



Etango

Namibia's Leading Renewable Energy & Green Hydrogen
Magazine

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NAMIBIA ENERGY COMPACT UNVEILED



**ECB REVISES TARIFF
METHODOLOGY AND NET
METERING RULES**



**NAMPOWER MOVES
TO ADD 120 MW SOLAR
GENERATION**



**SOLARCENTURY'S 19.3 MW
MERCHANT SOLAR PLANT
COMES INTO OPERATION**



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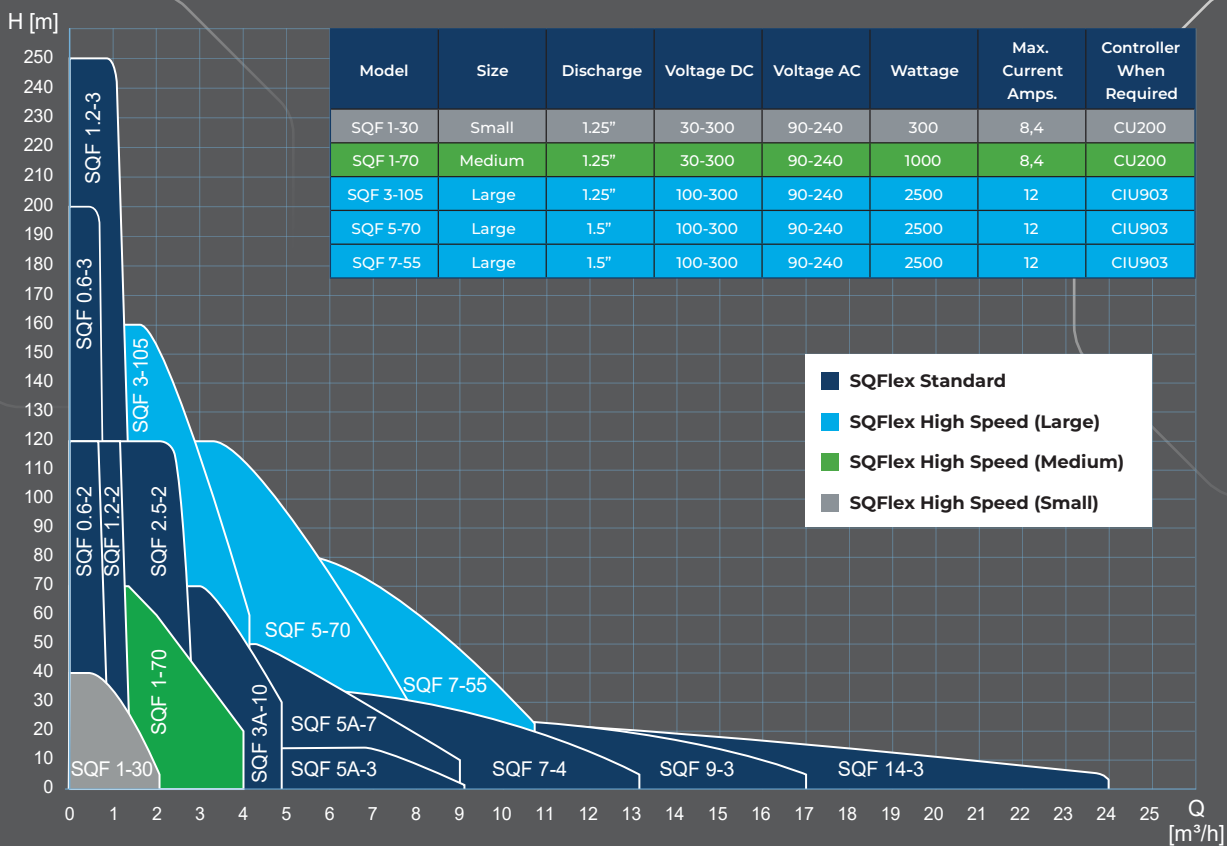
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Cohesive Regulations A Game Changer

For nearly two decades, Namibia's electricity sector has operated under a regulatory framework that remained largely frozen in time.

The Electricity Control Board can be commended for overhauling its Economic Rules, Net Metering Rules, and Tariff Methodology, as well as simplifying licenses for small power producers.

Effective regulation must function less like a monument and more like a living organism. By initiating a comprehensive review of its regulations the ECB is addressing a critical truth: stagnant rules are the greatest enemy of progress.

The energy landscape has shifted from centralized fossil fuels to a decentralised era of renewables and "prosumers." When regulations fail to keep pace with technology, they cease to be safeguards and begin to act as handbrakes on economic growth.

The ECB is ensuring that the foundational pillars of the energy industry are strong enough to support the weight of future ambitions.

The most significant shift is the move toward a Multi-Year Pricing (MYP) framework. By setting

revenue requirements for five-year cycles rather than reacting year-by-year, the ECB is providing something the industry craves: predictability.

The new "cost-plus-return" model is linked directly to performance. If a utility provider wants to recover costs, they must prove they are delivering high-quality, reliable service. This creates a powerful incentive for licensees to trim the fat and invest in infrastructure that actually works for the consumer.

The modernisation of Net Metering regulations could encourage growth in the solar sector. The revised rules formalise the process of "banking" electricity—allowing residential and commercial users to feed excess solar power into the grid during the day and offset their bills at night.

Cutting the Red Tape

Innovation often dies in the face of bureaucracy. Recognising this, the ECB is also simplifying licenses for small power producers (up to 2MW) and pilot projects like green hydrogen.

By streamlining approval processes and removing administrative bottlenecks, Namibia is signaling to investors that we are open for business and

ready for emerging technologies.

The ECB's goal is a delicate balancing act: keeping the lights on (technical sustainability), ensuring companies don't go bust (financial viability), and keeping prices fair (affordability).

Critics might worry that "cost-reflective" tariffs sound like a code word for price hikes. However, by linking these costs to a Performance Management Framework, the revised rules will ensure that we only pay for excellence, not for inefficiency.

These new rules represent a bold step toward energy independence. It is now up to the stakeholders to validate these rules and ensure they are implemented with the transparency and vigor our economy requires.

Read more about the ECB's proposed regulatory adjustments inside this edition of Etango.

Happy Reading!

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COVER PICTURE

ENHANCING ENERGY ACCESS: Namibia has unveiled its National Energy Compact, which serves as a strategic framework to foster partnerships crucial for achieving its ambitious electrification goals. The framework aligns with Namibia's Sixth National Development Plan (NDP6), which targets connecting 200,000 households, and the National Integrated Resource Plan (NIRP), which seeks to achieve 80% electricity self-sufficiency and 70% renewable energy penetration.



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VALIDATION: Electricity Supply Industry stakeholders during the final engagement to scrutinise and validate the integrated drafts to ensure that they are robust, practical, and aligned with the ESI's shared vision.

ECB Revises Tariff Methodology, Economic Rules, and Net Metering Regulatory Tools

The Electricity Control Board of Namibia (ECB) is finalising a comprehensive review of the Economic Rules, Net Metering Rules, and the Tariff Methodology for generation, transmission, and distribution.

