



**Electrical**  
SOLUTION COMPANY LTD  
Safety, Sincerity, Power

MEP it Smart.  
Power it right.  
Engineer it  
Effectively.

# 2026 Company profile

## Contacts:

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# Table of Contents

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About us	_____	04
Our Journey	_____	11
What we do	_____	14
Our Projects	_____	20
Partners	_____	40

# About **us.**

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## **We're Electrical Solution Company, your Well rounded MEP Solutions on a mission.**

To provide an advanced smart and green Mechanical, Electrical and Plumbing services (MEP), that exceed our customer's expectations.

We connect expertise in Mechanical, Electrical and Plumbing works, to engineer, design, supervise and install MEP systems that bring buildings to life and create a delightful environment for occupants and are efficient with resources, since 2016.



# Who we are

# Our experience shines through every project.

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Electrical Solution Company work success stems from its dedication to providing clients with engineering solutions tailored to their specific need, driven by Electrical Solution proven expertise and cost-effectiveness.

Electrical Solution has an in-house technical team offering round-the-clock services to ensure that our clients are satisfied from project inception until its final completion.

Whether it's a commercial or mission-critical facility or any Power System (Transmission, Distribution, etc.) we meet the creative and commercial demands of clients.

Our comprehensive services include HVAC, Fire and Safety, Electrical, and Plumbing works, Energy audits and Certification, facilities management, Power Systems.

We offer additional expertise with leed™ and Rwgbo accredited professionals to bring the best solutions to your challenges. Whether it's a commercial or facility or any Power System (Transmission, Distribution, etc.) we meet the creative and commercial demands of clients.

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# Mission & Vision

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## Mission

To position ELECTRICAL SOLUTION COMPANY as the leading provider of MEP engineering services that meet customer expectations and pass professional standards.



## Vision

To provide an advanced smart and green Mechanical, Electrical and Plumbing engineering services (MEP) tailored with clients' needs and excellent quality, driven by passion, expertise and team work.

Electrical solution Company is a leading provider of engineering services specializing in Mechanical, Electrical, and Plumbing (MEP) systems since 2016. We leverage our expertise to design, engineer, supervise, and install advanced MEP systems that not only enhance building functionality but also create efficient, sustainable environments for occupants.

Our comprehensive suite of services includes HVAC systems, Fire and Safety solutions, Electrical and Plumbing works, Energy Audits and Certifications, as well as Facilities Management.

Additionally, we offer Green Building Consultancy with LEED™ and RwgBO-accredited professionals to ensure sustainable, innovative solutions for your projects.

Our success stems from a deep commitment to providing engineering solutions that are tailored to meet our clients' unique needs. Driven by passion, expertise, and teamwork, our dedicated in-house technical team works closely with clients to ensure satisfaction from project inception to completion.

Whether for commercial spaces or mission-critical facilities, the ELECTRICAL SOLUTION team consistently meets the creative and operational demands of our clients, delivering results that exceed expectations.

//  
**Bringing your  
vision to life  
with innovative  
engineering  
solutions.**

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# CEO'S PERSPECTIVE



## Eng. Caleb BYIRINGIRO

**CEO/Founder:**

This company is built on a foundation of integrity, excellence, and a commitment to serving others, guided by the grace of God. We have a very experienced team including professional Engineers with all professional certificates on national and international level.

We believe in conducting business with honesty, treating every customer, employee, and partner with respect, and approaching every challenge with a spirit of humility and perseverance.

Our work is not just about delivering high-quality solutions—it's about making a positive impact in the communities we serve.

We are dedicated to being good stewards of the resources God has entrusted to us, fostering a culture of trust, compassion, and accountability.

Every project we undertake is an opportunity to reflect Godly values knowing that our true success lies in making a lasting difference in the lives of others.

**Eng. Caleb BYIRINGIRO is the Managing Director and founder of ELECTRICAL SOLUTION COMPANY .**

**He is a Member of different engineering bodies such as Institute of Engineers in Rwanda (IER) , RURA ,etc. He has been certified by IEEE in different trainings he undertook in this institution.**

**He is a professional Engineer with a degree in electrical engineering from the University of Rwanda.**



# Our story



# Our Journey

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## 2016

Electrical Solution Launch with Mechanical, Electrical and Plumbing (MEP) design, Installation and supervision as a service.

