



حلول خط الطاقة

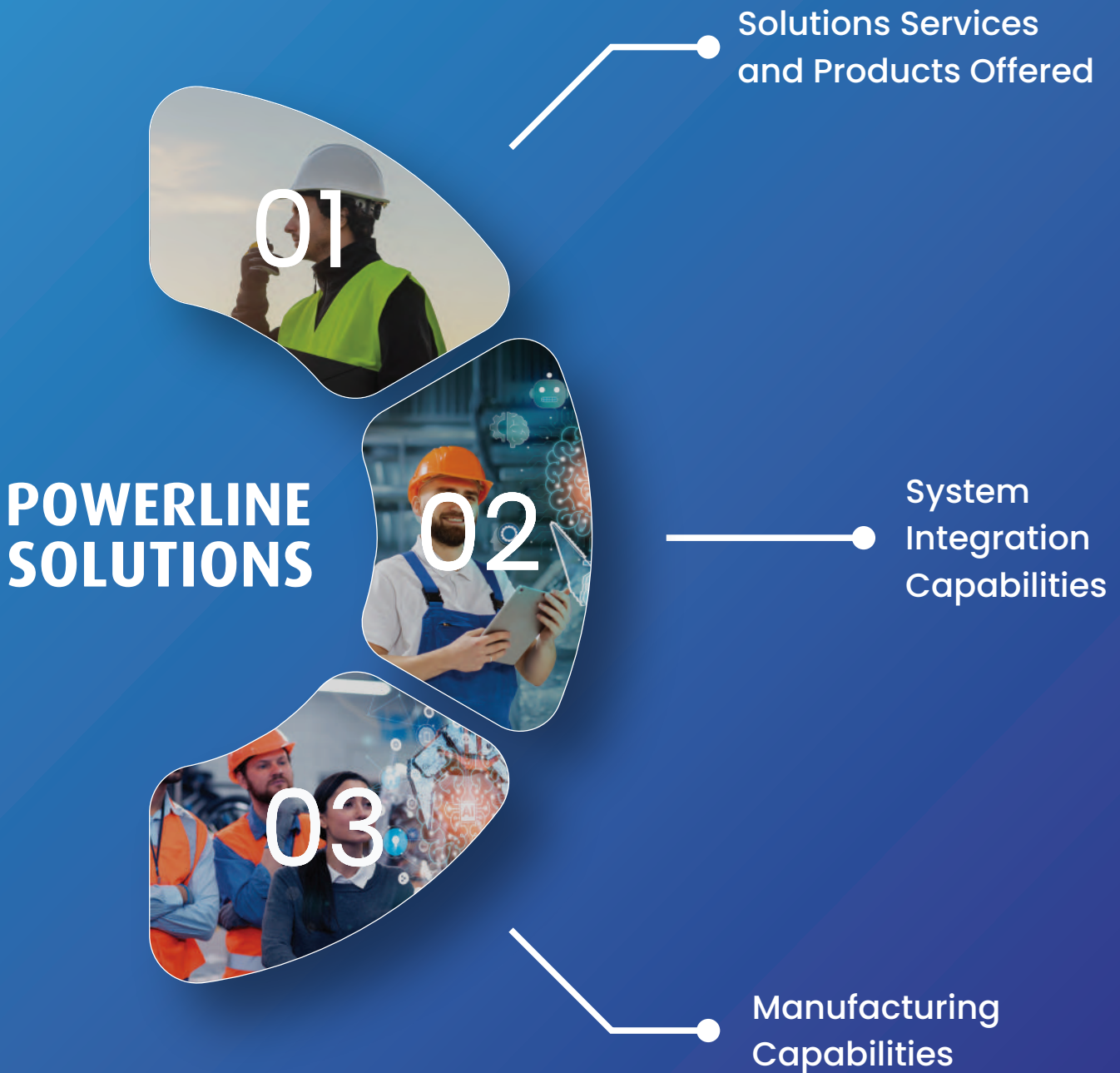
POWERLINE SOLUTIONS

**POWER SYSTEM SERVICES
BUSINESS UNIT**

www.powerlinesolutions.com

Commencing its journey in 2007, Powerline Solutions has set the standard for excellence in niche industrial segments, leveraging our expertise and in-depth knowledge. With a proven track record spanning almost two decades in the Saudi Arabian market, we have successfully completed several projects in core industrial segments, with the majority characterized by their challenging nature.

At **Powerline Solutions**, we are founded on the principles of leadership and impeccable commitment to our values, which form the bedrock of our operations. Our core values include Ethics, Safety, Quality, Environmental Integrity, Rigorous Training & Employee Welfare.



