

POWERING ZAMBIA'S FUTURE

Page 6

INSIDE

FRED'S RISE TO MINING
LEADERSHIP

Page 4

MAAMBA PRIVATE SCHOOL — A
GOLDEN LEGACY OF LEARNING
AND COMMUNITY

Page 10

'I LOVE MY FAMILY, I LOVE
MY JOB'

Page 12



MR. ASHWIN DEVINENI
Resident Director

“

With the commencement of construction of Phase II 300 MW Thermal Power Plant, we are taking a quantum leap towards addressing Zambia's growing energy needs.

”

FOREWORD

Dear Readers

As we near the end of another year, it gives me great sense of satisfaction to see the way Maamba Energy Limited (MEL), has extended its purpose far beyond generating electricity. As Zambia's largest Independent Power Producer we are not only deeply committed to powering progress but transforming lives. Every initiative we undertake is driven by a vision to strengthen Zambia's energy security, create sustainable solutions and uplift the communities we serve.

With the commencement of construction of Phase II 300 MW Thermal Power Plant, we are taking a quantum leap towards addressing Zambia's growing energy needs. This expansion will enhance national grid stability, support industrial growth, and reinforce Zambia's status as a key energy player in the region. By enhancing the overall energy basket, MEL is

not only directly contributing towards economic growth in Zambia but is deeply committed towards sustainable social development of the community.

I am happy to note that our Fly Ash Brick Plant at Maamba is a prime example of this philosophy in action - an innovative project that not only provides a sustainable solution to coal combustion byproducts but also creates employment opportunities and supports infrastructure development in Maamba and beyond.

As we look ahead, our commitment remains firm - to power not just homes and industries, but also aspirations, opportunities, and progress. Together, we will continue to drive innovation, enhance lives, and contribute to Zambia's growth.

Ndalumba kapati, Natotela saana, Dzikomo kwambiri



**LT COL CYRUS
MINWALLA (RETD)**

CEO

“

It is with great pride that I inform our readers the MEL's Phase II construction team is working at a rapid pace towards bringing the project to fruition in a record time.

”

MESSAGE FROM CEO

Operational excellence has been the foundation of our achievements at Maamba Energy Limited (MEL). It is a good time to reflect on the great strides we have made in 2024. The year has been marked by significant progress in operations, strengthened safety measures, and a workforce that remains committed to driving sustainable growth.

As we move forward with the expansion plan to add another 300 MW generation capacity, it is with great pride that I inform our readers the MEL's Phase II construction team is working at a rapid pace towards bringing the project to fruition in a record time.

Our exploration activities at Namantombwa and at our lithium exploration licence areas are progressing well. I must congratulate our mining team for undertaking this task in such a quick time frame in addition to all their other activities.

Our commitment to safety and employee well-being is at the core of everything we do. Initiatives such as the "I Love My Family, I Love My Job" campaign remind us that a safe workplace is essential, not just for operational efficiency, but for the wellbeing of our people and their loved ones. Similarly, the Defensive Driving training was another step towards strengthening safety protocols. This was co-created by the HR and SHEQ teams and my congratulations to them.

We continue our strong community outreach. MEL has established a brick construction plant at Maamba that uses ash from the Thermal Power Plant as a basic raw material. MEL has helped to establish a Cooperative at Maamba and they will run the brick plant as a business enterprise. We have partnered with our stakeholders and have placed a full-time eye surgeon at Maamba Eye Clinic to cater for various eye related surgeries like cataract. This has fully operationalised the modern Eye Clinic that MEL had established at Maamba. The community that hitherto had to travel to Lusaka and other locations for eye surgery can now avail this at Maamba. Christopher and his CSR team along with our Civil department deserve all the credit.

We congratulate Fred Hamena for being appointed as the Mine Manager of MEL and also congratulate newly promoted Mine Captains; this is a testimony to our policy of promoting home-grown talent.

As we continue to grow, innovate, and set new industry standards, I like to welcome all employees that joined us this quarter. We wish them a great career at MEL.

I wish all of you happiness and success in 2025.

FRED'S RISE TO MINING LEADERSHIP

How innovation, dedication, and a drive for progress shaped Fred's journey to mining leadership.

“

What I love about Maamba Energy is the company's drive towards progression...

”



Fred Haamena has been appointed as the new Mine Manager of Maamba Energy Limited. He has over two decades of experience in the mining industry. Among other responsibilities, he is tasked with leading sustainable innovations to boost mining productivity, minimise costs, and ensure long-term growth, whilst positioning Maamba at the forefront of mining transformation. A graduate with a Bachelor's degree in Mine Engineering from the University of Zambia, he quickly embarked on a career that saw him work with Mopani and later with Konkola Copper Mines, where he held various positions, including shift boss, mine captain and assistant superintendent of drilling and blasting.

“Mining and energy are vital to Zambia's progress. With rising investment, I lead sustainable innovations to boost mining productivity, minimise costs, and ensure long-term growth, while aiming to position Maamba at the forefront of mining transformation,” says Fred Haamena.

His rapid progression—from trainee to shift boss and then mine captain—heralded the promise of a future leader.

