

THE

NH3 CATALYST



Holdings

MARYDALE

ENERFUSION PARK

NEWSLETTER



COMPILED BY
CORVUS DI



A Message from the CEO | Abigail Moeletsi.



As I look back on 2025, my heart is filled with purpose and gratitude—not just for the milestones we reached, but for the journey that brought us here.

Marydale is not only where our flagship Enerfusion Park stands—it is my home. I moved here as a young girl and grew up witnessing both the beauty of this land and the deep struggles of its people.

My father, the late Jan Willie Karsten, served as principal of the only school in town for 22 years. My mother, Magdalena, continues to farm our family land to this day. They taught me that leadership is about service, and that faith must be lived through action. But over the years, I also watched Marydale decline. Poverty, unemployment, and a feeling of being forgotten took hold of my people. As a child who left to study and later built businesses, I returned home each time to a community in need—a community I loved, yet one trapped in cycles of despair.

That is why Solinzi Power was born. It was never just about energy. It was—and is—about liberation. It is about restoring dignity, creating jobs, and saving lives. It is about turning the relentless Karoo sun into a source of hope for the people who raised me. In 2025, we laid the foundation. The Marydale Enerfusion Park was recognized as a Strategic Integrated Project—a testament to what is possible when vision is rooted in love for community.

In 2026, we build on that foundation.

This year, we will further our relentless pursuit towards:

- Transforming sunlight into opportunity, producing green ammonia that powers both industry and human potential.
- Creating meaningful, skilled jobs right here in the Karoo, breaking the grip of poverty through sustainable work.
- Restoring pride and well-being to a community too long overlooked, proving that progress and compassion can go hand in hand.

This is more than a company. This is a calling and belief in motion.

Every kilowatt we generate, every partnership we form, every life we uplift—it all comes back to Marydale. To my home. To our people, for generations to come.

Thank you to every partner, team member and associate for believing in this mission and for walking this path with us.

Together, let's make 2026 a year of light, dignity, and tangible lasting change, powered by the sun and grounded in the heart.

With faith and determination,


CEO | SOLINZI GROUP

Abigail Moeletsi
CEO Solinzi Power

Innovation that Grows



GREEN AMMONIA AND THE REALIZATION OF AFRICA'S GREEN HYDROGEN AND AMMONIA AMBITIONS

MARYDALE ENERFUSION PARK - SIP20E - NATIONAL GREEN HYDROGEN PROGRAMME

www.solinzipower.com

Forging the Future: Powering Progress Through Strategic Partnership

BY BRIAN MAPHANGA

The recognition of the Marydale Enerfusion Park as a Strategic Integrated Project marks a decisive step forward. To turn ambition into reality, **we are securing key partnerships with leading global and local institutions.** These collaborations are fundamental, ensuring our pool of experts and our data sources remain at the cutting edge, driving excellence from day one.

Here in the Karoo, we will transform limitless sunlight into Green Ammonia. This modern alchemy, converting sun and air into clean fuel is powered by unparalleled expertise. Our growing network of partners guarantees that the science, innovation, and operational knowledge behind this venture are world-class.

The SIP status is our catalyst; strategic partnership is our method. By forging these critical alliances, we are building more than infrastructure, we are cultivating a new industrial ecosystem rooted in knowledge. This collaborative model will create skilled jobs, export South African innovation, and position Marydale as a global beacon for a resilient, prosperous future.

This project is a testament to bold vision, made tangible through collective action and shared expertise. Our promise of energy independence and environmental stewardship is being built on the strongest possible foundation: a committed partnership of the best minds and data.

The journey begins in Marydale, powered by the sun and propelled by partnership.

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GREEN AMMONIA AND DERIVATIVES



GREEN AMMONIA GLOBAL MARKET



Fuel Your Week with
Cutting-Edge Energy
Updates



Top News

[Envision's AI-Powered Green Ammonia and Hydrogen Breakthrough Named Global Benchmark by World Economic Forum](#)

Envision's pioneering green hydrogen and ammonia project in Chifeng, Inner Mongolia, has been featured as a premier global case study in the World Economic Forum's (WEF) latest white paper, "From Blueprint to Reality: A Stronger Business Case for Shared Energy Infrastructure." The report recognizes the Chifeng project as a transformative model for the global energy transition, highlighting Envision's AI-driven Power System as the catalyst for turning intermittent renewable energy into a stable, "green petroleum" equivalent.

