



GROUNDBREAKING CEREMONY BY PRESIDENT MR. HAKAINDE HICHILEMA, FOR MAAMBA ENERGY 300 MW PHASE II POWER PROJECT

HIGHLIGHTS

MAAMBA COLLIERIES LTD
WILL HENCE BE
MAAMBA ENERGY LTD

DG ZEMA LAUDS MAAMBA
ENERGY'S HIGH LEVEL OF
ENVIRONMENTAL COMPLIANCE

PRESIDENTIAL SPECIAL ADVISOR
JITO KAYUMBA LAUDS MEL'S
CONTRIBUTION TO ZAMBIA

Foreword by the Resident Director **MR. ASHWIN DEVINENI**



Dear Readers

I am extremely happy to inform you of our rebranding from Maamba Collieries Ltd to Maamba Energy Ltd., which truly reflects the primary business vertical of the company and our central role in the energy sub-sector of Zambia.

The 13th of August marked a landmark day for the country and indeed for us at Maamba Energy when President Hakainde Hichilema officially launched our Phase II Expansion Project at the official groundbreaking ceremony.

As investors, the expansion project showcases our confidence in continuing investments in Zambia. Along with our partner shareholders ZCCM-IH, we would like to thank all stakeholders in government who made this momentous occasion possible and recognise the invaluable contribution of the executive and management teams of MEL for all their hard work and dedication for making the event a grand success.

I am glad to note the praise from ZEMA for our efforts to comply with emission norms and the sustainable initiatives for minimizing the impact of our operations on the environment, including efforts to involve the community and the school children of the township in managing the environment.

Even as we burn the midnight oil to meet the extremely aggressive timelines for doubling our generation capacity in Phase II in the next two years, interim we remain committed to ensuring full operational availability of the existing 300 MW to the national grid to minimise the debilitating load shedding and ensure energy security of Zambia!

Ndalumba kapati, Natotela saana, Dzikomo kwambiri

Message From The CEO

LT COL CYRUS MINWALLA (RETD)

Dear Readers

I take this historic opportunity to announce that Maamba Collieries Limited (MCL) has rebranded to Maamba Energy Limited (MEL). This reflects the primary business of the company and our central role in the energy sector of Zambia. This marks yet another significant chapter in the long and glorious history of our Company.

The visit to MEL by the Republican President, His Excellency Mr. Hakainde Hichilema, on 13th August 2024, will go down as a Red-Letter Day in Zambia's history. The groundbreaking ceremony, officiated by the Republican President, marks the commencement of construction of adding another 300MW to the existing 300MW Power Plant. The visit was not only important to MEL but also to the entire nation as it unveiled MEL's potential to positively contribute towards resolving the nation's energy crisis.

During the visit, the President also toured the Thermal Power Plant and expressed his satisfaction on the high standard of environmental standards and high standards of Operation and Maintenance. I complement all employees for organizing this historic event in such an exemplary manner.

MEL operations and environment management continues to impress and inspire our visitors and statutory authorities. MEL hosted the Special Assistant to the President - Mr. Jito Kayumba and, Director General Zambia Environmental Management Agency (ZEMA) - Mr. Godfrey Mwiinga in separate visits. I am proud to inform that both visitors were extremely happy with the operations of MEL as we continue to maintain the highest standards of compliances to Safety, Health, Environment and Quality (SHEQ) aspects. I complement the Head of Mining Operations, Plant Head and Head of SHEQ and their teams for their outstanding work.

MEL now further grows its presence in the Zambian economy; the company is venturing into business expansion through Lithium and Iron Ore Magnetite explorations. This is yet another exciting expansion for the company.

Our Maamba Private School has continued to excel both in academics and extra-curricular activities. 12-year-old Isaac Mate (Grade 7) has won the JETS national Competition. Our congratulations to him and his teachers.

As we continue to excel under our new brand as Maamba Energy Limited, I wish our employees the very best for a bright future.





GROUNDBREAKING CEREMONY BY PRESIDENT MR. HAKAINDE HICHILEMA, FOR MAAMBA ENERGY 300 MW PHASE II POWER PROJECT

Maamba Energy Limited (MEL) has commenced construction on its 300 MW Phase II power plant expansion project. The expansion, which will add an additional 300 MW to the existing capacity, aims to double MEL's energy output to 600 MW, and is scheduled to be completed by mid-2026.

The President Mr. Hakainde Hichilema visited MEL on 13th August 2024 and officially launched the commencement of works at a groundbreaking ceremony held at Maamba, marking a significant milestone in the nation's journey towards energy security.

Prior to the Groundbreaking ceremony, the President toured the Thermal Power Plant and was explained about the various technologies in place that reduce

emissions to levels within industry norms of the regulators. The President also visited the control centre of the Plant and was briefed on the fully automated operations of the plant. Thereafter, the President also interacted with and motivated the young Zambian engineers at the Power Plant.

During the ceremony, President Hichilema emphasised the critical role the expansion played in the government's broader strategy to ensure Zambia's energy security and economic prosperity.

"I am glad that we are here today to celebrate the launch of the project for additional 300 MW of environmentally acceptable coal energy to add on to the existing 300 MW.

This project symbolises our relentless efforts in our journey for energy security in our country. We have an energy insecurity

instigated by the drought as it were, because we are a mono energy economy - because over 80% of our energy is coming from hydro. And then drought wiped out our capacity and hence the importance of this project."

The President highlighted the pressing need to diversify Zambia's energy mix, currently dominated by hydro-electric power, which has become increasingly unreliable due to climate-induced water shortages. The President elaborated on the government's multi-faceted approach to address the power deficit and underscored the importance of public private partnerships in achieving these goals, stating that the Maamba Energy project is a prime example of such collaboration.

Speaking at the event, Chairperson of ZCCM-IH said that the groundbreaking

ceremony, held only a few months after the Board of ZCCM-IH (35% shareholders in MEL) approved investment in Maamba Phase II was a record-breaking response to a rapidly evolving power deficit situation. He added, “The company is using CFBC boiler technology that allows use of self-combusting thermal grade coal and results in lower overall emissions. Today, we look around the plant and premises and notice how clean and green this operation is. Not only has Maamba Energy transformed the local environment in Sinazongwe, but also helped diversify Zambia’s energy mix.”

