



THE NH3 CATALYST

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NEWSLETTER

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CORVUS DI



GREEN AMMONIA AND THE DAWN OF THE MARYDALE ENERFUSION PARK

Plan.Design.Execute

PROUDLY SOUTH AFRICAN INITIATIVE SECURES SIP STATUS

Powering Tomorrow from the Heart of the Karoo

BY BRIAN MAPHANGA

The official recognition of the Marydale Enerfusion Park as a Strategic Integrated Project is a transformative moment. It is South Africa declaring its ambition to be at the forefront of the global green energy revolution.

Here, under the vast Karoo sky, we will harness the limitless power of the sun to create Green Ammonia, a versatile and clean energy source. This is not just an industrial process; it is the alchemy of our time, turning sunlight and air into the fuel for sustainable growth, decarbonized shipping, and food security.

The SIP status is a powerful catalyst. It unlocks the potential to build a new industrial ecosystem, create skilled jobs, and export South African innovation to the world. Marydale becomes a beacon, proving that a sustainable future is also a prosperous and resilient one.

This project is a testament to what we can achieve with bold vision and collective action. It is a promise of energy independence, environmental stewardship, and national pride, forged from the very elements around us.

The journey to a cleaner, stronger future begins now. And it starts in Marydale.

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Now Available!

GREEN AMMONIA AND DERIVATIVES



GREEN AMMONIA GLOBAL MARKET



Fuel Your Week with
Cutting-Edge Energy
Updates



GreenGo Energy and SELECT ENERGY announce strategic partnership for landmark green ammonia project in Mauritania

The Megaton Moon project is developed by GreenGo Energy and is set to become one of the world's largest green ammonia production facilities.

Located 20 km south of Nouakchott, the capital city of Mauritania, the project will be powered entirely off grid by solar and wind energy.

The project will utilize a seawater desalination plant and nitrogen from air extraction to produce green hydrogen, which will be synthesized into green ammonia.

[Read more...](#)

Egypt, Chinese Envision Energy to Establish Green Ammonia Plant in Suez

[Read more...](#)

South Africa–Europe shipping route could run on green ammonia by 2029: Study

[Read more...](#)



Construction of 100-MW Hamburg Green Hydrogen Hub begins

[Read more...](#)



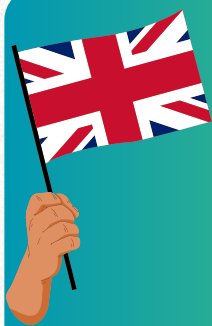
DxNH₃

FARMERS TAKE BACK CONTROL: FUELPOSITIVE'S GREEN AMMONIA REVOLUTION

October 15, 2025 — In a world where half the global population depends on nitrogen fertilizers that come with a heavy carbon cost, [FuelPositive Corporation](#) (TSXV: NHHH | OTCQB: NHHHF) is rewriting the rules of agricultural production.

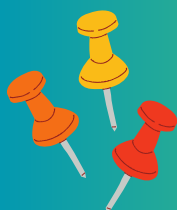
“Nitrogen is one of the most essential inputs for farmers around the world,” said Ian Clifford, CEO and Chair of FuelPositive, in a recent interview with InvestorNews host Tracy Hughes. “The production of synthetic nitrogen feeds half of the world’s population, but unfortunately, it’s also one of the most carbon-intensive manufacturing processes on the planet.”

[Read more...](#)



[United Kingdom Green Ammonia market is to reach US\\$ 770.7 million by 2030, transportation segment holds 38% Revenue | DataM Intelligence](#)

[Read more...](#)



[Fulbright scholar joins GGSIPU to explore green ammonia and hydrogen technologies](#)

[Read more...](#)



‘Almost two thirds of Africa’s new renewables capacity will be used to power green hydrogen export projects’: analyst

Almost two thirds of the large scale wind and solar projects planned across Africa are intended to power electrolyzers for green hydrogen destined for Europe markets, according to analysis by Global Energy Monitor (GEM).