## 2017

Electrical Solution Team has successfully completed 15 MEP Design Projects.

## 2018

Electrical Solution Team has done an Electrical Installation of a Residential House in Kamonyi District- Ruyenzi, Gihara and this was the first Installation Project we did Electrical Solution Electrical Solution Team has also successfully completed more than 20 MEP Design Projects

## 2019

Electrical Solution Team has successfully completed Electrical Installation works for a Residential Apartment Project located at Kicukiro and Electrical Solution Team has also successfully completed 30 MEP Design Works.

## 2020 -2021

Due to COVID19, Electrical Solution has only done Design Projects at our Team's homes as we couldn't work at our Office because of the pandemic.

## 2022

More than 20 MEP Design Project - successfully completed and one Power System Project completed



## 2023.

Electrical System Supply and Installation works Successfully completed at AMAREMBO By Touch Down Africa . Touch Down Africa is a South African Company that provides Hotel Services.



## 2025

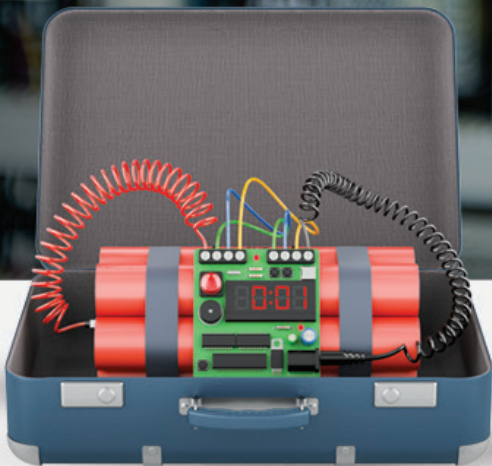
In 2025, our company successfully executed multiple MV/LV power system installation projects across Ngoma and Kirehe Districts in Rwanda's Eastern Province. We delivered over 10 comprehensive MEP execution projects across commercial, residential, and industrial developments, while completing more than 500 MEP design projects. These achievements demonstrate our capability to deliver efficient, standards-compliant engineering solutions with a strong commitment to quality and reliability.



## 2024.

Offering a wide range of MEP Engineering services ,Facilities management , Power System Design and Installation works, Energy Audit , reporting and certification. More than 70 MEP projects successfully completed. Sign Cooperation agreement with EDCL (Rwanda Energy Development Corporation Ltd) to deliver Energy Systems in the Rwandan Community Service Expansion into Energy Audit , Reporting and Certification, facilities management ,and Green building Consultancy.





# Our expertise

# What we do!



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**MEP design,  
Supervision and  
Construction**



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**Power Systems.**



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**Energy Audit,  
Certification and  
Reporting**



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**Green Building  
consultancy &  
Facility management**



## Design and Supervision.

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We know a detailed and tailored building services (MEP) is key to a successful construction project and we know that any Power System needs qualified and experienced Professionals. The Electrical Solution Company design department handles the most complex projects and produces highly sustainable yet cost-effective solutions. Electrical solution companies understand that building service design is a key component of the construction supply-chain.

## Construction

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### Mechanical

Whether it's your climate control or reliable protection systems. Electrical Solution installs these systems with one purpose: To create a delightful and safe environment for the public welfare.

### HVAC works

- Ventilation and air filtration systems
- Chilled water systems
- DX / VRV systems
- Package units
- Extract fans
- Fresh Air Handling Units
- Ecology Units and Make up Air Handling Units
- CCU
- GI and PI Ducting

## HVAC works

- Ventilation and air filtration systems
- Chilled water systems
- DX / VRV systems
- Package units
- Extract fans
- Fresh Air Handling Units
- Ecology Units and Make up Air Handling Units
- CCU
- GI and PI Ducting

## Fire & Safety works

- Fire suppression systems
- Fire extinguishers
- Fire hose reels
- Fire hydrant systems
- Automatic sprinkler systems
- Dry and wet riser
- Pumps

## Electrical

We know how much you depend on energy. Electrical Solution low voltage and Emergency power system to ensure power is there when you need it.

