



Hertz Engineering
Ltd.



Company Profile

An independent specialist Electrical Engineering
& Design Consultancy

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Hertz Engineering Limited established its foot based as an Electrical Engineering Services, Procurement, and Construction, EPC Electrical company. It has its registered office at Sekondi-Takoradi, Essipon, Benedict Junction, Ghana.

The company has earned a reputation for excellence and professionalism for continuously striving to meet and even exceed standards which set the climate for a sustainable business relationship with its clients. As an electrical solution specialist, we offer electrical power products ranging from:



Low | Medium | High Voltage Transformers



Low | Medium/High Voltage Switch gears



Low | Medium | High Voltage Breakers



Low | Medium | High Voltage cables



Low | Medium Voltage Distribution boards (Panel)



Wiring Accessories



Industrial Automation and SCADA systems



Cable Trays (ladder) and Wire ways management system



Electrical Infrastructure Development & Installation



Preventive Maintenance

Hertz Engineering Limited also offers products such as:



Hertz Engineering Limited firmly believes that electricity is the cornerstone of a high-quality life. There will be a never-ending need for products and services to harness and maximize its full potential and use. In doing so, we will be the best-in-class provider of topnotch electrical products services and installation.

We will be recognized by:

Our customers

- We strive to be a leading preferred partner in customer focused and innovative engineering solutions to clients nationally and beyond.
- We strive to be a leading preferred partner in customer focused and innovative engineering solutions to clients nationally and beyond.
- Dependable and reliable distributor and seller of electrical power and control products and services installation.
- We strive to be a leading preferred partner in customer focused and innovative engineering solutions to clients nationally and beyond.

Our Suppliers

- Hertz is committed appreciates and recognizes that sustainable partnerships are essential to the company's success.
- As a creative, experienced, and top seller of electrical products in the industry.



Our Employees

- Hertz Engineering Limited values the dedication and commitment of its employees.
- As an innovative and technologically upfront company that ensures employee competence and advancement.
- As an employer who guarantees a safe working environment.
- Hertz engages in training and certification programs to help employees progress in their personal and professional growth.

Our Industry

- As a partner that promotes collaboration by engaging in trade associations
- As a business that makes a difference to the quality of life through the impact of excellent products, services, and solutions

Hertz Engineering Limited is committed to providing the highest quality products and services exceeding our client's expectations. We shall continue to expand in equipment and facilities and engage in training and certification programs to further serve customers with utmost excellence and professionalism. As we carry out our mission, we shall be guided by values of integrity, reliability, commitment, and collaboration. Our commitment to service is to:
Delivering Results, Exceeding Expectations

Why Us

Some of the following factors and strong business ethics carve a distinctive position for us among the other competitors and make us the most trusted business partner.

- Quality Products
- Competitive price
- Timely Delivery
- Customization exactly as per customer's requirement
- Capability to meet immediate and bulk requirement
- Customer focused approach
- Total Customer`s Satisfaction



Safety

Safety is of the utmost importance. We have a policy that Safety, Health and Environment (SHE) is not negotiable. Management and staff are not only responsible for their own safety but the safety of their fellow colleagues as well.

A risk assessment is performed before the commencement of each project. Employees are issued with protective personal equipment and regular safety meetings and "toolbox" talks are held to discuss safety issues and concerns to reduce the risk of injury/loss.

Integrity | Diversity | Innovation | Excellence

Hertz Engineering believes that conducting business ethically and being a responsible company are fundamental to the success of the company. We stand by ethical business practice that is consistent with our mission and vision and value.

Market Segments

Hertz Engineering Limited provides innovative and reliable electrical engineering solutions to a wide range of industries. Our expertise ensures efficiency, safety, and sustainability in every project we undertake. While we specialize in the following key market segments, our services are not limited to these areas, we are always ready to adapt to evolving industry needs.



Petrochemical Industry



Commercial & Industrial Energy Solutions



Power Generation



Industrial Sector

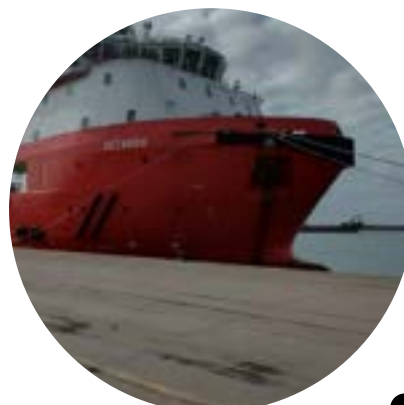


Mining Industry

Renewable Energy Solutions



Agricultural Sector



Marine Industry

Our portfolio encompasses a diverse range of projects, including those in the Power transmission and distribution, mining, renewable energy, manufacturing, petrochemical, and oil and gas industries.

We are actively involved in connecting the latest renewable energy projects to the national grid in the Ghana and West Africa, and our team combines both traditional and cutting-edge techniques to tackle the unique challenges of the energy sector.

Our services include but are not limited to;

Electrical Infrastructure ●
Engineering, Procurement, & Construction

LV Electrical Installation ●

High & Medium Voltage Transmission and Distributing Network & Substation Installation ●

Power System Modelling & Studies ●

Power System Protection Services ●

Electrical
Instrumentation
& Automation



Supply of
Critical Power
Products &
Consultancy Services



Civil engineering
& construction



Electrical Control
& Instrumentation
Panel Manufacturing



Commissioning
Services

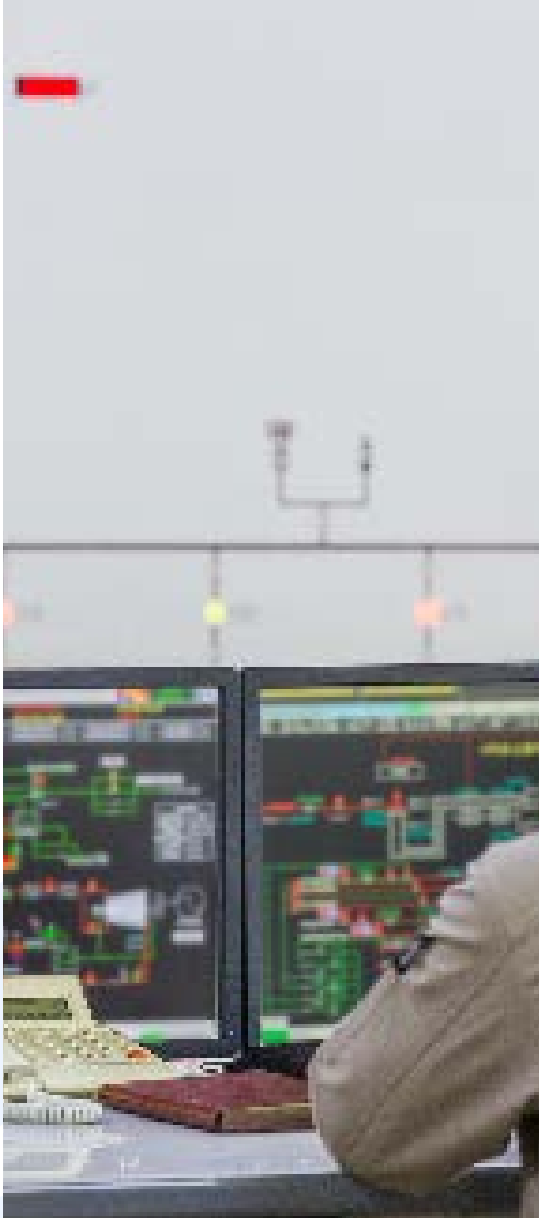


Electromechanical
structure

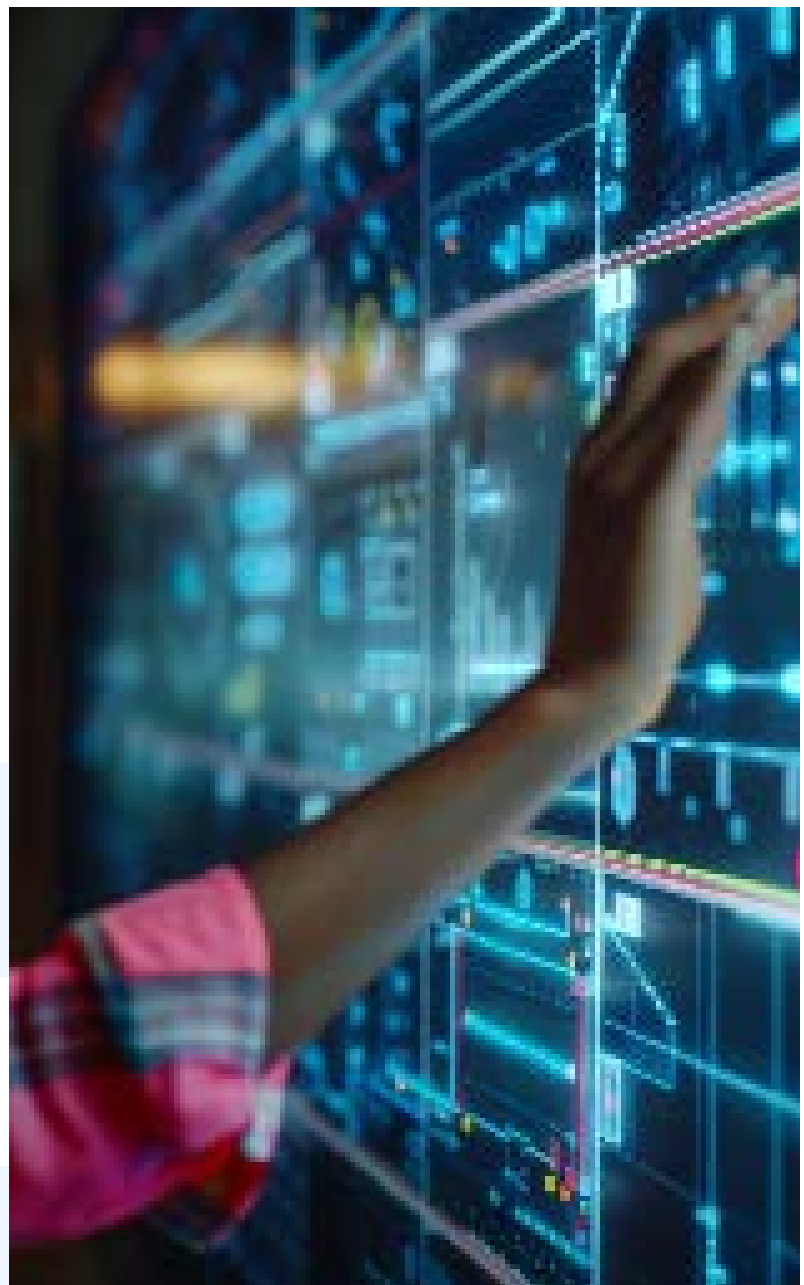


Power System Studies & Analysis

Reliable power systems are essential for efficient operations, yet many organizations struggle with complex electrical distribution challenges which threaten productivity and employee safety.



Issues such as load imbalances, frequent outages, variable power quality, and capacity constraints put assets and personnel at risk while interrupting core processes.

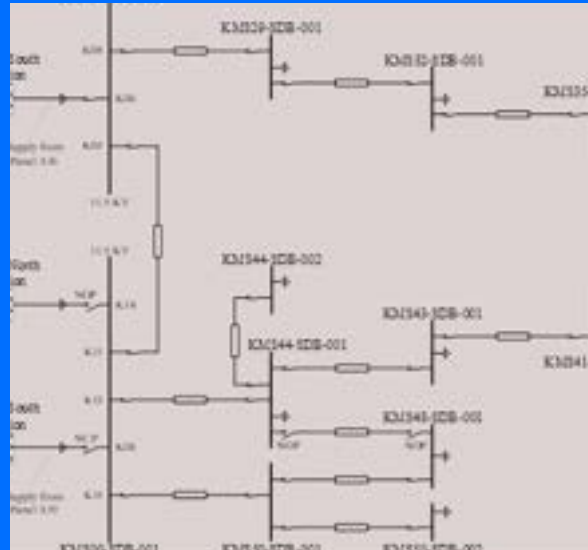
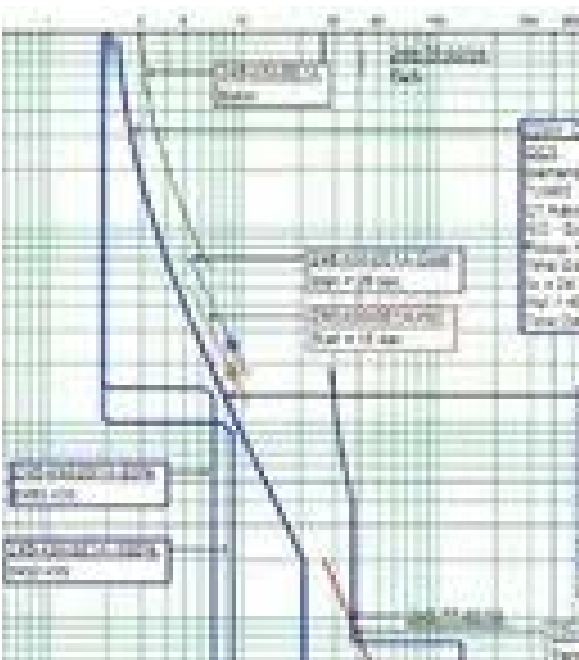


Power System Modelling & Analysis

At Hertz Engineering Ltd, we understand the pivotal role power system studies can play in protecting and future-proofing your electrical infrastructure.

