

BUSINESS PROFILE 2022



Helping Africa Reduce
Its Infrastructure
Deficits.

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AT A GLANCE

Africon Infrastructure Group Limited, AIG was established in 2015 with the sole aim of helping Africa reduce its infrastructure deficits. We offer unrivalled Engineering, Procurement and Construction (EPC) services to Energy, Transportation, Communication, Mining, Water, Irrigation and other Construction Sectors.

World over, the core infrastructures that support communities are transport, power, clean water, irrigation and information Technology. Purposeful, smart and sustainably designed infrastructure is key to well-being, economic growth and prosperity of any country.

Currently, 75 percent of Africans live without electricity, 95 percent of African agriculture lacks proper irrigation systems and the majority of rural communities have no road access that allows them to reach medical care and market places. These major constraints reflect the crucial need to prioritize the construction of basic public infrastructure. Without it, developing countries, particularly those in Africa, cannot realistically expect to achieve sustainable growth and development.

However, the sector which delivers these assets, the construction sector, is prone to inefficiency and mismanagement. The formation of AIG was therefore prompted by the desire to contribute to Africa's Governments and utilities in getting basic infrastructure to people who need it most and by making sure that both Private and Public funds spent result in affordable, adequate and appropriate infrastructure.

“Helping Africa Reduce Its Infrastructure Deficits”



WHO WE ARE

OUR MISSION

To help Africa reduce its infrastructure deficits through timely delivery of world class projects, affordably.

We are a resilient Engineering, Procurement and Construction, EPC, Company offering our clients both in Zambia and Africa at large services in various infrastructure sectors. We are capable of competing in the various infrastructure sectors, in accordance with our defined business plans and strategies.

We offer turnkey solutions for EPC projects in Renewable Energy, Power electrical, Telecommunications, Transportation, Civil and Water Engineering. Supported by experienced engineers and experts in different infrastructure sectors. We have successfully executed projects in Zambia and other African Countries. We continue to aggressively participate in International competitive tenders involving our core competencies in selected African countries, by leveraging the experience of the companies within the group.

Our staff comprises of experienced professionals in the areas of Engineering, Procurement and Construction in various infrastructure services. The company complies with procedures and applies technologies required by clients, according to specifications and local and international regulations, standards of safety, environmental sustainability and costs involved.

OUR VISION

To become a world class infrastructure EPC company that will help take Africa to its next generation of greatness by ensuring we have a footprint on developmental and landmark projects in different countries.

We are not just another infrastructure company.

We are not just another African company whose business development strategy is based on tenders only.

AIG was established not only for the present but for the future as well.