“The launch of the project today has become possible largely due to the support and encouragement from the government of Zambia. This project truly exemplifies the power of public private partnership,” said Mr. Ashok Devineni Chairman of Nava Limited (65% shareholder of MEL) as well as the Chairperson of the Board of MEL, while addressing the gathering.

Mr. Devineni stated, “It is remarkable, just as Maamba Collieries was vital to the Zambian economy since the early 1970s soon after Zambia gained Independence, Maamba Energy, today, 52 years later, continues to be a pillar of strength to the Nation’s economy.”

He further highlighted that, “The additional 300 MW power after the expansion, would help reduce the energy deficit in times of drought. Equally importantly in times of surplus, the baseload power could be exported, adding forex to the country’s revenues, which is in alignment with the 8th National Development Plan.”

The expansion is crucial not only for Maamba Energy but for the entire nation as the project would generate additional employment during construction and after completion of the project.

Maamba Energy’s Phase II expansion is not just about increasing power generation output but also about helping stabilise Zambia’s energy balance and supporting key sectors such as mining and manufacturing and will support the government’s vision of increasing copper production, reducing load shedding and providing electricity to every citizen in the country.

To bring the project to maturity, Maamba Energy with the help of the government, has secured substantial financial backing from local institutions anchored by



NAPSA. This local investment ensures that the financial benefits of the project stay within the country, further boosting the economy.

Delivering the vote of thanks, Lt. Col. Cyrus Minwalla (Retd), the Chief Executive Officer stated that the Phase II expansion was a domestic solution to a domestic situation. He thanked all the ministries, various stakeholders, and the sponsors, Nava Ltd and ZCCM-IH for making this historic launch a reality. He also thanked the traditional leaders and the community for their continued support to the company and assured them of the continued backing of Maamba Energy.

The CEO also thanked various financial institutions like NAPSA who have come forward to support this project.

The company has recently rebranded from Maamba Collieries Limited to Maamba Energy Limited to reflect its broader vision and strategic focus on energy. With robust environmental clearances and a long-term Power Purchase Agreement with ZESCO, Maamba Energy remains committed to ensuring high availability for sustained supply of base load energy to the national grid, while continuing to maintain and remain compliant with high environmental standards.



MAAMBA COLLIERIES LTD WILL HENCE BE MAAMBA ENERGY LTD

Heralding a true reflection of its core business, Maamba Collieries Ltd, in July 2024, has changed its name to Maamba Energy Ltd.

This marks another significant milestone in the history of Zambia's only energy and mining company, which was founded in 1971.

The Company has made this announcement at a time when the company is poised to double its electricity generation capacity from the current 300MW to 600MW at its plant in Maamba,

Sinazongwe. The additional 300 MW will help Zambia augment energy security, diversify its electricity supply mix, and crucially will augment much-needed baseload generation capacity.

Energy is the primary business of the Company, and the new name of Maamba Energy better reflects that. As the new name suggests, the Company aspires to be a significant player in the energy space in the region as a long-term strategy.

Maamba Energy (with shareholding of 65% by Nava Bharat Singapore Pte Ltd and 35 % by ZCCM-IH), is one of Zambia's largest Independent Power Producers, with

installed generation capacity accounting for almost 9% of the country's installed capacity, which during the ongoing drought increases to over 20% when operating at 100 % capacity.

Mr. Ashok Devineni, Chairman of MEL stated, "It is remarkable that just as Maamba Collieries was vital to the Zambian economy since the early 1970s soon after Zambia gained Independence, today 52 years later, its new avatar Maamba Energy, continues to be a pillar of strength to the Nation's economy".



DIRECTOR GENERAL OF ZEMA LAUDS MAAMBA ENERGY'S HIGH LEVEL OF ENVIRONMENTAL COMPLIANCE



Environment Regulator - ZEMA Team with MEL Management



Zambia Environmental Management Agency (ZEMA) commended Maamba Energy Limited (MEL) for its significant contribution to the nation's energy security and its stringent compliance to environmental standards. ZEMA Director General, Mr Godfrey Mwiinga, expressed his admiration during his familiarisation tour of MEL's operations on June 12, 2024.

"Very impressive development, key to our country's energy security, also very compliant, conscious of environment mitigation and conservation measures," said Mr. Mwiinga.

The visit by the ZEMA team focused on monitoring compliance and assessing the environmental mitigation strategies employed by MEL, which operates Zambia's largest coal mining concession and

a 300 MW eco-friendly coal-fired thermal power plant. The delegation also inspected the ongoing development of the second 300 MW Phase II of the Thermal Power Plant project, which will further enhance Zambia's installed energy generation capacity.

ZEMA recognised MEL's use of modern technology and best practices in environmental management and the company's proactive approach in integrating global and local standards in its operations, ensuring minimal environmental impact.

ZEMA continues to play a vital role in overseeing sustainable environmental management practices across Zambia, and during the visit the Director General acknowledged MEL as a model company for compliance and innovation in the energy and mining sectors.

JITO KAYUMBA LAUDS MAAMBA'S CONTRIBUTION TO ZAMBIA'S ENERGY AND ECONOMIC GROWTH

Maamba Energy Limited (MEL) received praise from Mr Jito Kayumba, Special Assistant to the President (Finance & Investments), who visited Maamba and its associated infrastructure at the eco-friendly Thermal Power Plant and the mine. He was particularly impressed by the world-class operations and modern equipment that helps the company's efforts to contribute to Zambia's energy security sustainably.

During his visit, Mr. Kayumba toured the power plant, the mine and ongoing construction sites for Phase II. He commended the company for maintaining a high standard of all-round excellence in its operations, describing the performance on-site as exemplary. His interactions with senior officials, employees, and union representatives further reinforced his positive outlook of the company's impact on the local community and the nation at large. He also visited some of MEL's CSR programs including the MEL run Maamba Private School, the Community Library and Maamba Eye Clinic and commended MEL for being a role model in community development.



In his remarks, Mr. Kayumba emphasised the significance of MEL's operations in addressing Zambia's energy needs, particularly the company's contribution towards reducing load shedding. He noted that the addition of the new power generation capacity from Maamba would play a crucial role in stabilising the country's energy supply and fostering economic growth.

"We are here at Maamba to ensure all support to the construction of the new plant which will plug into the grid, fulfilling our energy needs and reducing the burden of load shedding. This remarkable achievement will not only mitigate load shedding but also give us the energy security that we have been longing for."