### Our expertise touches electrical & low current systems

- Grounding
- Main distribution boards (MDB)
- Secondary main distribution boards (SMDB)
- Final distribution boards (FDB)
- Cabling
- Lighting fixtures

- Sockets
- Generators
- Low current works
- UPS
- Data and communication
- Fire alarm
- Audio Visual
- Lighting Control System
- Access control
- Queue management system
- BMS (building management system)
- Video and Audio intercom system

## Plumbing

Every plumbing system we install is equipped with well sized and securely connected for the proper distribution of water

## Plumbing services

- Sanitary and drainage systems
- Water distribution
- Water treatment
- Variable and fixed speed pumping systems
- Solar Heaters
- Kitchen and laundry plumbing
- Irrigation systems and controls
- Sand traps and grease traps

## Energy audit, Reporting & certification

Whether it's an inspection survey or analysis of energy flows for energy conservation in a building; process or system to reduce the amount of energy input into the system without negatively affecting the output.

We help you streamline your property's energy consumption allowing you to be more energy-efficient and eco-friendly, we are covering building occupancy, operations, maintenance, and code compliance.

We aim to provide our clients with detailed survey results, risk mitigation analysis, implementation plans, and a final investment grade analysis

## Facilities Management

Do you need a partner who will support your Facilities and Estates Teams, providing you with a tailored solution that will give you peace of mind with cost-effective maintenance?

We offer a full range of services, integrated in a flat management structure that is highly responsive to our client requirements.



# Why Electrical Solution?

Delivering highly integrated Mechanical, Electrical, and Plumbing systems requires clear thinking and a deep understanding of the relationship between our clients' mission, people, and environments. At Electrical Solution, we prioritize excellence in engineering and client satisfaction above all else.

We excel in delivering top-tier Power Systems services, ensuring reliability, efficiency, and innovative solutions for our clients. We connect our expertise to deliver unparalleled MEP systems that bring buildings to life and create a delightful environment for occupants and are efficient with resources.

Whether your project is commercial or mission-critical, we can meet your creative and commercial demands.

# What our client says about us!

**Customer satisfaction is not just a goal; it's the foundation of our success.**



## **Zandr  du Plessis**

Project Manager/  
TouchDown Africa

We firmly believe that the integrity of every building component is the foundation of a successful project. With this in mind, we chose to partner with Electrical Solution Company for our MEP services.

Their unparalleled engineering expertise and dedication to excellence have earned our complete trust, and we are proud to have worked with such a capable and reliable team.



## **Eng. Paul KAYIJAHE**

Estate Manager,  
MAGERWA

On behalf of MAGERWA, I would like to express our sincere appreciation to Electrical Solution Team for their exceptional service and professionalism throughout our collaboration. From the beginning to the completion of the project, their team demonstrated outstanding expertise, reliability, and dedication.

They consistently met deadlines, maintained clear communication, and handled every aspect of the work with remarkable competence and efficiency.



## **Leatitia NKUNDA**

Director General /  
Muhabura Multichoice  
Company(MMC) Ltd.

Having had the privilege of working with many companies, I can honestly say that these remarkable young men and women have truly set themselves apart. Their unwavering dedication, combined with their exceptional timeliness, has been nothing short of invaluable in ensuring the success of our project at Merry Hills Secondary School.

Their commitment has not only helped us meet tight deadlines but has also made a lasting impression on all of us.



## **KABANDA Pierre Celestin**

Project Manager/  
TouchDown Africa

"From the outset of this project, we knew it would be complex, and as time passed, changes in the civil works only increased the challenges.

Electrical Solution was recommended to us as an MEP services provider, and from the moment we introduced the project to them, we were impressed by their attention to detail and their thorough understanding of the project's status. I wholeheartedly can recommend them in all MEP works.



# Projects



**LA VERTICALE PROJECT**

**Scope of work.**

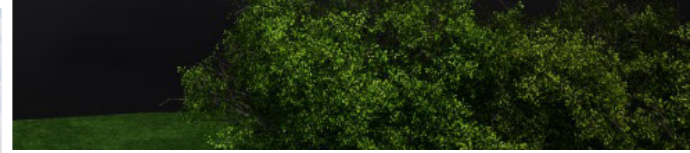
We carried out Mechanical, Electrical, and Plumbing (MEP) design works, delivering integrated engineering solutions for efficient and reliable building systems.



