

THE

CELEBRATING AFRICAN
HERITAGE

NH3 CATALYST

NEWSLETTER

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THE NH₃ CATALYST – GREEN AMMONIA MARKET & ENERGY TRANSITION DIGEST

"GREEN AMMONIA IS NO LONGER SCIENCE FICTION—IT'S A \$1.17 TRILLION REALITY BEING BUILT TODAY, ONE PROJECT AT A TIME."

BY ABIGAIL MOELETSI | CEO - SOLINZI POWER

In this edition of The NH₃ Catalyst, the message is clear: green ammonia is moving from ambition to execution. AM Green's H2Global award, South Africa's first six priority green hydrogen projects, and the Northern Cape's 40GW vision show that the race is no longer about whether the transition will happen, but who will build it.

At Solinzi Power, our Marydale Enersusion Project (SIP20E) continues to advance through permitting, financial modelling, stakeholder engagement and technology selection, steady, bankable progress that reflects our commitment to turning opportunity into delivery.

Steve Jobs reminded us that innovation distinguishes leaders from followers. The challenges around power, water, grid and bankable offtake are significant, but they are exactly where disciplined creativity and strong partnerships matter most.

I thank our team, communities, investors and partners for their continued trust. We will keep challenging assumptions, improving our plans and working to ensure that South Africa captures real, lasting value from the green hydrogen and ammonia economy.

Visit Our Website, to learn more about our company and services
WWW.SOLINZIPOWER.COM

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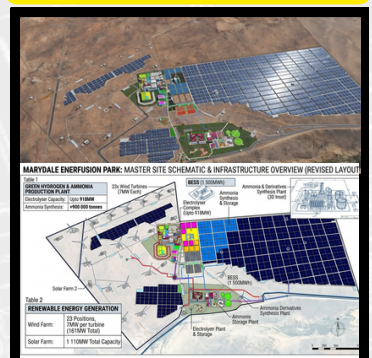
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GIS & DESIGN SERVICES



GREEN AMMONIA GLOBAL MARKET



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SOLINZI
NEWSLETTER



Fuel Your Week with Cutting-
Edge Energy Updates



AM Green Wins €585M [\$664.4M] H2Global Green Ammonia Deal for Germany

AM Green Ammonia (India) Private Limited ("AM Green") has been selected as the sole winner of the Asian lot in the H2Global auction run by HINT.CO GmbH ("Hintco"), securing a long-term purchase agreement for the supply of Renewable Fuels of Non-Biological Origin (RFNBO) ammonia to Germany.

The award follows a competitive bidding process in which AM Green's offer was ranked first among the submissions received. Over a period of 10 years, Hintco will purchase ammonia from AM Green for a minimum value of EUR 585 million.

Hintco may purchase additional quoted volumes from AM Green using proceeds generated from the resale of green ammonia in the European market.

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Climate Fund Managers Reaches First Close Of SA-H2 Fund at ZAR 3 billion

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Kazakhstan and Germany Deepen Green Hydrogen and Energy Cooperation

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South Africa's \$5.8bn green hydrogen ammonia project takes big leap forward

[Read more...](#)



Fuel Your Week with Cutting-Edge Energy Updates

GREEN AMMONIA GLOBAL MARKET

Green Hydrogen and Ammonia GIS Data Mapped and owned by Solinzi Power

GREEN HYDROGEN SUMMIT
Cape Town | 15-19 September 2026

President Cyril Ramaphosa
Virtual keynote address

Africa Green Hydrogen Summit (AGHS) 2026
President Cyril Ramaphosa will virtually deliver the keynote address at the Africa Green Hydrogen Summit (AGHS) 2026.

Tuesday, 15 September 2026 | Cape Town | Virtual | 15-19 September 2026

A NATION THAT WORKS

SEZs have the potential to position SA as a producer of green hydrogen

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NEOM Green Hydrogen Plant: \$8.4B, 80% Complete, 30-Year Off-Take Deal

[Read more...](#)

South Africa Names Six Priority Green Hydrogen Projects

President Cyril Ramaphosa has announced the first wave of six priority green hydrogen projects under South Africa's national green hydrogen programme, signalling a shift from project planning to implementation and investment.

Addressing the African Green Hydrogen Summit in Cape Town on Tuesday, President Ramaphosa said the six projects emerged from a rigorous assessment process aimed at standardising project bankability and strengthening investor confidence.

The President's address was delivered on his behalf by Electricity and Energy Minister, Dr Kgosientsho Ramokgopa.