After visiting Izuma mine he noted, "What is truly impressive here at the Izuma mine pit is the sustainable approach to mining. The sophisticated equipment used ensures that the extraction process is efficient and environmentally friendly, with dust suppression measures in place to prevent pollution. The careful separation of thermal-grade and high-grade coal resources demonstrates a strategic approach to power generation and industrial use, contributing significantly to our economy."

Mr. Kayumba's visit highlights the critical role Maamba Energy plays in Zambia's development, not only through energy production but also through its commitment to safe and sustainable operations that align with the country's broader economic goals.



BUILDING THE FUTURE, ONE DESIGN AT A TIME – MICHAEL KOPULANDE



Michael Kopulande's journey from a young dreamer in Lusaka to a civil engineer at Maamba Energy Limited is a tale of professional success achieved through focused ambition, perseverance, and a deep-seated passion for excellence. Born and raised in Lusaka, Michael's fascination with engineering was ignited early on by his curiosity about bridges, "As a kid, I was mesmerised by how bridges spanned across rivers and how they were built."

After his schooling at Mpelembe Secondary School in Kitwe, where he excelled academically he earned a scholarship, which took him for his bachelor's degree in civil engineering at China's Tsinghua University.

Michael returned to Zambia in 2011, and his early career involved working on power substation projects in Kitwe, where he served as a project manager. His career took another leap when he completed his Master's in Structural Engineering from China in 2014, not long after which, he was awarded the prestigious Chevening Scholarship, allowing him to pursue a second master's degree in Infrastructure Finance in the United Kingdom.

"The Chevening Scholarship was a gamechanger for me. It broadened my perspective and equipped me with the skills to tackle complex challenges in infrastructure development," Michael recalls.

Upon his second return to Zambia in 2018, Michael took on various roles all involved in infrastructure, including resident engineer for urban road projects in the North-Western Province, Director of Works at Luwingu District Council in Northern Province, and a lecturing opportunity at Mulungushi University.

He later worked as a consultant for a notable World Bank-funded project in northern Zambia: "Working on climate-resilient infrastructure worth almost \$30 million was a significant milestone for my career," he shares.

In early 2024, Michael joined Maamba Energy, where he currently serves as a Senior Civil Engineer. His role involves overseeing civil engineering works, including corporate social responsibility (CSR) projects such as the construction of bridges and dip tanks for the community as well as expansion of the MEL run Maamba Private School.

Michael's role at Maamba Energy currently focuses on the expansion of the company's infrastructure to support an additional 300 MW power plant. "This project is more than just engineering; it is about energy security for Zambia. It is a legacy that will power the nation for generations," he noted.

Beyond the professional sphere, Michael is a devoted family man. He and his wife Audrey have three children; two daughters and a son. He reflected, "My family is my anchor. Balancing a demanding career with a young family is challenging but incredibly rewarding."

Michael's advice for aspiring engineers is clear, "Do not just chase after 'hot' sectors. Identify real problems and develop solutions. Invest in knowledge that addresses those issues, not just for the sake of qualifications. The expansion projects here are exhilarating. From the new power plant to the road upgrades, there is so much potential. I am excited to be part of this growth," he enthused.

He further noted that in order to be relevant and effective as an engineer, one must take a holistic approach to the profession by seeking to solve technical problems and also understanding the financial and social impacts of their work, adding, "Look at the bigger picture and focus on making a difference."



RDA WORKS ON BATOKA-MAAMBA ROAD ELATES TOWNSHIP RESIDENTS

The ongoing rehabilitation of the Batoka-Maamba Road by the Government of Zambia through the Road Development Agency (RDA) is set to improve connectivity to the Sinazongwe District in Southern Province. The 88-kilometre road is a vital link between Batoka and Maamba and has brought much cheer to the residents of Maamba and surrounding communities.

While the road upgrade is crucial for MEL's ongoing and future operations, it also has broader implications for the entire community and surrounding areas in Sinazongwe district. This is because the improved accessibility between Batoka and Maamba, and surrounding areas is likely to boost trade and economic activities in these remote areas.



The long-pending rehabilitation of this vital lifeline access road will help ensure the smooth movement of equipment critical to our operations, especially given our tight 24-month project schedule for Phase II.

Chairman - MEL

The long pending road upgrade is particularly significant for Maamba Energy Limited, with works having commenced for its Phase II power plant expansion, which will rely on the rehabilitated road for transporting large power plant equipment/ machinery as well continued movement of materials for ongoing operations.

Speaking at the 300MW Power Plant Phase II Groundbreaking ceremony, Mr. Ashok Devineni, Chairman of MEL, acknowledged the importance of the road works, "The long-pending rehabilitation of this vital lifeline access road will help ensure the smooth movement of equipment critical to our operations, especially given our tight 24-month Phase II project schedule."



STUDENTS AT MEL'S VOCATIONAL TRAINING INSTITUTE CARRY OUT 'ON THE JOB' PROJECTS



Students of the recently commenced course on Mechanical Fitting at Maamba Energy Ltd. Training Institute have successfully fabricated an inclined conveyor belt, gaining invaluable hands-on experience and on the job training.

The project provided a comprehensive educational experience for the trainees who have been involved in all phases of the conveyor belt's development, from the initial marking and cutting of materials to the final assembly and operation.

This practical exposure is crucial, bridging the gap between theory and practice, teaching trainees solutions to real-world challenges that they are likely to encounter in their careers.

Mr. Vasireddy Srinivasa Rao, in charge of MEL's Training Institute noted that students were, "not just learning how to assemble and maintain a conveyor belt - they are developing critical thinking, problem-solving, and safety skills essential in any industrial setting."

MEL's Training Institute is accredited to TEVETA and is widely considered one of TEVETA's best run institutes.

Safety training was a key aspect of the project with trainees instructed in strict safety protocols, including the use of safety guards and importance of regular maintenance routines. They also learnt emergency shutdown procedures, preparing them to manage potential hazards effectively in future workplaces.

The benefits of the project extended beyond technical skills. Trainees gained

a deep understanding of how conveyor belts enhance operational efficiency by reducing manual labour and expediting transportation of materials. This knowledge is vital for boosting productivity in industries such as mining, manufacturing, and logistics.