Our power system studies & analysis delve deep into your electrical infrastructure, identifying issues, and providing bespoke strategies for asset optimisation.

This includes but not limited to data collection and analysis, simulations, and creating actionable recommendations.



Our power system consultants utilise advanced software such as

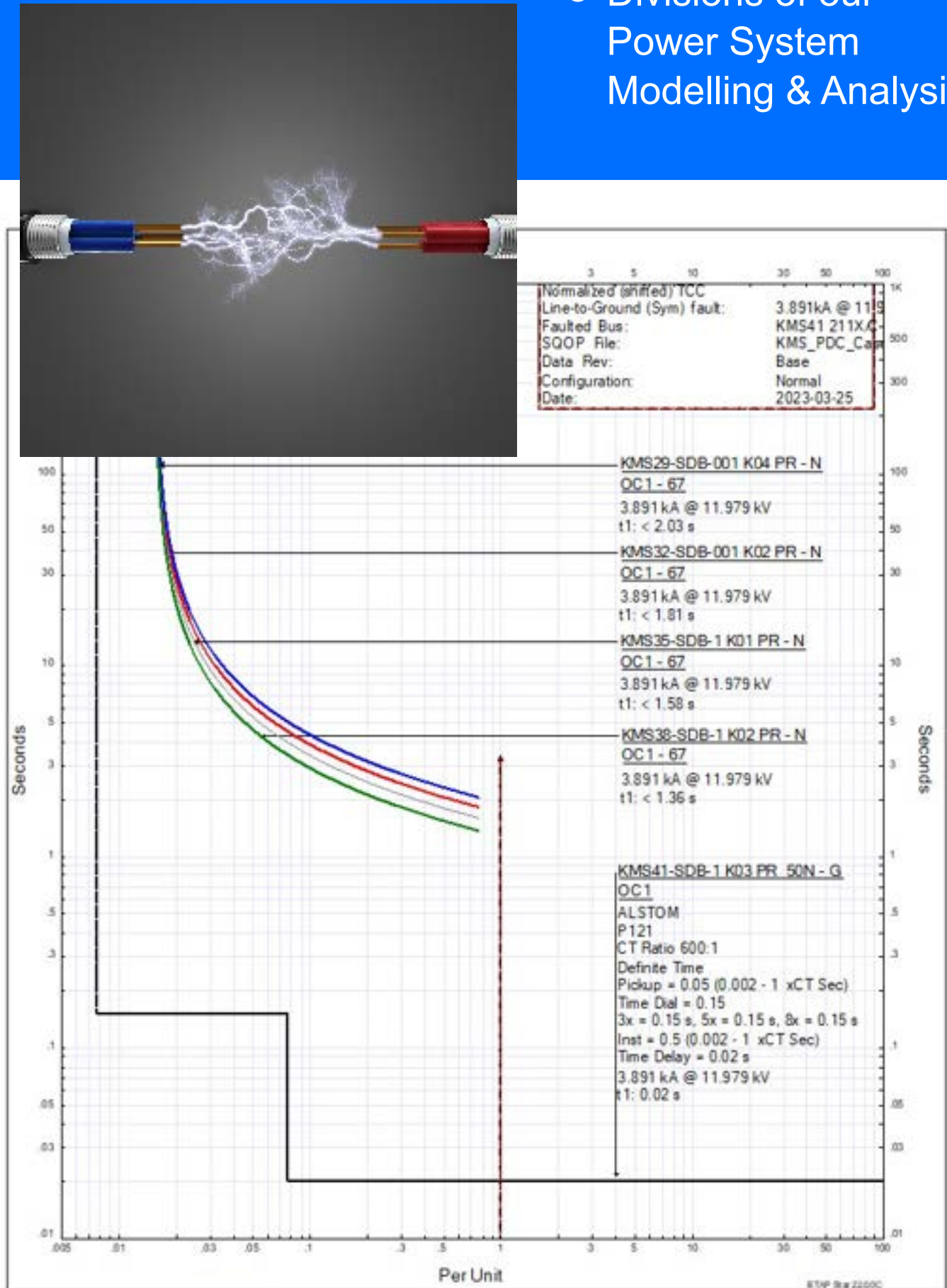
- ETAP
- EMTP-RV
- DlgSILENT
- PLS-CARDD
- Power Factory

With these tools we can establish a “digital twin” of HV and LV electrical power networks.

HEL’s Chartered Electrical Engineers specialise in enhancing the reliability of electrical power distribution systems. We meticulously identify and resolve any vulnerabilities and non-conformities within your infrastructure that may cause unexpected downtime.

Our expertise also extends to optimising load distribution and reducing wasted electricity. The safety of your personnel and electrical assets is our top priority. We work tirelessly to ensure a secure operational environment.

● Divisions of our Power System Modelling & Analysis



Arc Flash Services

Ensuring Safety & Reliability in Electrical Systems

At Hertz Engineering Limited, we specialize in Arc Flash Studies and comprehensive Power System Engineering Services designed to protect personnel, optimize system performance, and ensure compliance with industry standards such as NFPA 70E, IEEE 1584, OSHA, and NEC. Our services are tailored to help industries assess, manage, and mitigate arc flash hazards while enhancing the reliability of electrical infrastructure. Gain compliance.

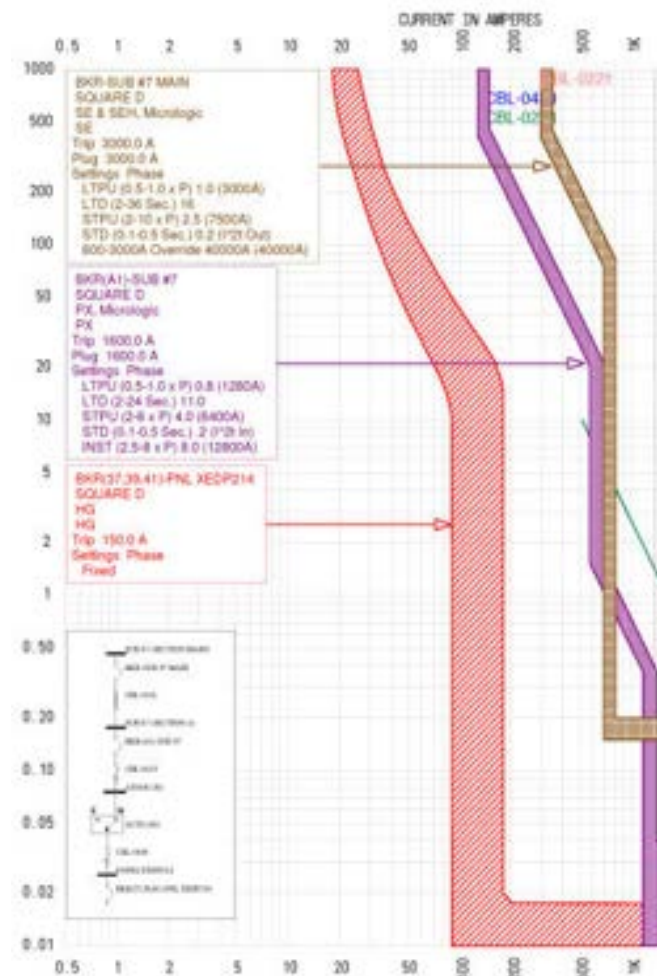
What is an Arc Flash?

An arc flash is a dangerous electrical explosion caused by a short circuit—either between conductors or conductor-to-ground. It results in extreme heat, intense light, and a pressure wave capable of destroying equipment and causing severe injuries or fatalities.

Why Is an Arc Flash Study Essential?

Every electrical system is unique, and changes such as upgrades, expansions, or additional loads can create unforeseen hazards. An Arc Flash Study, also known as an Arc Flash Risk Assessment, helps to:

- Identify arc flash hazards across the facility
- Analyze incident energy levels and recommend mitigation strategies
- Determine appropriate PPE (Personal Protective Equipment) for workers
- Ensure compliance with electrical safety regulations
- Improve power system reliability and prevent costly downtimes



Electrical Commissioning & System Studies

At Hertz Engineering Limited, our expertise extends beyond arc flash studies. We offer a full suite of power system engineering services to ensure optimal performance and compliance with safety regulations:

Short-Circuit Analysis – Prevent equipment damage and ensure system stability

Power Factor Correction – Enhance energy efficiency and reduce utility costs

Grounding & Bonding Studies – Improve electrical safety and fault protection

Load Flow & Motor Starting Analysis – Prevent voltage dips.

Transient & Harmonic Analysis – Identify disturbances affecting power quality

Protecting Your Workforce & Facility

At Hertz Engineering Limited, we follow a structured approach to arc flash risk management under three key principles:

Predict

- Identify areas where arc flash may occur.
- Assess risk levels across the facility.
- Model your electrical system using IEEE 1584 standards.

Prevent

- Evaluate equipment and upgrade where necessary.
- Implement engineering solutions to reduce hazard levels.
- Apply best-practice safety measures based on risk assessments.

Protect

- Recommend and supply appropriate arc-rated PPE.
- Implement proper labeling and safety signage.
Provide training and awareness programs.



Grid Compliance Monitoring & Reporting

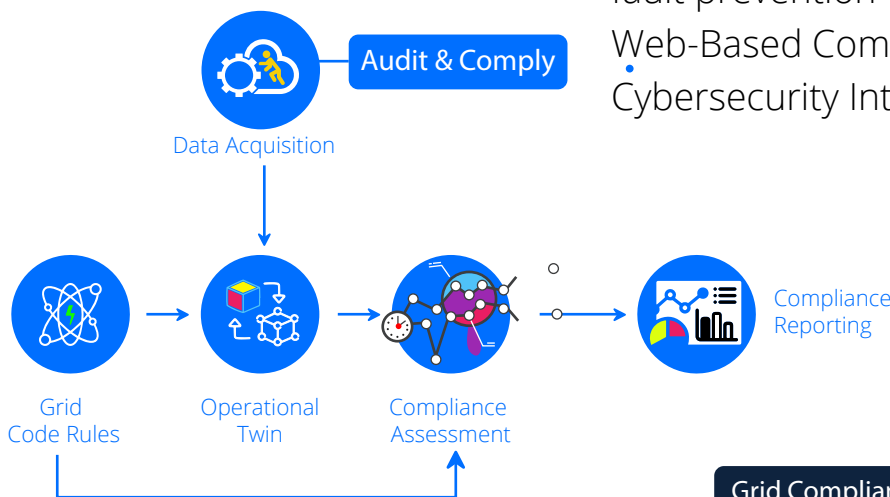
At Hertz Engineering Limited, we ensure power plants meet grid performance standards through real-time compliance monitoring and automated reporting. Compliance goes beyond PPC deployment—continuous monitoring prevents risks such as payment reductions, disputes, or disconnection.

Key Features & Capabilities

- Grid Code Compliance Assessment
- Power Quality Monitoring
- Grid Reliability Enhancement
- Dynamic System Monitoring
- Power Plant Parameter Optimization

Grid Compliance Monitoring & Reporting Key Features

- Grid Code Compliance Assessment Ensures regulatory adherence
- Power Quality & Voltage Stability Monitoring
- Fault Detection & Event Recording
- Real-Time Parameter Tuning with ETAP DPET
- Phasor Measurement Units (PMU) for early fault prevention
- Web-Based Compliance Reports & Cybersecurity Integration



Earthing Modelling & Design

Ensuring the safety and reliability of electrical power distribution systems is vital in current industries. Even momentary power outages or equipment faults can cause significant financial losses and, more importantly, put human lives at risk.

At Hertz Engineering Ltd, we provide tailored earthing design services to customers in a range of industries and power generation sectors, identifying areas of electrical risk, protecting critical assets, and improving health and safety.