[Read more...](#)

[AfDB approves \\$10m loan to support Hyphen's Namibian green ammonia project](#)

[Read more...](#)

[Topsoe ammonia tech selected for 4.4GW Saudi green hydrogen project](#)

[Read more...](#)



[Yanbu green ammonia plant should be financed this year](#)

[Read more...](#)



DxNH₃

GREEN AMMONIA PRESENTS AN OPPORTUNITY TO ADVANCE ENERGY AND FOOD SYSTEM SUSTAINABILITY IN INDIA

India is the second-largest consumer of nitrogen fertilizers and the third-largest emitter of greenhouse gases globally¹.

The country's fertilizer industry depends heavily on natural gas imports², which is financially burdensome and presents food security risks.

Urea fertilizers are heavily subsidized by the government², which is costly and disincentivizes farmers' efficient use of fertilizers that would minimize environmental impacts.

[Read more...](#)



Zambia's Path to Fertilizer Self-Sufficiency: How Zambia's Emergency Food Production Facility is contributing to the reduction of food and fertilizer import dependence [Read more...](#)



Northern America's Calcium Ammonium Nitrate Market Set for Steady 1.8% CAGR Growth Through 2035

[Read more...](#)



Liquid Fertilizer Applicators Market Report 2026: \$2.68 Bn Opportunities, Trends, Competitive Landscape, Strategies, and Forecasts, 2020-2025, 2025-2030F, 2035F

Opportunities in the liquid fertilizer applicators market include leveraging mechanized farming, smart delivery systems,

AI-based controls, sustainable practices, and expanding custom formulations. Growth is driven by increased agricultural productivity needs and demand for precision application, fostering innovation and efficiency.

The liquid fertilizer applicators market has demonstrated significant growth and is poised to continue expanding. Projected to increase from \$1.89 billion in 2025 to \$2.03 billion in 2026, the market is experiencing a compound annual growth rate (CAGR) of 7.4%.


[Read more...](#)























