



EPIC Offerings

Engineering. Procurement. Integration. Construction
Your single-source solution for power projects.

Powell's EPIC Service Solution is a step above traditional component level field service, field modifications and life extension. Our mission is to be your go-to provider for every aspect of your electrical distribution system needs. From Engineering services providing conceptual design to Procurement and supply of ancillary equipment, Integration of all required resources to accomplish Construction and Start-Up services.

Utilizing Powell's experience in power system design, contracting, procurement, logistics, and site commissioning and start-up provides a single-source supplier partner from start to finish.

WHY CHOOSE POWELL EPIC?

- One Contract, One Point of Accountability – Simplifies project management and reduces risk
- Faster Project Timelines – Integrated workflows streamline design-to-build
- Technical Excellence – Industry-leading expertise in substation design and construction
- Cost Control – Optimized procurement and efficient resource planning
- Seamless Integration – From studies to automation, we cover every stage

EPIC

Engineering
Procurement
Integration
Construction

ENGINEERING

- Front-end conceptual engineering
- Power system analysis and electrical load calculations
- Detailed building layout engineering and designs

PROJECT PROCUREMENT

- Secure supply chain
- Long-standing vendor relationships
- Dedicated strategic sourcing department

INTEGRATION

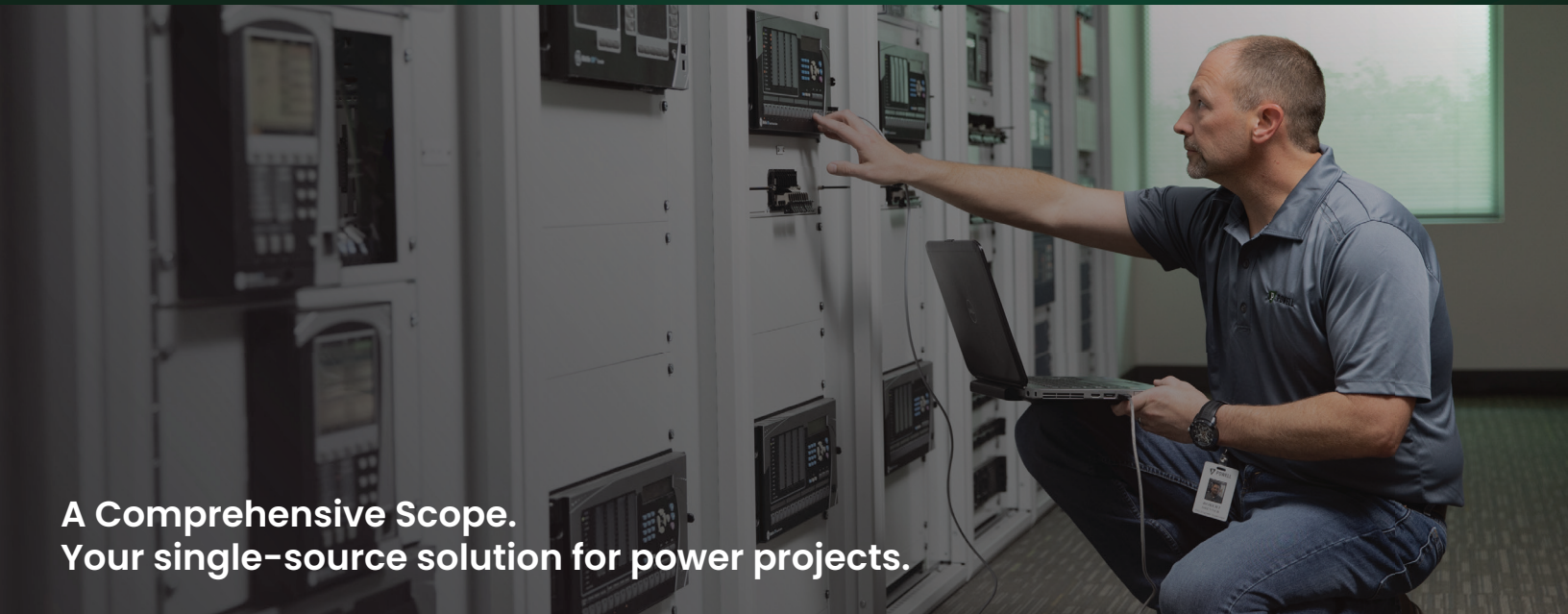
- Device neutral design model for power system monitoring and control
- Utilize Powell's line of intelligent devices to provide continuous system health monitoring
- Custom subscription services to alert you to potential issues before a critical failure occurs

CONSTRUCTION

- Removing, lifting, and setting of electrical distribution equipment
- External control and power cable terminations
- Site supervision and management

Solving your toughest problems.
We're with you every step of the way,
from project inception to product delivery.
Powered By Safety.®

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A Comprehensive Scope.
Your single-source solution for power projects.

SYSTEM STUDIES

- Short Circuit Analysis
- Load Flow Analysis
- Transient Stability Analysis
- Harmonics Analysis
- Arc Flash Studies (AC/DC)
- Protection Coordination Studies

FRONT-END ENGINEERING & DESIGN (FEED)

- Substation & switchyard design (distribution & transmission)
- Conceptual Single Line Diagrams
- Protection (Relay) Single Line Diagrams
- AC Elementary - Three Line Diagrams
- Relay & Component Material Lists
- Major Equipment BOM & Specifications Guidance (Transformers, Breakers, Switches, etc.)
- Structure Erection Diagrams & General Arrangement Plans

ELECTROMECHANICAL DESIGN

- Power Distribution System Design
- Substation Layouts & Elevations
- Bill of Materials
- Site Grounding Plans & Details
- Trench & Conduit Layouts
- Control Enclosure Layouts & Sections
- Relay & Control Panel Layouts & Elevations
- Cable Schedules
- Lightning Protection Plans

CIVIL & STRUCTURAL DESIGN

- Conceptual Site Planning
- Concrete Foundation Design & Detailing
- Steel Structure Fabrication Drawings
- Erection Plans
- Foundation/Anchor Bolt Plans
- Fencing Plans & Details

FIELD CONSTRUCTION SERVICES

- On-site construction and construction management services for all equipment installation associated with the power delivery system
- Removal of electrical distribution equipment
- Lifting and setting of electrical distribution equipment
- External control and power cable terminations
- Site supervision and management
- Equipment and Safety Training

AUTOMATION & CONTROL

- Automation, Protection, and Control System Design
- PLC, HMI, and SCADA Integration
- Generator Control Systems
- Complex Power Transfer Schemes
- Load Shedding & Restoration Schemes
- IED Settings Development