

Overview

Your partner in power, established in 1999, a South African based premium consulting company, providing services in the Energy sector. We offer a comprehensive range of specialised services applicable to projects from concept to implementation & beyond.

We can assist with feasibility studies, power system analysis, prelim designs and cost estimates, advisory services on areas such as energy policies and grid code compliance. We do substation (electrical and civil), HV and MV line designs, all the way to rural electrification or urban cable network designs.

We are deeply familiar with municipal and Eskom procedures and requirements making us the ideal partner to drive projects through the implementation phase. To this end, we offer project management, land survey, tender process management, and construction supervision services.

We are also one of the largest service providers of secondary plant testing and commissioning in South Africa up to 765kV equipment

We can take projects beyond the implementation phase with our operations and maintenance experience of electrical equipment for municipalities, factories, wind farms and solar farms.

We back up our service delivery with an around the clock emergency call-out facility for fault finding and emergency repairs. Our field services teams consist of highly skilled and specialised personnel. Applying the latest technologies and techniques to complete services like transformer oil testing, substation maintenance, cable fault finding and thermal imaging safely and on time.

Established on the core values of professionalism, commitment, integrity and excellence, Eya Bantu believes in delivering customised and value-added engineering solutions to its quality-conscious customers.

Eya Bantu opened a manufacturing facility in Gqeberha in 2017 and has since grown significantly. In 2022 we opened a second facility in Gqeberha. Our product range includes assembly of MV switchgear, substation control panels and e-Houses.



Our Vision

- To remain a market leader in our field of expertise
- To grow our business by increasing the range of our services as well as our footprint in Africa

Our Mission

- To uplift, develop and empower our local communities
- To stay focused on quality, outstanding service, and optimized solutions
- To exceed the expectations of our clients
- To enhance the potential of all our employees

b your partner
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Countries we've worked in



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Our Offices

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Services Include:

We aim to offer all the manpower, expertise and technologies to fulfill the requirements of our commercial, industrial and corporate clients, while maintaining the highest standards of design, workmanship, quality and safety in order to meet their expectations.

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Power System Consulting

Power system studies

- Planning pre-feasibility and feasibility studies
- Generation, Transmission and Distribution master planning
- Load forecasting, load flow, short circuit, RMS and EMT studies
- IPP grid impact studies
- Grid code compliance studies
- Insulation coordination studies
- Arc flash studies
- Protection coordination and relay settings
- Solar PV and BESS specification

Design

- Substation primary and control plant
- Overhead line and underground cable
- Earthing and lightning protection
- Metering and DC system
- SCADA and telemetry system including IEC 61850
- MV and LV switchgear
- Industrial plants, data centres and hazardous areas
- Electrification
- Building services
- Lighting design including street lights and high masts
- Backup power systems and UPS systems
- Power factor corrections
- Reactive power compensation

Other consulting services

- Project management and project coordination
- Construction management
- SHEQ management
- Energy efficiency, energy management, energy auditing
- Measurement & Verification
- Network operation and network management
- GMR 2.1 appointments

Switchgear & Control Plant Panel Manufacturing

MV Switchgear (Approved Installers)

- Schneider – PIX Easy
- Schneider – Premset
- Schneider – RM6
- ABB – Safe Ring
- ABB Safe Plus
- ABB GIS ZX 2 range
- ABB GIS ZX 0.2 range
- Actom – SBV4
- Actom – SBV4E
- Actom – AMv12

Substation Control Plant Panels – up to 765kv

- Transmission/Distribution Feeder
- Transmission/Distribution Transformer
- OLTC Control Panels
- BusZone
- Bus-Section/Coupler
- Cap Bank
- MV Switchgear Control Panels
- Metering (Tariff/Statistical/QOS) Panels
- AC/DC Distribution
- Scada/RTU Panels
- Substation Automation

Eya Bantu designs and manufactures the above panels to the customers specifications and requirements. The agreements with the main equipment suppliers ensure that all warranties and specifications of equipment are met.

Eya Bantu is fully authorised and trained to install and service the above equipment and will ensure all equipment warranties are maintained.

Eya Bantu will provide full local support on all products provided.

The above supplier agreements contribute to the following:

- Increased local content
- Faster delivery times
- Lowered cost
- Client specific engineering
- Local FAT's
- Local Support and Backup services

Design, Build, Install, Commission and Maintain the following

- Protection panels
- Tariff and Stat metering panels
- AC/DC Distribution Panels
- QOS Panels
- Distribution boards and control panels

Transformer & Switchgear Services and Repairs

- Oil Sampling services and analysis(Analyzed by an Independent Laboratory)
- Onsite Power Transformer specialist maintenance and repairs for oil-cooled and air-cooled units
- Power Transformer Protection devices and monitoring equipment replacements
- Oil Replacement and Purification Services
- On-site Oil Mini Substation servicing and parts replacements
- Rust Removal and Spray Painting Services

Renewable Energy Projects

- Feasibility studies
- Grid access studies
- Grid code compliance studies
- Techno-financial studies
- Grid connection design
- Electrical infrastructure design
- Substation design
- Overhead Line design
- Collector circuit optimisation
- Project management
- Owners engineer & lenders engineer
- Quality control & site supervision

in specialised power system maintenance

#1

BBBEE compliant



200+ Staff



Worked on 40+ Wind & Solar Farms



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High Voltage Substation Services

- Protection, Automation & Control Equipment Testing for both Transmission and Distribution Networks
- Instrument Transformer Testing
- Circuit Breaker Maintenance & Testing
- Disconnect/Isolator Maintenance and Testing
- Specialized Power Transformer Testing
- MV Switchgear Inspections and Testing
- Power Frequency Overvoltage Testing Switchgear up to rated Voltage 36kV
- Reactive Power Equipment Testing
- DC Battery Bank System & Charger Configuration and Testing
- Control Cabling Installation, Termination and Testing
- Earthing Systems Inspection and Testing

Metering & Quality of Supply Services

- Conversant with wide range of Communication protocols , such as IEC61850, DNP3.0, Modbus, IP/TCP, IEC60870-5-101/103 and many more.
- Energy Meter Installation. Set-up and Testing (known brands such as Landis & Gyr, Elster, Schneider ION & PM Ranges, Hexing, Enermax, CEWE and others)
- Setup and Commissioning of IPP Billing Energy Meters to Eskom Standards including modem configuration and communication testing back to Eskom SBO.
- Energy Meter Measurement Verifications to NRS-057 standards
- Metering Installations Audit and Reporting to NRS-057 standards
- Automated Meter Reading (AMR) Services for Commercial and Industrial
- Installation and Commissioning of Power Quality Instruments (Elspec, Impedo Duo, Vecto II & III, Schneider ION Series and others)
- Power Quality Investigations and Reporting to NRS-048 Standards

Substation SCADA & Automation Services

- Substation Remote Terminal Unit (RTU) Setup and Configuration
- Substation Gateway and Human Machine Interface(HMI)
- Advanced Substation Network Setup and Configuration



Field Services

MV /LV Cable Services

- MV/LV Cable Tracing and Route Identification
- MV/LV Cable Fault Location
- Overvoltage Pressure Testing @0.1Hz for cables up to 33kV to SANS standards
- Condition Assessment of MV Cable by Tan Delta Measurement
- Meggar & Live Phasing up to 33kV

Other Services

- HV and MV ORHVS Authorized Switching Services
- Thermographic Imaging Services
- Fiber Optic: Installation, Splicing, OTDR and Power Measurement and Testing
- Survey of Electrification Projects
- Soil Resistivity Testing