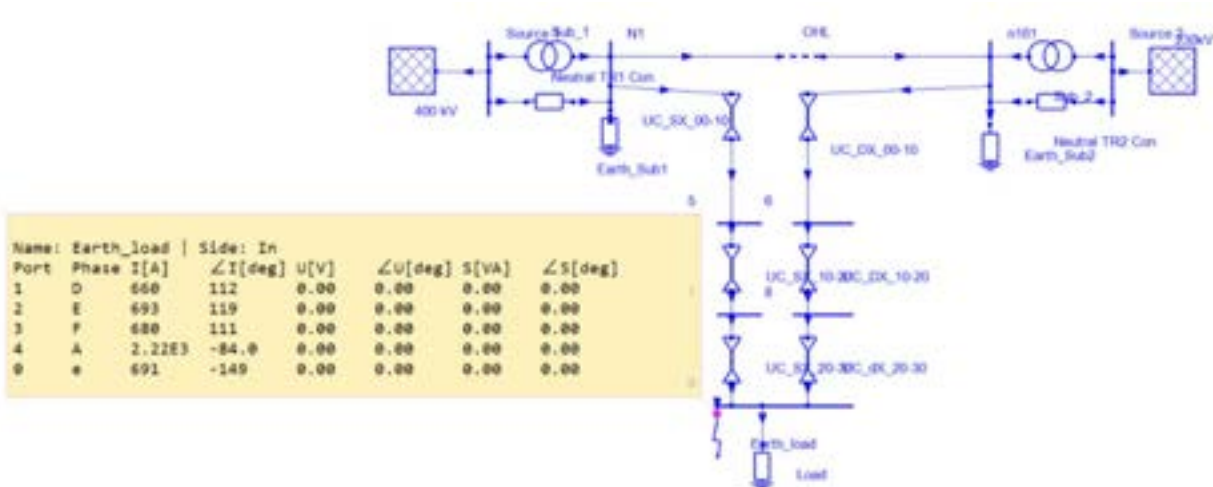
Our Approach

Hertz leverages industry-leading software such as Current Distribution, Electromagnetic, Grounding, and Soil (CDEGs) analysis and Finite Element Analysis (FES).

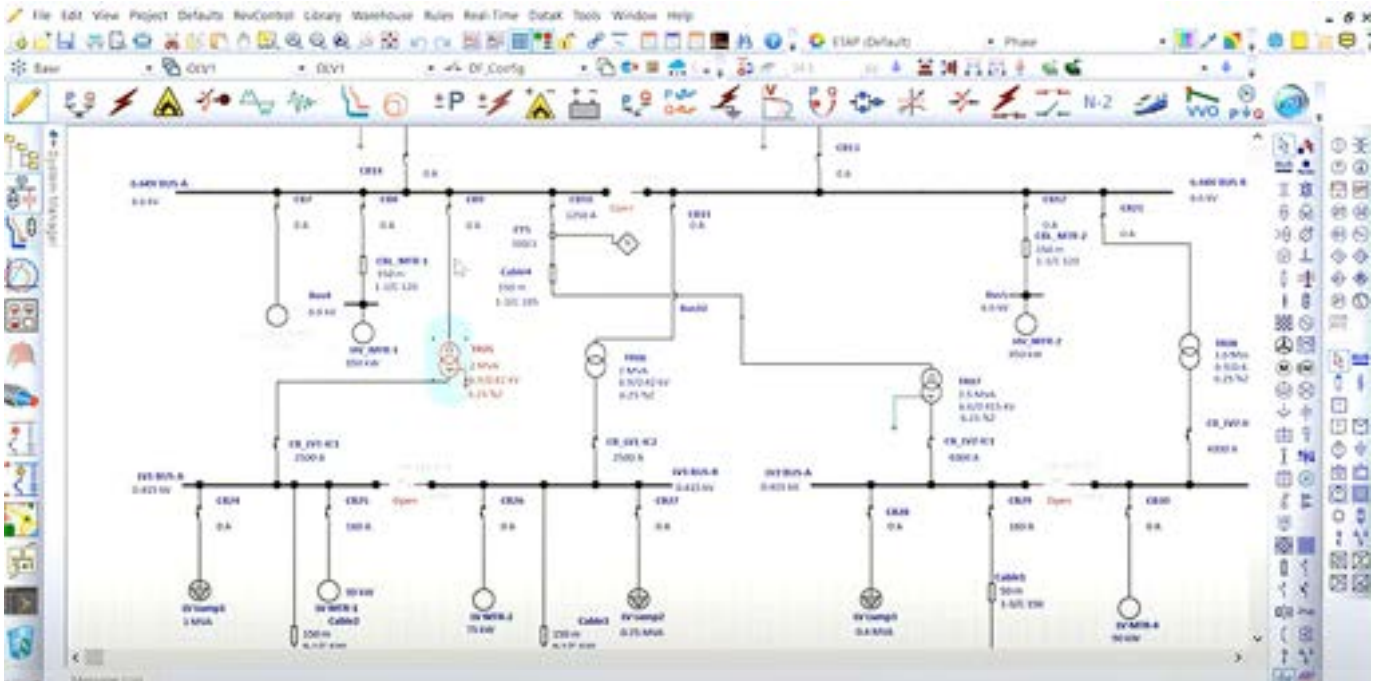
Through these tools, we follow a robust and flexible earthing system design process that can accommodate any electrical safety requirement.

Flaws in the soil resistivity testing process can undermine the quality and compliance of the entire earthing design.

Therefore, to ensure the accuracy and reliability of your earthing system, our electrical consultants use best-in-class soil resistivity instruments for precise results in all ground types.



Earthing Design Services



- Electrical Earthing System Design
- Identification of Surface Voltages ('Hot Zones')
- Earthing Policy Formulation
- Onsite FOP Measurements
- Soil Resistivity Testing
- Fault Current Distribution Modelling
- Rise of Earth Potential (ROEP) Studies
- CAD Drawings of Earthing Layouts
- Touch and Step Voltage Safety Calculations
- Soil modelling and Analysis
- Stray Current Studies
- Interference Studies
- Onsite Surveys and Assessments
- Earth Potential Rise (EPR) Calculations
- Fault Current Distribution

Earthing Survey Audits

The Purpose of Earthing System Audits

Earthing systems are an integral component of electrical installations; they ensure the safe dissipation of electrical faults and prevent hazards.

At Hertz Engineering Ltd, we deliver thorough earthing survey audits to assess your earthing infrastructure's efficiency, safety, and compliance. Our primary goal is to identify and mitigate risks and hazards within your electrical drainage systems. To further ensure safety and compliance with relevant electrical safety regulations, we also offer recommendations for improvements in your earthing system design.



Our Approach

The process of evaluating earthing systems within electrical assets consists of a thorough review of the following aspects:

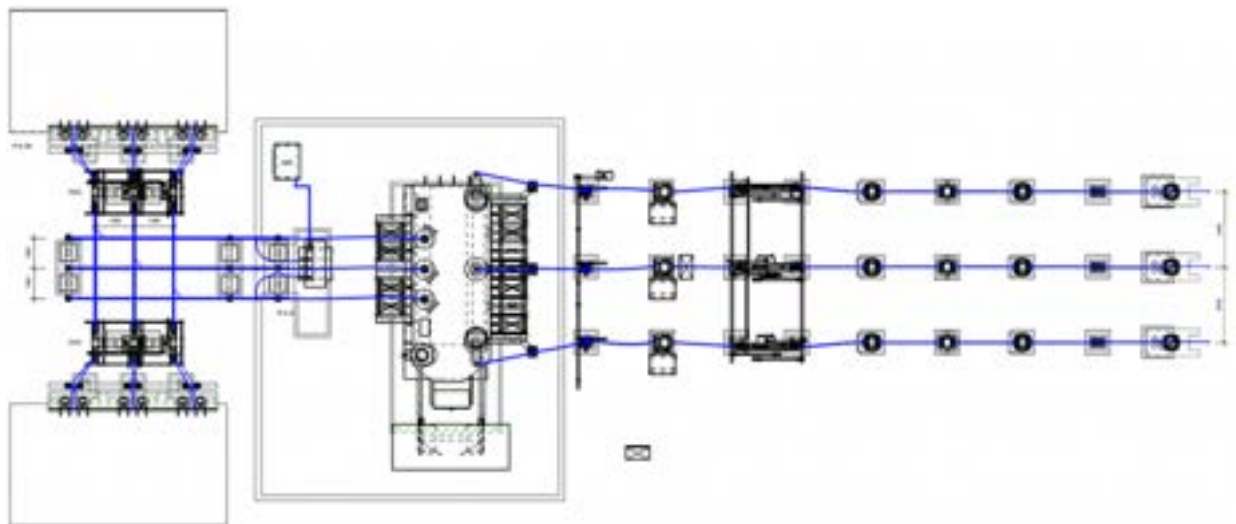
- **Earthing Design:** This involves assessing the adequacy of an earthing system's design in order to meet electrical safety standards.
- **Installation:** We verify that the earthing system is correctly installed as per the specifications.
- **Maintenance:** Hertz evaluates your ongoing maintenance practices to ensure they meet health and safety requirements.
- **Testing Procedures:** We review the methods and frequency of testing to confirm your system's effectiveness.

HV and LV Electrical Engineering & Design

With ever-increasing power demands and ageing energy infrastructures, ensuring safe HV and LV distribution systems is vital. However, designing robust and modern solutions comes with various roadblocks, such as budget constraints, and evolving environmental regulations.

Hertz's HV and LV services include fault protection and system calculations, grading, analysis, report presentation to both senior network operators and specialist HV personnel.

Our team of experienced power system consultants have in-depth knowledge in conducting site surveys, power system analysis, and detailed design of HV and LV projects.



Our Approach

Hertz staff have the ability to review, calculate and design HV and LV circuit protection, conductor & switchgear ratings, selection and standards, lighting fittings, power distribution equipment, cables & containment systems for HV and LV projects, using proprietary software systems.

Our Approach

We utilise calculations to established industry standards and models and produce electrical method statements and risk assessments for all of our electrical work

We routinely prepare full detailed high-voltage and low-voltage electrical and distribution system infrastructure design to tender documentation including electrical building and site layout plans, schematics, schedules and specifications that are tailored to suit specific client requirements.

Front End Engineering and Design

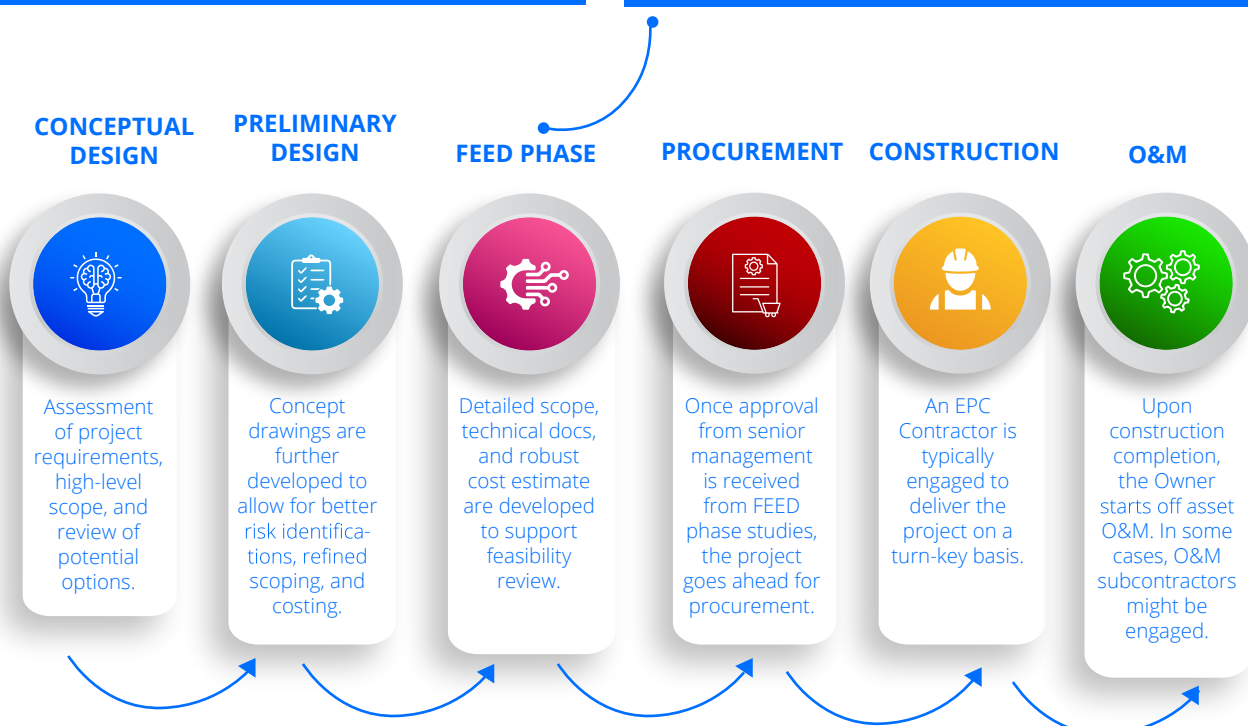
This conceptual design stage consists of conducting initial feasibility studies which address factors like analysing the current electrical capacity, the adaptability of existing equipment to accommodate increased loads, outlining preliminary equipment specifications, determining cable needs, and estimating rough order of magnitude (ROM) costs.