**RESIDENTIAL BUILDING**

**Scope of work.**

Delivering high-standard Mechanical, Electrical, and Plumbing services with precision, professionalism, and excellence.



### Scope of work.

We completed the design of integrated mechanical, electrical, and plumbing systems to ensure efficient, reliable, and safe building operations.

## EXTENSION OF PALLOTI HOTEL



### Scope of work.

Mechanical, Electrical, and Plumbing (MEP) Systems Design for the Elite Luxury Apartment, ensuring efficient, reliable, and high-quality building services that support modern residential living standards.

## ELITE LUXURY APARTMENT



## KIGALI DESIGN WAREHOUSE

### Scope of work.

The project involved the complete design and coordination of all mechanical, electrical, and plumbing systems to ensure efficiency, safety, and reliability.



## PANORAMIC APARTMENTS

### Scope of work.

We completed the full design of the mechanical, electrical, and plumbing systems, ensuring optimal performance and seamless system integration.



## RESIDENTIAL APARTMENT BUILDING

### Scope of work.

We delivered detailed mechanical, electrical, and plumbing system designs tailored to meet modern engineering and construction standards.



## MIXED USE BUILDINGS

### Scope of work.

We provided fully optimized MEP design engineered to enhance efficiency, reliability, and project excellence



**RESIDENTIAL APARTMENT LOCATED IN BUGESERA**

**Scope of work.**

we delivered professional MEP design solutions, ensuring the project were efficiently planned, optimized, and fully compliant with industry standards



**KIBEHO TEA FACTORY**



**Scope of work.**

Our team developed the complete electrical design for this facility.



## Commercial building project

### Scope of work.

We carried out design and certification works covering mechanical, electrical, and plumbing systems, ensuring safety, efficiency, and compliance with industry standards.



## ISIBO building project

### Scope of work.

We delivered design solutions for mechanical, electrical, and plumbing systems with safety, efficiency, and compliance in mind.



**Soeur de la sainte famille de bordeaux**

**Scope of work.**

MEP design for Soeur De La Sainte Famille De Bordeaux in Kigali. It features a stunning multi-storey layout, ample parking, and a dynamic playground designed for endless fun. Creating exceptional spaces where education and a beautiful environment strive together!



**Power system installation works**

**Scope of work.**

The project involved power system installation works for LV/MV lines in Kirehe and Ngoma Districts.



**Residential Apartment in Kigali for Makuza JMV**

**Scope of work.**

Our team delivered the full Mechanical, Electrical, and Plumbing (MEP) design for this residential building.



**Ruhango and Rwamagana multipurpose Building**

**Scope of work.**

Delivered full MEP design, documentation, and certification for two modern commercial buildings in Ruhango and Rwamagana, ensuring energy-efficient and internationally compliant infrastructure.



## IRCAD hospital project

### Scope of work.

IT and CCTV Camera Installation Works



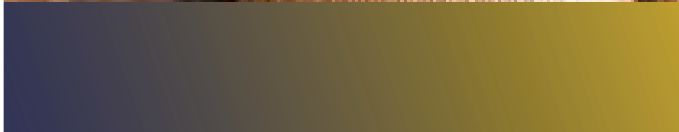
## Amaremba by touch down africa hotel

### Scope of work.

Electrical System Supply and Installation Works ( Medium and Low Current Systems)

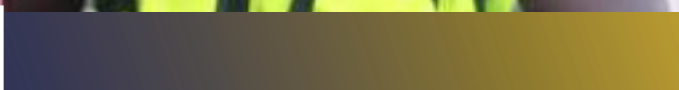


**Myhill ecolodge**



**Scope of work.**

MEP design ( HVAC, Fire Fighting, Sewage Systems, WWTP, Electrical Systems, CCTV Camera Design, Internet, etc ) Electrical ( Electrical works and Low current ( Data, CCTV and Fire alarm, Plumbing works )