This follows widespread stakeholder consultations that started in 2023. The final stakeholder validation engagement was held in Windhoek on 9 February. Key stakeholders in the Namibian Electricity Supply Industry (ESI) who were consulted in the review process include the Ministry of Industries, Mines and Energy, NamPower, Regional Electricity Distributors (REDs), Independent Power Producers (IPPs), and industry associations such as the Renewable Energy Industry Association of Namibia (REIAoN).

ECB Chief Executive Officer Robert Kahimise described the regulations as the foundational pillars for Namibia's electricity sector's future. He said there was a need for Namibia to have a cohesive regulatory framework designed to address both immediate challenges and long-term ambitions of the energy sector.



The ECB enforces economic rules to ensure efficient, sustainable electricity provision, covering tariffs, licensing, and market regulations. Key pillars include cost-reflective tariffs, financial viability for licensees, and protecting consumer interests. These rules, mandated by the Electricity Act (2007), facilitate a competitive, transparent industry.

UNCHANGED FOR 20 YEARS

“The need for this integrated review is clear: The Tariff Methodology, largely unchanged for nearly 20 years, requires modernisation to drive efficiency. We must move towards a structured, transparent, and performance based system including multi-year pricing to incentivise real operational improvements, ensure vital network investment, and manage costs effectively within our evolving market structure,” said Kahimise.



ECB CEO Robert Kahimise

The proposed Tariff Methodology for the Namibian ESI is a cost-plus-return methodology implemented on a performance-linked Multi-Year Platform (MYP).

The Tariff Methodology's MYP framework is a revenue requirement multi-year framework, i.e. allowed revenue requirement per licence is determined in the MYP for up to five years. The annual tariff review process is limited to adjusting the pre-determined revenue requirement for agreed external and internal parameter variations and using this adjusted allowed revenue to determine the tariff rates and proposed revenue for the year under review. Detailed tariffs are not determined for future years. The overall tariff path is forecasted in the MYP model for the MYP timeframe, based on forecasted sales volumes and costs.

The multi-year cycle is proposed to be five years, however at least the first cycle is to be reviewed after no more than three years.

The Tariff Methodology is strictly licence-based, implying that revenue requirements are determined on a MYP basis per license, and then aggregated or passed through to further licensees or structures to determine end-consumer tariffs.

Revenue reconciliation is an integral part of the tariff methodology throughout the value chain, tied into the tariff review process.

PERFORMANCE DRIVERS

The Tariff Methodology is linked to the Performance Management System through the Performance Management Framework (PMF) assessment result determining the portion of discretionary cost pass-through allowed in the revenue reconciliation process for licensees. The performance drivers used in the tariff methodology also align with the PMF, however, operate at a different focus than provided for in the PMF.

The determination of tariff charges is lightly regulated by providing guidance on

the allocation of approved costs and the formulation thereof in individual charges for connection categories. Licensees have flexibility to propose their tariffs within this framework as is appropriate for their customer base.

The update and review of the Economic Rules, Net Metering Rules, and Tariff Methodology was guided by four key principles:

- Ensuring financial and technical sustainability of the ESI
- Ensuring affordability of electricity for social and economic development
- Linking tariffs to efficient, reliable, and high-quality service delivery, and
- Upholding a fair, transparent, and predictable regulatory process.

In addition, the Economic Rules aim to establish the overarching framework for a competitive, efficient, and sustainable electricity industry. They seek to balance cost-reflective tariffs that ensure licensee viability with the imperative of affordability and consumer protection.

Net Metering Rules introduce complementary objectives to empower consumers through self-generation and reduce grid reliance, promote renewables, and deliver socio-economic benefits.

Net metering is a process that allows residential and commercial customers who generate their own electricity from solar power to ‘bank’ or ‘store’ their electricity in times of overproduction in the distribution grid (e.g. for solar energy during peak production in the day), and to balance out their grid consumption with the banked or stored electricity during times when their systems are not producing (i.e. during evening hours), thus netting their consumption from the grid with their own production.

NOT EXCEED 500 KVA

Under the new rules, the installed generation capacity of each net metered facility must not exceed the main electricity supply circuit breaker current rating converted to the kVA of the facility and shall not exceed 500 kVA.

“Small renewable in-feed customer” describes small-scale in-feed generator that generates electricity from renewable energy sources and for the purposes of these rules is limited to a generating capacity 13.8 kVA for single phase connection at the standard low voltage in the licensed area of a distribution licensee.

“Third-party ownership” means a model for financing and operating a net metered facility where the legal owner of the facility is an entity separate from the customer that consumes the generated electricity, and is used to enable the customer to access renewable energy without direct capital investment, system maintenance, or ownership responsibilities.

All renewable energy technologies may be used for Net Metering purposes, including but not limited to facilities for the production of electrical energy that uses solar, wind, water, geothermal, biomass, biogas, biofuel, or fuel cell resources. All distribution consumers are allowed to install net metered facilities at their own cost subject to the Act, the new rules and other rules, regulations code, and standards under the Act.

The ECB maintains that together, these instruments form a coherent strategy to steer Namibia's ESI toward greater resilience, sustainability, and fairness for all stakeholders.

In this regard, Kahimise said it was imperative for the key stakeholders to scrutinise and validate the integrated drafts, to ensure that they were robust, practical, and aligned with our shared vision.



Namibia Seeks to Cut Power Imports Through Recently Unveiled National Energy Compact

Namibia recently launched its National Energy Compact, which serves as a strategic framework and formalises the country's participation in Mission 300, a World Bank Group and African Development Bank-led initiative to expand electricity access to 300 million people across sub-Saharan Africa by 2030.

The Compact was developed through extensive engagements and consultations with various stakeholders, including development partners, private sector, and civil society, to foster partnerships crucial for achieving its ambitious goals.

The framework aligns with Namibia's Sixth National Development Plan (NDP6), which targets connecting 200,000 households, and the National Integrated Resource Plan (NIRP), which seeks to achieve 80% electricity self-sufficiency and 70% renewable energy penetration.

Government has undertaken to ensure that all citizens have access to reliable, affordable, sustainable, inclusive, and clean energy. The Compact serves as a strategic framework to accelerate progress towards achieving universal energy access by 2040.

Meeting the targets of the Compact is estimated to cost US\$1.76 billion (N\$27.2 billion), with US\$411 million (N\$6.5 billion) expected to be mobilised from the private sector. The remaining funding needed is estimated at US\$1.05 billion (16.8 billion) out of which US\$255 million (N\$4.08 billion) is already expected from the private sector through commitments.

HIGHEST TARIFFS

As of 2023, Namibia has made commendable strides, increasing overall electricity access to 59.5%. However, significant challenges remain in achieving universal access. Due to cost-reflective tariffs, Namibia has one of the

highest electricity tariffs in Africa, making affordability a crucial barrier to overcome for scaling up electrification efforts.

Government is determined to reach a 70% electrification rate and improve clean cooking access to 61% by 2030. With over 50% of households still dependent on traditional fuels and technologies for cooking, there is a pressing need for advancements in access to clean cooking and electrification solutions.

The Compact unveiled by the Minister of Industries, Mines and Energy, Modestus Amutse, outlines actionable commitments to address these challenges and achieve transformative energy outcomes.

The country is committed to enhancing the share of renewable energy in its generation mix from the current 54% to 70% by 2030. Achieving this goal will require the addition of 454 megawatts (MW) of new installed generation capacity from solar, wind, hydro, and biomass.