Detailed Design

We conduct all manner of detailed design, throughout your projects we provide the following documentation and drawings

- Schematic diagrams
- Cable routing drawings
- Protection scheme drawings
- Load schedules

The FEED phase is the third and last stage of the FEL process. It helps owners create a set of critical documents that underpin the final feasibility review before the project goes for procurement and construction.



Lightning Protection Analysis

Without adequate safeguards and earthing systems in place, lightning poses a serious risk to electrical networks, and can cause severe damage to critical and high-value assets, as well as electrical wiring and infrastructure.

At Hertz Engineering Ltd, our lightning protection design service assesses the risk from lightning to your assets and personnel and mitigates this risk by building effective protection and prevention measures into your earthing system design. All of our lightning protection designs comply with the latest BS regulations and safety standards, including:

- IEC / BS / EN 62305 – Protection against lightning
- BS 6651 Lightning protection for structures
- NFPA 780 – installation standards for lightning protection systems

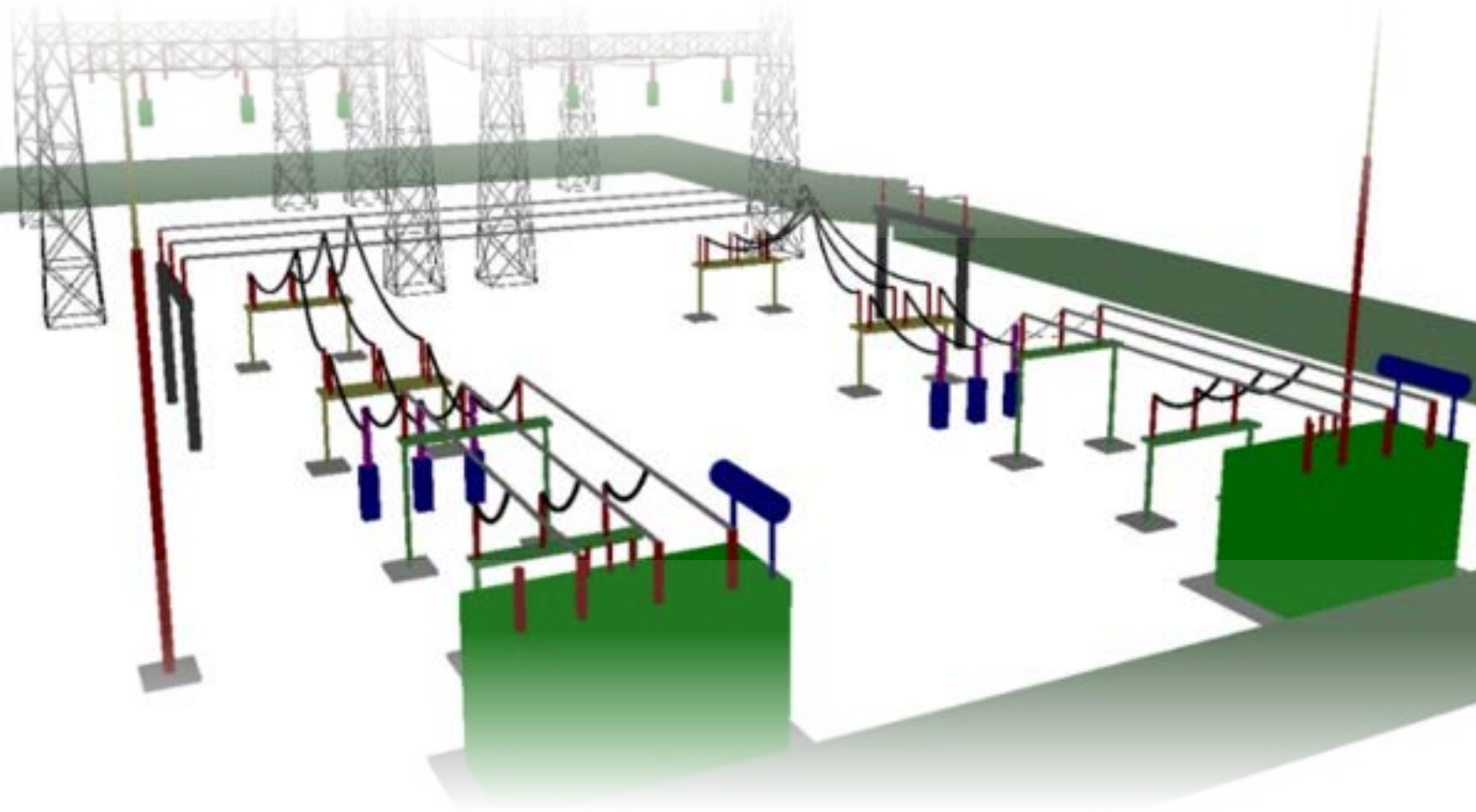


Services

- Lightning protection risk assessments (compliant with IEC/BS EN 62305)
- Condition assessments
- Integrated lightning protection, high-voltage earthing, and grounding system design
- CAD-compatible technical drawings
- Inspections and safety audits

Lightning Protection Analysis

Book a Consultation



The most effective protection strategy is to prevent lightning from striking sensitive electrical installations and structures. This is achieved by safely earthing the electrical current and diverting it away from vulnerable systems, thus preventing damage to critical assets.

At Hertz, we offer comprehensive earthing system design services and site surveys, identifying the best design and systems to optimise electrical safety on your premises.

If you have concerns about lightning striking your electrical infrastructure or would like to find more about our prevention and risk mitigation services, please contact one of our expert electrical consultants today.

Feasibility Studies

Ensuring the Feasibility of Your Energy Projects

Every electrical energy project begins with a feasibility study. Hertz Engineering Ltd (HEL) can provide these services to a range of clients across several industries.

These studies consist of a detailed breakdown of the most relevant factors of a proposed project to determine its likelihood of success. One of the most influential factors outlined in these studies is the potential return on investment of a project. When determining the viability of energy projects, our team considers the number of staff, the budget, and the technology required.



Services



Hertz leverages its experience and expertise to determine whether your project is compliant and whether or not it can meet deadlines and milestones within specified timeframes. Our electrical engineers will assist you in:

- Collecting and reviewing existing documentation
- Conducting site visits and assessments
- Consulting with clients/ stakeholders
- Researching and analysing options

Our Approach

Feasibility Studies



Financial Feasibility:

As experienced electrical engineering consultants, we have the expertise and technology necessary to judge a project's ability to generate money. Hertz's goal is to provide our clients with a detailed understanding of the economic aspects of their projects to help them make well-informed decisions.

Technical Feasibility:

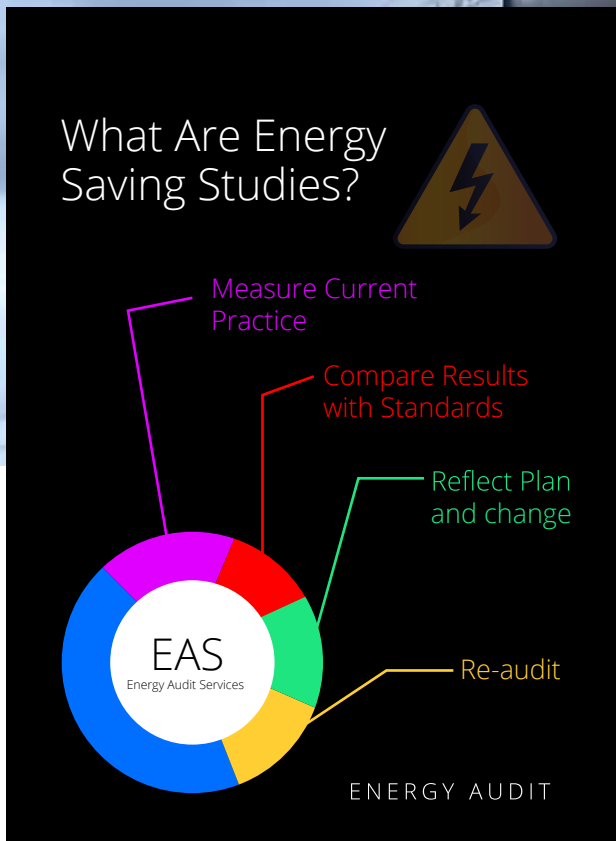
Another aspect of Hertz's feasibility studies entails a thorough examination of the condition, age, and compatibility of your existing electrical assets. This also takes into account any necessary changes or improvements that are required.

Operational Feasibility:

Within our studies, we examine how the proposed specifications will affect your electrical asset's operations. This includes a holistic view of critical factors such as safety, efficiency and compliance to industry standards and regulations.

Contact us today to assess the viability of your next project!

Energy Saving Studies



At Hertz Engineering Ltd , our experienced power system consultants highlight cost-effective and environmentally conscious approaches to energy management, optimising power usage and reducing wasted power.

Conducting a comprehensive energy saving studies in the optimisation of energy consumption across various industries.

These audits provide valuable insights to energy usage patterns, identifying areas of improvement with the overarching goal of increasing energy efficiency.

- **Energy Audits** - we assess you current energy consumption patterns and provide detailed recommendation for energy saving measures.

- **Implementation Support** - If desired, our team or electrical consultants can assist in implementing energy-saving strategies.

- **Measurement and Verification** - We offer post-implementation assessments to ensure the effectiveness of energy-saving initiatives.

Civil Engineering Solutions for Electrical Infrastructure

Civil Engineering plays a crucial role in the design, construction, and maintenance of physical and naturally built environments.

It includes essential works such as foundations, roads, and buildings. This field integrates various disciplines, including material engineering, architectural engineering, and structural engineering, to ensure safe and sustainable infrastructure.

In substation design and transmission lines, civil engineering is integral to numerous aspects, including tower and equipment foundations, building structures, road construction, and material analysis.

At Hertz Engineering, we specialize in delivering high-quality civil engineering services to support the modern requirements of the electrical sector with professional design and engineering expertise.



Hertz Engineering offers comprehensive civil services at all project sites, ensuring efficiency, safety, and reliability.

Our key civil capabilities include:



Site Preparation & Infrastructure

- Site grading, fill placement, stoning, and construction entrances
- Substation pad development and foundation preparation



Stormwater Pollution Prevention Plan (SWPPP) Management

- Site inspections and compliance monitoring.
- Installation of erosion control measures:
 - Silt fences.
 - Check dams.
 - Filter socks.
 - Seeding and stabilization.



Cable & Conduit Installation

- Cable trench excavation.
- Trenching and conduit placement for electrical distribution.



Site Drainage Solutions

- Piping installation
- Retention & detention ponds
- Swales and underground stormwater management



Surveying & Grounding

- Comprehensive site surveying
- Ground grid installation with all electrical connections



Access & Security

- Construction matting placement for safe access
- Transmission line access roads
- (matting and stoned access)
- High-security Chain-link fencing for site protection

At Hertz Engineering, we combine advanced engineering expertise with practical solutions to support the development of electrical infrastructure.

Our civil engineering services ensure the successful execution of complex electrical projects while maintaining the highest standards of safety and quality

Process Instrumentation, Control, and Electrical Commissioning

Our comprehensive commissioning services ensure all electrical infrastructure components function optimally.

- Control system commissioning
- Instrumentation setup and calibration
- Electrical system validation and performance verification
- Integration testing and compliance verification
- Process instrument commissioning
- Special electrical equipment and infrastructure commissioning

Specialized Testing Services

- **Thermography** – Non-contact infrared inspections for electrical components
- **Power Quality Testing** – Analysis of voltage variations, harmonics, power factor, and grounding
- **Earthing System Testing** – Measuring earth resistance and verifying grounding safety
- **Insulation Resistance Testing** – Evaluating dielectric resistance to prevent electrical failures
- **Earth Loop Impedance Testing** – Ensuring fault current protection to prevent overheating and fire risks

Electrical Testing & Commissioning

Our comprehensive testing and commissioning services ensure:

- **Deficiency Testing** – Identifying inconsistencies between design and installation
- **Error Testing** – Verifying wiring, programming, and controls
- **Reliability Testing** – Ensuring consistent performance benchmarks
- **Safety Testing** – Inspecting all equipment for compliance with industry standards



Electrical Infrastructure Commissioning

End-to-End Solutions

From immediate maintenance support to complex installations, Hertz Engineering designs, retrofits, and relocates electrical infrastructure to meet project needs.