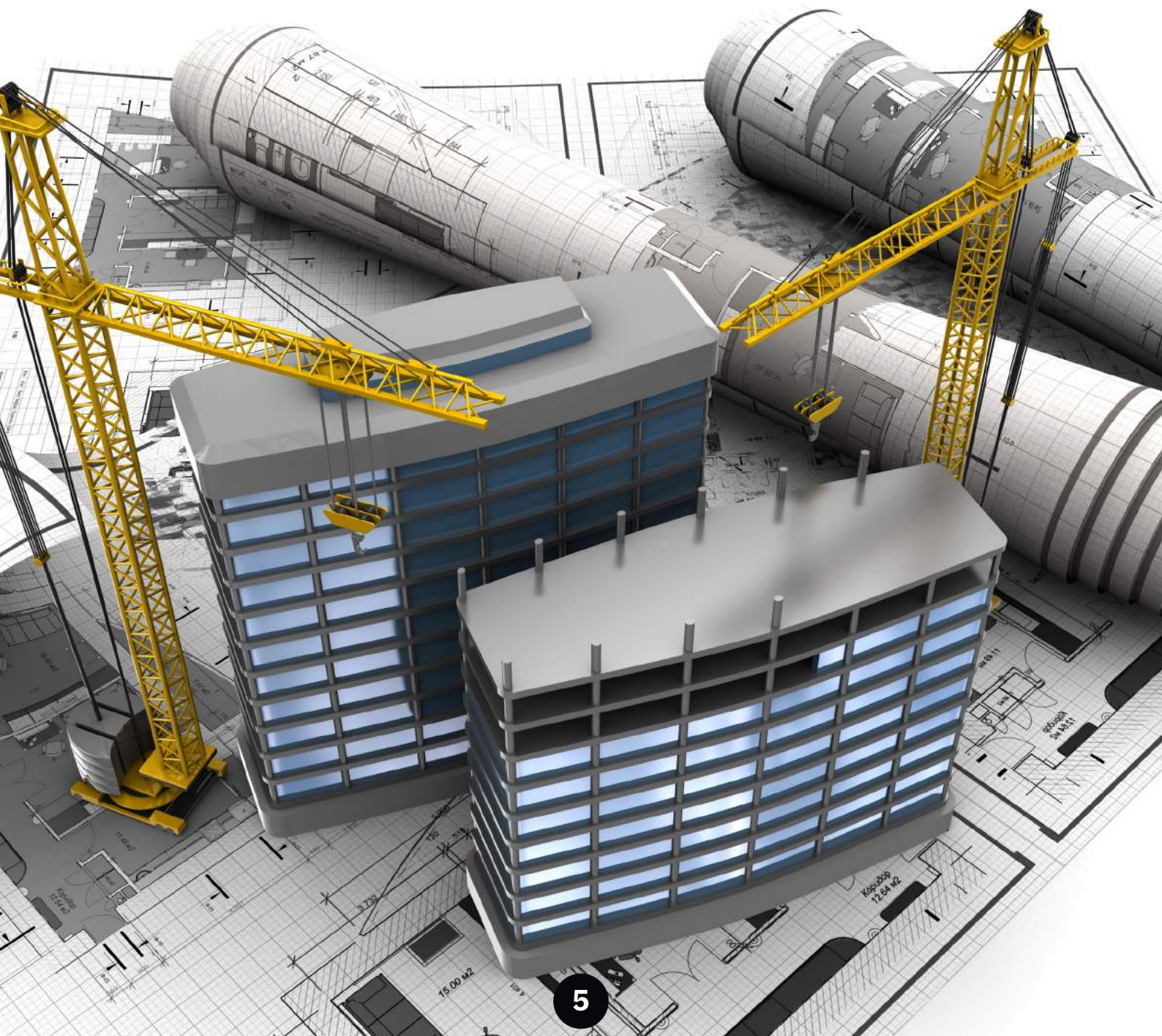
We desire to see AIG grow into Africa within Africa and from the African soil and make it into the fortune 500, list companies.

Kharen Mulenga - CEO

We understand that various African Governments, utilities and other parastatals battle to secure the much required resources for developmental projects as such, we place greater emphasis on retaining a combination of expatriate and local key and experienced professionals required for timely and cost effective execution of projects in Africa.

Our success and experience in different countries demonstrates our understanding of highly complex environments; risks and uncertainties that surround Engineering, Procurement and Construction, EPC, Projects. This is also our main reference and basis for bidding, tendering and execution (including cost, time, resource, and quality management).

Our capabilities in risk identification, assessment and control, enables us to reduce probable gaps between estimated and real cost, time, and quality of execution of projects. This approach also provides our project managers with abilities to predict the final cost and end dates of projects with a greater level of confidence.



Our business development is aimed at carrying out all types of works and activities related to the development of infrastructures (railway, transport, communications and technology, energy, water and defense sectors), as well as activities related to the mining sector anywhere within Africa. We also provide clients with procurement support to help them plan asset performance and reduce procurement risk in order to maximise their return on investment. Our high volume-purchasing power, extensive in-stock inventories, warehousing and delivery infrastructure satisfy your needs efficiently and economically. We also have direct connections and partnerships with reputable manufacturers, which means we can pass along significant savings to our clients.

1 Construction and Engineering**2** Water**3** Power**4** Renewable Energy**5** Information Technology**6** Mining Infrastructure**7** Procurement Services



CONSTRUCTION & ENGINEERING

Transport Infrastructure

Our Expertise in the field of construction and engineering covers all aspects of infrastructure development relating to roads, airfields, tunnels, residential and other buildings. Many projects in Africa suffer a lot of delays resulting into escalation of costs for the overall projects. However, at AIG, We have developed an in-depth understanding of the financial aspects, risks, procurement strategies as well as aspects of constructability, safety and quality for successful implementation of infrastructure projects.

Timely completion of each project is always at the centre of our project implementation and management. Our core strength lies in our ability to pool resources from different competencies to ensure the successful completion anywhere in Africa.

Key Competencies

1. Construction and maintenance of national, provincial, township and feeder (rural) roads.
2. Upgrading of gravel roads to bitumen sur-

face.

3. Rehabilitation of roads.
4. Bulk earthmoving.
5. Asphalt surfacing and overlays.
6. Chip and spray surfacing and reseal work.
7. Construction of airfields.

Civils

The group's capabilities include bulk earthworks, blasting and excavations for construction projects ranging from roads, mine infrastructure, highways, bridges, railways, causeways, trenches, dams and other water infrastructure, as well as residential, industrial and commercial buildings.