In 2020, Fred joined Maamba Energy as a mine superintendent, overseeing the Loading Bay, CHPP and Izuma Open Pit. Within five years, his innovative mindset, hard work, and relentless drive earned him a promotion to Mine Manager, a role that comes with significant responsibilities.

“The role of a mine manager is both challenging and demanding. You are essentially overseeing all the operations within the license lease,” Fred explained. At Maamba Energy, Fred has been at the forefront of operational innovation. “During my time here, we introduced a state-of-the-art tracking system, new mining techniques, Smart Fleet (test), and an online monitoring system for ash grades. These changes have revolutionised our efficiency,” he explained.

The introduction of larger trucks, upgraded machinery, and employment of the surface mine by the company have all contributed to a noticeable upward trajectory in the company's performance—an aim Fred passionately champions.



Fred is passionate about the mining industry and is excited about the opportunities that lie ahead. He is particularly drawn to MEL's commitment to innovation and progression.

As Fred settles into his new role, he is committed to making a positive impact at Maamba Energy and to contributing to the growth and development of the mining

industry in Zambia. On the professional front, Fred says "I'm going to give my best to ensure that the company not only remains strong but continues to grow from where it is."

"What I love about Maamba Energy is the company's drive towards progression," he says. Managing the mine is no small feat. Fred's responsibilities as Maamba's Mining Rights License holder span a diverse range of departments—from mining, mechanical, and electrical to geology and laboratory operations. "Working together makes it even better," he explains, emphasising the seamless coordination that is key to overcoming daily challenges. His role not only demands technical insight but also a visionary approach to integrate new technologies, such as drones for surveying and safety, into traditional mining practices. Beyond his professional achievements, Fred is an ardent lover of nature and adventure. Exploring Zambia's majestic national parks, the mighty Victoria Falls, or the bustling art and culture scenes in Livingstone, are all experiences that re-energise him and fuel his innovative spirit at work.

"The mining industry is diverse, challenging, and fascinating. Mining is not only an engineering pursuit; it is an art. Seize the opportunity and contribute to moving our nation forward," he said in his advice to aspiring engineers.





POWERING ZAMBIA'S FUTURE

Maamba Energy Limited (MEL) has commenced construction works on the Phase-II 300 MW (2 x 150 MW) Thermal Power Plant (TPP) Project. With the groundbreaking ceremony, officiated by the President of the Republic of Zambia, Mr. Hakainde Hichilema, on August 13, 2024, the project marks a crucial step towards addressing Zambia's growing energy demands and cementing the country's position as a regional energy hub.

Committed to investing in Zambia's energy infrastructure, MEL has partnered with RUNH Power, a leading Chinese engineering, procurement, and construction (EPC) contractor, to deliver the project. In September 2024, MEL, RUNH Power and the Design Institute held their first Progress Review Meeting in Maamba, Zambia.

The meeting provided an opportunity for stakeholders to review the project's progress, discuss challenges, and outline.

MEL has already placed orders for major equipment which have long lead times, in anticipation of the upcoming phases. Excavation work began two weeks ahead of schedule and work is progressing smoothly.

A notable aspect of the Phase-II project is MEL's adoption of new technologies. The company has introduced Liquid Oxygen (LOX) technology for blasting hard rock strata. This technology is being used for the first time in Zambia, with the approval of the Mines Safety Department of Zambia. LOX blasting technology offers several advantages, including improved safety, reduced environmental impact, and increased efficiency.

"The Phase-II project is a significant investment in Zambia's energy future. We are committed to delivering a world-class power plant that meets the highest standards of safety, efficiency, and environmental sustainability. Our partnership with RUNH Power and the adoption of new technologies like LO2 blasting demonstrate our dedication to innovation and excellence," said Maamba Energy Limited (MEL) Senior Manager Technical and Commercial Mr Thamothenharan Karupiah.

The Phase-II project is expected to create further employment opportunities for many Zambians during the construction phase. MEL has also committed to supporting local businesses and communities through its procurement policies and corporate social responsibility initiatives.

The Phase-II Thermal Power Plant Project is a landmark initiative, which once completed, will increase MEL's total installed capacity to 600 MW - cementing its position as the largest independent power producer in Zambia. The project will also contribute significantly to the country's energy mix, reducing reliance on imported power and supporting economic growth. With its focus on innovation, sustainability, and community development, MEL's Phase-II project is poised to make a lasting impact on Zambia's energy landscape.



TURNING ‘FLY ASH’ TO BRICKS

The ‘Fly Ash Brick Plant’ - Maamba Energy Limited’s (MEL) groundbreaking initiative for repurposing fly ash, a byproduct from coal combustion, into eco-friendly building blocks - is set to empower local communities in Maamba while providing sustainable solutions to the environmental concerns that come from coal energy production.

The project is currently underway with MEL spearheading construction work on the necessary infrastructure. Upon completion, it will be run in partnership with a local cooperative, whose members will be trained in the use of the technology at the Maamba Vocational Centre.

MEL’s Head of Corporate Social Responsibility and Social Investments, Christopher Mukala explained that the bricks do not contain cement but instead make use of fly ash and bed ash — the major waste products from the



power production operations as the main raw material. The process helps manage waste and provides a sustainable construction material alternative.

Mr Mukala added that the establishment of the fly ash plant will be a big step towards sustainable construction practices in Zambia.