"By the time they complete the Mechanical Fitters course, our trainees will possess the technical proficiency and problem-solving abilities needed to make a significant impact in any industrial operation and will be well-prepared to enter the workforce with confidence," added Mr. Rao.





MAAMBA ENERGY OUTLINES VISION FOR GROWTH AND INNOVATION

Addressing staff members on future plans of the company, CEO Lt Col Cyrus Minwalla (Retd) shared exciting new developments, focusing on the status and progress of the Phase II Expansion Project of the Power Plant. The CEO also informed employees of commencement of active exploration at MEL's Magnetite mine in Namantombwa, Mumbwa District which began in May.

He also talked about MEL's venture into lithium mining, having recently secured two large-scale exploration licenses, in the Southern Province, aggregating to about 8,000 hectares.

As per the company's HR objectives, MEL continues to prioritise staff engagement through regular interactive meetings, celebrating special days, and recognising the contributions of the employees in a bid to foster a positive work environment and connection amongst its staff. The focus on transparency and employee involvement continues to drive the company's growth and success.



NEW CATTLE DIP TANK - A GAME CHANGER FOR LIVESTOCK IN SINANKUMBI

Community members of Sinankumbi village and its neighbouring areas are eagerly anticipating the completion of a new dip tank currently under construction by Maamba Energy Limited. This essential infrastructure promises to transform livestock management and significantly enhance the quality of life for cattle owners in the area.

Headman Watson Sigabba, who has dedicated his life to Sinankumbi village, shared his optimism about the project. With a personal holding of 32 head, Headman Sigabba expressed how the dip tank will ease the burden of managing livestock health.

Livestock owners in this remote area presently travel as far as 40-kms to Sinakoba to access the closest facility offering such service or rely on spraying which is a less effective method. This inconvenience often results in inadequate treatment for their animals, leading to health issues and financial setbacks.

“Three quarters of our village couldn’t manage the long trips, so we resorted to buying chemicals and spraying, which was inadequate,” Headman Sigabba lamented.

The new dip tank, being built by MEL at a cost of USD 42,500 in centrally located Sinankumbi, will provide a convenient and effective solution for health management of around 5,000 livestock positively impacting around 6,000 cattle farmers belonging to 1444 households in 100 villages the region.

“We are immensely grateful to MEL for their support in constructing this dip



tank. This new facility will allow us to ensure our animals receive proper care, protecting them from ticks and diseases like babesiosis (red water) and cowdriosis (heart water),” he said.

Dip tank worth USD 42,500 built by MEL in Sinankumbi benefitting over 1,400 households in 100 villages.

The dip tank is not only a boon for livestock owners, but also served as a catalyst for community employment. While some of the construction workers came from outside villages like Sialozo and Kajonja, a considerable number of workers were local residents, thus creating job opportunities and fostering a sense of ownership for this facility among the community.

As the project nears completion, the community is preparing to take over the facility.

“We are committed to taking good care of the dip tank and will work together with the local government and local vets to ensure its effective operation,” Headman Sigabba assured. Meanwhile, Maamba Development Trust Manager Mr. Jethro Sikalunda highlighted that MEL is constructing another similar dip tank for the community in consultation with the veterinary department at the District.

Mr. Jethro emphasised the critical role of dip tanks for rural communities dependent on cattle farming, “Dip tanks are essential for controlling external parasites and preventing diseases that can devastate livestock. They facilitate early disease detection and treatment and help reduce economic losses for farmers.” he explained.

For Headman Sigabba and the residents of Sinankumbi village, the new dip tank is a symbol of hope and progress, promising a brighter future for health of their livestock and their livelihoods.



INTER-SCHOOLS GAMES KICK OFF



MEL run Maamba Private School hosts regional 2024 Inter-Schools Competition



Maamba Private School, which is run and supported by MEL, had the distinction of hosting this year's inter-school's competition, an event that displayed the athletic prowess and sportsmanship of students from various schools in the region. The event was divided into two key segments - athletics, which took place from 8-9 June, and handball held from 3-4 July.

The school's athletes performed creditably, securing a solid third-place finish in the athletics events. In the handball tourney, the school junior team demonstrated their potential, placing third, while the senior team secured a respectable fourth place.

Maamba Private School has been actively participating in various inter-

school' programmes for the past three years. During this period, the school has consistently fielded participants who have gone on to represent the institution at zonal, district, and provincial levels in various sports disciplines. This sustained involvement in competitive sports underscores its commitment to fostering a holistic educational experience.

Sports Master of Maamba Private School Mwiinga Hamazongo expressed pride in the students' achievements, "Our children have the potential to excel in sport," he remarked, highlighting the growing recognition among parents of the value of sports as an integral part of education. He noted that several students from the school have already had opportunities to go abroad through their sporting talents, further validating the importance of this aspect of their education.

The Maamba Private School sports programme is supported by MEL in its endeavour to excel in sports. The Sports Master Hamazongo believes that, seeing the availability of talent, Maamba Private School could produce the next generation sports stars for Zambia.

"The next Muzala Samukonga could come from Maamba," he stated confidently. "If everyone works together, we can develop sport in the school to its fullest potential."

As Maamba Private School, which is run by MEL, continues to cultivate both academic and athletic excellence, it stands as an example of what can be achieved when education is approached in a holistic manner to develop well-rounded students who excel both in classrooms and on sports fields.

MAAMBA ENERGY HIRES SEVEN TRAINEE ENGINEERS AFTER COMPLETION OF TRAINING PERIOD

Maamba Energy recently hired seven of its Graduate Trainee Engineers (GETs) following an intensive year at its innovative graduate training programme. Designed to attract the brightest engineering minds from CBU and UNZA, the programme selected eight promising individuals to undergo the programme - three mining, one civil, two electrical and two mechanical engineers. The aim was to train a fresh batch of mining engineers, inject fresh perspectives and innovation into the company's operations while ensuring smooth transition and effective knowledge transfer.

The programme, tailored specifically to MEL operations, is a one-year intensive experience that ensures participants rotate through various engineering departments for the first six months. During this period, the trainees gain exposure to all engineering fields - mechanical, civil, mining, electrical, IT (Information Technology) as well as the laboratory, enriching their knowledge and giving a better understanding of the company's multifaceted operations. After this initial phase, the trainees are attached to departments based on respective specialisations for the remaining six months of the programme.