ENERGY FOR ALL: Namibia's recently launched National Energy Compact serves as a strategic framework to accelerate progress towards achieving universal energy access by 2040.

The government is mobilising significant public and private sector financing by continuing to create a favorable investment climate, strengthening local stakeholder interactions and capacities through training, and establishing robust data collection systems for informed energy planning and decision-making.

The Compact emphasises regional integration and the vital role of private sector participation in achieving the energy objectives.

STAKEHOLDER CONSULTATIONS

Amutse emphasised that the Compact was prepared following targeted bilateral engagements with key stakeholders across the Namibia energy value chain.

"In particular we engaged our national power utility NamPower because generation, transmission and system stability remain central to Namibia's energy future. NamPower's role in long term planning, grid expansion and regional power trade is critical as we seek to strengthen security of supply and reduce our reliance on imports," he said.

"We also engaged our electricity distributors who are at the frontline of the access agenda. These include the four Regional Electricity Distributors – CENORED, NORED, Erongo RED and SORED, as well as the City of Windhoek and the Oshakati Premier Electric Utility. Each plays a vital role in connecting household's, schools, clinics and enterprises. Their practical experience informed the Compact's focus on affordability, rollout, constraints, and implementation realities. We engaged the private sector including through the Renewable Energy Industries Association of Namibia (REIAoN), recognising that private investment innovation and efficiency are indispensable where projects are commercially viable," said Amutse.

Civil society organisations, especially those focusing on the socio-economic impacts of electrification, including gender inclusion youth employment skills development and community empowerment, were also consulted.

FOCUS ON ACCESS

"This Compact is a Namibian document. It was shaped by Namibian institutions, informed by Namibian realities and aligned to Namibia's development

priorities. It was subjected to rigorous national governance processes. The Compact was reviewed by the Cabinet and by Cabinet Committees, to ensure alignment with our national priorities and our developmental mandate," the Minister assured.

Amutse said the Compact recognises the full energy value chain and the interdependence between access supply and infrastructure. He said Namibia was focusing on access, because access matters, but was also aware that enhanced access leads to increased demand. And that demand must be met with reliable affordable and secure supply.

"Today, Namibia generates only about 40% of its own electricity. The remainder is imported. As Minister, I am not satisfied with that position. Energy security is economic, security, and we must change this trajectory. This means investing in generation but also addressing transmission bottlenecks. Unlocking transmission is not only good for Namibia, it is good for regional projects such as the Angola-Namibia (ANNA) and ZIZABONA (between Zimbabwe, Zambia, Botswana and Namibia) interconnectors which have the potential to strengthen regional power trade and integrate Southern Africa more effectively," said Amutse.

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BOOSTING LOCAL RENEWABLE GENERATION: Each 20 MW solar power plant will connect directly to NamPower's transmission system under a set of commercial agreements.

NamPower Moves to Add 120 MW Solar Generation

Unveils Plan for 45 MW / 90 MWh Battery Energy Storage

With its 100-megawatt (MW) solar photovoltaic (PV) Sores |Gaib Power Station near Rosh Pinah expected to be operational by June 2026, NamPower has moved to add another 120 MW of new solar capacity, consisting of six 20 MW projects, to be developed by Independent Power Producers (IPPs).

Six separate grid-connected solar PV projects, each with a capacity of 20 MW, will be implemented by IPPs on a build, own, and operate basis.

The initiative is aimed at boosting local renewable energy generation, reducing

reliance on imports, and enhancing grid stability. It is part of the government's 2024 Ministerial Determination and Namibia's Integrated Resource Plan (NIRP 2022), aimed at strengthening security of supply, reducing imports, and expanding least-cost renewable generation across the country. The plan aims to add at least 330 MW solar energy generation.

Each 20 MW solar power plant will connect directly to NamPower's transmission system under a set of commercial agreements, including a power purchase agreement and a transmission connection agreement. Developers must also fund their own grid-

connection applications and interconnection facilities.

NamPower's 120MW solar roll out will be coupled with plans for a 45 MW / 90 MWh battery energy storage system (BESS). The utility is procuring a Lithium-ion BESS, known as the Lithops BESS project, located near Swakopmund. Backed by World Bank financing, this project is a critical part of the Transmission Expansion and Energy Storage (TEES) program. It aims to strengthen grid stability, enhance reliability, and support renewable energy integration, with bids closing at the end of February 2026 and operations planned for 2028.

Namibia's renewable energy capacity currently stands at 168 MW of solar and the new initiative could significantly add to that capacity.

The NamPower bid for the 6 x 20 MW plants, which was open to international bidders, was initially slated to close at the end of January, 2026, but was extended to 20 February as bidders appealed for more time to get their documentation together. The evaluation process is now currently under way.

The solar project is expected to test developers on strict local ownership rules and a competitive scramble for land near eligible substations. Bidders must meet minimum Namibian ownership levels, including at least 39% total local shareholding and a mandatory 20% stake for previously disadvantaged Namibians in each project company.

Bidders were allowed to apply for more than one of the 20 MW power plants, but no single company will be awarded more than two plants.

However, the requirement for a bid security of N\$5 million that was needed for each lot has been criticised as prohibitive by Namibian solar companies.

Only companies meeting the full qualification criteria will advance to the technical and financial evaluation stages.

Developers are also expected to secure land and project sites within a 50-kilometre radius of eligible NamPower substations identified for grid integration. NamPower says the substations have been selected based on grid-capacity assessments and lowest integration cost.

Permitting and environmental approvals will lie with the bidders themselves.

The following regions and eligible substations (SS) have been identified;

1. Karas Region – Aussenkehr SS
2. Hardap Region – Naruchas SS
3. Oshikoto Region – Okatope SS
4. Otjozondjupa Region – Osona SS
5. Kavango East Region – Shiyambi SS
6. Zambezi Region – Zambezi SS

Bidders were required to demonstrate a proven utility-scale PV technology with a minimum operating track record and full compliance with Namibia's Grid Code.



NATIONAL COVERAGE: A map of predefined regions and eligible substations




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ON THE GRID: The N\$335 million Gerus solar plant is now feeding power directly into the Southern African Power Pool (SAPP).

Solarcentury's 19.3 MWp Gerus Solar Plant Comes into Operation

Solarcentury Africa's 19.3 megawatt peak (MWp) Gerus Solar One plant, situated between Otjiwarongo and Outjo, is now operational, becoming Namibia's first merchant solar facility to sell electricity directly into the Southern African Power Pool (SAPP).

The Gerus plant is only the second purpose-built merchant solar project in Africa to participate in the SAPP. The first was Solarcentury Africa's 25 MWp Mailo solar plant in Zambia, which achieved commercial operation in July 2025.

British High Commissioner to Namibia, Neil Bradley, officially inaugurated the Gerus Solar One plant on 6 February. The project is seen as a transformative renewable energy initiative that contributes to Namibia's energy sustainability while supporting long-term economic development through power exports to the Southern African Development Community (SADC) region.

The Gerus solar plant is backed by roughly N\$335 million (US\$20 million) in international funding, representing a significant UK investment in Namibian clean energy. It was developed in partnership with Namibian companies Sino Energy and Alensy Energy

Solutions and was delivered within a 12-month timeline.