Catalyzing the Transition: Africa's Green Hydrogen Future

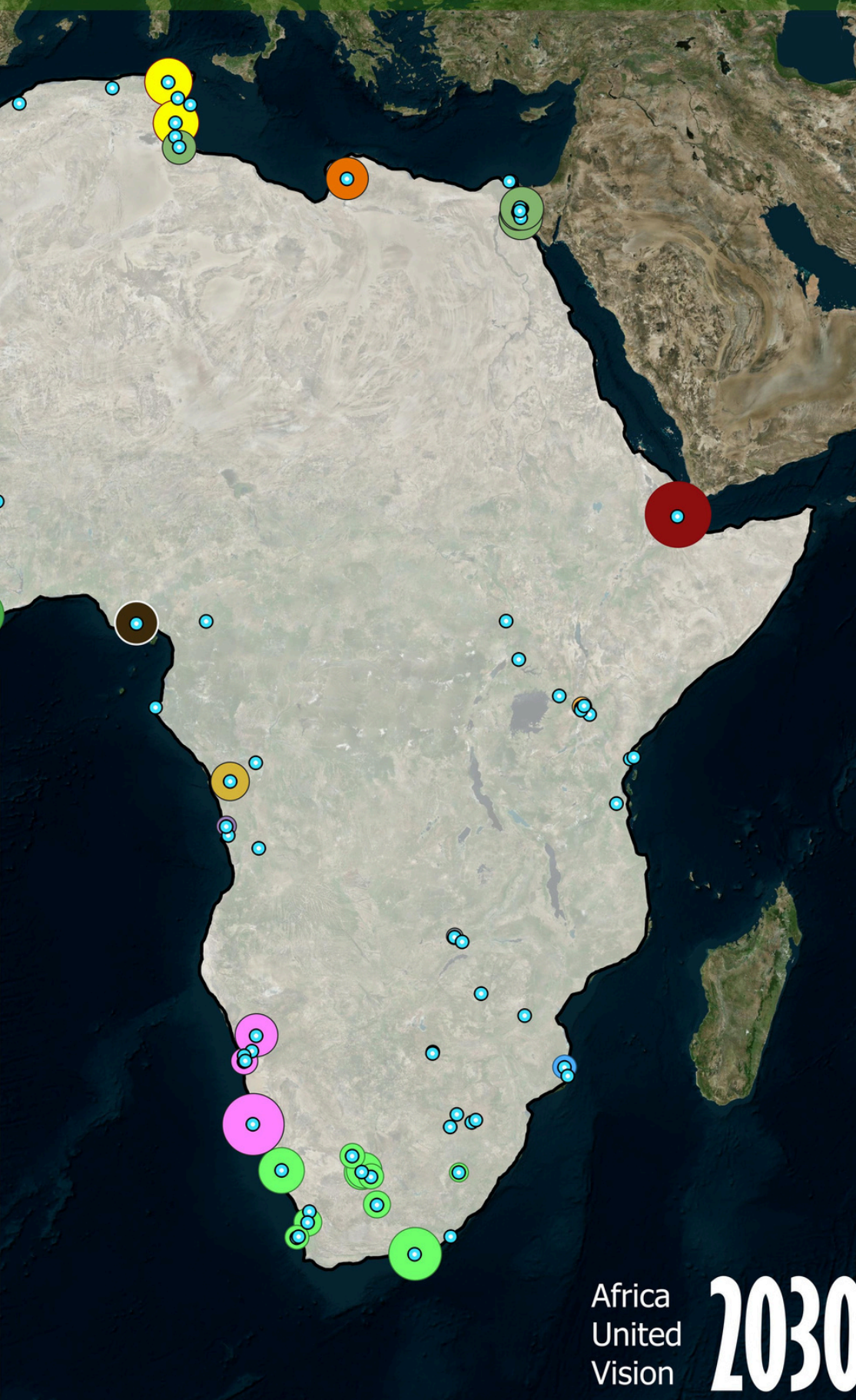


LEGEND

 Hydrogen & Derivatives Projects

H2 - Derivatives Capacities


	Algeria ~100k TY (Dx)
	Angola +520k TY (Dx)
	Botswana ~10k TY (H2)
	Burkina Faso +100 TY (H2)
	Djibouti +2, 500k TY (Dx)
	DRC +1,000k TY (Dx)
	Egypt +4,650k TY (H2 - Dx)
	Ghana +1,500k TY (Dx)
	Guinea Bissau +1TY
	Kenya ~900k TY (Dx)
	Libya ~1,000k TY (H2)
	Mauritania ~34,000k TY (H2 - Dx)
	Mozambique +500k TY (Dx)
	Morocco +3,380k TY (Dx)
	Namibia ~3,301k TY (H2 - Dx)
	Nigeria +1,200k TY (Dx)
	Senegal ~600k TY (Dx)
	South Africa +5,400k TY (H2 - Dx)
	South Sudan ~140 TY (H2)
	Tunisia +2,600k TY (H2 - Dx)
	Uganda ~200k TY (H2)
	Western Sahara ~30,000k TY (H2 - Dx)
	Zambia ~400k TY (Dx)
	Zimbabwe ~100k TY (Dx)












Africa
United
Vision **2030**

0 500 1 000 km

ANALYSIS OF PROPOSED INVESTMENT PIPELINE ACROSS AFRICAN COUNTRIES

	Algeria	~¥ 3,03 Billion
	Key Project: Sonatrach-Cepsa Pilot Project	
	Angola	~¥ 25 Billion
	Key Project: Conjuncta Green Hydrogen	
	Botswana	~¥ 417 Million
	Key Project: Serowe Hydrogenn Hub	
	Burkina Faso	~¥ 4,2 Million
	Key Project: PV2H Burkina Project	
	Djibouti	~¥ 95,9 Billion
	Key Project: GCL Ammonia & Hydrogen	
	DRC	~ ¥ 33,3 Billion
	Key Project: Grand Inga Hydropower Complex	
	Egypt	~ ¥ 180 Billion
	Key Project: EDF & Zero Waste Project	
	Ghana	~¥ 50 Billion
	Key Project: Atuabo Petroleum Hub Fertilizer	
	Guinea Bissau	~¥ 39,6 Million
	Key Project: Bolama Region P2G2P	
	Kenya	~¥ 29,2 Billion
	Key Project: Fortescue Future Industries	
	Libya	~¥37,5 Billion
	Key Project: Libya-H2-Global Initiative	
	Mauritania	~¥ 1,3 Trillion
	Key Project: The AMAN Project by CWP Global	
	Mozambique	~¥ 23 Billion
	Key Project: Moz DI Green Hydrogen	
	Morocco	~¥ 147 Billion
	Key Project: OCP Group Green Hydrogen	
	Namibia	~¥ 126 Billion
	Key Project: Daures Green Hydrogen Village	