Scalable Workforce

Our skilled workforce of specialized electricians and technicians ensures seamless execution of projects.

Post-Project Support

We provide ongoing support, including planned maintenance, on-site training, and emergency solutions.



High Voltage Construction, Installation, and Maintenance Services

Our team of engineers, tradespeople, and technicians provide custom solutions for high-voltage power management in industrial and utility sectors



Construction & Installation:

- 11kV - 1000kV substation commissioning
- Substation construction
- Power system installation
- Pole and powerline construction
- Street lighting systems
- Overhead powerline equipment

Maintenance:

- Relay testing
- Breaker maintenance
- Power quality and harmonics studies
- Pole and powerline maintenance
- System troubleshooting and failure recovery

Medium-to-Low Voltage Installation and Maintenance Services

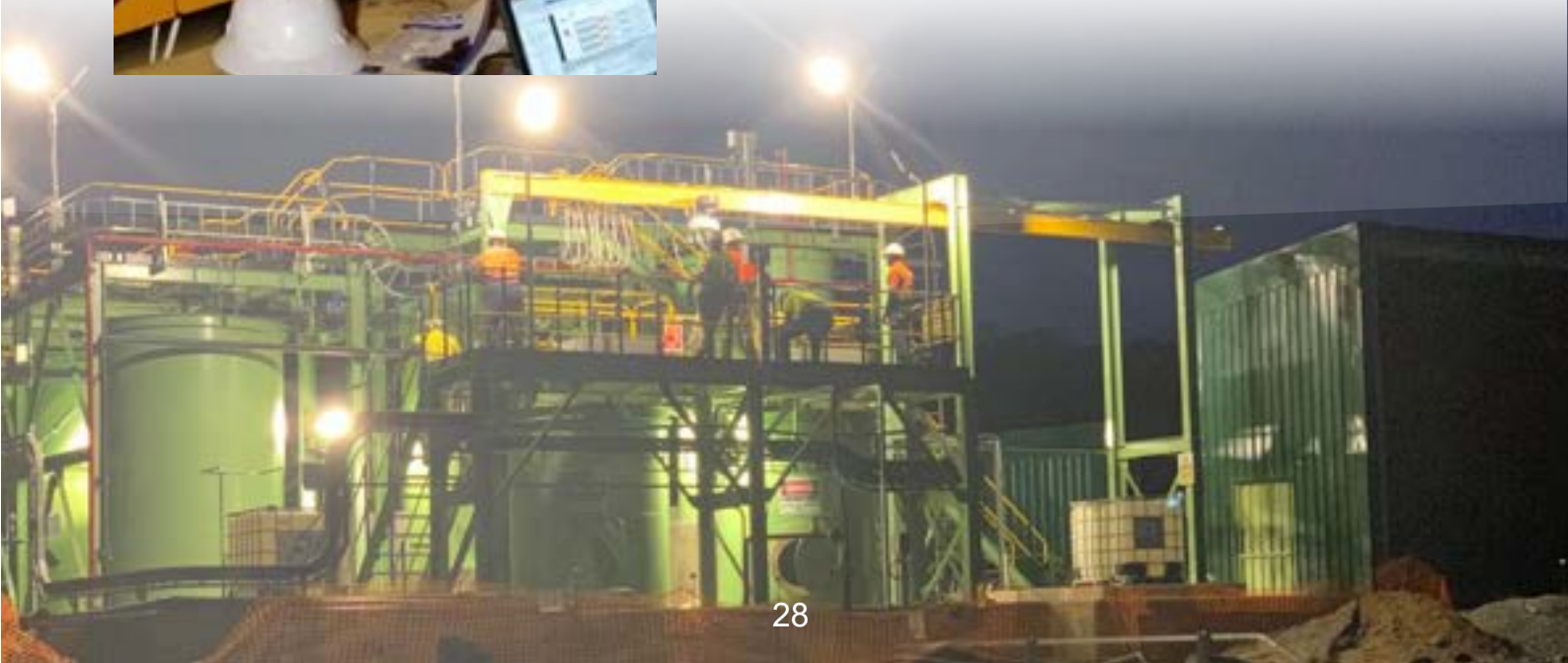


Installations:

- Distribution systems
- Motor control centers
- Facility lighting
- Production and process equipment

Maintenance:

- Equipment and electrical systems troubleshooting
- Annual power systems preventative maintenance
- Plant maintenance shift coverage
- Equipment electrical upgrades



Overhead Power line Construction



Overhead Power Lines

Hertz Engineering specializes in the design, construction, and modernization of overhead power lines across all voltage levels, ensuring efficiency, reliability, and compliance with industry standards.

Power Systems Transmission and Distribution Networks

We provide comprehensive power system solutions, from Design, Civil Electrotechnical Structure, 2,3,4 bundle contractor Stinging and commissioning at full-scale facility installations, also targeted upgrades, delivering safe and high-performance electrical connectivity.



Substation Construction

At Hertz Engineering Ltd, we specialize in the design, construction, and installation of high-quality power substations tailored to meet industrial, commercial, and utility needs. Our expertise spans across air-insulated (AIS) and gas-insulated (GIS) substations, ensuring efficient power distribution, safety, and reliability.

With cutting-edge technologies and advanced engineering solutions, we handle:

Turnkey Substation Projects – From planning to commissioning.

Equipment Installation – Transformers, switchgear, and protection system

Substation Upgrades & Maintenance – Enhancing performance and longevity.

Compliance & Safety Assurance – Meeting international standards.

Backed by a team of skilled professionals and industry-leading software like ETAP, PLS-CADD, OpenUtilities Substation, and AutoCAD Electrical, we deliver customized and scalable solutions for sustainable energy distribution.



Low Voltage Distribution Panel and MCC Manufacturing.

At Hertz Engineering Ltd, we specialize in designing and manufacturing Low Voltage Distribution Panels (LVDP) and Motor Control Centers (MCCs) tailored to meet the needs of industrial, commercial, and infrastructure projects. Our products are built with precision, ensuring efficiency, safety, and compliance with global standards.



Our Low Voltage Distribution Panels are engineered to distribute power safely and efficiently across various electrical loads. They are designed for:

- Industrial Plants – Reliable power distribution for heavy machinery.
- Commercial Buildings – Ensuring stable and secure electrical operations.
- Infrastructure Projects – Custom-built solutions for critical applications.

Motor Control Centers (MCCs)

Hertz Engineering's MCC solutions provide centralized control and protection for multiple motors in industrial and commercial applications. Our MCCs ensure:

- Seamless motor control for factories, refineries, and water treatment plants
- Optimized power management for energy efficiency
- Enhanced motor protection and system reliability



Renewable Energy Solutions

Sustainable Energy for a Greener Future

Hertz Renewable Energy Solutions is dedicated to delivering innovative and sustainable energy solutions for businesses across the Middle East and Africa. Through power purchase agreements (PPAs) and solar lease models, we provide cost-effective and reliable renewable energy to power industries, commercial establishments, and communities. Our cutting-edge solar photovoltaic (PV) systems, battery energy storage solutions, and electric vehicle charging systems help businesses transition to a cleaner, more sustainable future.

Our Sustainable Energy Solutions



Solar Energy Solutions

Harness the power of the sun with our high-efficiency photovoltaic (PV) systems, designed to provide reliable and sustainable electricity for your business needs.



Battery Energy Storage System (BESS)

Ensure uninterrupted power supply with our advanced energy storage solutions, allowing businesses to optimize energy consumption and reduce reliance on the grid.



Electric Vehicle (EV) Charging Systems

Support the future of transportation with our state-of-the-art EV charging infrastructure, enabling businesses to contribute to the green energy transi-

Why Choose Hertz Renewable Energy Solutions?

- Lower Electricity Costs
- Reliable Power Supply
- Manageable Long-term Costs
- Ownership Benefits
- Sustainability Goals
- Zero Capital Investment
- Guaranteed Performance
- Business Focus



Commitment to Sustainability & Community Development

At Hertz Renewable Energy Solutions, we go beyond providing renewable energy; we actively engage in initiatives that support community development, economic growth, and environmental sustainability. Our approach includes:

Technical Training & Job Creation – Providing employment opportunities and skill development programs for local communities.

Educational Support – Partnering with institutions to improve access to quality education through sustainable energy solutions.

Healthcare Enhancement – Supporting healthcare facilities with reliable and clean energy to improve medical services.

Infrastructure Development – Assisting local governments in upgrading essential infrastructure with renewable energy technologies.

Pioneering Renewable Energy Projects
Our team of experts has successfully executed numerous renewable energy projects across different sectors, demonstrating our capability in delivering efficient and scalable solutions. We are committed to advancing renewable energy adoption through continuous innovation and strategic partnerships.



Join us in creating a sustainable and energy-efficient future with Hertz Renewable Energy Solutions.



- Medium Voltage Products
- LV ACB, MCCB, and MCB
- Power Meters
- Control Products
- Capacitor Unit / Capacitor Bank / PF Controller
- Contactors and Overload Relays



- Termination Kit for 1 & 3 Core Power Cables
- Elbow Connectors for IEC
- NEMA Circuit Breaker and Disconnectors



- IEC General Purpose Induction Motors
- NEMA Standard Motors
- IEC Two Speed Motors
- Low and High Voltage Machinery Motors
- Hazardous Area Application Motor



- Process Instrumentation.
- Process Analytics.
- High Voltage Motors.
- IEC Enhanced Performance LV Motors.



- Distribution and Power Transformers.
- MV Protective Relays.
- Lighting Fixtures.
- Reliance AutoMax PLC Line.



- Industrial Lightings
- Highbays
- Floodlights
- Tubes



- Medium Voltage Circuit Breaker
- LV Air Circuit Breakers
- Miniature Circuit Breakers
- Molded Case Circuit Breakers
- Switches and Disconnects
- Control Products
- Contactors and Overload Relays



- Air Circuit Breakers (ACB)
- Molded Case Circuit Breakers (MCCB)
- Miniature Circuit Breakers (MCB)
- Capacitor Unit / Capacitor Bank / PF Controller
- Contactors and Overload Relays
- Distribution and Power Transformers



- LED Tubes
- LED Indoor Luminaires
- LED Outdoor Luminaires
- LED Lamps
- Industrial Lightings
- Highbays
- Floodlights



- Heat Shrink Cable Termination
- Power Line Insulators
- Copper/Aluminum Cable Lugs
- Overhead Line Fittings
- Cable Glands
- Fiber Optic Distribution Box
- Vacuum Circuit Breaker



- Electrical Cables & Accessories
- Power Cables
- Low Voltages
- Control Cables
- Data Cables
- Instrumentation Cables



- Low-voltage Armored Cable
- Paneling (600/1000V) / Welding (100V)
- PVC PVC SWA PVC (FR) BLK/Red (1.9/3.3kV)
- Flexible Wiring Cable (300/300V) & (300/500V)
- Fire Retardant (FR), Black/Red & Black/Blue (LHFR)



- MVE Medium Voltage Soft Starters
- MVX Medium Voltage Soft Starters
- EMX Series Advanced LV Soft Starter
- CSXi Series Low Voltage Soft Starter



- LED Tubes
- LED Indoor Luminaires
- LED Outdoor Luminaires
- LED Lamps
- Industrial Lightings
- Highbays
- Floodlights



- Circuit & Load Protection
- Condition Monitoring
- Connection Devices
- Distributed Control Systems
- Drives & Motors
- Human Machine Interface
- Independent Cart Technology



- Pressure Measurement
- Flow Measurement
- Industrial Wireless Technology
- Level Measurement
- Temperature Measurement
- Tank Gauging
- Flame & Gas Detection
- Corrosion & Erosion Monitoring



- Low Voltage Adjustable Speed Drives
- Medium Voltage Adjustable Speed Drives
- Low Voltage Motors
- Medium Voltage Motors
- Power Apparatus & Components
- Uninterruptible Power Systems
- SCiB Rechargeable Battery
- Oil Insulated Transformers
- SF6 Gas Transformers



- Dry Type Underground Mobile Substations
- Miniature Substations
- Transformer Enclosures
- Distribution Transformers
- Neutral Earthing Resistors (NERs)
- Auxiliary Transformers (NECRTs)
- Pole Mount Distribution Transformers
- Power Transformers
- Cast Resin Dry Type Transformers





- Pressure Transmitters
- Flow Meters
- Temperature Transmitters
- Level Meters
- Field Wireless
- Device Smart Communicators
- Distributed Temperature Sensor - Fire Detection/Fire Prevention
- FluidCom™ Chemical Injection Flow Controller
- Valve Manifolds
- Remote Indicators
- Current to Pneumatic Converter
- Pressure Calibrators
- Closed Circuit Television (CCTV)
- Metal Enclosed Switchgear
- Metal Clad Switchgear
- Arc Resistant Metal Clad Switchgear