By selling power directly into the SAPP, the solar plant enhances regional energy security and demonstrates the viability of merchant solar power models in Africa.

The inauguration ceremony was also witnessed by Kunene Regional Governor Vipuakuje Muharukua and Electricity Control Board of Namibia Chief Executive Officer Robert Kahimise.

Solarcentury Africa's Chief Executive Officer, Jason de Carteret, said the commissioning of the Gerus plant highlights the impact of strong local partnerships and technical expertise in accelerating access to clean, reliable, and affordable energy across Southern Africa.

The plant is expected to generate around 50.8 GWh of clean electricity annually, enough to supply power to more than 14,000 Namibian homes, while reducing carbon dioxide emissions by approximately 17,000 tonnes per year.

The merchant model reduces dependency on

traditional PPAs, allowing investors to diversify revenue streams and mitigate risks associated with state consumers.

In the Southern Africa region, hydropower and coal traditionally dominate the energy mix, but environmental challenges, such as recurring droughts, complicate hydropower production. Additionally, the pressure to reduce carbon emissions to meet international commitments places added strain on governments to diversify their energy sources and limit coal usage, a polluting energy source.

The Gerus One Solar plant is thus positioned to fill these energy supply gaps. The Namibian solar installation will offer a stable energy source unaffected by the climatic challenges impacting hydropower, while aligning with the environmental commitments made by the countries in the region.

In Namibia, this fully merchant model opens avenues for other similar projects in the renewable energy sector. The economic implications are significant, not only in terms of local job creation but also in attracting new investors to a market where state support is often crucial.



Simplified Licensing for Small Power Producers and Pilot Projects

Energy regulator, the Electricity Control Board (ECB), is developing tailored licence conditions for small, embedded generation projects of up to 2 megawatts (MW) and pilot initiatives involving emerging technologies, including green hydrogen.

The initiative is a response to growing investor interest in Namibia's evolving energy sector and aims to support innovation while maintaining regulatory compliance and system stability. As part of the project, the ECB will produce clear licence conditions, guidelines and standards intended to streamline approval processes and reduce administrative bottlenecks.

ECB held a stakeholder consultation workshop in Windhoek on February 10, to discuss the development of licence conditions for small embedded generators and pilot projects.

CEO Robert Kahimise underlined the growing importance of embedded generation in Namibia's evolving electricity supply industry (ESI) and the need for regulatory clarity, compliance, and sustainable sector development.

"In terms of the Electricity Act (2007), the licensing of electricity activities is a legal requirement, and no person may generate, trade, transmit, supply, distribute, import

or export electricity in Namibia unless duly authorised through a licence or exemption under the Act. As the ECB, our mandate is not only to regulate, but also to enable orderly growth while safeguarding system reliability, consumer interests, and fair market participation. An important aspect hereof is to identify barriers to facilitate entry to, and the growth of, the Namibian ESI. In this regard, over-regulation can be seen and experienced as an entry barrier," said Kahimise.

For that reason, the ECB embarked on investigating the categorisation of generation projects which could qualify for a simplified regulatory licensing process.

The simplified licence process being introduced by the regulator is designed to provide a clear, consistent, and transparent regulatory framework that supports project development while ensuring accountability and compliance throughout the lifecycle of embedded generation facilities and pilot projects.

Consultants Jacky Scholtz and Uli von Seydlitz, presented the proposed framework, which culminated from an increase in investor interest in embedded generation projects of up to 2 MW, including solar rooftop systems and pilot projects.

The current standard licence conditions are designed for large generation projects and are not suitable for smaller embedded projects. The simplified licence conditions are, therefore, aimed at supporting investment and operations without creating unnecessary barriers.

Under the proposed simplified licensing process, the determination of the duration of licences for simplified generation projects will be through applying the standard criteria usually applied by the ECB with the applicant proposing and motivating its desired duration. The new regulations will also aim at the promotion and facilitation of new technologies, but ultimately the regulatory environment, as per the National Energy Policy, will remain technology neutral.

Regulatory levies and surcharges are imposed under relevant laws, and it is recommended that these levies and surcharges be imposed on the customer of/person supplied with electricity by the simplified generation project similar to all other electricity licensees and customers.

Simplified generation projects connecting to the grid will have to comply with the relevant rules, codes and connection licensee's requirements.



EMBEDDED GENERATION: The growing importance of embedded generation in Namibia's evolving electricity supply industry has necessitated the need for regulatory clarity and compliance.



Namport Positioning Namibia as a **Strategic Hub** for **Green Hydrogen & Ammonia** **Transportation**



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DBN Funds Phase Two of Rosh Pinah Solar Park for N\$164 million

Development Bank of Namibia (DBN) has signed a partnership agreement with the Rosh Pinah Solar Park to finance N\$164 million for Phase Two of the solar facility's expansion.

DBN will co-fund the expansion of the existing 5.4 megawatt peak (MWp) Rosh Pinah Solar Park in the //Kharas Region. This follows the bank's earlier investment of N\$58 million in 2022 toward Phase One, which has successfully demonstrated the viability of clean energy generation to support industrial and community needs.

Phase Two, an 11 MWp expansion, is being developed to meet up to 30% of the increased annual energy demand for the Rosh Pinah Zinc Mine, driven by the mine's RP2.0 expansion. In addition, the project will supply up to 30% of the annual electricity needs of RoshSkor Township, contributing directly to the town's energy security and reliability.

Construction and commissioning of the expanded plant are expected to be completed by August 2026.

DBN CEO, Titus Ndove, said the partnership with the zinc mine solar project reflects the impact that strategic development finance can have in shaping a resilient and competitive Namibia.

"The expansion of the Rosh Pinah Solar Park demonstrates our commitment to financing transformative projects that secure Namibia's



SIGNED: DBN CEO Titus Ndove and Rosh Pinah Solar Park Managing Director Marinus Strydom at the signing ceremony of the new financing agreement. Photo: DBN

energy future. By enabling clean, reliable power for industrial growth and community development, we are accelerating the country's transition to sustainable energy while unlocking long-term economic value," he said.

Ndove said the investment was firmly aligned with DBN's mandate to advance Namibia's socio-economic development through strategic financing that strengthens infrastructure, promotes regional development, and enhances national energy security.

The project also contributes to economic diversification in the southern region, where activity outside of mining remains limited, and reduces Namibia's reliance on carbon-intensive energy sources.

The Rosh Pinah Solar Park expansion further strengthens Namibia's commitment to global sustainability by directly supporting key Sustainable Development Goals (SDGs): SDG 7 (Affordable and clean energy), SDG 8 (Decent work and economic growth), and SDG 13 (Climate action).

The mine has underscored its commitment to reducing its environmental impact through embracing solar energy. The solar plant will reduce energy costs by 18% and cut the company's greenhouse gas (GHG) emissions by 6% during its tenure.

Rosh Pinah Mine has entered into a 15-year Power Purchase Agreement (PPA) with Emesco. The PPA will supply 30% of the mine's power requirements at a fixed rate.

The plant will be partly financed, built and operated by Emerging Markets Energy Services Company (Emesco), a renewable energy provider.

Emesco and the mine owners had agreed that if a positive investment decision on the Rosh Pinah mine expansion project came to fruition, Emesco would increase the delivery of electricity to Rosh Pinah to remain at 30% of the mine's annual energy consumption, as provided for under the amended single buyer framework.