**Scope of work .**

Six Lightning Protection Systems (Supply and Installation)



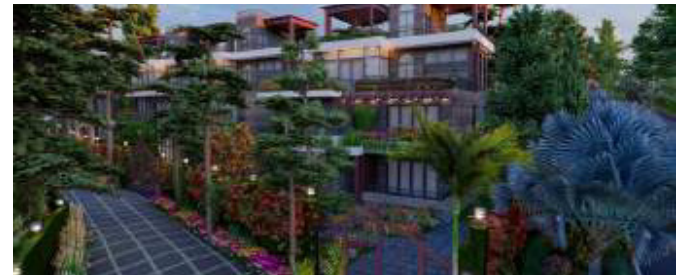
**Magerwa ltd project**



## Kabeza apartment

### Scope of work.

MEP Design - Green Building Compliance Certification



## Jali estate project

### Scope of work.

MEP Design ( HVAC, Fire Fighting, Sewage Systems, WWTP, Electrical Systems, CCTV Camera Design, Internet, etc )



## SCHOOL PROJECT IN GASABO, KINYINYA SECTOR

### Scope of work.

MEP ( HVAC,Fire Fighting, Sewage Systems, WWTP, Electrical Systems, CCTV Camera Design, Internet,etc)  
Design of a School Project



## Tomato paste Factory

### Scope of work.

MEP Design ( HVAC,Fire Fighting, Sewage Systems, WWTP, Electrical Systems, CCTV Camera Design, Internet,etc )

# Power System design

At our inception, we primarily focused on Building Information Modeling (BIM) and traditional Geographic Information Systems (GIS) using system design. platforms such as ArcGIS Pro and QGIS.



In 2017, we expanded our services to include the design and supervision of transmission and distribution line projects, leveraging our expertise in spatial data management. By 2022, after extensive immersion in distribution network projects, we identified critical limitations with traditional GIS tools like ArcGIS: they were unable Facing these limitations, we began to reframe every design and supervision aspect as a data challenge. With a team equipped with skills in artificial intelligence, data engineering, data science, and software development, we systematically solved these challenges, creating innovative solutions that significantly improved project outcomes.

This evolution led to our rebranding as Electrical Solution, a name that accurately reflects our mission: providing Electrical Solution that drive infrastructure development across Africa. to meet quality standards, design timelines, or produce constructible designs that could readily receive approvals from authorities.

# Business Area & Services.

## High Voltage Transmission Line design

Expertise in designing high-capacity transmission infrastructure up to 220 kV, ensuring reliable power transmission across regions.

- PLS-CADD design and optimization
- Tower design and foundation engineering
- Line routing and optimization
- Clearance and safety analysis

## Substation Design and construction Supervision

Comprehensive services for substations, including civil structures design, electrical equipment specification, and construction supervision.

- Grading and access road design
- Foundation design for structures
- Equipment selection and placement
- Construction oversight

## Spatial Data Analytics

Leveraging cutting-edge GIS technology and analytical tools to provide insights for infrastructure planning and development.

- Scalable computing solutions
- Cloud-based data processing GIS mapping and analysis
- Custom geospatial applications

## Electrical Distribution Network Design

Designing networks for rural and urban areas, ensuring efficient power distribution to end-users with optimized layouts.

- Medium voltage line route planning
- Low voltage line design
- Customer connection planning
- Service connection design
- Construction Operations Data management using DataCapture Field

**Electrical Solution has successfully executed projects across several key business areas. We offer expertise in specialized fields, leveraging advanced technology to deliver and effective solutions.**

# Our Approach

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**At Electrical Solution, we believe in a systematic approach to every project:**

**1**

## Assessment & Planning

Assessment & Planning: Thorough analysis of requirements and constraints with consideration for local environmental factors, leveraging Microsoft and Google Buildings API data to quickly obtain accurate baseline information for conceptual and feasibility designs.

**2**

## Data Collection

Acquisition using differential GPS and Total Station surveys, enhanced by our DataCapture Field software for seamless data capture in challenging environments

**3**

## Design & Engineering

Applying industry best practices and standards with BIM integration and cross-discipline coordination through our GridDesigner Pro platform, which incorporates third-party data to speed up design processes

# 4

## Data Collection

Rigorous quality control and verification using advanced simulation and analysis tools integrated with our software suite to ensure constructible designs that meet all regulatory requirements.