“Globally, we have seen that the technology for producing fly ash bricks is common in Asia, and indeed closer to home in countries such as South Africa, Ghana and Kenya, where there are a number of thermal plants,” he further noted.





NEW WATER TANK TO ENHANCE WATER SUPPLY IN MAAMBA

Over the years, Maamba town has become a shining gem in Southern Province. Attracted by economic opportunities, population from other parts of the country has migrated to Maamba resulting in an increase in the number of families.

With a current population of over 25,000 residents, the town's demand for access to clean and safe water has remained a challenge due to the limited water supply infrastructure. An existing tank was installed in 1968 and has over the years seen much wear and tear until it could not be repaired anymore.

Being sensitive to the needs of the people, Maamba Energy Limited (MEL) came on board to erect a one million-litre water tank with associated infrastructure at a cost of US\$72,500.

Work commenced on 10 December and is expected to be completed in January 2025. Upon completion, the tank will be handed over to Southern Water and Sanitation Company Limited (SWASCO), with MEL maintaining ongoing oversight of the water infrastructure.

Mudenda Sizyongo, the Assistant Mechanic Manager at Maamba Energy, says the installation represents a vital step towards ensuring that every resident in Maamba has access to potable water.

"Our team worked tirelessly to ensure that the old tank was brought down within the deadline and built the new one within three weeks. The function of this distribution tank is to enhance holding capacity, balance pressures in the network and ensure all corners of Maamba have running water at all times — particularly in the dry season," he stated.



 Maamba Town, Sinazongwe

Maamba, a town in Zambia's Southern Province's Sinazongwe District, is renowned for its mining and energy industries. It is located near the stunning Lake Kariba, offering breathtaking views and promising tourism opportunities. The town lies approximately 320 km southwest of Lusaka, the capital of Zambia, and about 240 km northeast of Livingstone the tourist capital, home to the spectacular Victoria Falls, also known as Mosi-au-Tunya.

MAAMBA PRIVATE SCHOOL – A GOLDEN LEGACY OF LEARNING AND COMMUNITY



Maamba Private School recently celebrated its Golden Jubilee, marking half a century of academic excellence. Established in 1974 by Maamba Energy Limited (MEL) to educate the children of mining employees, the school has grown into Sinazongwe District's leading institution, now educating over 750 students from primary to secondary levels.

The 50th jubilee was held on 11 October 2024 under the theme "Honouring Our Past, Creating Our Future: Celebrating 50 Years of Academic Excellence."

Alumni from various batches returned to their alma mater, joining current students, teachers and community leaders in a programme featuring cultural performances, a ceremonial march-past and heartfelt tributes.

In his keynote address, MEL CEO, Lt Col Cyrus Minwalla (Retd) emphasised the importance of equipping students for an ever-changing world.

“Our responsibility extends beyond textbooks,” he said, urging the school to foster critical thinking, adoption of technology, and an innovative spirit in light of its recent focus on STEM education in response to global industrial shifts.

Sinazongwe’s District Education Standards Officer, Mr Zaviour Mukuwa, praised the school’s commitment to excellence saying, “Maamba Private School has long been the benchmark for quality education. Now, the challenge is to redefine excellence—to push boundaries so that our students can succeed not only locally but on a global stage.”

The strong partnership between MEL and the school was a recurring theme. Mr Duba Joe Syakalonga, representing the Parent-Teacher Committee, acknowledged MEL’s long-term investment. “The school’s success—in its laboratories, sports facilities, and overall growth—is deeply tied to MEL’s commitment,” he observed.



For many alumni, the day was deeply personal. Professor Jackson Chipaila, now a leading academic, recalled his transformative experiences at Maamba: “My journey began in these classrooms. Here, I discovered new ideas and realised that my potential extended far beyond my village. This school doesn’t merely teach; it transforms lives.”

Principal Justina Kaonga, who has led the school through recent expansions, expressed her gratitude for MEL’s support in all areas of community development—from education to healthcare and infrastructure: “Maamba is not just a school—it is a lifeline,” she said. The school plans to expand its infrastructure, digital learning resources, enhance teacher training, and forge international partnerships, all while remaining true to its mission of nurturing curious, compassionate citizens.

"I love my family, I love my job" – a heartfelt campaign initiated by Maamba Energy Limited (MEL) – is designed to cultivate a culture of wellness, safety, and increased productivity among its employees. Undertaken under the aegis of the Human Resources Department, the campaign underscores the importance of achieving a work-life balance, which is essential for mental health, physical safety, and overall well-being. These factors are critical for building a thriving and motivated workforce.

 **MAAMBA, Sinazongwe**



'I LOVE MY FAMILY, I LOVE MY JOB'

The campaign's core mission is to create an environment where employees feel supported in both their professional roles and personal lives.

"We want every employee to be responsible and inspire a safety-conscious mindset; knowing that at the end of every workday, there are families and friends who are dependent on them thus recognising that their well-being directly impacts those who are near and dear," said Maamba Energy Human Resource Manager Bwali Nda. During the routine morning safety talk called 'Toolbox Talk' session at the Kanzinze mine, HR Superintendent Mutemwa Malambo stressed the importance of embracing the campaign's principles, noting that families and children often serve as powerful motivators for individuals to perform effectively at work. "For many, their loved ones are the driving force behind their dedication and





productivity. This campaign reminds us that our personal and professional lives are deeply interconnected,” Malambo explained.”