Throughout the programme, each phase requires participants to sit for graded assessments, ensuring they develop the skills necessary to contribute meaningfully to the company. The success of the programme was evident when MEL decided to rehire seven of the eight trainees, one trainee having received a scholarship and opting to pursue her higher education in India.

Taonga Chipeta, an Electrical and Electronics Engineering graduate, now works as an Assistant Reliability and Conditional Monitoring Engineer at MEL. Reflecting on her experience, Chipeta remarked, "The programme boosted my confidence and provided a strong foundation for my career. It's an excellent start, and I'm grateful for the opportunity to apply my knowledge in such a dynamic environment."



Meanwhile, Humphrey Mbaio, a Mining Engineering graduate, has taken on the role of Shift Boss. "The programme has helped me appreciate the collaborative efforts across different departments, all working together to drive the core business forward," Mbaio said.

Venecious Mulenga, the Mine Electrical Engineer and one of the programme supervisors, played a key role in integrating the graduates into the company. "Our goal was to help integrate the graduates into the company by identifying and nurturing their talents. The two positions in the electrical department where they were placed—reliability and continuous improvement, and protection engineer—require the knowledge, experience, and understanding they have gained. It's a

critical programme for our operations, and they are bringing in marvellous ideas." The Head of Mining Operations, Mr. Scott Phiri stated, "This initiative is vital for the future of Maamba Energy. By bringing in young, talented engineers, we are not only building the company but ensuring its longevity through fresh blood with new ideas and continuous innovation."

Maamba Energy's graduate trainee programme has proven to be a resounding success and a win-win for both parties - providing participants with invaluable experience and the company with a fresh influx of ideas and energy. As the programme evolves, it promises to continue shaping the future of Maamba Energy and building a pool of national engineers for Zambia.



RESTORING WASTE DUMPS TO FRUIT ORCHARDS



Restoring land used after mining activity and rendering it arable for future use is critical in mining operations, for ensuring environmental sustainability and community well-being. In line with this operating philosophy, Maamba Energy has continued its transformative initiatives to turn former waste dumps into thriving fruit orchards. This latest innovative project not only rehabilitates waste land rendered unusable after mining activity, but also pro-actively engages the local community in the restoration process, creating new opportunities for employment and ensuring environmental stewardship.

As part of the restoration effort, various fruit trees, including a local fruit called 'masau' (ziziphus mauritiana) as well as blueberries, tamarind, guavas, custard apple, Indian gooseberry and mango trees have been planted in the rehabilitated areas. The community has been actively involved in this project, with locals hired to water the saplings

and apply fertilisers. This engagement not only fosters a sense of ownership but also provides much-needed jobs in the area, contributing to the overall wellbeing of the community.

A key element of this initiative is the use of recycled fly ash, a byproduct of Maamba Energy's power generation process, to enhance soil quality. The fly ash, which is alkaline in nature, plays a crucial role in regulating soil acidity, creating a more conducive environment for the fruit trees to flourish. This innovative use of industrial byproducts highlights MEL dedication to finding sustainable solutions to environmental challenges.

"This project showcases our commitment to responsible and sustainable mining and power plant operations," said Joshua Shalanga, an Assistant in the Environmental Department, which oversees the restoration project.

"By transforming waste dumps into productive orchards, we are not only rehabilitating mined out areas, but

also creating sustainable employment opportunity for the local community. This initiative aligns with our goals to reduce environmental impact while fostering economic opportunities for the community."

The transformation of these waste dumps into orchards is more than just an environmental success story - it ensures MEL alignment with Environmental, Social, and Governance (ESG) goals. By rehabilitating degraded land, promoting sustainable agriculture, and engaging the community, Maamba Energy is directly contributing to UN Sustainable Development Goals - SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), and SDG 15 (Life on Land).

For the community, this project represents a significant shift towards increased sustainability. The orchards provide a long-term, renewable source of food and income, fostering economic resilience. Environmentally, the initiative reduces the company's operational environmental footprint, helping restore local biodiversity and improving soil health.

"The potential impact of this project is immense," added Mr. Yotham Phiri, the Head of MEL's SHEQ department, "We are not just planting trees, we are planting seeds for the future. The benefits of this initiative will be felt for generations to come, as we continue to develop and refine our approach to sustainable land use and community engagement."

Maamba Energy's initiative demonstrates that responsible operational practices and community development can go hand in hand. As the fruit orchards begin to bear fruit, they symbolise a promising future where environmental restoration and economic empowerment coexist, benefiting both the community and the land for future generations.



MEL'S BEAT PLASTIC CAMPAIGN – EMPOWERING COMMUNITY CHILDREN FOR A SUSTAINABLE FUTURE

Plastic pollution is one of the most pressing environmental challenges of our time. Each year, millions of tons of plastic waste end up in landfills, oceans, and communities, causing severe harm to wildlife, ecosystems, and human health. In the Maamba township, this problem has become increasingly evident, prompting MEL to launch the Beat Plastic campaign, an initiative aimed at reducing plastic waste and encouraging environmental responsibility among the local school children.

In July, Maamba Energy reached out to the office of the Secretary, District Education Board to request and coordinate the involvement of local schools in its campaign. Four schools, namely, Maamba Secondary School, Maamba Special School, Mayanda Primary School, and Maamba Private School - enthusiastically joined the effort, with 50 pupils from each school participating in the campaign. During the campaign, students took part in a walkabout around the township, collecting plastic waste and through

banners, spreading awareness about the dangers of pollution and the importance of proper waste disposal.

“The enthusiasm of the young kids was infectious. They were excited to apply what they have learned in school about curbing pollution and the importance of not littering,” said a campaign coordinator and Environmental Officer at Maamba Energy, Joshua Shalanga.

The campaign organisers recognise that the fight against plastic pollution requires sustained efforts. Future plans include transitioning the campaign from an annual occasion to a quarterly event, expanding its reach to schools beyond Maamba town. This will not only deepen the impact locally but also spread the message to a wider audience.