# 5

## Implementation Support:

Rigorous quality control and verification using advanced simulation and analysis tools integrated with our software suite to ensure constructible designs that meet all regulatory requirements.

# 6

## Data-Driven Optimization:

Continuous improvement through analytics and AI-assisted decision making embedded in our Solar Analytics software for optimal system performance.



# Project Success factors

Our Consistent project success stems from:

- **Technical Excellence:** Industry-leading methodologies
- **Advanced Technology:** State of the art tools
- **Local Expertise:** Regional Knowledge
- **Client Collaboration:** Stakeholder engagement
- **Quality Control:** Rigorous standards
- **Knowledge Transfer:** Building local capacity through skills sharing
- **Safety Management:** As built drawings production.

**Projects in 4  
countries (Rwanda)**

**110+ KM  
transmission lines  
designed**

**40+KM  
Construction  
supervised**

**300,000+  
households  
electrification  
designs**

**LV to 220kV Voltage  
levels**

**8+ Successfully  
completed projects**

Our extensive experience showcases our capabilities and results. Electrical Solution has a proven track record in key areas, including high-accuracy topographic surveys, mapping, transmission line and substation design, distribution network design, solar hybrid power plants design, industrial plumbing and waste water management systems, and construction supervision across multiple countries. Our diverse portfolio demonstrates our ability to deliver comprehensive engineering solutions for both energy infrastructure and industrial facilities.



# Meet the team

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**Eng.Caleb  
BYIRINGIRO**

Managing Director



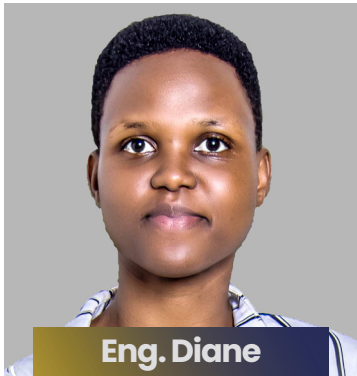
**Eng. Thacien  
NSABIMANA**

Operations Manager



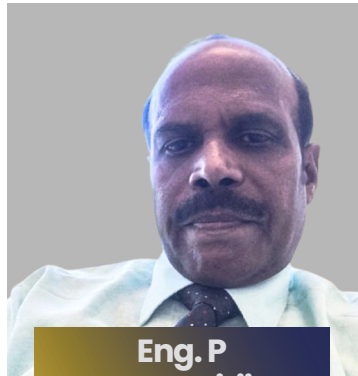
**Mr. KEFA  
Jacques**

Marketing Manager



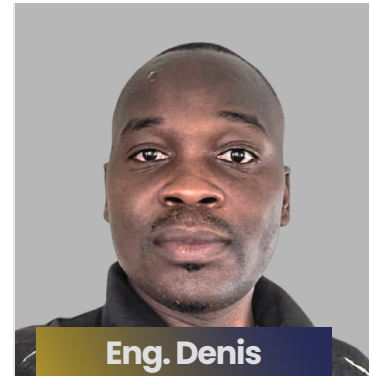
**Eng. Diane  
UWIMANA**

MEP Engineer



**Eng. P  
Gnanagirija**

Sr. Electrical Engineer



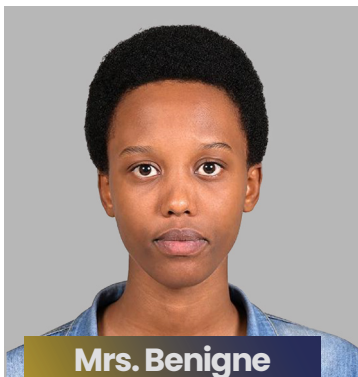
**Eng. Denis  
OKELO**

Sr. Mechanical Engineer



**Mr. Jehovanis  
DUFITIMANA**

MEP Draft Engineer



**Mrs. Benigne  
IRAKOZE**

Accountant

# Partners/Clients





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MEP it Smart.  
Power it right.  
Engineer it  
Effectively.

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