By fostering a culture of care and accountability, MEL aims to ensure that employees adhere to company policies and guidelines, promoting safety in the workplace and discouraging harmful behaviour such as drinking on duty or substance abuse.

“When you feel physically and emotionally healthy, you’re better equipped to face challenges at work. A happy, healthy employee is a more productive employee, and who benefits both himself and the company as a whole.,” Malambo stated.

The success of the initiative, however, relies on collective effort. Malambo urged employees to become advocates for the campaign’s principles: “Each of you has a role to play in promoting these values, whether it’s practicing better self-care or encouraging safety at your workstation,” he said. As the campaign continues to unfold, Maamba Energy is not only enhancing productivity but also ensuring that its workforce feels valued and supported — both on and off the job.



DEFENSIVE DRIVING COURSE PAVES THE WAY TO SAFETY

How a bold commitment to safe driving is transforming Zambia's high-risk mining landscape

Navigating the terrain in an operational mine requires drivers to be both skilled as well as highly trained in handling vehicles particularly within the mining area. On October 9, 2024, 112 employees of Maamba Energy Limited (MEL) graduated from an intensive Defensive Driving Course conducted by the reputed Industrial Training Centre (ITC). Hosted at the company's own premises, the graduation ceremony celebrated a deeply rooted culture of safety and excellence within MEL.

"Transport incidents pose significant risks in mining and on the road. Defensive driving equips drivers with the skills to anticipate hazards and react swiftly to potential dangers. This training aligns with our core value of protecting lives while maintaining productivity," said Maamba Energy SHEQ Manager, Mr Yotam Phiri. The course, split into two sessions, ran from 1st to 8th October, was led by ITC trainers Mr Chapu and Mr Mulimi. It blended theory and practical

aspects, covering everything from hazard perception to emergency protocols, ensuring drivers are well-prepared to navigate the challenging terrain and cope with any contingent situations.

Management, including the Human Resources Manager, Ndau Bwali and the Head of Mining Operations, Scott Phiri, honoured the graduates at the ceremony.

Mr Bwali remarked that "Investing in our workforce's competence safeguards both our personnel and operational continuity."

As Zambia's mining sector continues to grow, Maamba Energy's partnership with ITC is another step towards enhancing the standards for industry safety with the ultimate aim of zero harm.





STORES TEAM DRIVES SEAMLESS STORAGE TRANSITION DURING PHASE II EXPANSION



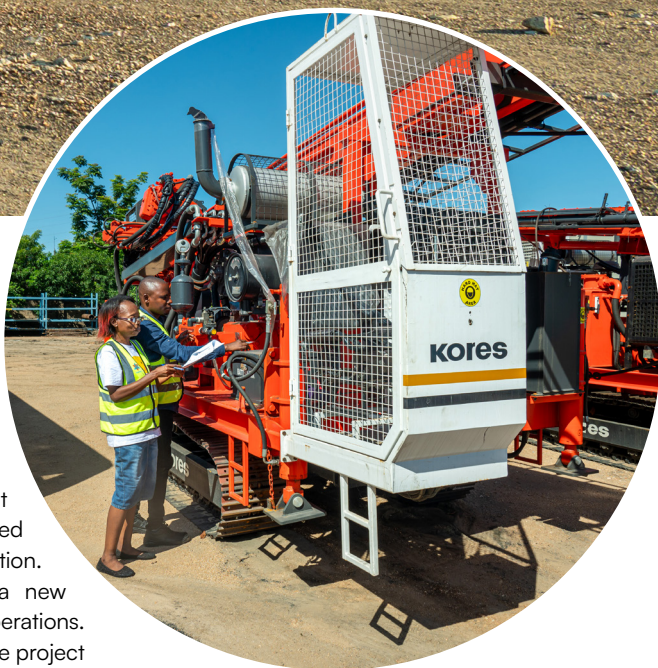
As Maamba Energy forges ahead with Phase Two of its 300 megawatt power plant, its stores department deftly balances facility relocation, critical deliveries and preparation for future infrastructure development.

Between March and July 2024, the department relocated its 2,000-square-metre storage facility within the same premises.

“The move wasn’t an expansion but a strategic decision to clear space for Phase Two — the old warehouse stood where the new plant will be built,” explained Stores Manager A. Ambati.

Materials were temporarily shifted, the old structure demolished and the facility rebuilt on the opposite side — all the while retaining the same footprint and minimising disruption to ongoing projects.

The department managed routine consignments alongside standout deliveries, including two advanced drilling machines for mine exploration. Further plans are underway for a new warehouse to support Phase Two operations. Although still in the design phase, the project highlights forward-thinking logistics. For now, the stores team remains focused on a smooth flow of material thereby ensuring the supply chain runs without any hitches.



HR CONDUCTS TRAINING AT TPP TO **STREAMLINE** **COMPLIANCE**



A training workshop on compliance protocols was led by the Human Resource and Administration department on 25 October 2024 at the Service Building of the Thermal Power Plant. Attended by the Head of Operations & Maintenance (O&M), senior staff and expatriate employees, the session aimed to clarify procedures and terminology for both national and expatriate staff, ensuring compliance with legal requirements.