Buildings

We have expertise to complete building projects, of high quality within time and on budget. We offer unrivalled and full scope of traditional building construction including commercial, industrial buildings; hotels and shopping centres; mass housing and residential developments; hospitals and clinics, schools, police stations and other government buildings.



Over 300 million Africans do not have access to clean drinking water, and over 700 million live without access to good sanitation. Lack of access to clean water and sanitation has a major negative impact on poverty reduction and economic development. For Africa to achieve the Sustainable Development Goals for water and sanitation, consistent investment in water infrastructure is required.

Leveraging our group expertise, we have capabilities to undertake works in water infrastructure such as water networks, reservoirs, pump stations, water treatment plants, wastewater treatment plants (both new plants as well as upgrading and refurbishment of existing plants). We supply a full range water and wastewater treatment plants.

1. Bulk earthworks
2. Blasting
3. Excavations
4. Trenches
5. Dams
6. Irrigation schemes
7. Spillways
8. Large/small diameter welded steel pipe
9. HDPE pipelines
10. Ductile pipelines
11. Pump, mechanical & electrical installations
12. In-situ concrete lining of pipelines

Most of Sub-Saharan Africa is in the midst of a power crisis. The region's power generation capacity is lower than its consumption. It is with certainty that the continent's power needs will continue to increase over time and as such, the continent has to prepare itself for this eventuality. We have unrivalled expertise to help utilities and the industry at large effectively transmit electricity from the point of generation to the point of consumption.

We have the in-house skills and capabilities to Design, Manage, Procure, Construct and Commission Substation Projects (GIS or AIS) up to 765kV. We offer solutions for a variety of substation projects and applications suitable for African power utility and other private companies including Modular Substation Automation Systems, utility and industrial substation solutions. Our key management personnel have a combined experience of over 30 years in the construction of both Greenfield and brownfield substations.

1. Conventional outdoor substations (AIS)
2. Gas-insulated substations (GIS)
3. Containerised mobile substations
4. Indoor cellular substations
5. 22kV-132kV Mobile substation skids for open-cast mining
6. Utility and industrial substations

Transmission And Distribution Lines

We have resources, equipment and full in-house facilities to design and deliver on all aspects of power line work, from distribution to transmission voltages up to 400kV. From survey to complete foundation design, tower design/development to stringing; and fibre optic/optical ground wire (OPGW) work to full-type testing.

Our complete solution for distribution-voltage structures extends to wood pole, steel monopole and concrete monopole structures, for transmission voltage. We are skilled in steel lattice work. We offer complete solutions for clients requiring transmitting power over long distances using pylons (Steel Lattice Structures) and Steel Poles or Wood Poles as well. We offer a full range of services from preliminary studies to energization; - PLSCADD Transmission Line design using ground survey - Design of structures and foundations, PLS-POLE, PLS-TOWER - Preparation of expropriation plans & documents - Environmental impact studies and soil investigations - Line design, Tower spotting, Optimization tower basic design - Tower manufacturing drawings - Civil works of Tower foundations - Tower Erection, Stringing and Commissioning.





Solar PV solutions are becoming a sustainable and affordable option for the energy generation mix for many utilities throughout Africa due to an abundance of solar radiation, the ever-increasing cost of grid electricity and the ongoing reduction in solar PV plant costs. Solar PV plants are now one of the lowest cost producers of energy, with a fixed long term energy generation cost, and a proven bankable track record. In addition, many private commercial and residential customers are now purchasing solar PV systems to save on electricity costs and reduce their dependency on grid electricity.

We offer Engineering, Procurement and Construction (EPC), and Operations and Maintenance (O&M) services in affordable PV solar systems designed for developed and developing communities as well as utilities in Zambia and the African Continent at large.

Our strategy is to become a Pan African Independent Power Producer, IPP, with capabilities to develop, own, procure, construct and operate renewable energy power projects, from commercial roof top PV systems, ground-mounted minigrids, and containerised solutions to Utility scale power plants.

We are working together with our extensive partner network to implement renewable energy projects economically and reliably, thereby saving not only the scarce capital in Africa but also the environment for the greater good of humanity.

We have the ability to originate, structure and advise on clean energy projects in any part of Africa. With our extensive network of financiers, we look for opportunities in different countries at any stage of development, even when the idea is only on paper, and turn them into successful projects.

We have expertise to help our clients use technology better to increase the value of their digital transformation. Our services are geared directly towards small to medium businesses and that means we understand that your IT systems need to be flexible enough to grow with you and adapt to the changing needs of your business.