MINE SUSTAINABILITY: The Rosh Pinah zinc and lead mine will be able to meet up to 30% of the increased annual energy demand for the mine, driven by the mine's RP2.0 expansion. Photo: Archives



LANDMARK PROJECT: Prime Minister Elijah Ngurare inaugurated the Gaidip Oasis in November 2025, where he also met with all the contractors on the project.

NEC Powers Landmark Off-Grid Gaidip Sustainable Agriculture Project

NEC Energy is proud to have played a vital role in powering one of Namibia's most visionary off-grid agricultural developments at Gaidip Oasis, in the Karas region.

The Gaidip Oasis Agricultural Project is a 10,000-tree date palm plantation inaugurated in November 2025 to boost food security. This sustainable, tech-driven venture aims

to grow 600,000 trees, create up to 3,000 jobs, and produce 5,000 metric tons of dates annually.

This landmark project stands as a powerful example of what can be achieved when innovation, renewable energy, and national support align with a long-term vision.

The innovative development was delivered

by a 100% Namibian contractor team, highlighting strong local expertise and collaboration. Project management was led by Namib Projects, with Brandberg Construction as the main civil contractor. AgriTurf was responsible for the pumping and irrigation system design and supply, while NEC Energy designed, supplied, and installed the solar power systems and backup generator.



BOOSTER: AgriTurf designed, Tribinex built booster pump station.



SOLAR-POWERED: 18 000 m³ dams constructed by Brandberg Construction and powered by 100% solar energy.

GSFA Consulting Engineers provided the power system design, Tribinex handled pipework installation, and CK Heydt completed the civil works and building construction.

At the heart of the agriculture project is a fully solar-powered pumping and irrigation system, inaugurated by Prime Minister Elijah Ngurare in November 2025. The development includes high-performance booster pump stations and advanced solar island systems, enabling day-and-night centre pivot irrigation from three large 18,000 m³ storage dams. Together, these systems are transforming arid land along the Orange River into productive

farmland for high-value crops, including royal dates.

Operating entirely off-grid, the farm is supported by a 500 kVA backup generator supplied and installed by NEC Energy, ensuring reliability during cloudy conditions or periods of peak irrigation demand.

Prime Minister Ngurare also inaugurated the River Extraction Pump Station, a critical component enabling a sustainable water supply for the project.

Beyond infrastructure and energy innovation, the project delivers meaningful social impact.

A representative from the client side, Warifo Investments, highlighted the project's contribution to local employment, supporting up to 1,200 families during the harvest season, while the Prime Minister emphasized the possibilities that arise when government supports and enables the private sector to attract direct foreign investment.

Powered by solar energy, collaboration, and forward-thinking design, the Gaidip Oasis project demonstrates how sustainable infrastructure can turn desert landscapes into thriving agricultural hubs — proving that, with the right vision, the desert can indeed bloom.



BACK-UP: 100% off-grid farm supported by a 500 kVA backup generator installed by NEC Energy, ensuring continuous pumping even on cloudy days or during high demand.



BACK-UP: Pump power room with backup solution for the control system.



NEW STATION: Inauguration of the river extraction pump station.



COMMUNITY UPLIFTMENT: Partners involved in the development of the SmartVille Living Lab at Inge's Kindergarten at Mix Resettlement pictured during the handover ceremony. Photo: NUST

Solar-Powered SmartVille Living Lab Handed Over to Mix Resettlement Community

The Namibia Energy Institute (NEI) hosted the official handover ceremony of the SmartVille Living Lab at Inge's Kindergarten at Mix Resettlement, just outside Windhoek, on 25 November 2025.

The event marked an important milestone in advancing community-based innovation, entrepreneurship education, and digital inclusion in peri-urban Namibia.

The Living Lab at Mix Resettlement is powered by a solar system and equipped with resources such as computing devices, internet connectivity,

a freezer unit, hair clippers, and printing facilities. These tools support small enterprise activities and enhance digital literacy.

NUST's Department of Governance and Management Sciences played a pivotal role by developing entrepreneurship learning content and training community members in business fundamentals and computer skills.

The SmartVille Project is funded by the European Union under the ERASMUS-EDU-2023-CBHE programme and focuses on developing Sustainable and Entrepreneurial Villages through Educational Living Labs in Namibia and Zambia.

The initiative is implemented by NEI and forms part of a consortium of eight partner universities—two from Namibia (NUST and UNAM), two from Zambia (University of Lusaka and Mulungushi University), and four European institutions. Together, the partners are introducing innovative teaching and learning models that promote teamwork, problem-solving, and entrepreneurship competencies among students and community members.

At its core, the SmartVille Project aims to reform entrepreneurship education within higher education institutions, while simultaneously supporting community development through access to both formal and informal learning tools delivered via technology-based platforms.

By establishing four Smart Village Living Labs across Namibia and Zambia, the initiative promotes gender equity, youth empowerment, and economic participation, especially for vulnerable groups. It also strengthens collaboration between universities and local start-ups—fostering enterprise growth, job creation, and improved employability.

SmartVille Project Coordinator, Mia Ekman, emphasised the importance of education. Addressing the youth of the Mix Resettlement, she said: "Education opens many doors, allowing you to be able to make a difference in shaping your future. If you don't believe in yourselves no one else will."



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Powering Namibia's Future:

Tesla Energy Solutions Leads the Charge

In the pursuit of sustainable leadership, Namibia is advancing its electric mobility vision.

Tesla Energy Solutions' strategic deployment of electric vehicle (EV) chargers transforms cities into hubs of efficiency, connectivity, and green innovation.

Tesla has installed four EV chargers across Namibia; a mix of AC units and fast DC chargers; steadily expanding its national footprint. Each installation is planned with precision to ensure accessibility and network resilience.

This rollout shows decisive execution and signals Namibia's commitment to leading Southern Africa in sustainable transport infrastructure, with many more EV chargers still to come.

Key installations across Namibia reflect both strategy and impact. Tesla's first public 22 kW AC charger was installed in Arandis, setting the foundation for regional accessibility. In Windhoek, two private 22 kW AC chargers were deployed for BMW and the City of Windhoek, while a fast DC charger is currently undergoing testing before public release.

Most recently, a 22 kW AC charger was commissioned at Dunes Mall in Walvis Bay, offering convenient access for both residents and visitors with electric vehicles.

Together, these sites strengthen national connectivity and reinforce Tesla Energy Solutions' leadership in EV infrastructure deployment.

EV CORRIDOR

Major achievements include completing Namibia's first cross-country EV corridor and enabling uninterrupted charging along main highways. Each milestone amplifies Tesla Energy Solutions' authority in renewable transport, marking the nation's transformation from nascent adoption to emerging regional leadership in electric mobility.

The e-Charge app centralises charging management, navigation, and payment. By providing users control and insight, it consolidates Tesla's influence over the EV experience. Strategic adoption ensures loyalty, seamless usability, and engagement, cementing Tesla's role as both provider and guide.

Namibia's journey toward electrification is deliberate and visionary, aligning with national sustainability goals. Each expansion reflects disciplined planning and foresight, positioning



CONVENIENCE: A 22 KW AC charger at Dunes Mall in Walvis Bay.