The workshop also addressed common pitfalls, such as overlooked renewal deadlines, with practical solutions to streamline workflows. Attendees praised the session's interactive approach, blending case studies with Q&A segments.

By interpreting and amplifying regulations for a diverse workforce, the initiative highlights the organisation's commitment to operational efficiency and inclusivity, fostering a culture of accountability.



WELCOMING NEWLY RECRUITED STUDENTS

In its welcome to new recruits, Maamba Energy Training Centre (METC) urged the inductees to set ambitious goals and remain steadfast in their career journeys, in order to rise above challenges and excel in their chosen fields.

Speaking at an orientation session, Maamba Energy Limited (MEL) Human Resources Manager Bwali Ndau encouraged the students stressing that their time at METC, more than just skill acquisition, is a launchpad for shaping their futures and making meaningful contributions to the mining and energy sectors.

“You are not just pursuing careers; you are stepping into a realm where your skills can significantly contribute to our nation’s progress,” Mr Ndau stated. He emphasised the importance of discipline, resilience and dedication, urging students to adhere to institutional guidelines while staying focused despite any hurdles they may face.

With METC providing a strong foundation for the next generation of professionals, the students have been encouraged to seize this opportunity with determination and a vision for excellence.





RAFFLE DRAW SPARKS BIG WINS

On 20 December 2024, employees of Maamba Energy Limited (MEL) gathered at Maamba Golf Club for an end-of-year celebration featuring a thrilling raffle draw and plenty of festive cheer.

The draw, which ran from 18 to 20 December, offered participants the chance to win a range of prizes. Among the winners was Kennedy Musonda, an assistant Mechanical Engineer at MEL, who secured two prizes — the top prize valued at K25,000, comprising a two-horse solar-powered pump system with four 544-watt solar panels, and a laptop bag.

“When I heard my name, I could not believe it — I was filled with joy. This is the first time I have participated in such a draw and won; all it took was 10 tickets, which earned me the much-needed items for my farm. I am grateful to the company for such initiatives,” Musonda said.

Financial accountant Arthur Shinamanjolo, also of MEL, won the second prize — a night for two at Chaminuka Lodge, a deep freezer, and K3,000 in pocket money. A repeat participant who previously won kitchen utensils in the 2023 draw, he shared his excitement, “I spent K500 on 10 tickets. With others spending over K1,000, I was sceptical about winning anything. I lost hope until my wife identified the winning ticket numbers which led to our good fortune!”

Shinamanjolo added that he appreciated the company’s efforts to foster teamwork, strengthen bonds, and create a friendly competitive environment. He suggested that future prizes could include items such as farming ploughs and roofing sheets.

Other winners also walked away with fantastic gifts, including a water dispenser, a microwave, and submersible pumps. The raffle draw was the highlight of the evening, offering employees the chance not only to win prizes but also to bond, celebrate, and reflect on the year’s achievements.

“

This is the first time I have participated in such a draw and won; all it took was 10 tickets, which earned me the much-needed items for my farm.

”



A NEW DAWN UNDER COACH KASI KALANDE

Maamba Energy Stars FC is on the rise, thanks to a revitalised Kanzinze Stadium and the leadership of coach Kasi Kalande. Appointed in September 2023, Kalande brings over 25 years of coaching experience; having managed clubs like Nampundwe FC and Nakambala Leopards. His mission is to guide the team to Zambia's Premier Division.

Kalande's journey to coaching began after a career-ending injury cut short his playing days. Mentored by legends like Boniface Mutowe, he transitioned to youth coaching in 1998, developing a tactical philosophy that prioritises discipline and player development.

The club's transformation is evident as under Kalande, the team finished fourth in the first half of the 2024-2025 season, with ambitions of a stronger second round. The upgraded Kanzinze Stadium - once a training base for Zambia's national team, is now a state-of-the-art facility.



Kalande believes the stadium's revival is key to the club's future and envisions it hosting national team camps again, while also nurturing local talent: "The pitch is 100% qualified for any league. It motivates players to perform at their best," he said.

"In two seasons, you'll see our players in the national team," he predicted.

With a clear vision and a revitalised home ground, Maamba Energy Stars FC is aiming high. Kalande's goal is Premier Division football within five years. For a club rooted in community pride, the future looks brighter than ever.

MEL TRAINING INSTITUTE STRENGTHENS ELECTRICAL COURSE WITH **SOLAR SYSTEMS** **TRAINING**

As Zambia accelerates its efforts towards achieving energy diversification, bridging the skills gap in renewable energy remains crucial. Maamba Energy Training Institute has moved to integrate solar systems training into its electrical course — an initiative set to redefine technical education for locals in that field.

“The addition of solar training equips our students with a broader skills set, ensuring they are well-prepared for the evolving energy sector thereby creating a workforce that can meet the growing demand for solar energy solutions,” said Mr. Vasireddy Srinivasa Rao, the incharge of the Training Institute.



With solar power gaining prominence as a sustainable alternative, students at the Training Institute will now receive hands-on training in solar system installation and construction. This added module further provides them with a competitive advantage in the job market, as industries increasingly seek professionals with expertise in renewable energy.