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India tenders 54,000 tonnes of green ammonia for fertiliser plant

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Catalyzing the Transition: Africa's Green Hydrogen Future



**GIS DATA
AVAILABLE**

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



THE 40GW QUESTION: WHAT IT WILL TAKE FOR THE NORTHERN CAPE TO BECOME SOUTH AFRICA'S HYDROGEN POWERHOUSE

BRIAN MAPHANGA
CHIEF OPERATING OFFICER & CO-FOUNDER
WRITTEN BY

The Northern Cape has set itself an ambition few regions in the world would dare to put on paper: up to 40GW of green hydrogen production capacity by 2050, anchored around the proposed Boegoebaai port and the Namakwa SEZ.

South Africa's new Green Hydrogen Deal Book (published September 2026 by the GH2 JET IP PMO, hosted by the IDC) gives the first standardised, like-for-like view of how far the country has actually come. The picture is encouraging at the national level and sobering for the province. For developers, that gap is the opportunity.

What has been selected so far

Seventeen projects completed the first Power-to-X Project Development Standard assessment, which closed on 10 July 2026. Six were selected as the leading first-wave opportunities. Their electrolyser capacity is summarised below, using the deal book's project tables.

Project	Province	Electrolyser (MW)	FID window
Coega Green Ammonia	Eastern Cape	850	6–12 months
Saldanha Hydrogen DRI	Western Cape	475	12–18 months
Phelan Green Group, Project Saldanha	Western Cape	250	under 6 months
Prieska Power Reserve	Northern Cape	~110–120	12–18 months
Green e-Fuels Producers	Gauteng (Vaal SEZ)	10	12–18 months
Green Hydrogen Solutions (ELIDZ)	Eastern Cape	10	under 6 months
Total		≈1,700	

Two things stand out.

The whole first wave is about 1.7GW, roughly 4% of the Northern Cape's 40GW ambition and under 9% of the halfway mark of 20GW. And that 1.7GW is national, not provincial.

The Northern Cape's entire share of the selected pipeline is one project. Prieska Power Reserve (SIP 20e) is a 110–120MW, island-mode complex producing about 45ktpa of hydrogen, converted into ammonia, nitric acid and ammonium nitrate for domestic mining and fertiliser customers. It is a well-prepared project: environmental authorisations held, land under lease, and KfW approval of the financial model. Even so, it represents roughly 0.3% of the provincial target. The deal book also describes Boegoebaai as a programme under strategic environmental assessment, "not yet an operating hydrogen port", and Namakwa SEZ as a proposed platform.

The timelines are equally telling. Even if every first-wave project reaches FID on schedule, commissioning runs from about 2028 (Phelan) to 2031 (Coega phase 1). Prieska targets FID in Q1 2028. The deal book itself describes the Northern Cape's 40GW as an ambition, with scale as its strength and "capital intensity and the pace of grid, water and port delivery" as its key risk.

The long road to even half

Some arithmetic (mine, not the deal book's) shows the scale of the task.

- **Generation.** The first-wave projects pair about 2.4 to 3.4MW of wind and solar with every MW of electrolyser (Coega, for example, needs 2,930MW of renewables for 850MW of electrolysis). Applying that range, 20GW of electrolyzers would need roughly 50–70GW of new renewable generation. South Africa's entire installed fleet today is about 51.7GW. The national SAREM target is 29.5GW of new capacity by 2030.
- **Pace.** Starting from about 2032 and reaching 20GW by 2050 means installing around 1GW of electrolyzers every year for nearly two decades in one province. The full 40GW means roughly 2GW a year. For comparison, global installed electrolysis capacity doubled to just over 4GW in 2025, so 2GW a year in the Northern Cape alone is about what the whole world added last year.
- **Demand.** The IEA data cited in the deal book shows low-emissions hydrogen at under 1% of the 103Mt global market, and only 4.3Mt of the 27Mt of announced 2030 projects (about 16%) has reached FID. Hydrogen is not scarce. Bankable offtake is.
- **Capital.** The deal book's JET IP chart shows about 89% of the green hydrogen funding need still outstanding.

None of this makes 40GW impossible. It does mean the target cannot be met by two or three flagship projects, and that the province needs many more developers solving the same three problems: power, wires and water.

CORN, SOYBEAN PRICES SURGE AMID FERTILIZER SUPPLY CONCERNS, MIDDLE EAST TENSIONS

Geopolitical tensions in the Middle East and resulting supply chain disruptions in the Strait of Hormuz have triggered a severe supply crunch in the global fertilizer market, driving up corn and soybean prices.

Diammonium phosphate, a key fertilizer for staple agricultural crops, surged 28.4% in the first nine months of the year to \$802.5 per metric ton.

The rise from \$625 per ton at the end of 2025 pushed up costs for major agricultural commodities, with corn prices rising 13.3% and soybeans 22.6%.

