



PETROTEC

شركة بتروتك للمقاومات العامة



تركيب وتشغيل وصيانة مشروعات الطاقة المتجددة
شبكات الكهرباء الجهت المتوسط والمنخفض
توربينات رياح محطات طاقة شمسية
لوحدات محطات كابلات

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INTRODUCTION TO OUR BUSINESS

About

- PETROTEC Engineering is a private limited company established at 2003 .
- PETROTEC Engineering provides multi discipline Technical and Project Management service in the areas of Electrical Works, Solar Energy Systems, Wind Farms and Energy Saving.
- The company operated by highly qualified and competent staff ,which backed up by highly experienced specialized technical associated.
- As PETROTEC is a private sector company, We are able to recruit highly qualified staff in accordance with its needs, this enables us to tailor a professional work team to give our customers the best possible service through all phases of a project.
- Training and experience are very important part of the service we provide. In PETROTEC, are certain of being able to offer a complete confidence and safety in all our Works.

PETROTEC has maintained its certification in compliance with

**ISO
9001**

**ISO
14001**

**ISO
18001**



GM MESSAGE

Since our beginning in 2003 we have been concentrating on being the best service provider in all of our fields of interest through cooperation with highly qualified expertise and implementing all standard regulations relating to work quality and safety.

Our commitment to improve efficiency and build up reputation in the Field of Green energy and electrical contracting. I invite you to read through this document and to have more information about our company. We shall continue our business with success and challenge to add values to our Service with new competition understanding controlled by business ethics.

Eng. Hazem Fekry

VISION

Our vision to be the most valued company to customers, colleagues, investors, business partners, and the communities where we work and live.

MISSION

Improving our resources and continuous training for our staff to provide the best services with good prices for our clients through cooperation with best International companies to provide the service in a professional and well organized method.

STRATEGY

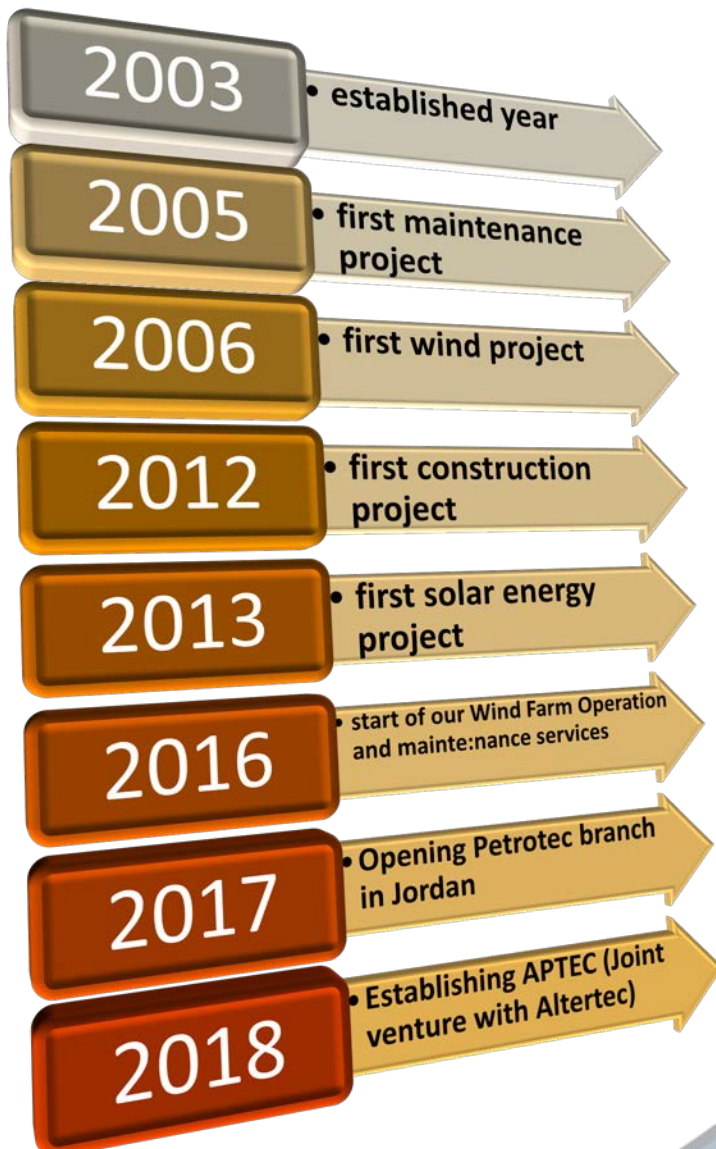
- Fulfilling the project management triangle in our projects (Time, Cost, and Quality)
- Cooperation with international companies for technical support
- Developing our staff through continues training
- Concentrating on green energy applications and their related systems
- Ensuring workplace health and safety