Even though the aspect of solar is not a part of TEVETA syllabus, it is a pioneering effort by MEL Training Institute, designed to offer practical solutions to the country's energy needs.

HISTORIC OVERHAUL OF MAAMBA GOLF COURSE WATER SYSTEM SET TO TRANSFORM THE GAME

MEL's iconic golf course is undergoing a comprehensive upgrade. Senior Security Manager and project leader Henry Chaile, reveals that the project marks a significant turning point for the course, long plagued by an ageing, analogue water system.

Henry Chaile explains that the old system—installed in 1970—had been riddled with challenges including leakages and inadequate water pressure, which undermined both the condition of the turf and the overall playability of the course. Until Maamba Energy Management approved the overhaul to install a modern, mechanised network of pipes and sprinklers, including pop-up and high-pressure models, in early 2024 ensuring that every part of the course receives proper watering.

The technical challenging project is scheduled for completion in March 2025.

The upgrade is driven by the need to match the ecological requirements of the course while boosting its appeal. "The nature of the course, its maintenance and the watering needs of the turf were not in sync," Chaile notes. The new system not only promises to enhance playability—making the course attractive for local and international tournaments—but also supports the surrounding ecosystem. The modern reticulation system will aid in sustaining local wildlife, contributing to conservation efforts in partnership with the Department of National Parks and Wildlife.

The first upgrade since 1970, replaces corroded pipes with 12km of high-density polyethylene piping, 200 smart pop-up sprinklers and a solar-powered control hub that allows for precise, digital and



smartphone-managed water distribution. The innovative system further reduces water waste by 40%.

Furthermore, the installation of a digital pump house to manage the water system signifies a leap towards a fully integrated, modern facility.

With a rejuvenated water system now in place, the Maamba golf course is poised to become a landmark in both sport and ecological stewardship.



MAAMBA ENERGY STARS RECEIVE VITAL SPORTS EQUIPMENT

Maamba Energy Limited (MEL) has bolstered the aspirations of Maamba EnergyStars FC through a substantial contribution of sports equipment, emphasising the company's commitment to nurturing local talent and fostering sporting excellence.

Human Resources Manager, Bwali Ndau emphasised the company's ethos during the ceremony saying: "Our support extends beyond the pitch. By equipping these young athletes, we are investing in the discipline, teamwork, and the future of our community. These tools symbolise our belief in their potential to shine both on and off the field."

Currently competing in Division One South, the Energy Stars have risen steadily under Coach Kasi Kalande Jr, who hailed the contribution as transformative.





"This gear isn't just practical—it's motivational. Our players now have the resources to train smarter. We're laser-focused on repaying this faith with results that make Maamba proud," he remarked.

The club's gratitude was echoed in a heartfelt interaction during the handover of sports equipment, praising the sponsor's role in their journey from strugglers to contenders. Players pledged to "intensify efforts" following encouragement from senior management, who lauded their progress.

Adding to the momentum, Zambia national team goalkeeper Tosta Sabata - a product of the club's former incarnation, Zamcoal Diggers - visited Maamba in December 2024. The ZESCO FC star, whose career began at the grassroots in Maamba, donated jerseys and technical T-shirts, honouring the club's role in his ascent.



"Tosta's homecoming is a powerful reminder that our values endure. His generosity bridges generations, inspiring today's squad to chase greatness," said Coach Kalande."

As Maamba Energy Stars aim for higher glory, the twin pillars of corporate backing and alumni pride continue to fuel a legacy where community and ambition intersect—proving that together, they're not just building a team, but championing a dream.



FROM CABLE HANDLER TO MINE PLANNING VISIONARY – TWAAMBO

How adaptability, collaboration, and relentless drive propelled Twaambo Mangweni K. Simwamba to engineering excellence.

With over a decade of experience in Zambia's mining sector, newly appointed Senior Mine Planning Engineer at Maamba Energy Limited (MEL) Twaambo Mangweni K. Simwamba — affectionately dubbed the “Floating Trophy” by peers — embodies the transformative power of perseverance. Tasked with optimising mine plans, enhancing operational safety, and embedding sustainability into MEL's core strategies, Twaambo's journey began unconventionally. While initially pursuing veterinary medicine at the University of Zambia, he turned to mining, joining First Quantum Minerals (FQM) in 2012 as a graduate trainee cable handler and spotter. Through grit and intellectual curiosity, he rose to hold important responsibilities prominent among them being mining engineer, senior

mining engineer, and short-term planning engineer. In his professional growth, Twaambo has mastered mine planning, production optimisation and large-scale project leadership.

“Mining is more than technical skill—it's about building a legacy. MEL's commitment to sustainable practices and Zambia's economic growth aligns with my vision. Being part of this transformative chapter is an honour,” says Twaambo, reflecting on his recent transition to MEL.

His trajectory at FQM showcased an extraordinary ability to adapt. Colleagues frequently praised his willingness to bridge gaps in team workflows, often assuming unforeseen responsibilities to ensure project success. This reputation for reliability earned him the moniker “Floating Trophy” — a nod

to his versatility and consistent excellence. “Teamwork is the bedrock of progress. At MEL, we learn, innovate, and uplift one another. This ethos fuels me,” he explains.