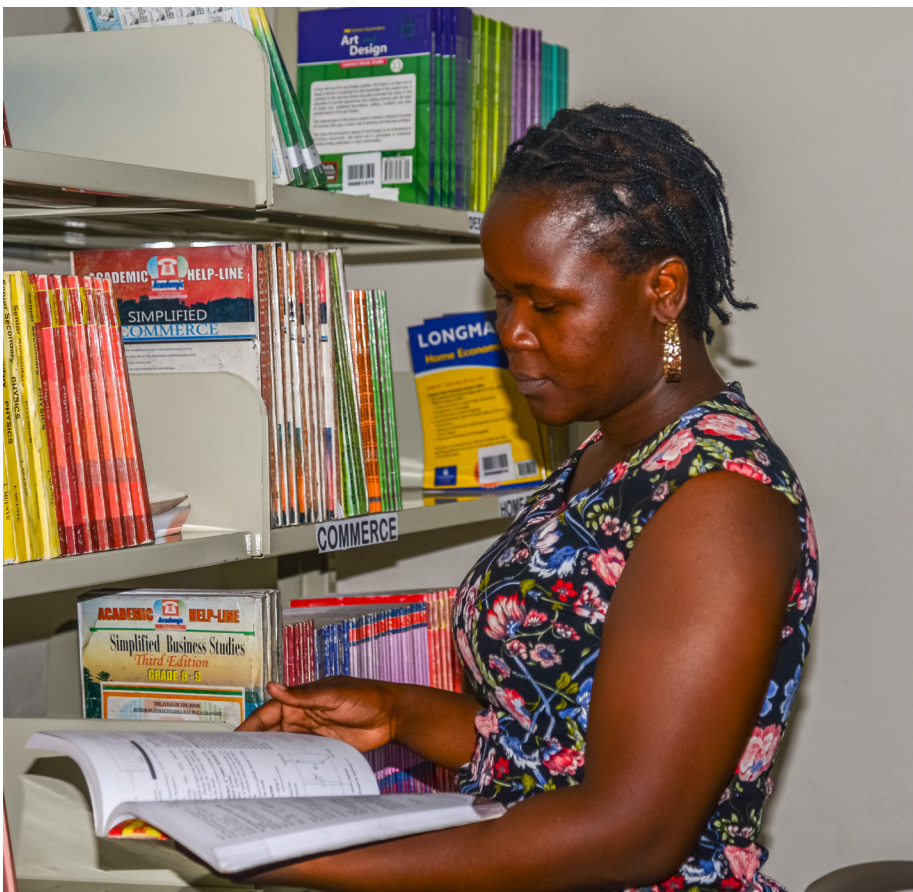
“Our intention is to share this message with the community so that it leads to a behavioural change. The children are the future, and it is best to instil these values in them now. We believe that by regularly engaging the community and educating

more students, we can create a ripple effect that will significantly reduce plastic waste in our area,” added Mr. Shalanga.

Within the company, the Beat Plastic campaign is also pushing for significant changes. A key initiative is the implementation of supplying reusable bottles to staff members to reduce the use of single-use plastic bottled water at the plant. “Keeping Maamba green starts from within,” Mr. Shalanga emphasised, highlighting the need for corporate responsibility in environmental initiatives.

The Beat Plastic campaign reflects the awareness of the need for adopting sustainable practices, within the company and community. By engaging the youth and fostering a culture of environmental responsibility, Maamba Energy is taking a proactive approach to addressing one of the most critical environmental issues of our time. This initiative not only benefits the local environment but also empowers today's youth to build a more sustainable future for future generations.

TRANSFORMATIVE POWER OF MAAMBA COMMUNITY LIBRARY



Community libraries are vibrant hubs of learning, creativity, and growth. In places like Maamba, where access to educational resources is limited, a community library can make a significant difference in shaping the future of its residents. The Maamba Energy funded community library provides essential resources and a safe space for students, young children, and even adults seeking knowledge and self-improvement.

Esther Nayame, the librarian at the MEL Community Library explained that during a typical school term, the library sees up to 700 visitors daily, primarily students and pupils who rely on its vast collection of textbooks and reference materials. On busy days, this number sometimes doubles!

Anthony Hiba Phiri, a recent high school graduate, credits the MEL run library for his academic success. "I started coming to the library a lot from the first term of grade 12 because I didn't have enough notes." Anthony recalls.

His efforts paid off resulting in significantly improved grades in his mock exams and he excelled in his final exams achieving an impressive 9 points, "The library helped me improve in subjects like biology, where I used to struggle. I even got a distinction in my finals," he shared proudly. Anthony now hopes to pursue studies in civil engineering, geomatics, or computer science at the University of Zambia.

Meanwhile, Lafeti Mweemba, a grade 12 student of one of the schools in Maamba, also appreciates the confidence the library's role has instilled in him, "If there is something I do not understand, I can come here and read the book again for clarity. Reading it myself helps me understand it better." Confident in the resources available to him, Lafeti is more optimistic about his upcoming final exams, knowing that the library has empowered him with access to the material resource he needs to succeed.



The library is both a haven for students and a crucial resource during school holidays. Younger children flock to read storybooks and engage in creative activities, and the library serves to nurture literacy and imagination amongst the younger kids. According to Ms. Nayame, the Tortoise and the Hare remains a favourite among young readers – the timeless tale and its moral capturing their attention.

To accommodate the growing number of visitors during the holidays, the librarians are exploring new initiatives. One idea is to host movie nights featuring film adaptations of books from their collection, such as Shaka Zulu or Animal Farm. This initiative aims to bring stories to life and offer the community a glimpse into the world they are reading about. Another promising idea being considered is the formation of a book club, designed to foster creative imagination, expression, and group discussions among participants.

The Maamba Energy Community Library has ambitious plans to expand its offerings. These include the addition of a discussion shelter, a dedicated study area, and an ICT section with internet access. Such facilities would not only support students but also cater to adults, such as marketeers, who frequent the library to consult business books but are currently unable to borrow them. This expansion could significantly boost entrepreneurship and economic growth by providing access to valuable knowledge and resources.



Moreover, the library is committed to preserving the culture and heritage of Maamba. Plans are underway to establish an art corner, displaying artifacts and other cultural items for posterity. This initiative will ensure that the rich history of Maamba is passed down to future generations, further solidifying the library's role as a cornerstone of the community.

"The library has been incredibly well-received by the community," said Esther Nayame. "Instead of spending their time idling away in front of the nearest available screen, children are increasingly coming in to read. The library has helped students

immensely, with the just graduated grade 12 class commending the timing of its opening at just the right time, to help them better prepare for their finals."