~¥ 49,2 Billion	Nigeria	
	Key Project: APPL Hydrogen-Longi Project	
~¥ 25,2 Billion	Senegal	
	Key Project: Global Green Hydrogen Inc.	
~¥ 205 Billion	South Africa	
	Key Project: Marydale Enerfusion Park	
~¥ 6,9 Million	South Sudan	
	Key Project: Wani Igga Energy & Hydrogen	
~¥ 102 Billion	Tunisia	
	Key Project: H2 Notos Project (TotalEnergies)	
~¥ 61,2 Billion	Uganda	
	Key Project: Karuma Green Hydrogen	
~¥ 1,2 Trillion	Western Sahara	
	Key Project: TAQA Hydrogen & Ammonia	
~¥ 18 Billion	Zambia	
	Key Project: Matta Green Hydrogen	
~¥ 4,2 Billion	Zimbabwe	
	Key Project: Middle Sabi Renewstable®	

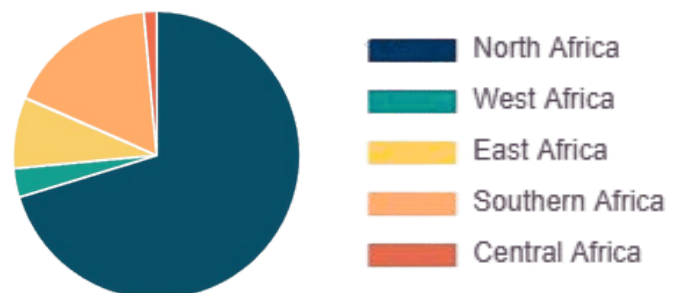
INVESTMENT PIPELINE FOR AFRICA

APPROXIMATELY

¥3,6 Trillion

PLANNED AND UNDER CONSTRUCTION

INVESTMENT DISTRIBUTION BY REGION



Clean Energy IN AFRICA

[NTCSA dashboard reveals strong renewable energy pipeline but transmission reform raises red flags](#)

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[South Africa's biggest retailer kissing Eskom goodbye](#)

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[Octopus Energy and Masdar unite to power UK and Africa](#)

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[Investec-Backed Revego Lands \\$62 Million for South Africa Energy](#)

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[South Africa's call for investment in renewable energy at Abu Dhabi Sustainability Week](#)

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[Germany affirms support for SA's clean energy transition](#)

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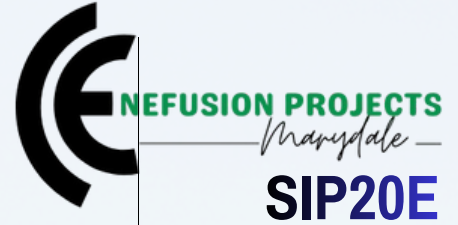
[*Africa Clean Energy Solutions \(ACES.mu\) 2025 Annual Report*](#)

[**SA Remains Africa's Energy Transition Champion With Mature Renewable Energy Market Attracting Investment, Forvis Mazars Insights Report Shows**](#)

[Read more...](#)



At Solinzi Power, we pledge this truth: the same golden sun that grows our crops today will grow tomorrow's dreams – cultivating both bread for our tables and power for our progress, without compromise."



The Marydale Enerfusion Park will create more than +15 000 Jobs



Low Cost, locally manufactured fertilizer will boost farming capacity while creating additional revenue for Farmers.



Small Businesses will develop synergies with our business operations in order to reap the benefits.

GREEN AMMONIA TECHNOLOGIES UPDATES



SOLAR POWER

TU Delft researchers have developed a liquid-based solar module encapsulation that performs on par with conventional EVA panels while offering improved recyclability and circularity. The approach is compatible with silicon and tandem perovskite/silicon cells and could support thermal management and integration into photovoltaic-thermal modules.

[Read more...](#)



BATTERY STORAGE

Conventional lithium-ion (Li-ion) batteries have transformed portable energy storage, but growing safety concerns, material supply issues, and the demands of electric vehicles, aerospace, and grid applications are driving the search for improved designs.

