



**Energized Maintenance Engineering Company**



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Energized Maintenance Engineering Company

## **Our Mission**

**To be a World Class Provider of energized maintenance, consultancy, and contracting services for electrical networks worldwide.**

## **Company Profile**

**EMECO (Energized Maintenance Engineering Company) was established in 2004 and is a joint Venture between NEPCO (National Electric Power Company - Jordan) and Mitsa International (Cyprus).**

**Mitsa International has over thirty years of experience in contract supply and energized maintenance services for MV and EHV Networks. Their manufacturing partners are specialized in producing material and equipment for electrical networks.**

**NEPCO is the bulk transmission operator in Jordan. The NEPCO network is composed of 400 kV and 132 kV circuits. The transmission system is structured on the north-south axis of Jordan. It is essentially a radial system with no looping except for a small ring around the main load center of Amman. The distribution systems are served from this system at 132 kV. The direct service bulk customers are also served from this system. There are about 2200 circuit-km of transmission lines currently operated at 132 kV, which represents about 73% of the total networks. In addition, NEPCO operates 809 circuit-km of transmission lines at 400 kV. NEPCO also operates the main substations (400 KV and 132kV) to provide services to the various distribution networks.**



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## **SERVICES:**

- **Erection, Supervision & Commissioning**
- **Training Courses for Substations and Overhead Lines**
- **Energized Washing**
- **Design and Engineering**
- **Maintenance and Rehabilitation**





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## Erection, Supervision & Commissioning

### Substations Up to 400 kV:

- Insulators and bus bars
- Conductor and Cables
- Switchgear
- Control and Protection Equipment
- Hardware and Accessories
- Steel Structures

### Transmission & Distribution Lines:

- Tension Towers
- Suspension Towers
- Multi-bundled Conductors
- Installation of Armor rods, aircraft warning spheres, dampers and spacers
- Line Sagging
- Voltages from LV up to 400 KV



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## Training Courses for Substations and Overhead Lines:

- Energized (Live Line) insulator washing
- Substation maintenance
- Substation switching
- Protection coordination and testing
- Conductor stringing
- EHV Transmission line maintenance
- MV Distribution line maintenance
- LV Distribution line maintenance
- Cable jointing and termination





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## Energized Washing:

- Distribution Lines
- Transmission Lines
- Substations
- Voltages up to 765 kV





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## Design and Engineering:

- Substation Design including: Electrical, Civil and Steel Structures
- Design for Transmission & Distribution Lines including: Electrical, Civil, Steel/Wood Structures, and Route Survey/Mapping
- Pollution Studies
- Coordination and Protection Studies
- Insulation Dielectric Oil Tests on Transformers & Switchgears up to 400 kV (Physical Tests, Chemical Tests, Electrical Tests, Dissolved Gas in Oil (Gas Chromatography))
- Specification of Hot/Live Line Equipment and Tools



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## Maintenance and Rehabilitation:

### Substations up to 400 kV:

- Insulators and bus bars
- Conductor and Cables
- Switchgear
- Transformers
- Control and Protection Equipment
- Hardware and Accessories
- Steel Structures

### Overhead Lines - Transmission & Distribution:

- Insulators
- Suspension & Tension Hardware
- Conductor and Cables
- Fiber Optics & Hardware
- Shield Wire & Hardware
- Dampers
- Aircraft Warning Spheres
- Spacers
- Obstruction Lighting Systems
- Steel Structures

### Insulator Washing Equipment

- Mobile Skid Mounted Units
- Telescoping / Articulating Units