☐ **Company Organization chart**

COMPANY HISTOGRAM

Petrotec Engineering is an international company engaged in the fields of Renewable Energy and Electrical Contracting with more than 15 years of experience the market. We are an ISO 9001:2015, ISO14001:2015, and OHSAS 18001:2007 Engineering Services Company with over 100 highly qualified employees working full time committed to serving our clients.

COMPANY ACHIEVEMENTS



+300MW of Wind Farms O&M

50MW of Solar Plants Construction

0.5MW of Solar EPC

+25 Successful Turnkey Electrical Power projects



SERVICES

❖ Electrical Power System Services



- Erection of all Electrical power Systems .
- Erection of all electrical power System equipment (transformers , switchgear , panelsetc.) for all levels of voltage .
- Installation of all necessary cable trays , cable conduits , cablesetc.
- Erection of low and medium voltage electrical networks.

❖ Operation and Maintenance



- Operation and Maintenance of low and medium voltage electrical networks.
- Transformers Oil Testing and Filtration.
- Medium Voltage Switchgear major corrective maintenance.
- Distribution network transformer major corrective maintenance.
-

❖ Solar Energy Systems Services



- EPC of Solar Energy Projects.
- PV Plants Periodic Professional maintenance.
- We have qualification from NREA for solar energy solution (on GRID)
- Agricultural applications

❖ Wind Farm Services



- Operation and Maintenance of Wind Turbines
- Meteorological System Supply and Installation for Wind Farm Projects.
- Wind Turbines Blade Cleaning, Inspection and Repair.

❖ Waste Management Services



- PETROTEC is a certified company from the Egyptian ministry of Environment for collecting and safely removing of Hazardous and non Hazardous Waste.

❖ Other Services



- Providing experienced manpower for any kind of electrical activities
- Supplying of any electrical system (Material , Tools , Devices , Accessories)
- Supplying of Transformer oil
- Supplying of Waste material
- Supply and preparation for sites facilities



ACHIEVEMENTS

Project Name:

MRASSI Marina Project
under supervision of RME ROWAD Modern
Engineering as a main contractor

Scope Of Work:

Electrical Installation for MV&LV network including
the below activities :

1. MV & LV Cables pulling and termination
2. Erection and Termination of LV Panels
3. Erection and Termination of Data panels
4. Installation of cables duct bank network

Project Name:

BENBAN Solar Project
ARC 50MW Solar Park

Scope Of Work:

Electrical Installation for AC& DC network including
the below activities :

1. AC & DC Cables pulling and termination
2. Removing of AC & DC cables from old Inverters
3. Installation of Earthing network



Project Name:

DP World Sokhna Phase 2
under supervision of RME ROWAD Modern
Engineering as a main contractor

Scope Of Work:

Electrical Installation for MV network including
the below activities :

1. MV Cables pulling and termination
2. Erection of MV Switchgear and RMU
3. Erection and Termination of Transformers
4. Erection and Termination MDB panels

Project Name:

BENBAN Solar Project
ALCAZAR Energy Egypt 50MW Solar Park

Scope Of Work:

Electrical Installation for 50 MW solar PV Park

1. Cable Pulling and termination
2. Erection of MV Switchgear and RMU
3. Erection and Termination of Transformers
4. Power Inverters installation and termination
5. PV Modules installation and termination
6. Preparation of cable trenches
7. Installation of Meteorological stations
8. Installation of Earthing network



Project Name:

- Nile Sugar factory
- ALEX Fiber (AFKO)

Scope Of Work:

1. Instrumentation cables pulling and termination
2. LV Cables pulling and termination
3. Erection of cables raceway, conduit and cable tray
4. Foundation Field bus junction box erection
Instrumentation devices installation and connection
5. Turn key for lighting system, supply, erection and startup

Project Name:

- Nile Suez Textile factory
- INDORAMA Shebin el Kom Spinning factory

Scope Of Work:

Electrical Installation for MV & LV network including the below activities :

1. MV & LV Cables pulling and termination
2. Erection of MV Switchgear and RMU
3. Erection and Termination of Transformers
4. Erection and Termination MDB & SMDB panels
5. Erection of cables raceway
6. Erection of lighting system



Project Name:

- Tenth of Ramadan 220/66 KV substation
- New Cairo 220/66 KV substation
- Shekh Zaid 220/66 KV substation

Scope Of Work:

Installation, programming, commissioning and startup

1. RTU field wiring design, cable pulling and termination
2. RTU erection, programming, testing all I/O signals between field device and RTU



Project Name:

- BANY SOUIF cement factory
- CEMEX Assuit cement factory

Scope Of Work:

1. Dismantle existing lubrication system for Killen including Lubrication pump, lubricant nozzle gate, cables, tubesetc.
2. Erection and commissioning of a new automatic lubrication system including new nozzle gates, automatic control panels, automatic filling pumps, tubing, cable raceway, Cable pulling and termination.
3. Interfacing between the new lubricant control system and factory SCADA system

Solar PV Projects

EPC turn key of Solar power projects as below:

❖ Amon Factory

- 201 KW Roof top on grid PV station

❖ Electricity Distribution Company

- 18 KW on grid Roof Top ,Shebin Al Kom Building
- 10 KW on grid Roof Top ,Satamony Building
- 10 KW on grid ,Tamy Al Amidid Building
- 8 KW on grid Roof Top ,Talakha Building
- 5 KW on grid Roof Top , Kafr Sad Building

❖ Damitta Port Authority

- 50 KW on grid PV station

❖ Canal Distribution Company

- 35.8 KW on grid PV station, (El Ganayen)
- 18.8 KW on grid PV station, (El Khaleej)

❖ Total Egypt

- 17 KW on grid PV station, Al Maadi Station



Solar PV Projects

EPC turn key of Solar power projects as below:

❖ Elmina Solar Pumping

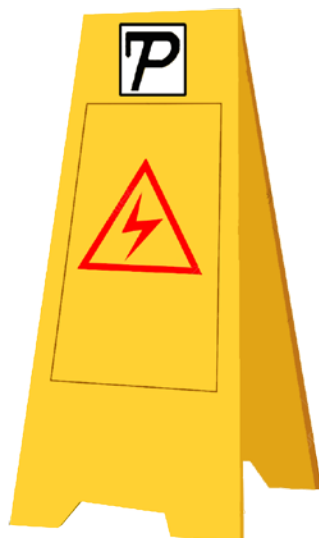
- 100 KW Elmina Solar Pumping Station including the pumping system

❖ El Wahat Solar Pumping

- 20 KW Elmina Solar Pumping Station including the pumping system

❖ Suez Canal Container Terminal

- 10 Solar water heater each of 250 liters high pressure



GABAL AL ZAIT Wind Farm Projects

Project Name:

1. KFW 200 MW (100 GAMESA G80 Turbine)
2. JICA 220 MW (110 GAMESA G80 Turbine)
3. FIEM 120 MW (110 GAMESA G80 Turbine)
4. KFW EXT 40 MW (20 GAMESA G80 Turbine)
5. RGWE BOO 250 MW (125 GAMESA Turbine)