We help smart companies as well as Governments build world-class software products on time, and on budget. These are some software development specifics that we are experienced in:

1. Custom Web App Development
2. Custom Mobile App Development
3. Blockchain Technology
4. Enterprise Digital Products
5. Design and Prototyping



We have specialized teams of mine infrastructure experts dedicated to both underground and open cast mining projects. Our services include feasibility study, design, procurement and project and construction management for surface and underground infrastructure.

Mining Infrastructure

Our mining infrastructure construction capabilities include earthworks, civils, buildings, water treatment plants, pipelines and SMEIP (structural, mechanical, electrical, instrumentation and piping), mine water booster pumps, large headframes and hoisting systems. Our services to the sector include contract mining, material handling and tailings management.

We also offer to the sector services which include contract mining, material handling and tailings management.



Other services within our expertise include hoists, shafts, headframes, sinking installations, ore sizing and handling, mine ventilation, air distribution systems, fuel distribution, back-fill distribution, fire protection and dewatering



We provide value-added integrated services for projects in different industry sectors, and Government Institutions backed by the most innovative technology available.

Timely completion of each project is always at the centre of our project implementation and management. Our core strength lies in our ability to pool resources from different competencies to ensure the successful completion anywhere in Africa.

We provide our clients with procurement support to help them plan asset performance and reduce procurement risk in order to maximise their return on investment. Our high volume-purchasing power, extensive in-stock inventories, warehousing and delivery infrastructure satisfy your needs efficiently and economically. We also have direct connections and partnerships with reputable manufacturers, which means we can pass along significant savings for our clients.

Defences Systems & Solutions

Every Government attaches great importance to the defence and security of its sovereignty. In Africa, Defence and security, armed forces, and governments can entrust AIG with helping them achieve and maintain security, tactical superiority and strategic independence in the face of any type of threat.

In an increasingly unpredictable world, governments rely on our expertise to protect their citizens and make the world safer. We deliver solutions that protect states, cities and critical infrastructures.

Health Care

Africa faces various constraints in the health delivery systems such as weak health infrastructure, limited tools, inadequate human resource capacity, limited public financing, poor management and planning and lack of integrated health systems.

In order to improve health in Africa, inequalities to health service access between and within countries should be addressed within the health system.

Our integrated Healthcare Accessories & Supplies procurement solution helps Governments save time and money through our tested and verified products to ensure quality and compatibility, a simple ordering process and post procurement support.

We work with a number of renowned international manufacturers located in various continents. Our Procurement Platform Travvc™ enables Governments' central procurement departments to integrate their stock and inventory systems on to our system which has abilities to generate or prompt us to replenish much needed or emergency supplies without having to go through lengthy procurement process.

Power Equipment

We offer a broad set of products that support utility applications ranging from medium voltage to high and ultra-high voltage power equipment such as:

1. Transformers
2. Circuit Breakers
3. Gas Insulated Solutions
4. Disconnectors
5. Instrument transformers
6. Voltage Regulators
7. Medium and High Voltage cables
8. Post Insulators
9. Surge arrestors
10. Substation Automation systems



Overview

Our sustainability obligations are centered on three impacts: profits, people and planet. We desire to create economic value and contribute to healthy ecosystems and strong communities. In other words, we do not just think about now, we focus on creating opportunities that meet the needs of our present without compromising the ability of future generations to meet their own needs.

Our desire is to deliver essential infrastructure for Africa using innovative solutions. We endeavour to work with the highest integrity, a culture of compliance and respect for human rights while also reducing the impact of our environmental footprint.

Our Directors and Shareholders have been tasked with the responsibility of overseeing the execution of AIG's Environmental, Social and Governance strategies and initiatives including climate change-related risks and opportunities, corporate social responsibilities, protection of human rights, health and safety matters, political contributions and philanthropic efforts.

Profits

We centre our business development strategies and project execution on our people by involving them in all decisions that affect the environ-

ment and their wellbeing, thereby improving the quality of lives while preserving the environment for future generations.

People

We centre our business development strategies and project execution on our people by involving them in all decisions that affect the environment and their wellbeing, thereby improving the quality of lives while preserving the environment for future generations.

Planet

From project development through the construction and to operation phases, we implement new and open-minded approaches aimed at sustaining the planet while helping the organization grow.



Project Name

Period Maintenance of Feeder Roads in Chongwe- Lusaka District- 2021 to 2022



Project Name

Design, Supply & Installation of 620kW Solar Systems for UNDP in Mansa, Choma, Chipata and Mpika





THANK YOU



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