Solutions Services and Products Offered:



▴ EPC Projects

▴ Supply of Specialized Equipment & Solutions: We provide a comprehensive range of

- Mechanical Equipment
- Power Transformers
- Switchgears & Protection Upgradation
- Health care systems equipment & solutions.
- Electrical equipment & Solutions
- Power Quality devices & Solutions
- Instrumentation Devices & Solutions
- Power Backup Solutions

▴ Expert Service Team: Our highly competent & factory Trained service team is equipped to handle any challenges in

- Static & rotating Mechanical Equipment
- Power Transformers
- Industrial Backup Power Systems
- Instrumentation & Control Systems
- Power System Protection
- Industrial Drives
- Power Quality Services
- Health Care Systems

System Integration Capabilities:



- Analyzer shelter & sample handling systems.
- Containerized emergency Power Backup Solutions.
- Containerized Modular RO Packages & Modular Sewage Treatment Plants
- Modular Engineering packages for process cooling systems, chillers & chemical dosing skids.

Manufacturing Capabilities:



- All types of gas detectors, Flame detectors, alarms & controllers.
- Critical control valves for industries such as Oil and Gas, Petrochemicals, Power, Water, Wastewater, submarine & Cryogenic applications.
- Electrical Panel enclosures & special application switchgear components.
- Diverse range of polymer & rubber products.

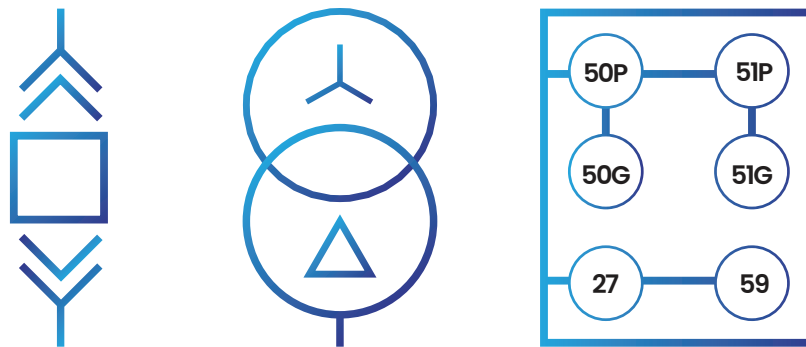
Partner with Powerline Solutions for impeccable commitment, unparalleled expertise, reliability, & innovation in industrial solutions & services. Let us empower your success.

Power system services

At POWERLINE SOLUTIONS, we're a dedicated Business Unit to delivering top-notch electrical solutions with a commitment to safety, reliability, and customer satisfaction. We pride ourselves on delivering exceptional Products & Services tailored to meet the unique needs of our clients.

With over 10+ years of experience in the industry, Our team of skilled professionals possesses the expertise and knowledge to tackle any electrical project, big or small, with precision and professionalism.

At Power System Services Business Unit, we offer a wide range of services for **Transformer, Switchgear & Protections Systems**



which covers an extensive range of disciplines as below:

- Power System Studies and Analysis
- Design, Engineering and Procurement
- Assembly and Installation
- Preventive Maintenance and Corrective Maintenance
- Testing, Commissioning and start-up support
- Retrofitting and Modernization
- Diagnosing and Troubleshooting

We understand that every project is unique, which is why we take the time to listen to your specific requirements and tailor our services accordingly. We work with our clients investing in our knowledge and experience to provide Professional Services. Our commitment to quality craftsmanship and customer satisfaction sets us apart as a reliable partner for all electrical needs and thus far, we have gained heartfelt appreciations with complete satisfaction of our clients.

1 Switchgear

- ▶ **Power System Studies and Analysis** – We provide comprehensive power system analysis services that delve deep into your electrical infrastructure, aiming to optimize load imbalances, outages, power quality, and capacity constraints to safeguard assets, personnel and ensure uninterrupted core processes.
- ▶ **Design, Engineering and Procurement** – We offer end-to-end solutions from conceptualization to execution, ensuring precise engineering and meticulous procurement to meet the highest industry standards.
- ▶ **Assembly & Installation** – We provide assembly and installation services carried out with the highest point of exactitude by following manufacturer guidelines and industry standards throughout the process.
- ▶ **Preventive Maintenance and Corrective Maintenance** – We provide services during Turnarounds/Shutdowns, including thorough Inspections, Cleaning, Lubrications, Repairs/Replacements & Testing Services to ensure the safe operation of your company's electrical equipment. Furthermore, We offer post-failure services on-site, including fault identification, and diagnostic testing.