In his current role, Twaambo oversees MEL's mine planning team, designing strategies that balance efficiency, safety, and environmental stewardship. His expertise has already driven the adoption of advanced geological modelling tools and data-driven decision-making frameworks, critical in an era where sustainable resource management defines industry leadership. “Responsible mining isn't optional; it's our duty to communities and future generations,” he asserts.

Beyond technical prowess, Twaambo champions a leadership philosophy rooted in positivity and faith. “Approach others with goodwill — negativity stifles growth. Learn,



Mining is more than technical skill—it's about building a legacy. MEL's commitment to sustainable practices and Zambia's economic growth aligns with my vision. Being part of this transformative chapter is an honour



leave a legacy, love your work, laugh through challenges, and always look upward," he remarks. This mindset, paired with his meticulous attention to detail, has cemented his influence within MEL's operational hierarchy.

Twaambo's arrival at MEL signals a strategic shift toward long-term, innovation-led planning. His initiatives aim to reduce waste, optimise ore extraction, and integrate cutting-edge technologies such as AI-driven predictive analytics. "Zambia's mining future hinges on marrying tradition with innovation. MEL is pioneering this balance, and I'm here to ensure we excel," he adds.

When not immersed in mine plans, Twaambo spends time in mentoring young engineers, advocating for STEM education, and

exploring Zambia's cultural heritage. "This industry thrives when we invest in people. My journey began with a leap of faith — I hope to inspire others to take theirs," he says.

For Twaambo, the "Floating Trophy" epithet transcends accolades — it symbolises a career built on fluid expertise and a dedicated pledge to elevate those around him. As MEL strides toward sustainable growth, his blend of technical acumen and collaborative spirit positions him as a linchpin in Zambia's mining evolution.

"To aspiring engineers: embrace every challenge. Mining is as much about resilience as it is about equations. Zambia's prosperity lies in our hands — let's shape it with purpose," he concludes.



Zambia's mining future hinges on marrying tradition with innovation. MEL is pioneering this balance, and I'm here to ensure we excel...



EIZ MAAMBA BRANCH TRIUMPHS WITH AWARD



In celebration of excellence and community spirit, the Maamba branch of the Engineering Institute of Zambia (EIZ) has been recognised for its outstanding contributions. On 06 December 2024, the Maamba branch received an award at the annual EIZ ceremony in Lusaka for its strict adherence to standards, regulations and consistent sponsorship. EIZ commended Maamba Energy for its sustainable mining operations and innovative backfilling practices, setting an inspiring benchmark in environmental stewardship.

Moreover, on 24 October 2024, as the nation celebrated its 60th anniversary, the branch organised a charitable service by donating assorted clothing and food supplies to personnel at Maamba General Hospital, as well as painting the children's ward with colourful cartoons. Numerous Maamba Energy engineers joined the

festivities, further reinforcing EIZ's unwavering commitment to community empowerment and professional excellence.



WELCOMING NEW EMPLOYEES



CHRISTOPHER MUKALA
HEAD CSR AND SOCIAL INVESTMENTS



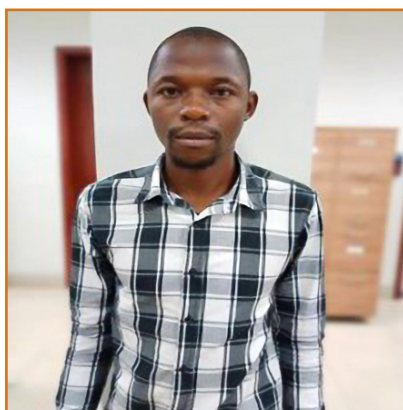
KASI KALANDE
MAAMBA ENERGY STARS COACH



TWAAMBO SIMWAMBANA
SENIOR MINING ENGINEER —
MINE PLANNER



PATRICK ZULU
MECHANICAL ENGINEER
(CONSTRUCTION TEAM)



KUNDA MWENJE
CHEMICAL ENGINEER FOR THE PHASE 2
300 X2 POWER PLANT CONSTRUCTION
AND C&I DEPARTMENT.



MUTEMWA MALAMBO
HUMAN RESOURCE SUPERINTENDENT

PICTURE STORIES



Maamba Energy CEO and senior staff congratulating the badminton players on a successful Badminton Tournament at the MEL Racquet Club.



Employees celebrate their birthdays during interactive meetings at TPP



As part of the internal games and sports activities, a volleyball tournament was held at the MEL Racquet Club.





The Maamba Energy CEO joined staff and their families to celebrate Diwali, the Festival of Lights, at Malaiti House. Diwali is widely celebrated around the world and holds great significance in Indian culture.



ZESCO Chairperson Vickson Ncube with the Maamba Energy CEO and staff during his visit.



A team from Zambia Sugar PLC visited Maamba Energy.



Students from the Maamba Training Centre design table and bench sets.