TECHNOLOGY ENABLED: The Tesla e-charge APP.



QUICK CHARGE: Testing of a 80 KW fast DC charger.

the country as a model for African nations aspiring to integrate clean energy with modern transportation systems.

Early challenges such as infrastructure gaps, grid constraints, and low public awareness tested the rollout's resilience. But through strategic planning and strong public-private collaboration,

these hurdles were steadily overcome.

Each milestone strengthened credibility, proving that once obstacles are mastered, they become stepping-stones toward national leadership in EV adoption. Tesla Energy Solutions continues to welcome key partners to join us in expanding EV charging infrastructure across Namibia.



RAPID GROWTH: Africa added 54% more solar capacity in 2025 than in 2024, marking the highest annual deployment ever recorded on the continent and confirming that solar growth is accelerating.

Outlook for Solar PV: 2026-2029: *Africa Records Fastest Year of Solar Growth on Record in 2025*

Africa recorded its fastest year of solar growth on record in 2025, with installations rising sharply as both utility-scale and distributed systems expanded, a recent report by the Global Solar Council (GSC) revealed.

Africa added 54% more solar capacity in 2025 than in 2024, marking the highest annual deployment ever recorded on the continent and confirming that solar growth is accelerating, not plateauing.

The findings are contained in the recently-released Africa Market Outlook for Solar PV: 2026–2029, GSC’s flagship annual analysis

of solar and storage deployment across the African continent.

Building on the latest market data, project tracking, import flows and forward-looking modelling, the report provides an up-to-date picture of how solar markets are scaling, where growth is spreading, and what will determine the pace of future expansion through the end of the decade.

The report highlights not only the scale of recent deployment, but the structural shifts shaping the African market — including rapid growth in rooftop, commercial and captive solar, new investment patterns, and emerging

trends in trade and system integration.

While utility-scale projects still account for the majority of reported installations, nearly half of new capacity (44%) comes from distributed systems — a figure that remains systematically undercounted in official statistics.

The GSC report says Africa is scaling solar through two parallel pathways: Government-led, grid-connected utility-scale projects; and Privately financed rooftop, commercial and distributed systems.

Both are growing fast — but under very different financing and policy conditions.

Momentum Building for Africa's Solar+Storage Market

The GSC says the history of solar+ storage across Africa is currently being written, with clean energy investments on the continent expected to outpace fossil fuel investments, marking a major paradigm shift in how African countries power economic growth.

“Experiencing unprecedented growth and supported by an improving competitive landscape, private sector clean energy investment has risen from US\$17 billion in 2019 to almost US\$40 billion in 2024. With investment levels higher than ever before, solar+storage is spearheading this shift towards renewables,” says the Global Solar Council.

It adds: “Solar adoption is exponentially increasing because of a simple economic reality: it just makes sense. Solar+storage is now the most cost-efficient source of electricity and the most democratic energy source the world has ever seen. From large-scale projects decarbonising power systems, to distributed rooftop installations cutting bills and greening daily uses, solar+storage lies at the heart of Africa's economic transformation”

The GSC report's medium-term outlook suggests Africa could install over 33 GW of solar capacity by 2029 — more than six times the capacity added in 2025 — as distributed and utility-scale markets expand in parallel across a growing number of countries.

Mini-Grid Momentum

Mini-grids have emerged as a critical pillar in Africa's electrification strategy, particularly for rural and underserved communities where extending the central grid remains prohibitively expensive or slow. The World Bank suggests that it will take 160,000 mini-grids to electrify 380 million Africans at a cost of US\$91 billion by 2030.

According to the Africa Mini-grid Developers Association (AMDA), member companies have deployed over 600 operational mini-grids to date, electrifying nearly one million people across the continent, a testament to the sector's role in reducing energy poverty.

Key drivers include favourable regulatory policies, such as licensing fast-tracks in South Africa and Nigeria, and increased, though still insufficient, financing for rural electrification projects.

Some specific changes have driven their growth in the last year. For a start, changes in policy and regulation have played a favourable role. Governments are increasingly adopting proactive policies, including reduced import tariffs and net metering, to facilitate faster deployment. South Africa, for instance,



removed licensing requirements for projects up to 100 MW, enabling 80+ new, larger projects.

Growth of the Off-Grid Market

Similarly, off-grid solar in Africa has experienced rapid growth in 2025 due to a combination of plummeting technology costs, innovative financing models like PAYGO (pay-as-you-go) that lower the threshold of access, and the ever-present need to address unreliable or non-existent grid infrastructure.

Growth of Green Hydrogen

Africa is emerging as a premier global hub for green hydrogen production, driven by its immense, low-cost solar potential. With over 60 projects announced across 16 countries, including massive projects in Mauritania, Namibia, and Egypt, the continent aims to produce 50 Mt/year by 2035.

This growth focuses on exporting green ammonia to Europe while boosting domestic energy access.

Across the continent, several large-scale green hydrogen and renewable energy projects are already underway.

CHALLENGES

High Cost of Capital

While there are many positive developments in green energy in Africa, there remain multiple challenges that must be addressed. For a start, Sub-Saharan Africa faces a significant financing shortfall, with current investment levels well below the estimated US\$20 billion per year required to achieve SDG-7 by 2030.

African countries have a high Weighted Average Cost of Capital (WACC), which reduces the available finance for much needed projects. Elevated risk perceptions—which lead to high financing costs—, significant currency exchange rate risks, and macroeconomic instability act as barriers.

Investors often demand higher returns to cover risks like political instability and policy uncertainty, resulting in capital costs that can be twice as high as in developed markets.

Grid Congestion

Many African grids are small, isolated, and lack the capacity to handle increased, variable loads, and investment in transmission and distribution networks has not kept pace with the rapid growth in generation capacity.

Traditional grids struggle to manage the volatility of solar and wind energy, requiring costly backup solutions.

Grid congestion in Africa thus hinders renewable energy by restricting the ability to transfer power from resource-rich areas to demand centers, often leading to project delays, curtailment, and high investment risks. This results in limited capacity to accommodate new projects.

Licensing Delays

Many African countries have not overhauled their bureaucratic and technical systems to deal with the new demands and realities of renewable energy.

Licensing and permitting delays for renewable energy in Africa—often taking 18 months to over three years—severely limit development by increasing project costs, driving away investors, and hindering the transition from fossil fuels.

These bureaucratic bottlenecks create fragmented, slow approval processes across multiple ministries. Prolonged approval processes increase financial risk and financing costs, undermining project bankability and investor confidence.

Uncertainty around timelines often causes developers to miss critical investment windows, delaying or stalling projects altogether.

Botswana Signs US\$4 Billion Renewable Energy Deal With Indian Developer

The government of Botswana has signed a US\$4 billion (about N\$63.7 billion) agreement with the KP Group, a leading Indian renewable energy company, to develop large-scale renewable energy infrastructure across the country.

The MoU was signed between Botswana's Ministry of Minerals and Energy and KP Group, comprising KPI Green Energy Limited, KP Energy Limited, and KP Green Engineering Limited. It establishes a framework for planning, developing, and implementing renewable energy and associated transmission projects to strengthen Botswana's energy security and position the country as a regional clean power exporter.