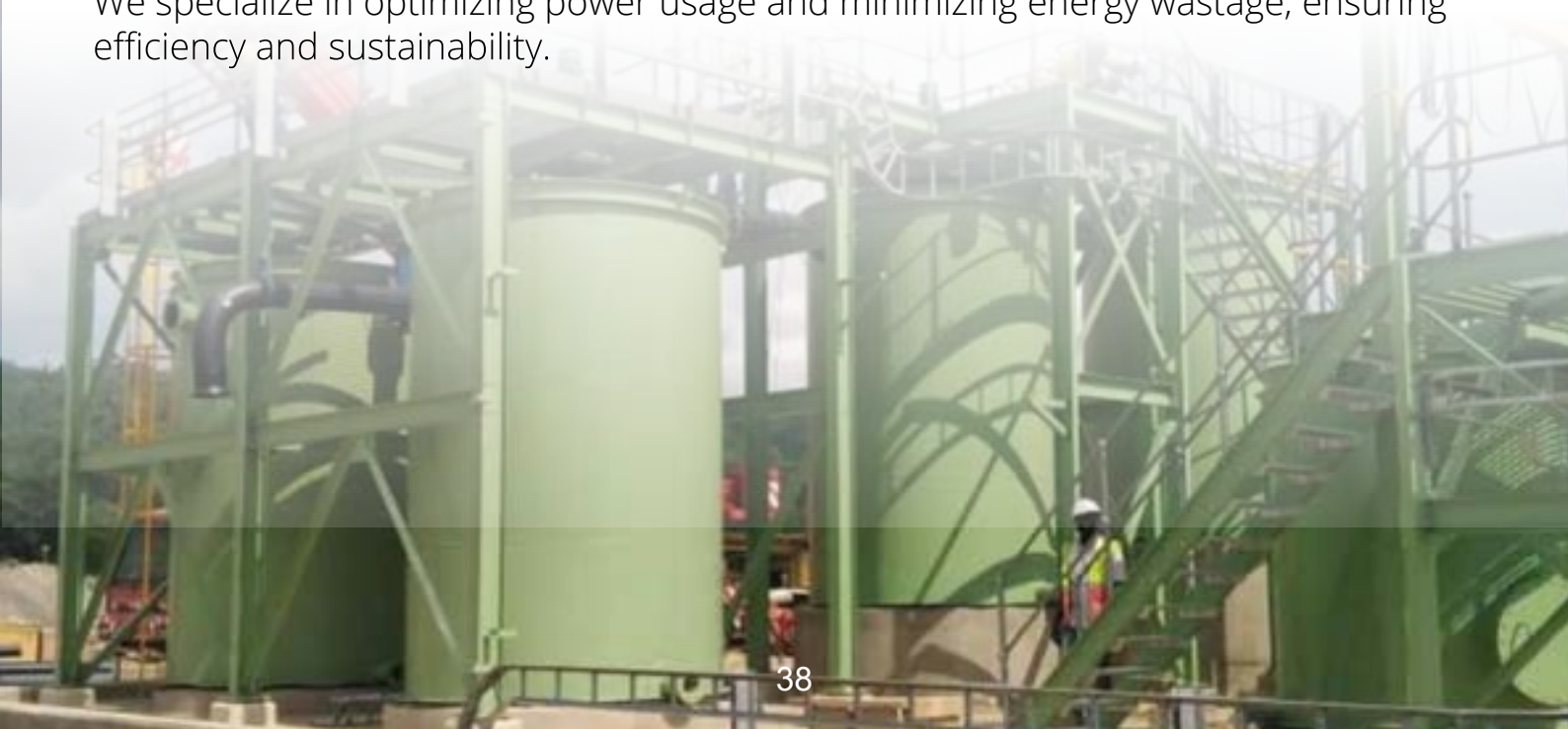
- Low Voltage Adjustable Speed Drives
- Medium Voltage Adjustable Speed Drives
- Low Voltage Motors
- Medium Voltage Motors
- Power Apparatus & Components
- Uninterruptible Power Systems
- SCiB Rechargeable Battery
- Oil Insulated Transformers
- SF6 Gas Transformers





At Hertz Engineering Ltd , our experienced power system consultants are dedicated to delivering cost-effective and environmentally conscious solutions for energy management.

We specialize in optimizing power usage and minimizing energy wastage, ensuring efficiency and sustainability.



Below is a comprehensive list of our projects from 2022 to 2025;

2022

INSTALLATION OF SURFACE AND UNDERGROUND SWITCHGEAR PANELS
2022

CLIENT

ANGLOGOLD ASHANTI LTD
- OBUASI MINE

MEDIUM VOLTAGE SAT - CERTIFICATION & COMMISSIONING
2022

CLIENT

POWER PLANT ELECT. TECH. LTD
(SOUTH AFRICA)

IWMF PERIMETER LIGHTENING IMPROVEMENT
2022

CLIENT

NEWMONT GOLDEN RIDGE - Akrem MINE



2023

MANUFACTURING OF LOW VOLTAGE SWITCHGEAR & MOTOR STARTERS
- 30KW,75KW,45KW, 90KW,150KW

2023

CLIENT

ANGLOGOLD ASHANTI LTD
- OBUASI MINE

INSTALLATION OF SURFACE AND UNDERGROUND SWITCH GEAR PANELS
- ASSEMBLING & FLOOR

2022

CLIENT

ANGLOGOLD ASHANTI LTD
- OBUASI MINE

LOW VOLTAGE ELECTRICAL CONTROL AND INSTRUMENTATION RELATED WORKS AND COMMISSIONING

2022

CLIENT

CARDINAL NAMDI MINING LTD

11KVA ABB VSD INSTALLATION & COMMISSIONING

2022

CLIENT

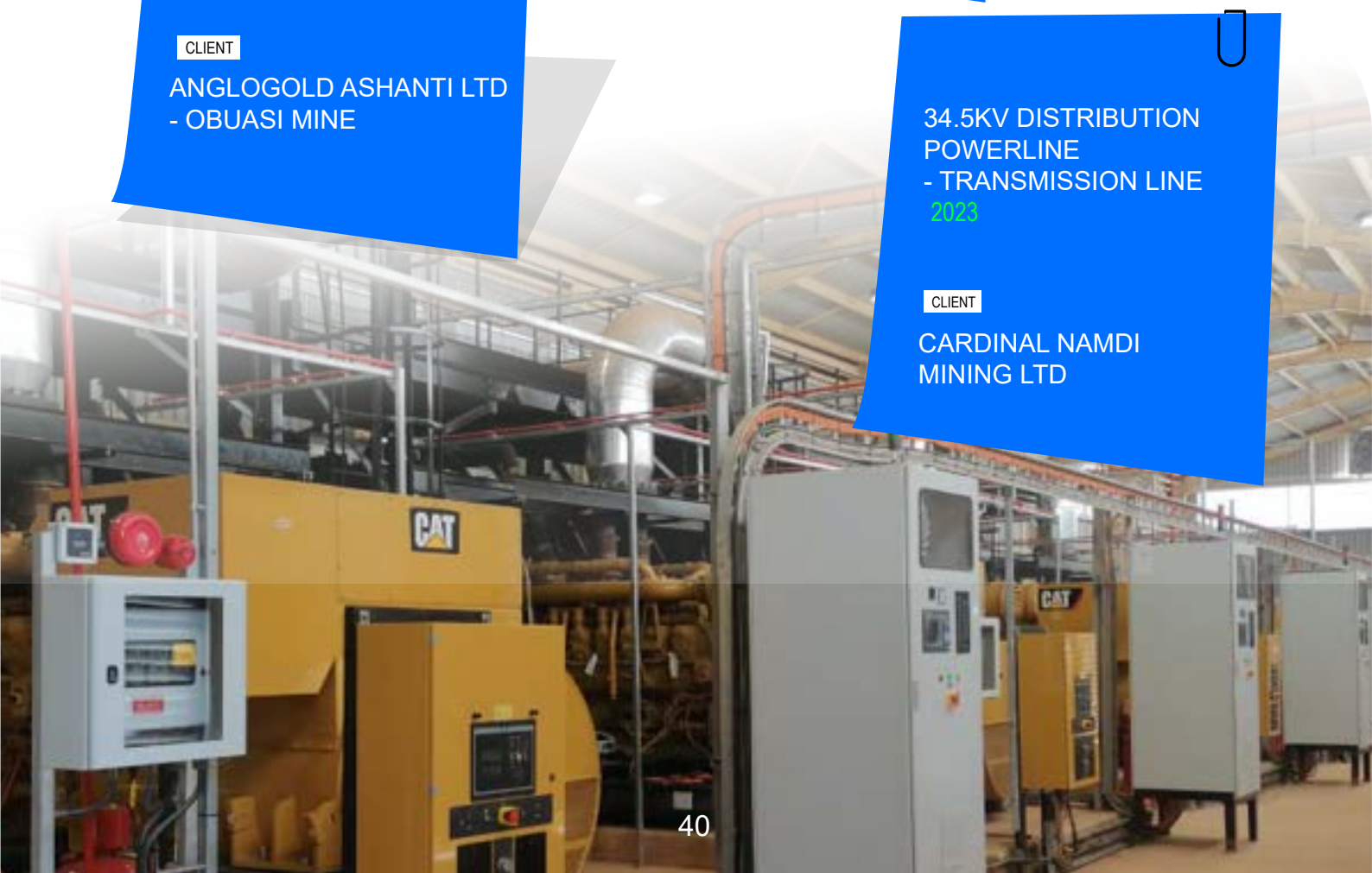
ANGLOGOLD ASHANTI LTD
- OBUASI MINE

34.5KV DISTRIBUTION POWERLINE
- TRANSMISSION LINE

2023

CLIENT

CARDINAL NAMDI MINING LTD



2024

DESIGN AND
CONSTRUCTION
OF 34.5KV OVERHEAD
POWERLINE AND
COMMISSIONING

2023

CLIENT

CARDINAL NAMDINI
MINING

2040-1708 DESIGN &
CONSTRUCTION OF
34.5KV
OVERHEAD POWERLINE &
COMMISSIONING

2023

CLIENT

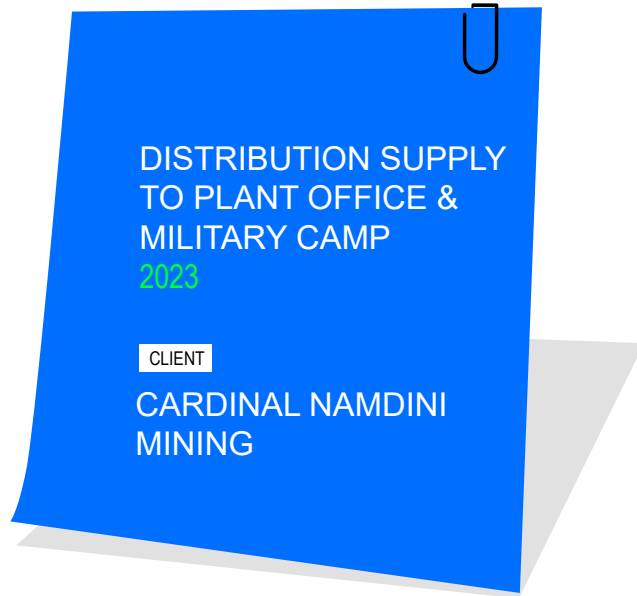
EIFFAGE ENERGIE
SYSTEMS

161KV/11.5KVA SUBSTATION
AND 53MVA POWER
TRANSFORMER
ASSEMBLING, VACUMING,
OIL TREATING

2024

CLIENT

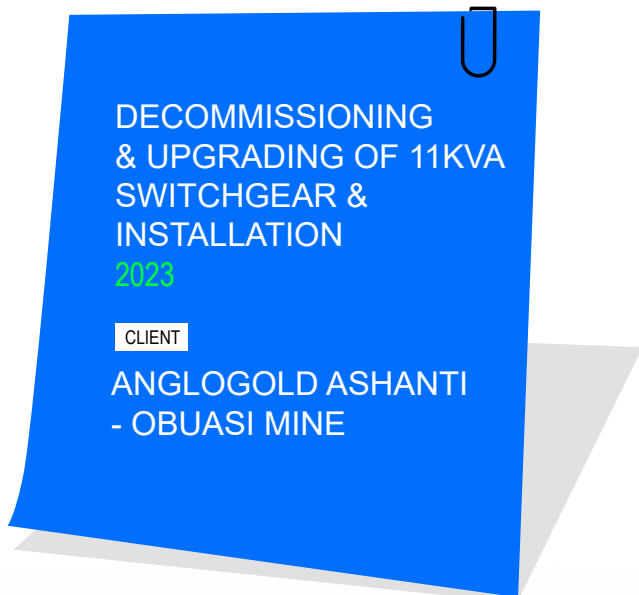
EIFFAGE ENERGIE
SYSTEMS



DISTRIBUTION SUPPLY
TO PLANT OFFICE &
MILITARY CAMP
2023

CLIENT

CARDINAL NAMDINI
MINING



DECOMMISSIONING
& UPGRADING OF 11KVA
SWITCHGEAR &
INSTALLATION
2023

CLIENT

ANGLOGOLD ASHANTI
- OBUASI MINE



2040 1711 161KV
OVERHEAD POWERLINE
STRINGING
2023

CLIENT

NEWMONT GHANA
GOLD / LYCOPODIUM



2025

MANUFACTURING,
DELIVERING AND
INSTALLATION OF
SAG MILL MCC-01
2024

CLIENT
CARDINAL NAMDINI
MINING

PRE-COMMISSIONING
161/11.5KV SUBSTATION
2024

CLIENT
NEWMONT GHANA
GOLD / LYCOPODIUM

SHORT CIRCUIT,
PROTECTION DEVICE
COORDINATION AND
ARC FLASH STUDIES ,
FOR AGA KMS
REDEVELOPMENT
2024

CLIENT
ANGLOGOLD ASHANTI
- OBUASI MINE



Advanced Tools and Expertise

At Hertz Engineering Ltd., our commitment to innovation and precision is reflected in the advanced software and tools we utilize for our projects. These technologies enable us to deliver efficient, reliable, and cutting-edge solutions in electrical engineering and infrastructure design.