- ▶ **Testing Services** – We utilize cutting-edge testing equipment to assess the performance of the switchgears therefore ensuring compliance with International standards and deliver detailed Reports and Recommendations. Our portfolio of Testing includes and is not limited to Relays, Circuit Breakers, Busducts & Busbars, CT's & PT's, Scheme Checks& wiring Corrections, Thermal Imaging, Partial Discharge Test & all Functional tests (Auto-Transfer) etc.
- ▶ **Commissioning & Startup Support** – We are professionals in commissioning switchgears and extend support for energization, safe start-up and operation.
- ▶ **Retrofitting of Breakers/MCCs** – We specialize in Retrofitting, by offering a cost-effective solution to enhance switchgear performance and extend lifespan by incorporating new technologies.
- ▶ **GIS Services** – Our GIS services cater to the scheduled maintenance, expert installation, comprehensive testing which ensures seamless operation and prolonged equipment life.

Protection System 2



- ▶ **Studies and Design** – Our expertise lies in designing and engineering protection relays, a systematic process for reliable and accurate protection of electrical systems against faults, overloads, abnormal conditions, and redundancy.
- ▶ **Engineering** – We conduct a thorough assessment of your protection requirements and develop detailed specifications tailored to your unique needs and operating conditions.
- ▶ **Procurement of Relays** – We identify and select reliable manufacturers based on requirements that are cost-effective and reliable for the customer.
- ▶ **Relay Upgradation/Modifications** – We specialize in protection relay upgradation, enhancing functionality, reliability, compatibility with new technologies, addressing obsolescence, improving system performance, and aligning with industry standards.



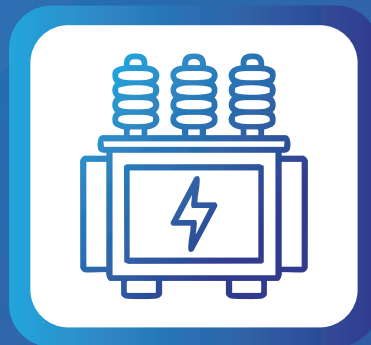


- ▶ **Testing of Relays** – Protection Engineers regularly test and calibrate relays in electrical protection systems to ensure their proper functioning, accuracy, and reliability during plant shutdowns.
- ▶ **Functional Tests and Scheme checks** – We are highly capable of performing Functional Tests and scheme checks during installation, commissioning to identify any issues and ensure compliance with standards and specifications.
- ▶ **Commissioning and Start-up support** – We ensure that protection relays are correctly integrated into an electrical system and operate as intended during the initial phases of system operation.
- ▶ **Relay Coordination Studies** – These studies are essential for designing and optimizing protective relay settings. They focus on determining the correct sequence and timing of relay operations to minimize the faults effects and ensure the system's stability.

Transformers

- ▶ **Design** – With the Collaboration of Transformer Manufacturers, we design the transformers for replacement projects which is a complex process that involves the careful consideration of various electrical, mechanical and thermal factors that meet specific performance and Installation requirements.
- ▶ **Assembly and Installation** – We have proficiency in the Installation of Power Transformers in Complex situations where replacement includes Jacking & Sliding Method, Safe and precise Transportation, controlled and safe descent etc.
- ▶ **Transformer Oil Services** – Our Team has Sincere dedication & precise work expertise in the Oil Works since Transformer oil plays a crucial role in maintaining the efficient operation and longevity of transformers; Our portfolio includes On Site Leak repairs, Transformer Oil Filtration, Passivation, Replacement, Reclamation & Regeneration of Oil.





- ▶ **Preventive Maintenance** – We have experiences and appreciations in this field from clients since the Periodic Regular maintenance helps identify and address potential issues before they escalate, reducing the risk of unexpected failures and prolonging the lifespan of the Transformer.
- ▶ **Corrective Maintenance** – Our capability to address issues, malfunctions or failures in transformers after they have occurred has gained notable mention in this field.
- ▶ **Testing Services** – Our portfolio of Testing includes IR & PI Tests, Turns Ratio Test, Winding Resistance test, Tandelta or dissipation factor measurement, Vector group checking, Short circuit and Zero Sequence Impedance measurement, Transformer CT Test, Thermal Imaging, Online & Offline Partial Discharge Test, SFRA, DFRA, Stability test and Functional tests.
- ▶ **Commissioning support** – We provide commissioning support which ensures the successful installation, testing, and integration of transformers into the electrical system.

Turnaround Services 4



Our Maestro Team is specialized and seasoned professionals in these Field Services and has won the hearts of many clients by mentioning our presence makes them at peace.

Our working strategy for Scheduled Turnaround includes proactive planning, prioritization, unwavering commitment to quality and relentless pursuit of innovation.





Our Services:

- Testing and Commissioning
- Upgrades and Modernization
- Inspections and Maintenance
- Repairs and Troubleshooting
- Turnaround Planning and Execution
- Emergency shutdown support

Experience the difference with POWERLINE SOLUTIONS.

Contact us today to learn more about how we can be your partner to support your Electrical Services & Turnaround needs and hence propel your operations to new heights of success.



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