By providing a space for learning, creativity, and community engagement, the library is helping to build a brighter future for Maamba's residents, one book at a time and in keeping with MEL CSR motto **...Making a Difference!**

ISAAC MATE, A MAAMBA PRIVATE SCHOOL STUDENT, WINS NATIONAL JETS COMPETITION



ISAAC MATE PROUDLY REPRESENTING MEL RUN MAAMBA PRIVATE SCHOOL



Investing in education is the cornerstone of building a brighter future, and Maamba Private School (run by MEL) is nurturing young talent, particularly in the fields of Science, Technology, Engineering, and Mathematics (STEM).

MEL is proud of 12-year-old Isaac Mate a grade 7 student of Maamba Private School, who recently secured 1st place nationally in the Primary Quiz category at the Junior Engineers, Technicians, and Scientists (JETS) Fair, held at the National Science Centre in Lusaka. He represented 'Southern Province B' team in the National championships.

Isaac's journey to this impressive accomplishment began within the walls of the school. Initially competing in mathematics, science, and CTS (Creative and Technology Studies), Isaac distinguished himself by winning first place in mathematics at his school to move on to the zonal level, where he outperformed students from seven other schools to claim another first-place finish in mathematics.

Isaac's acumen extended beyond the classroom as he participated in both Olympiads and quizzes, displaying his aptitude for STEM subjects. His performance at the provincial level was particularly noteworthy. Isaac was selected to be part of the team representing Southern Province at the national competition. Once again, he proved his mettle, securing first place in the province and finishing 2nd nationally, after competing against top students from across the country.

Oscar Himunungu, Isaac's teacher, has been a key figure in nurturing his talent. "Isaac is a very smart student and always quick to finish his tasks. He is eager to learn new things, and that curiosity is what drives him to excel," said Oscar.

Teachers at Maamba Private School are committed to identifying bright students



like Isaac and encouraging them to push the boundaries of their knowledge. This approach has created an environment where students are motivated to pursue excellence in their studies, particularly in challenging subjects like mathematics and science.

Isaac's victory at the JETS Fair was not just a personal triumph but also a testament to the school's supportive and enabling learning environment. Reflecting on his achievement, Isaac shared, "It felt good winning the competition since the questions were hectic. There was one question that gave us problems; I had the answer in my head, but I was doubting

myself. When I finally said it, it made us win the competition. We were excited, and when we came back, we celebrated with our friends. It is good for us kids to take part in this competition because it helps you learn more. I learned more in CTS and science that I ever knew before taking part."

Isaac's success has inspired the school to further cultivate an interest in STEM subjects among its students. Encouraged by Isaac's achievements, Maamba Private School is now grooming other students to take an interest in STEM as early as grade 5. One of the initiatives launched by the school is a mathematics club,

where students meet twice a week to solve equations and discuss mathematical concepts. This club aims to foster a deeper understanding of mathematics and prepare students for future competitions and academic challenges.

The school's efforts are a clear indication of the importance of investing in education and the difference it can make in a child's life. By providing students with opportunities to explore and excel in STEM subjects, Maamba Private School is not only preparing them for academic success but also equipping them with the skills and knowledge needed to thrive in an increasingly technological world.

MEL'S ANNUAL CHESS CHAMPIONSHIP



Suncrest's Mubita(2nd from left)
Crowned Chess Champion

In July, MEL held its annual chess tournament that brought together 28 participants from its various partners and contractors, including Maamba Energy Limited, Nava Energy Zambia Limited, SMECH, and Suncrest Engineering Ltd. The tournament was marked by fierce competition, strategic gameplay, and a shared spirit of sportsmanship off the chess board.

The Chief Guest Mr. Shripad Rotkar, Head of Operations & Maintenance of the Thermal Power Plant and an ardent chess fan himself, set the tone for the tournament by emphasising the importance of unity and sportsmanship, reminding everyone that each participant is a winner and wishing participants the best of luck for the tournament.

After several rounds of challenging matches, Mr. Emmanuel Mubita of Suncrest emerged as the tournament champion in a well-deserved victory that highlighted his exceptional skill, patience, and unwavering focus. A close second was Mr. Edward Kayawe of SMECH, who played steady chess throughout the tournament. Mr. Charles Mwafulirwa, also from SMECH, claimed third place, finishing as one of the



top contenders with his use of sacrificial tactics.

MEL offers congratulations to all players for their commendable performances. The Chief Guest thanked all the participants for their enthusiasm and commitment

to this year's event. "The tournament was a success, thanks to the dedication of all participants and the support of the organisers. We look forward to future events that continue to promote unity and excellence within our community," Mr. Rotkar said.

WILDLIFE CONSERVATION EFFORTS AT MAAMBA

As part of our ongoing commitment to ecological conservation, Maamba Energy Limited in collaboration with the Department of National Parks and Wildlife (DNPW) and local veterinary services, has rolled out several initiatives to protect wildlife at its game ranch located at the Maamba Golf Club, as well as surrounding areas. The recent outbreak of anthrax, a deadly disease, in the district has necessitated these urgent efforts.

“We are prioritising animal health through targeted programs like ecological assessments, testing of water and animal droppings as well periodical deworming. We currently have not had any reports of anthrax among our animals, but continuing efforts are critical for prophylactic protection of our wildlife, especially with the recent cases of anthrax in Southern Province,” said MEL Chief Security Officer Henry Chaile.

Over the years, MEL’s game ranch, near the golf course, has become a hub for wildlife education and conservation. The local community, especially schoolchildren, has benefited from viewing and enjoying the animals, gaining a deeper appreciation for biodiversity and its vital role in the environment.

“Wildlife conservation is about protecting animals as much as educating the community. Our work at the game ranch helps residents engage with nature and understand the delicate balance of our ecosystems,” Mr. Chaile added.

Through its conservation initiatives and by strict implementation of expert recommendations, the company is helping maintain the ecosystems surrounding the golf course, further boosting Maamba’s biodiversity and setting an example of sustainable wildlife management that benefits both the environment and the community.



MAAMBA PRIVATE SCHOOL STUDENTS VISIT LIVINGSTONE



Students of Grade 7 and 9 from MEL run Maamba Private School undertook an educational tour to Livingstone from 23rd to 28th August 2024. The tour was undertaken to help make teaching come alive by connecting lessons done in class to the real world and help better understanding of classroom lessons. It was also an opportunity for the learners to explore life beyond the school gates and create lifelong memories.