This infographic explores a selection of next-generation battery technologies, highlighting innovations in solid-state, lithium-sulfur, and alternative metal-ion batteries.

[Read more...](#)



WIND POWER

India is evaluating the deployment of a wind farm composed of 50 Saphonian units, each with the capacity to produce 20 kW of energy.

The total capacity is 1 megawatt and is designed to serve rural communities that still face limitations in electricity supply.

[Read more...](#)



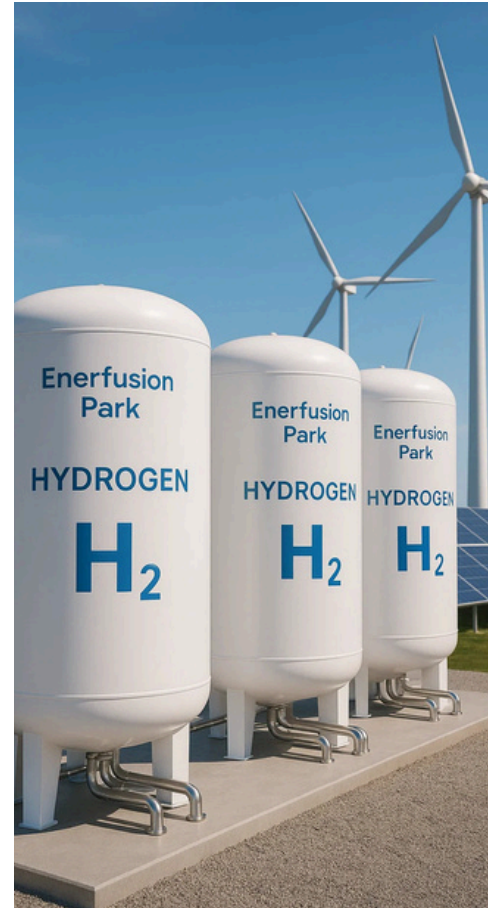
ELECTROSERS

The technology group Rheinmetall has successfully completed a project to develop a new electrode technology for alkaline electrolysis.

This technology is a key technology for the energy transition in the field of hydrogen production. Preparations for the pilot production in the coming year have already been initiated.

The KS Gleitlager GmbH (KSG), a subsidiary of the group, has been conducting research for 'Noble Metal-free Electrodes intended for the Next Generation of Alkaline Electrolysis' (E2ngel).

[Read more...](#)



Marydale Enerfusion Project Updates

Project Update: Registered under SIP20E

- Business case and market access established
- Engagement / negotiations with project technology suppliers is ongoing
- Engagements with project stakeholders, SMMEs ongoing
- Preliminary Financial Modeling Completed
- Permitting and Approvals process ongoing

Visit www.solinzipower.com to learn more about the Project

A QUOTE & WHY IT STICKS

Hosted by: [Name here]

“A GOAL WITHOUT A PLAN IS JUST A WISH.”

– ANTOINE DE SAINT-EXUPÉRY

STARTING THE YEAR WITH CLEAR ACHIEVABLE GOALS

By Brian Maphanga

At first glance, this quote hits with the gentle thud of obvious truth. But as we stand at the threshold of 2026, at least for me, this quote transforms from a **cliché into a crucial mantra**.

What makes it stick is its beautiful, brutal simplicity. Clearly Antoine draws a clear, non-negotiable line between two states of being: the **passive dreamer and the active achiever**. A "wish" is nebulous, outsourced to the universe, **"I want to be healthier," "I wish my business grew."** A **"goal,"** by Saint-Exupéry's definition, is a wish that has been through the rigors of planning. It's a wish with a **backbone**.

For 2026, this distinction should be everything. In a world of endless inspiration and motivational noise, I hope Antoine's quote cuts through the fog. Let it be the antidote to vague resolutions. Let it not dismiss your ambition ("I want to write a book in 2026"); rather let it challenge you to arm 'IT' with strategy ("I will draft one chapter per month by blocking out 9-10am every Tuesday and Thursday").

The visual metaphor is also timeless. You can see the difference. A wish floats away like a balloon. A goal is anchored by the bricks and mortar of a plan, a calendar invite, a saved amount of money, a signed-up course.

2026 Takeaway

As you define your goals for the new year, let this quote be your filter. For every aspiration, ask: "What is the very first physical, schedulable, actionable step?"

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