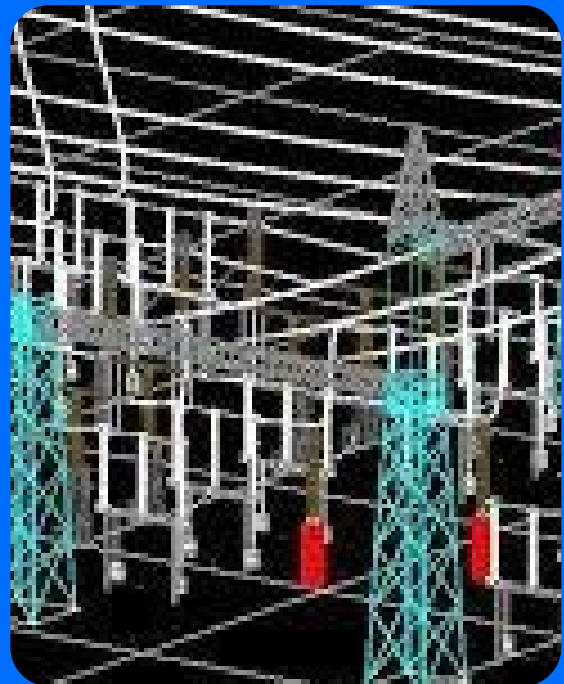
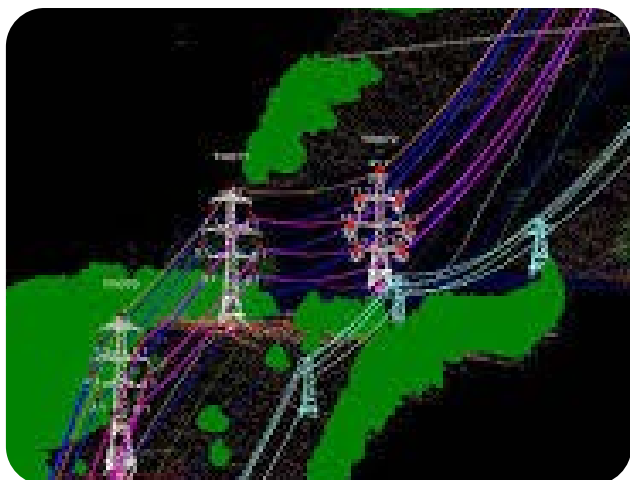
Software Proficiency

We leverage the following industry-leading tools to ensure excellence in our services:



PLS - CADD

PLS-CADD is the most powerful overhead power line design program on the market. PLS-CADD runs under Microsoft Windows and features an easy to use graphical user interface. It integrates all aspects of line design into a single stand-alone program with a simple, logical, consistent interface. No other program can match the sophisticated engineering capabilities available in PLS-CADD



OpenUtilities Substation

Continuous Intelligence
Digital Twin Solution to Plan,
Design, Automate, Operate, and
Optimize Electrical Power Systems



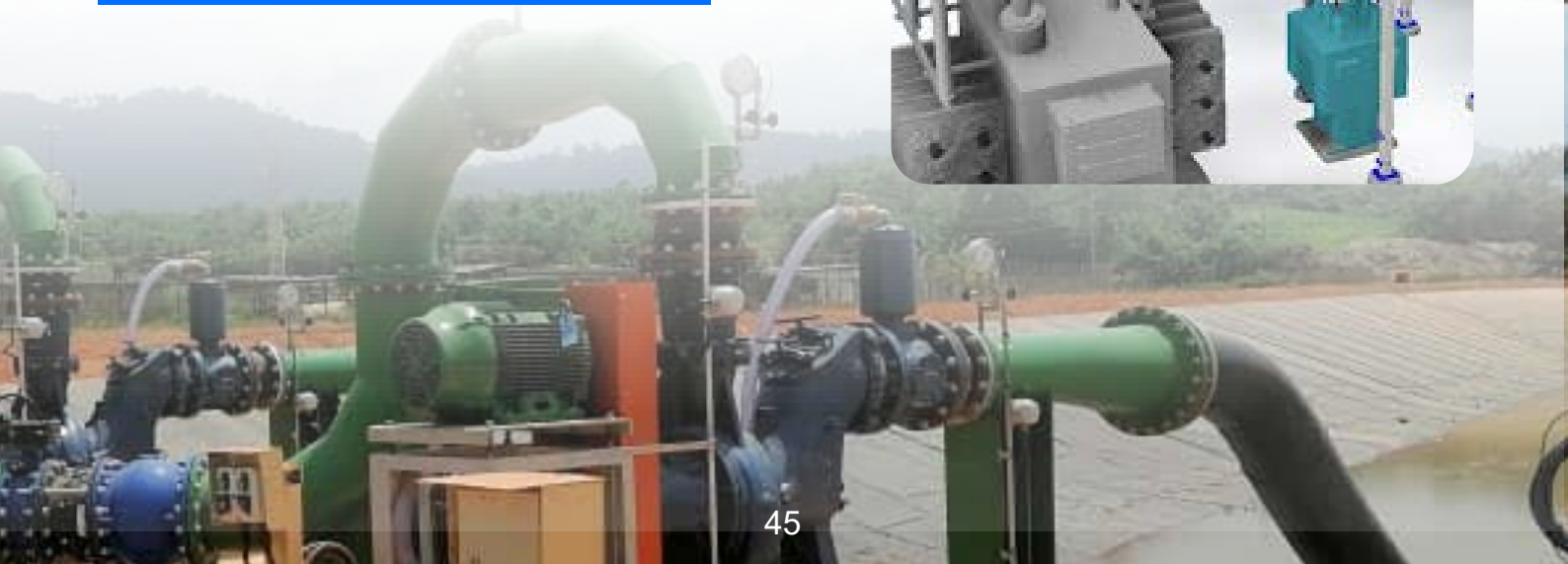
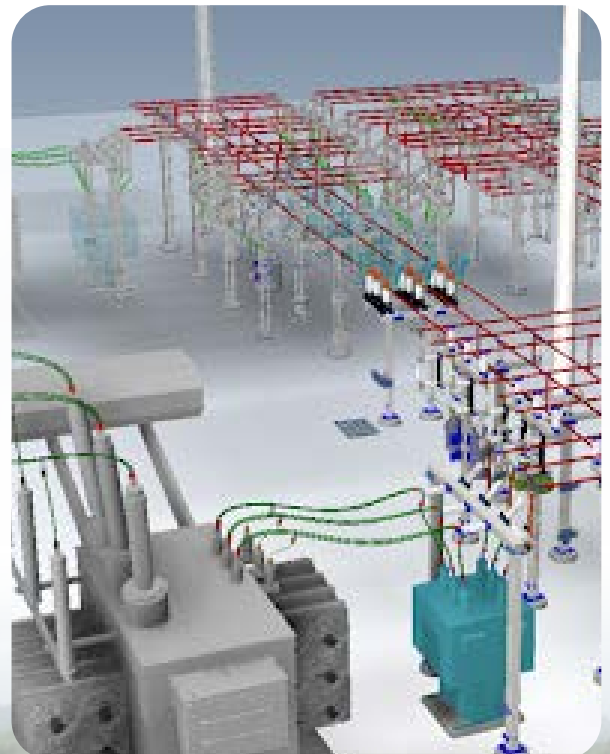
ETAP 22

Continuous Intelligence
Digital Twin Solution to Plan,
Design, Automate, Operate,
and Optimize Electrical Power
Systems



AutoCad-Electrical

Autodesk AutoCAD Electrical is responsible for designing electrical circuits using the AutoCAD family features as well as additional electrical design tools. This software with a complete library as well as the ability to perform design tasks automatically is a perfect tool for electrical, electronics and computer engineers.

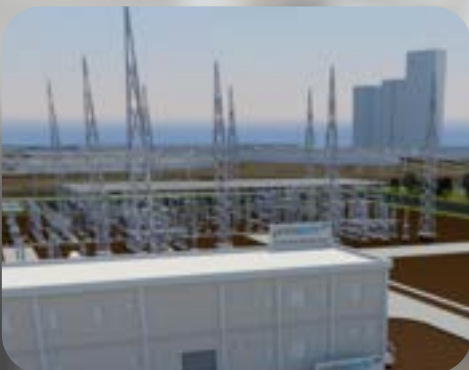
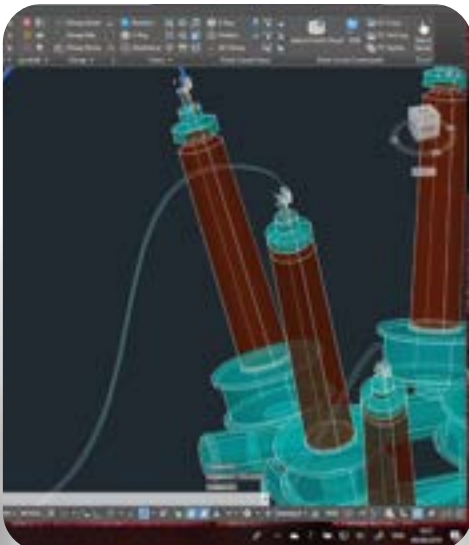




Primtech

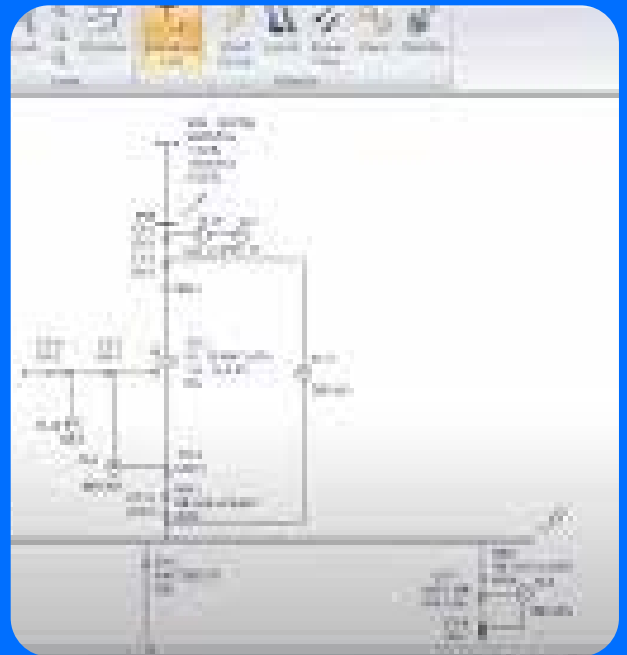
Primary Technology
CAE System for
CAD Design of
High-Voltage Switchgear

is the solution for substation BIM (Building Information Modeling) and has powerful integrated calculation tools like a Lightning Protection Calculation, Clearance Calculation and Short-Circuit Current – Calculation of Effects.



EasyPower

EasyPower is a software tool used for design, analysis, and optimization of electrical power systems. Widely used by designers, engineers, and owner-operators, EasyPower's industry leading user interface and interactive one-line diagrams allow for efficient creation and management of digital models. Analysis capabilities include short circuit, arc flash, equipment duty, protection & coordination, power flow, motor starting, harmonics, transient stability





AngloGold Ashanti Mining company

AngloGold Ashanti Limited is an independent and global gold mining company .

www.anglogoldashanti.com



Newmont

Gold mining company

Newmont Corporation is an American gold mining company based in Greenwood Village, Colorado. It is the world's largest gold mining corporation.