GEM has identified roughly 350GW of prospective utility scale wind and solar capacity on the continent, about ten times what is currently operating- and finds that about 61% of that pipeline, some 216GW across 35 projects, is linked to hydrogen export schemes.

Those projects are concentrated in a handful of countries, including Mauritania, Mozambique, Djibouti, Namibia, South Africa, Kenya, Morocco, Egypt, Botswana and The Gambia.

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Clean Energy IN AFRICA

[The Betrayal of Local Industry in South Africa's Renewable Energy Programme.](#)

[Read more...](#)

[Why South Africa's consumer goods sector is racing to adopt renewable energy.](#)

[Read more...](#)

[Africa's new powerlines are arteries for renewable energy.](#)

[Read more...](#)

[Botswana : partnership with Oman to advance renewable energy projects](#)

[Read more...](#)

[President Ramaphosa pushes for implementation of Africa's renewable energy pledges](#)

[Read more...](#)

[Midvaal Private Hospital Powers Ahead with R34 Million Renewable Energy Breakthrough](#)

[Octopus Energy joins EU's €15bn pledge for clean energy in Africa](#)

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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."



Jobs



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

Farming



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

Economy



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

GREEN AMMONIA TECHNOLOGIES UPDATES



SOLAR POWER

JinkoSolar has once again pushed the boundaries of Solar technology, announcing a new world record conversion efficiency of 34.76% for its N-type TOPCon-based perovskite tandem solar cell. The achievement, certified by the National PV Metric and Testing Centre (NPVM), surpasses the company's previous record of 34.22% and marks the 32nd time JinkoSolar has set a world record in cell efficiency or module power. [Read more...](#)



ELECTROLYSERS

Loughborough University has teamed up with Clean Power Hydrogen plc (CPH2), a UK-based leader in Membrane-Free Electrolysers™, to accelerate innovation in affordable green hydrogen production. This collaboration aims to make hydrogen generation more efficient and cost-effective, using renewable energy to reduce reliance on fossil fuels and support the transition to a sustainable future. [Read more...](#)



WIND POWER

Recently, a team at Massachusetts Institute of Technology (MIT) improved on the Momentum Theory, devised in the 19th century to model how rotors move in an environment.

Many factors go into operating a wind farm, like continuously monitoring and changing the direction, angle and rotational speed of the turbines.

[Read more...](#)



BATTERY STORAGE

The energy storage market is booming internationally. According to Jon Moore, CEO of BloombergNEF, an analyst firm with a focus on low-carbon markets, energy storage investment increased globally by 36% in 2024. Drivers include the price of battery energy storage systems (BESS) dropping by about 20% in one year. The trajectory of energy storage over the past decade has been nothing short of spectacular. [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



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WOMEN IN ENERGY

TOP NEWS OF THE MONTH

VERTEXONE CCO TINA SANTIZO NAMED 'QUEEN MAKER' BY WOMEN'S ENERGY ALLIANCE FOR MENTORSHIP AND LEADERSHIP IN ENERGY SECTOR

by - Cision PR Newswire



READ MORE

VertexOne, a leading provider of cloud software designed to revolutionize the customer experience within the energy and utility industry, is proud to announce that Chief Client Officer, Tina Santizo, has been named the recipient of the Queen Maker award on behalf of the Women's Energy Alliance (WEA), a networking organization uniting women in the energy industry.

READ MORE <<<

The African Energy Chamber (AEC) proudly announces this year's 20 Under 40 Energy Women Rising Stars, celebrating the visionaries shaping Africa's energy future. The 20 Under 40 Energy Women Rising Stars represent the full spectrum of the energy industry across Africa – from oil to natural gas and renewables – and have emerged as the drivers of the African energy sector.

CELEBRATING THIS YEAR'S 20 UNDER 40 ENERGY WOMEN RISING STARS

by African Energy Chamber



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