The initiative is expected to boost Botswana's renewable energy capacity to nearly 5 gigawatts, supporting national ambitions to achieve net-zero emissions by 2030. Under the memorandum of understanding, the partnership will focus on power generation, energy storage, and transmission infrastructure.

Key components include upgrading high-voltage transmission lines, developing cross-border interconnections with neighboring countries, and creating a framework to plan and implement renewable projects at scale.

The projects aim to position Botswana as a regional clean energy hub.

The country's Minister of Minerals and Energy, Bogolo Joy Kenewendo, described the agreement as a critical step toward a sustainable

and secure energy future. KP Group will oversee development, financing, construction, and long-term operations.

"This MoU marks an important step in Botswana's transition towards a sustainable and secure energy future. Through this partnership with KP Group, we aim to accelerate clean energy deployment, strengthen regional power connectivity, deliver long-term economic and environmental benefits, and empower our youth through skills development," said Kenewendo.

As part of the initiative, KP Group will provide 30 scholarships annually to Botswana citizens for education and skills development in renewable energy, engineering, sustainability, and related fields, fostering local capacity building and knowledge transfer to support the country's clean energy transition.

Dr. Faruk Patel, Founding Promoter of KP Group, said the MoU "reflects a shared vision to accelerate the energy transition through scalable and sustainable renewable solutions. Botswana has immense solar and wind potential, and we are honoured to partner with the Government to unlock this opportunity. Together, we aim to support Botswana's net-zero journey while creating long-term economic value and enabling regional clean energy exports."

KP Group will lead technical and commercial development activities, including feasibility studies, project design, financing, construction, commissioning, and long-term operation and maintenance of renewable energy and storage assets.



ACCELERATING CLEAN ENERGY DEPLOYMENT: Botswana's Minister of Minerals and Energy, Bogolo Joy Kenewendo, and the Founding Promoter of KP Group and Dr. Faruk Patel during the signing of the energy MoU.

The MoU highlights Botswana's commitment to diversifying its energy mix and reducing fossil fuel reliance while leveraging international expertise and investment. For KP Group, the partnership represents a strategic expansion beyond India, complementing its existing 6 GW renewable energy portfolio and its goal of achieving 10 GW by 2030.

The Group is also advancing in green hydrogen and ammonia, battery energy storage systems, and offshore and floating solar solutions, supported by its state-of-the-art fabrication and galvanizing facility in Matar, which houses Asia's largest galvanizing kettle.





PIONEER: The first phase of the Hyphen project will include 3.75 GW of renewable energy generation, battery storage, 1.5 GW of electrolyser capacity, and supporting infrastructure such as desalination facilities, pipelines, transmission lines, and enhanced port facilities.

Hyphen Hydrogen Lands US\$10m Loan from AfDB

The African Development Bank (AfDB) has approved a US\$10 million loan (about N\$160 million) to Hyphen Hydrogen Energy, to support the green ammonia project with the potential to position Namibia as a pioneer in the global green hydrogen economy.

The loan, sourced from the Sustainable Energy Fund for Africa (SEFA), will support front-end engineering design studies for solar and wind generation, battery energy storage systems, and electrolyser capacity and desalination infrastructure, thereby de-risking the project and attracting the financing required for its realisation.

SEFA is a multi-donor Special Fund that provides catalytic finance to unlock private sector investments in renewable energy and energy efficiency. SEFA offers technical assistance and concessional finance instruments to remove market barriers, build a more robust pipeline of projects, and improve the risk-return profile of individual investments.

The first phase of the Hyphen project, which is poised to leverage Namibia's world-class solar and wind energy resources, will include 3.75 GW of renewable energy generation, battery storage, 1.5 GW of electrolyser capacity, and supporting infrastructure such as

desalination facilities, pipelines, transmission lines, and enhanced port facilities—all developed to the highest environmental and social standards.

Once completed, the project is projected to produce 2 million tons of green ammonia annually for export to key markets, while contributing to local economic development under a comprehensive socio economic development plan embedded in the project's 40-year concession agreement.

It will additionally avert annual emissions of 5 million tons of Co2—the equivalent of removing over one million cars from the road—while deploying 7.5 gigawatts of renewable energy generation capacity, more than 10 times Namibia's current installed capacity. Additionally, the project will supply 3 million liters of clean water through desalination daily to the water-scarce region of Lüderitz in Southern Namibia.

Moono Mupotola, AfDB Country Manager for Namibia and Deputy Director General for Southern Africa, said: "This is about far more than energy infrastructure. This is about demonstrating Africa's capacity to lead the global energy transition, create quality jobs for our youth, and build prosperity while protecting our planet. Namibia is showing the world that Africa is not just participating in

the green economy—we are defining it."

Hyphen Hydrogen Energy CEO, Marco Raffinetti, said: "The African Development Bank's approval of this pre-investment facility represents a strong vote of confidence in Hyphen's project and in the broad ambitions of Namibia to develop one of the world's most transformative green hydrogen projects".

Daniel Schroth, Director for Renewable Energy and Energy Efficiency at the AfDB said SEFA's intervention in the Hyphen project was catalytic.

"By supporting these essential pre-investment activities, we are unlocking billions in project financing. This is a strategic, high-impact development project" he said.

The project is expected to generate 15,000 construction jobs and 3,000 permanent positions, 90% of these reserved for Namibian nationals and 20% specifically targeting youth in a country where youth unemployment exceeds 38%.

The Hyphen project is viewed as a flagship of the government's Southern Corridor Development Initiative. It is expected to have a demonstration effect across Africa, particularly in countries that have abundant renewable energy resources.



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WORLD LEADER: The Namibia Green Molecules project is innovative project powered exclusively by solar energy, with a capacity of ± 3.0 GW of renewable energy and ± 1.65 GW of electrolyzers, supported by BESS systems.

Zhero Inks Funding Deal with SDG Namibia One Fund for Industrial-Scale Walvis Bay Green Ammonia Project

SDG Namibia One Fund, the country's dedicated energy transition and green hydrogen infrastructure fund, has signed a development funding agreement with Zhero Europe, a clean energy projects developer, to advance the development of the Zhero Molecules Walvis Bay Project.

SDG Namibia One Fund (also known as Climate Investor Three Namibia) will commit up to US\$5.15 million (about N\$81.8 million) in development funding to enable Zhero to complete the development and feasibility activities required to progress the project toward a final investment decision, targeted for 2027. Commercial operation is expected in 2030.

SDG Namibia One Fund, managed by Climate Fund Managers (CFM), a climate-focused blended finance investment manager, in partnership with Dutch development finance institution, Invest International, and the Environmental Investment Fund of Namibia (EIF), is backed by the European Union Global Gateway investment strategy and Invest International.

The Zhero Molecule Walvis Bay project is

Zhero's flagship project in green molecules. Once operational, it is expected to produce 500,000 tonnes of green ammonia per year, avoiding approximately 1.2 million tonnes of CO₂ emissions annually. Alongside its contribution to the energy transition, the project will support Namibia's broader socio economic development, while also generating opportunities for local businesses and service providers across the value chain.

The project will be powered by an integrated renewable energy system comprising 3 GW of solar PV, 2.2 GWh of battery energy storage, a 1.6 GW electrolyser system and 110 km of new transmission infrastructure. A desalination plant is planned as part of the project's water supply solution. Green ammonia produced by the Project is expected to serve global decarbonisation markets, including fertilisers, maritime fuels and industrial feedstocks.