Power Plant Electrical Technologies (Pty) Ltd

is a company specializing in electrical solutions for power plants and industrial facilities.



Eiffage Énergie Systèmes

designs, builds, operates and maintains systems and facilities in electrical, industrial and energy engineering and HVAC which respect people and the environment



Cardinal Namdini Mining Limited

Namdini gold project is a high-grade gold mine being developed in Ghana, West Africa and is located 50km south-east of Bolgatanga in northern Ghana and lies 12km from Cardinal's Ndongu east prospect.



Lycopodium

is a global engineering firm specializing in mining, minerals processing, infrastructure, and project delivery solutions.

www.lycopodium.com



20th January 2025

To:

The Managing Director

Hertz Engineering Limited
PHC-079-0175, Essipon
St. Benedict Junction,
Takoradi - Accra Highway
Takoradi.

Subject: Appreciation for Outstanding Support and Technical Expertise

Dear Collins,

On behalf of Cardinal Namdini Mine, I am writing to express our heartfelt appreciation to Hertz Engineering for the exceptional support and technical expertise demonstrated during recent engagements with us.

Your team's dedication and swift action in building a new Electrical Power Motor Control Center (MCC) cabinet for us during our Semi Autogenous (SAG) Mill Motor Control Centre (MCC) Breakdown within such a short period were truly remarkable. The quality of work, combined with the professionalism and efficiency displayed throughout the process, exceeded our expectations. Your rich technical experience and timely intervention played a significant role in minimizing downtime and ensuring the smooth resumption of operations.

It is always a pleasure working with organizations that prioritize excellence, innovation, and customer support. Your commitment to delivering high-quality solutions has left a lasting impression, and we look forward to continuing this fruitful partnership.

Once again, thank you for your invaluable contributions. Please convey our gratitude to your entire team

Yours sincerely,



Yinming Zhang
Investment Director & Vice President
Cardinal Namdini Mining Limited



Certificate of Service Recognition

Hertz Engineering Limited is honored to receive this Certificate of Service in recognition of our outstanding contributions and unwavering commitment to the Obuasi Redevelopment Phase 3 Project. Over the course of three years, our team played a crucial role in delivering high-quality engineering solutions, ensuring the successful completion of the project.

This achievement reflects our dedication to excellence, professionalism, and reliability in the engineering sector. We extend our gratitude to our partners and stakeholders for their trust and collaboration.



Hertz Compliance & Registration

At Hertz Engineering Ltd, we are committed to adhering to the highest industry standards, ensuring full compliance with regulatory authorities in Ghana and West Africa. We are proud to be officially registered and compliant with the following key bodies:



Ministry of Works and Housing:

We have received a Certificate of Classification for Electrical Works and General Building Works, Civil Works, recognizing our capability and compliance to execute these services to the highest standards.

Inspectorate Division, Minerals Commission of Ghana:

Hertz Engineering Ltd has been granted authorization to provide electrical engineering services to companies operating within the mining industry in Ghana. This certification underscores our specialized expertise and our ability to contribute to the growth of the mining sector.



Volta River Authority (VRA):

We adhere to VRA's requirements for energy production and distribution, guaranteeing our projects meet their rigorous standards.



Electricity Company of Ghana Limited

Electricity Company of Ghana (ECG):

As a registered company, we are in full compliance with ECG regulations, ensuring that our electrical engineering projects contribute to Ghana's sustainable energy

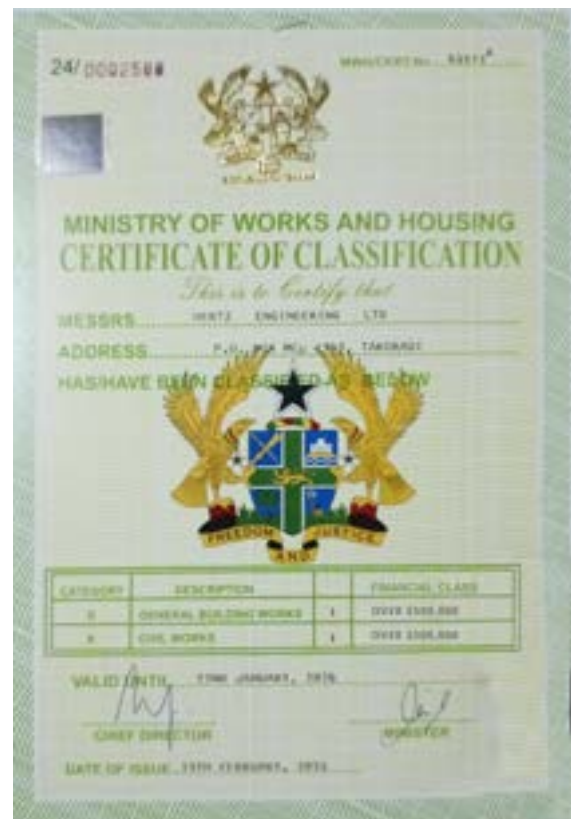
Ghana Grid Company (GRIDCo):

Hertz Engineering Ltd is fully compliant with GRIDCo's regulations and has received the necessary approval to undertake electrical works in the power transmission sector. This certification enhances our ability to contribute to the national grid and energy projects across Ghana.



Our compliance with these major regulatory bodies not only affirms our reliability but also positions us to access significant opportunities in the field of electrical transmission and substations within Ghana and West Africa.

This enables us to be a trusted partner in the development of large-scale infrastructure projects.



ISO Certified

A Major Milestone for Hertz Engineering Ltd

We are proud to announce that Hertz Engineering Ltd has been awarded three internationally recognized ISO certifications:

- ISO 9001:2015 – Quality Management
- ISO 14001:2015 – Environmental Management
- ISO 45001:2018 – Occupational Health & Safety Management

These certifications are a testament to our commitment to:

- Excellence in service delivery
- Responsible environmental practices
- Safe and healthy working environments
- Continual improvement and client satisfaction





Certificate of Registration 

This is to certify that Occupational Health & Safety Management System of

HERTZ ENGINEERING LIMITED

PHC-079-0175, Esipon Street, Benedict Junction, Takoradi - Accra Highway.
Post Office Box MC 1343, Sekondi Takoradi, Ghana

is in accordance with the requirements of the following standard

ISO 45001:2018
(Occupational Health & Safety Management System)

SCOPE
Providing services of Feasibility Studies, technical Engineering, Procurement, Consultancy for High & Medium Voltage T&D Network and Substation Design works & Installation for LV (Low Voltage) Electrical Installation, Power System Modelling & Power System Protection Services, Electrical Instrumentation, and Automation Electrical Infrastructure Commissioning Services, supply of related Critical Electrical Products, Parts and Electrical Infrastructure and MCC Panel Manufacturing - Integration, HV/MV/LV T/D/S Electromechanical Structures & Associated Civil Engineering Works.
(IAF Code - 19,29,28,34)

Certificate Number : SCK/03/HEL/25/23/5592

Initial Registration Date : 09-Jul-2025
1st Surveillance Date : 09-Jun-2026
2nd Surveillance Date : 09-Jun-2027
Certificate Expiry Date : 08-Jul-2028

To verify certificate, visit at :
www.sckcerts.com
www.iafcertsearch.org
www.uafaccreditation.org

Issued by SCK Certifications Pvt. Ltd.

Dr. Shaijya Mishra
Director

Accreditation Board : 400, North Center Dr, STE 202, Norfolk, VA 23502, United States of America
This certificate remains the property of SCK and must be returned to SCK on Cancellation or Suspension of the certificate. Validity of the certificate is subject to successful completion of surveillance audits. Further clarification regarding the scope of this certificate and the applicability of standard may be obtained by consulting the Organisation on info@sckcerts.com



Certificate of Registration 

This is to certify that Quality Management System of

HERTZ ENGINEERING LIMITED

PHC-079-0175, Esipon Street, Benedict Junction, Takoradi - Accra Highway.
Post Office Box MC 1343, Sekondi Takoradi, Ghana

is in accordance with the requirements of the following standard

ISO 9001:2015
(Quality Management System)

SCOPE
Providing services of Feasibility Studies, technical Engineering, Procurement, Consultancy for High & Medium Voltage T&D Network and Substation Design works & Installation for LV (Low Voltage) Electrical Installation, Power System Modelling & Power System Protection Services, Electrical Instrumentation, and Automation Electrical Infrastructure Commissioning Services, supply of related Critical Electrical Products, Parts and Electrical Infrastructure and MCC Panel Manufacturing - Integration, HV/MV/LV T/D/S Electromechanical Structures & Associated Civil Engineering Works.
(IAF Code - 19,29,28,34)

Certificate Number : SCK/01/HEL/25/23/5590

Initial Registration Date : 09-Jul-2025
1st Surveillance Date : 09-Jun-2026
2nd Surveillance Date : 09-Jun-2027
Certificate Expiry Date : 08-Jul-2028

To verify certificate, visit at :
www.sckcerts.com
www.iafcertsearch.org
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This achievement wouldn't have been possible without the dedication of our incredible team and the trust of our partners and clients. Together, we are building a future that's safe, sustainable, and of the highest standard.

IEC Certification

We're proud to announce that Hertz Engineering Ltd has secured key IEC and IECEx certifications, further reinforcing our commitment to delivering safe, reliable, and world-class electrical solutions.

Our Achievements Include:

- IEC 60364:2005 – Electrical Infrastructure: Feasibility, Engineering, Procurement & Construction
- IEC 61439:2020 – High & Medium Voltage T&D Networks & Substation Primary Equipment
- IEC 60076:2011 – Low Voltage Design & Electrical Installation
- IEC 61511:2025 – ECI&C & MCC Panel Manufacturing & Integration
- IEC 61508:2010 – Power System Studies, Network Modeling & Protection
- IECEx Certification – Hazardous Area Electrical Instrumentation, SCADA & Automation





Our Awards

At Hertz Engineering Limited, we take pride in delivering excellence and innovation in all we do. Over the years, our commitment to quality and professionalism has been recognized with notable awards, including **Excellent Leadership in Engineering Management** and **Best in Engineering Services**.

These honors reflect our dedication to setting high standards in the engineering industry and continually striving to exceed expectations.



Our Key Team Members



Collins Kofi Kofitse Badu

Executive Vice President
Managing Director

Ghana



Hendrik Petrus Jacobus Venter

Executive President
Project Director

South Africa



Graeme Ramsay

Executive Vice President
Business Development Manager

Sierra Leone



Gabriel Sarfo

Executive Vice President
Safety and sustainability Manager

United States Of America



Bismark Acheampong

Executive Vice president
Project Manager

United Kingdom



Raymond Kofi Quaicoe

Executive vice president
Chief Financial officer

Sustainability & Corporate Social Responsibility

At Hertz Engineering Ltd, we are committed to sustainable development and responsible corporate practices that create long-term value for our stakeholders, society, and the environment. As an electrical engineering company, we recognize the importance of energy efficiency, environmental stewardship, and ethical business practices in shaping a sustainable future.

Environmental Responsibility

We integrate eco-friendly solutions into our operations by adopting energy-efficient technologies, minimizing waste, and promoting sustainable engineering practices. Our projects emphasize the use of renewable energy sources and smart power solutions that reduce carbon emissions and enhance energy conservation.

Community Engagement

We believe in giving back to the communities where we operate. Through various initiatives, we support educational programs, technical skills development, and infrastructure improvement projects that uplift society. We also partner with local institutions to promote STEM education and empower young engineers with industry knowledge.

Employee Welfare & Development



Our employees are our greatest asset. We foster a work environment that prioritizes health, safety, diversity, and continuous professional development. Through training programs, mentorship, and employee wellness initiatives, we ensure that our team remains motivated, innovative, and aligned with our sustainability vision.

At Hertz Engineering Ltd, sustainability is not just a goal, it is a responsibility we embrace in everything we do. We remain dedicated to delivering engineering solutions that power progress while preserving our planet for future generations.

Contact Information

Address



- Phc-079-0175, Essipon St. Benedict Junction, Takoradi-Accra Highway, Takoradi. Ghana
- 1 Eileen str Bryanston Johannesburg. South Africa
- 20 Spur Loop, Wilberforce, Freetown, Sierra Leone.
- North Pleasant Street APT Q104 Amherst, Massachusetts USA
- LN5 8az St Botolphs Crescent Parkview Lincoln Lincolnshire. Uk

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Fax (International)

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- www.hertzengineering.uk
- www.hertz.engineering

f in [HertzEngineeringLimited](#)



Delivering Beyond Expectation.

Electrifying the future