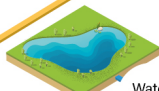


Coal Mining

Open-pit Coal Mine



Thermal grade coal



Water Pipeline

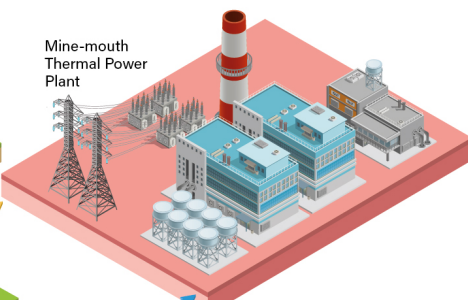
Coal Handling and Processing Plant

High grade coal

Industrial Customers

Thermal Power Installed Capacity 300 MW

Mine-mouth Thermal Power Plant



Transmission Line

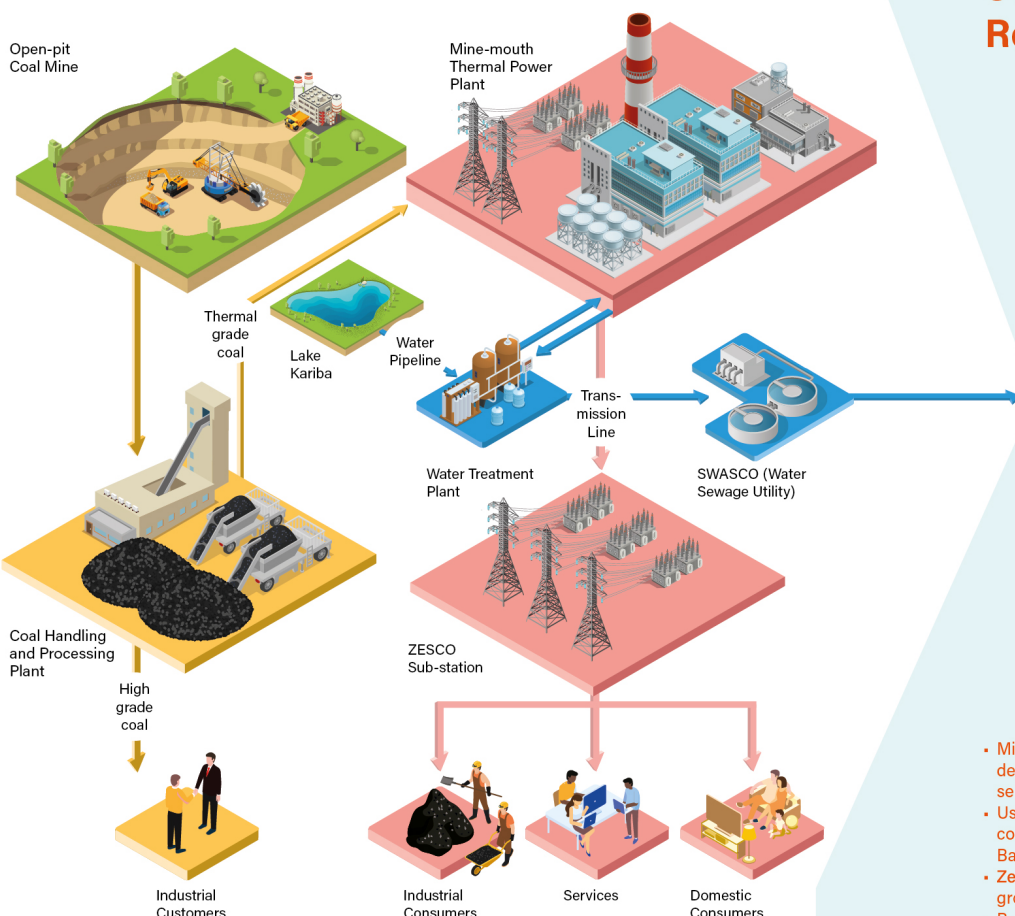
Water Treatment Plant

ZESCO Sub-station

Industrial Consumers

Services

Domestic Consumers



Corporate Social Responsibility

- Mitigate environmental degradation by use of polluting self-combusting coal in TPP
- Use of SOX/NOX/PM emission control technology iaw World Bank norms
- Zero-effluent discharge protecting ground water
- Back filling mine voids
- Dedicated arboriculture programme using re-cycled water
- 'Green Maamba' campaign – planting indigenous trees with community involvement

Outcomes...

...making a difference

- Conversion of polluting thermal-grade coal to high-value base-load energy
- Contributes 10% of Zambia's installed power generation
- Provides energy security and diversity in energy mix
- Sale of high-grade coal to domestic customers for construction industry and SMEs
- 100% by-product utilization
 - Unsellable coal as input for power plant
 - Fly ash for construction sector
 - Waste water for arboriculture
- Community Development

ABOUT MAAMBA ENERGY LTD

Maamba Energy Limited (MEL), in Sinazongwe District in Southern Province, is Zambia's largest coal mine and the nation's biggest Independent Power Producer (IPP) with Zambia's only coal-fired Thermal Power Plant (TPP). The company operates a 300 MW (2X 150 MW units) modern, eco-friendly coal-fired power plant—the only one of its kind in Zambia—with the capacity to supply 10 percent of the country's currently installed electricity generation capacity. MEL is owned 65 percent by Nava Bharat Singapore Pte and 35 percent by ZCCM-IH, with some US\$919 million invested since 2010. The plant provides diversity in the nation's energy mix and contributes to the nation's base load electricity demand with high-availability power that is independent of climate change, thereby augmenting energy security of Zambia.



maamba

CONTACT US



Corporate Park
Alick Nkata Road
Lusaka



www.maambaenergy.com
LinkedIn: maamba energy-ltd



+260 962608976