Green ammonia is produced by combining green hydrogen, generated through electrolysis powered by renewable energy, with nitrogen extracted from the air. It is a zero-carbon fuel and chemical feedstock with applications across sectors including fertiliser

production, maritime shipping and industrial processes. Green ammonia is particularly important for decarbonising these hard-to-abate industries, where few alternative zero-carbon solutions currently exist.

Darron Johnson, Regional Head of Africa at Climate Fund Managers, said: "Zhero's project aligns strongly with Namibia's ambition to build a competitive green hydrogen and ammonia industry, as well as with the mandate of our SDG Namibia One Fund. The site benefits from exceptional solar resources, ample land and direct access to deep-water export infrastructure at Walvis Bay, making it well-suited for industrial-scale green ammonia production."

Paolo Gallieri, Chief Operating Officer at Zhero said the development funding from SDG Namibia One will add to the company's own development funding investment.

European Commissioner for International Partnerships, Jozef Sikela, said during his recent mission to Namibia, he saw first-hand how Global Gateway cooperation in renewable energy can translate into real industrial value.

Green Screen Hub to Promote Public Dialogue Around Namibia's Green Future

The Eco Dialogue Collective (EDC) project has launched The Green Screen, a pioneering media and civil society hub dedicated to advancing transparency and public dialogue around Namibia's green future.

The platform, which will serve as a central resource for high-quality, investigative, and explanatory content on green growth, extractive industries, energy, and environmental governance, was commissioned in December.

European Union Ambassador to Namibia Ana Beatriz Martins underscored the importance of the media and civil society in facilitating informed debate and providing reliable information to the public about the green transition in Namibia.

"This project is about ensuring that diverse

perspectives from the various stakeholders that play a role in this journey towards green industrialisation, but also towards extractive industries, in particular oil, where there are very good prospects for Namibia to become an important player in the oil sector," stated Ambassador Martins.

Project leads, Peter Deselaers and Dickson Kasote, detailed The Green Screen's mission to not only produce in-depth reports, documentaries, and policy briefs but also to build the capacity of journalists, researchers, and civil society actors.

A key highlight was the panel discussion on "Transparency in the Energy Sector," moderated by The Green Screen editor Shelleygan Petersen. The dialogue emphasised the need for robust oversight, accessible data, and collaborative journalism to ensure that Namibia's energy and natural

resource wealth benefits all its citizens.

"The Green Screen ushers a new era for journalism, research and policy advocacy in energy and environmental issues in Namibia," said Dickson Kasote, the Foundation's Project Lead for the EDC project.

The Green Screen is a core component of the European Union-funded "Eco Dialogue Collective - Empowering Media and Civil Society for a Transparent Green Future" implemented in partnership by the NMT Media Foundation, DW Akademie, the Institute for Public Policy Research (IPPR), and the Legal Assistance Centre (LAC).

The platform became operational in January, offering its resources and facilities to support research, media production, and skills development aimed at ensuring an accountable and sustainable path forward for Namibia.



LAUNCHED: European Union Ambassador to Namibia Ana Beatriz Martins officially launched The Green Screen.



NEW ERA: Project leads, Peter Deselaers and Dickson Kasote, presenting The Green Screen's mission.



CONTINENTAL LEADER: Cleanergy Solutions Namibia project at Hydrogen Dune site combines solar-powered hydrogen production, public refueling station, and support infrastructure, marking milestone for Africa's emerging hydrogen market.

Plug Power Installs 5MW GenEco Electrolyser at Cleanergy Solutions

Plug, a global leader in comprehensive hydrogen solutions, has successfully installed a 5MW GenEco electrolyser system for Cleanergy Solutions Namibia's groundbreaking green hydrogen project.

Cleanergy's Walvis Bay plant represents Africa's first fully integrated commercial green hydrogen facility and will serve as the foundation for expanding hydrogen mobility across Namibia and neighboring markets.

Plug's GenEco electrolyser is integrated directly at Cleanergy's Hydrogen Dune site, which includes a 5MW solar park spanning more than 6.5 hectares and a 5.9 MWh battery energy storage system to produce renewable hydrogen off-grid.

The locally generated hydrogen will support hydrogen-powered trucks, port and rail equipment, and small ships operating through the Port of Walvis Bay, while also supplying vehicles converted on site for dual-fuel operation using hydrogen and conventional fuels.

By pairing renewable power generation with Plug's electrolyser hydrogen production and refueling infrastructure, the Cleanergy project creates a vertically integrated model that links clean electrons to clean molecules and supports Namibia's emergence as a hydrogen production hub for transportation, maritime operations, and



broader industrial decarbonisation.

"Projects like Cleanergy Solutions Namibia demonstrate how green hydrogen is moving from concept to commercial reality," said Jose Luis Crespo, President and Chief Revenue Officer of Plug.

"By deploying our electrolyser technology in growing hydrogen markets such as Namibia, we are helping partners build reliable, scalable hydrogen infrastructure that can decarbonise transportation and industrial activity today while supporting long-term economic development."

The Cleanergy Solutions Namibia project is

expected to serve as a replicable model for hydrogen infrastructure development across Africa, positioning Namibia as a regional leader in renewable hydrogen production with export potential.

Plug is building the global hydrogen economy with a fully integrated ecosystem spanning production, storage, delivery, and power generation. A first mover in the industry, Plug provides electrolysers, liquid hydrogen, fuel cell systems, storage tanks, and fueling infrastructure to industries such as material handling, industrial applications, and energy producers, advancing energy independence and decarbonisation at scale.



DEVELOPMENT COOPERATION: Germany, through the Federal Ministry for Economic Cooperation and Development (BMZ), is committing N\$876 million for projects in sustainable development in Namibia.

Germany Steps Up Namibia Green Transition Support

The German government has committed more financial support to Namibia's green energy transition and towards technical and vocational education and training (TVET).

At the recently-concluded inter-governmental negotiations, both governments agreed to continue their longstanding development cooperation, with the Federal Ministry for Economic Cooperation and Development

(BMZ) committing a total of 43.8 million Euros (approximately N\$876 million) for projects in sustainable urban development, vocational training, green and sustainable energy, and sustainable natural resource management to support the Namibian government in achieving its goals in line with the National Development Plan 6 (NDP 6).

Namibia has committed to providing all citizens with affordable, reliable, and clean energy in the near future. The medium-term objective is to increase access to electricity from approximately 59% today to 70% in 2030 and then to reach universal access by the year 2040, as stated in the NDP 6.

Germany has undertaken to contribute to improving Namibia's energy access, particularly in peri-urban and rural areas, and to further developing the renewable energy sector

in the country. This includes strengthening capacities with regard to planning and strategy development, infrastructure for decentralised energy solutions as well as creating sustainable value chains for raw materials that are critical to the green energy transition.

Further, Germany has committed to continuing its support to technical and vocational education and training, focusing on quality, labour market relevance, and the inclusion of youth and marginalised groups also in sectors that are key to the green energy transition.

Cooperation in the TVET sector is aligned with Namibia's reform agenda under the TVET Policy (2021). To achieve this goal we build on the significant work on governance reforms, work-integrated-learning, and training of trainers that has been already completed.



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