Scope Of Work:

- WTG Nacelle , Hub inspection and maintenance at Alexandria Port before shipment to site.
- Repair of Nacelle damaged Fiber during transportation at Alexandria Port
- Contaminated waste management for all sites
- Engineering, supply and erection of permanent power supply for site offices for KFW project
- Project spare part handling and storekeeping management
- Blade cage dismantle and WTG transport tools component prepare for reshipping to Spain
- WTG elevator installation in cooperation with AVANTI



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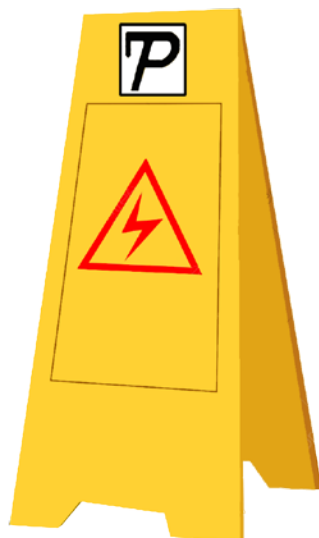
GABAL AL ZAIT Wind Farm Projects

Project Name:

1. JICA 220 MW (110 GAMESA G80 Turbine)

Scope Of Work:

- MV cables pulling and termination
- MV RMU installation and connection
- Fiber optic cables pulling and termination
- Pulling and connection of Earthing cables
- Preparation of cable trenches



ZAFARANA Wind Farm Projects

Project Name:

1. ZAFARANA 85 MW Wind farm (100 GAMESA G52 Turbine)
2. ZAFARANA KFW VI 80 MW Wind farm (94 GAMESA G52 Turbine)
3. ZAFARANA KFW II & III Wind farm (71 Vestas V47 Turbine)
4. ZAFARANA DANDIA III Wind farm (46 Vestas V47 Turbine)
5. ZAFARANA JBIC 120 MW Wind farm (142 GAMESA G52 Turbine)
6. ZAFARANA DANIDA 120 MW (142 GAMESA G52 Turbine)



ZAFARANA Wind Farm Projects

Scope Of Work:

- Engineering, erection and commissioning of wind farm 220 KV S/S telemetry
- Medium voltage grid periodic and corrective maintenance during warranty period for four Wind Farms.
(407 kiosks including transformers , RMU and cables).
- Turbine blade washing and inspection during warranty period
- Removing and installation power cables between generator and ground controller for three Wind Farms. (336 turbines)
- Engineering, supply and erection of permanent power supply for site offices
- Erection of four meteorological towers each of 45 m height
- Electromechanical Erection of Turbines for ZAFARANA 85 MW Wind farm 100 GAMESA G52
- Electromechanical erection of 142 Kiosks' air conditioning units for ZAFARANA JBIC 120 MW Wind farm
- monitoring system engineering , supply, erection and testing for 142 kiosks.
- Blade recycle for 12 turbine



JORDAN Wind Farm Projects

Project Name:

1. Ma'an Wind Farm 80 MW (40 GAMESA G97 Turbine)
2. Al Rajaf Wind Farm 80 MW (40 GAMESA G114 Turbine)

Scope Of Work:

- Operation and maintenance of turbines
- Corrective maintenance of turbines
- Turbine blades washing and inspection
- Corrective repair for turbine blades



Electrical network Maintenance

Project Name:

1. DP World EIN SHOKNA
2. DIBE EGYPT FACTORY MOSTORD
3. Egypt Expo & Convention Authority
4. Atomic Energy authority
5. Elaraby Group Quesna Factory

Scope Of Work:

Annual Periodic and corrective maintenance of electrical network

- Medium voltage switchgear and RMU Periodic and corrective maintenance
- Transformer Periodic and corrective maintenance
- Low voltage main distribution board Periodic and corrective maintenance
- Electrical testing for transformers
- Oil filtration for transformers
- Medium voltage switchgear testing



CLIENTS AND VENDORS



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