During the trip, the learners visited Mosi oa Tunya also known as Victoria Falls, one of the seven natural wonders of the world; they appreciated the natural beauty of Zambia, saw the mighty Zambezi and had the opportunity to view the African Big Five. They also got to appreciate the traditional culture of the region during a visit to Chief Mukuni's Palace and village. The visit to the airport at Livingstone offered many the opportunity to understand the workings

of an airport and understand the different instruments used to record and measure meteorology parameters. The group then visited the museum at Livingstone with the view of acquainting the learners with the historical background of the country and Livingstone town. Learners were also encouraged to learn how to budget their pocket money.

The learners had a unique opportunity to interact with some Zimbabweans and tourists from other countries, which presented them with the experience of different cultures.

On the last day of the trip, the learners were given an opportunity to shop in one of the malls in the tourist town of Livingstone. The trip was a great success for the learners who visited seven sites and had fun while bonding with classmates and learning at the same time.





ELEPHANTS XI TRIUMPH IN THE 2024 NAVA ENERGY CRICKET FINALS

The 2024 Nava Energy Cricket Cup, a highlight in the annual sports calendar of the company took place on the 26th of May 2024. It featured five teams – the Lions, Elephants, Rhinos, Panthers and Tigers XIs – each showcasing their cricketing prowess in a series of thrilling league matches leading up to the much-anticipated final.

In the league stages, each team played four matches, battling fiercely to secure a spot in the final. The Elephants XI, under their captain's astute leadership, dominated the games, securing three victories in their league matches. They started strong with a 9-wicket victory against Lions XI, where they chased down 96 runs in just 13 overs, losing only one wicket. They continued their winning streak against Rhinos XI, where they posted a formidable total of 151/6 in 16 overs, successfully defending it by restricting Rhinos XI to 137/4.

Meanwhile, the Tigers XI also proved to be a formidable opponent. In their league match against Rhinos XI, they chased down a modest target of 85 with ease, losing just one wicket in 10 overs. This 9-wicket victory set the stage for the final showdown against Elephants XI.

The finals between Elephants XI and Tigers XI was a nail-biting encounter. Elephants XI, batting first, posted a competitive total of 110/5 in their allotted 16 overs. Their disciplined batting and strategic shot selection kept the scoreboard ticking, setting a challenging target for Tigers XI. In response, Tigers XI struggled against the consistent bowling attack of Elephants XI, managing only 85 runs for the loss of 9 wickets in their allotted overs. The Elephants XI finally clinched the 2024 Energy Cup with a 25-run victory at the end of the game.

Maamba Energy Limited extends its congratulations to Elephants XI for their victory and to all the participating teams for their sportsmanship and spirit in making the 2024 Nava Energy Cricket Cup a memorable event. We look forward to more such exciting tournaments in the future, bringing our community closer through sports.



Picture Stories

Phase II Signing Ceremonies



Lenders for Phase II visit MEL



Labour Day Celebrations



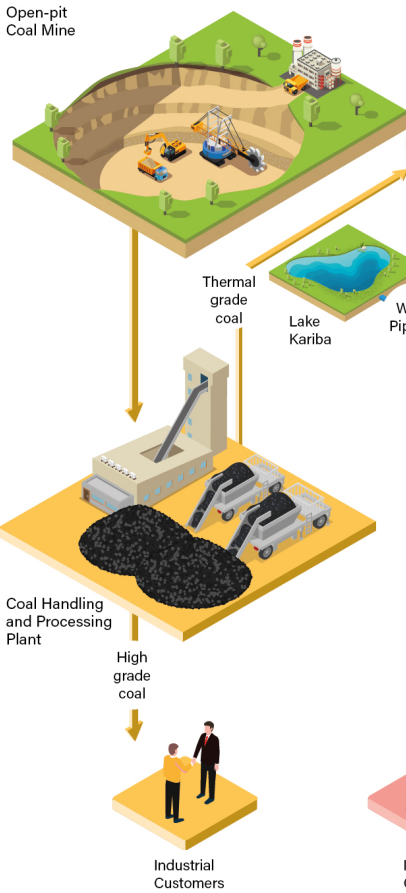
World Environment Day



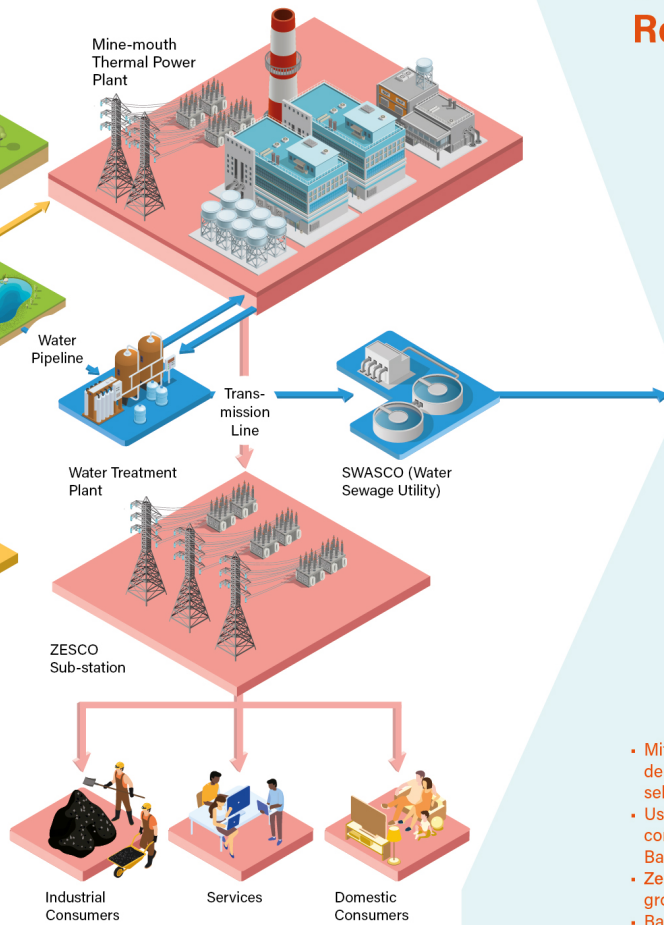
Africa Freedom Day Celebrations



Coal Mining



Thermal Power
Installed Capacity 300 MW



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.



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