

The logo for EPTCON LTD. features the company name in a bold, blue, sans-serif font. Below the name is a thick red horizontal line, followed by a thinner blue horizontal line.

**EPTCON** LTD.

A stylized logo of a cormorant in flight, rendered in blue.

A CORMORANT UTILITY SERVICES COMPANY

The background of the slide is a photograph of a high-voltage electrical substation. It shows several large, grey, cylindrical insulators mounted on metal structures. A worker in an orange safety harness is visible on a lift platform, working on one of the insulators. The ground is covered in gravel, and there are some electrical components and cables in the foreground. The sky is clear and blue.

# TECHNICAL SERVICES

# Service Offerings

Cormorant Utility Services provides comprehensive high-voltage solutions. The expertise and experience of our companies create a broad suite of best-in-class products and turn-key service offerings.

## EPC:

Substations | Transmission Lines  
Underground HV Cables | Distribution Lines  
Electrical Design & Engineering

## Technical Services

Electrical Manufacturing  
Tracked Vehicle Manufacturing

**EPTCON's Technical Services Group** has extensive experience and expertise in testing all substation rated equipment, from 5kV to 500kV. This includes protection & teleprotection relay verification, system integration, SCADA implementation, and final commissioning of all substation equipment. Our major outage planning skills and experience allow us to offer highly-effective preventative maintenance programs and engineering support services.



# TECHNICAL SERVICES



# Our Vision, Mission & Values

**Our Vision:** We will be the most trusted, end-to-end, power delivery services company. We will create value for our partners through our continuous collaboration, innovation of our services and our passion to achieve excellence in all parts of our business.

**Our Mission:** To deliver high-value power solutions in the safest, most environmentally responsible way. To foster sustainable growth for our partners and the communities we work in.

**Our Values:** People, our greatest asset, and trusted key stakeholders, are motivated and guided by:

- Zero harm: To our employees, customers and the environment.
- Customers: The reason for our existence, we will exceed expectations by planning and building right with pride the first time.
- Innovation: We must strive every day to find a better way.
- Trust & Integrity: Earned through fairness, honesty, empathy, respect and open communication.
- Leadership: Individually taking responsibility and accountability for the success of our company.



# Pre-Commissioning and Commissioning

1. Field testing of transmission and distribution lines (5kV to 230kV)
2. Field testing of manual & motor operated disconnect switches (5kV to 500kV)
3. Field testing of air blast, vacuum and gas insulated circuit breakers, both dead & live tank, medium to extra high voltage
4. Field testing of gas insulated switchgear (GIS)
5. Field testing of distribution, power and auto transformers up to 750MVA, 500kV
6. Field Testing of medium voltage cables using DC or VLF Hipot Tan-Delta and partial discharge





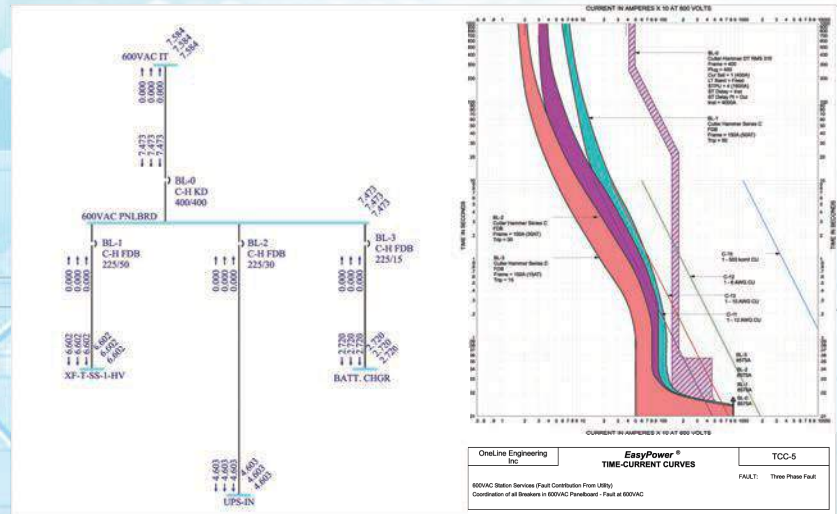
# Pre-Commissioning and Commissioning

7. Field testing of generators (10MW to 575MW)
8. Field testing of DC systems (Chargers & Batteries)
9. Programming and calibration of protection relays
10. Programming and testing of SCADA equipment
11. Programming and testing of Teleprotection equipment
12. Programming and testing of Digital Fault Recorders
13. Complete system integration and commissioning



# Engineering Services

1. Power System Evaluation and Modernization Studies
2. Engineering & Design
3. Utility Interconnection Design
4. Equipment Failure Analysis
5. Protection / Scheme / Logic Design and Upgrades
6. Short Circuit, Coordination and Arc-flash Studies, mitigation



# Maintenance Services

1. Preventative Maintenance
2. Asset Management through the implementation and customization of maintenance programs for low, medium and high voltage equipment.
3. Thermographic Infra-Red) inspections
4. Insulating Fluid Sampling & Analysis
5. Power Quality / System Harmonic Analysis & Solutions



## TECHNICAL SERVICES



# Repairs & Retrofits

1. Switchgear repairs
2. Circuit breaker repair and refurbishment (600kV to 230kV)
3. Disconnect switch repair and refurbishment (5kV to 500kV)
4. Transformer inspection, testing, and repair including:  
bushing replacement, radiator replacement, gasket & leak repair, internal inspection and accessory replacement/upgrades.
5. Tap changer overhaul and repair, tap changer replacement.
6. Oil handling services including vacuum oil filling, transformer dry-out, and oil degasification on small distribution transformers up to large power transformers.
7. Emergency Repairs and failure investigation.





# EMERGENCY RESPONSE

For Service or Emergency Response, Call

**EPTCON** LTD.



A CORMORANT UTILITY SERVICES COMPANY

**TECHNICAL SERVICES**

24/7 Services

**1-844-620-4414**

