drawings, Tender Documents and Site Supervision for MEP Works

STEIGENBERGER
GOLF RESORT
EL GOUNA – RED SEA



Ibis Styles Hotel, Addis Ababa - Ethiopia

The project consists of Basement, Ground and 11 floors accommodating 1 VIP Suite, 3 Junior Suites, 75 Double Rooms, 40 Twin Hollywood type Rooms, 1 Standard Family Junior Suite and 13 Standard Family Rooms

Scope of Work :

Full Design Drawings and Tender Documents for MEP Works





Pullman Hotel, Addis Ababa- Ethiopia

Five star hotel, 300 Guest rooms, 30 suites + one presidential suite, and all related facilities.

Scope of Work :

Full Design Drawings, Tender Documents and Site Supervision for MEP Works



Hilton Mekelle Hotel, Mekelle - Ethiopia

The Hilton hotel will have 15 storeys with 245 rooms. Including restaurants, bars, two presidential suites, swimming pool and conference rooms that can hold up to 1,000 people. It sprawls on 35,000 sqm of land and is located in the centre of Mekelle, within walking distance of Martyrs Memorial Monument.


Scope of Work :

Full Design Drawings and Tender Documents for MEP Works



CONTACT INFORMATION

 Building 25 inside The District, Sheraton , Cairo - Egypt

 +202 2269 4317
+202 2269 4319

 emdeg@emdeg.net



Electromechanical Design Engineering Group

www.emdeg.net