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UN official warns inaction on Hormuz fertilizer flows could push millions into food insecurity

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China scores jackpot with record 98.24% pure natural hydrogen discovery in Sichuan

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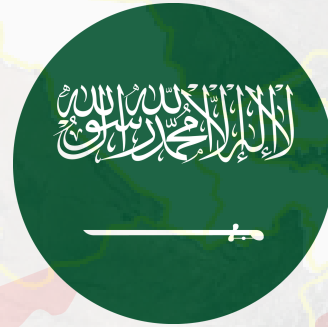
3 Fertilizer Stocks to Keep an Eye on Amid Industry Headwinds

The Zacks Fertilizers industry continues to face headwinds from elevated costs for key raw materials, partly due to war-related disruptions, putting pressure on industry players' margins. Elevated fertilizer prices and higher input costs could also prompt growers to reduce application rates due to affordability issues, potentially weighing on fertilizer demand.

However, increased fertilizer prices augur well for the companies in this space. Fertilizer players such as Nutrien Ltd. NTR, ICL Group Ltd ICL and Intrepid Potash, Inc. IPI are worth a look, notwithstanding the near-term headwinds.

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GIS DATASETS



DATASETS AVAILABLE IN ALL FORMATS

Email: admin@solinzipower.co.za

Clean Energy IN AFRICA

Powering progress: The pivotal role of logistics in Africa's renewable energy boom

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AEW 2026 to Put Gas-to-Power and Renewables at the Heart of Africa's Energy Transition

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Renewables reshape global energy security amid Middle East conflict

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South African REITs turn renewable energy and water resilience into operational strategy

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U.S. energy giant expands into Africa's largest oil reserve holder as KBR explores renewable energy opportunities in Libya

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Nigeria: New distributed renewable energy investments and commitments

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Africa's energy future will be defined by resilience, not just resources

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Renewable energy was promised as a path to prosperity — what happened?

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GREEN AMMONIA TECHNOLOGIES UPDATES



SOLAR POWER

Up to 160 next-generation **solar** modules will be mounted outdoors and exposed to the conditions lab experiments can't fully replicate – changing temperatures, humidity, intense ultraviolet light, rain, salty air and storms. Some modules could fail an important performance threshold within months – but UNSW's Dr Jessica Yajie Jiang says this is what makes the work valuable.

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BATTERY STORAGE

Utilities are increasingly using large battery systems to store electricity, helping meet peak demand, support renewable energy and hold down prices. Those benefits have prompted states across the country to offer incentives for more battery storage. But the expansion has also run into resistance.

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WIND POWER

The Derbyshire-based company plans to build its first recycling unit tackling wind turbine blades. An innovative process uses steam and pressure to separate composites into their component parts. This allows materials and compounds to be recovered rather than sent for disposal.

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ELECTROSERS

Sasolburg, Free State Province -- The Minister of Science, Technology and Innovation, Professor Blade Nzimande, today officially launched the 2kW Proton Exchange Membrane (PEM) Electrolyser System at Sasol One, Sasolburg Operations, marking an important step in South Africa's efforts to build a competitive green hydrogen innovation ecosystem.

The launch took place on the final day of the inaugural National Science Month, held under the theme "Science, Technology and Innovation Are for Everyone."

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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]

"INNOVATION DISTINGUISHES BETWEEN A LEADER AND A FOLLOWER."

— STEVE JOBS

THE LINE BETWEEN LEADING AND FOLLOWING

Steve Jobs famously said, "Innovation distinguishes between a leader and a follower." At its heart, the quote is not just about technology or products. It is about mindset. Followers wait for a proven path, then compete on price, speed, or incremental improvement. Leaders create a new path altogether. They do not simply ask, "How can we do this better?" They ask, "What should be done differently?"

Apple under Jobs became the classic example. The iPod was not the first MP3 player, but combining it with iTunes changed how people bought and listened to music.

The iPhone was not the first smartphone, but it redefined what a phone could be. In both cases, innovation was not a single invention. It was a system: design, software, services, and user experience working together.

But innovation is not limited to gadgets. It can be a new business model, a faster supply chain, a different way to train employees, or a more humane approach to healthcare. Wherever it appears, innovation shifts the conversation. Followers react to the market; leaders shape it. That is why innovative companies often set the rules that others must later follow.

Yet the quote is also a simplification. Innovation alone does not guarantee success. Timing, execution, resources, and market readiness matter enormously. Many pioneers fail; many fast followers win by learning from the first mover's mistakes. So being a follower is not automatically failure. The real distinction is whether an organization is content to imitate or determined to create.

Innovation also requires a culture that supports it. That means curiosity, tolerance for smart failure, diverse perspectives, and the courage to challenge assumptions. It means rewarding questions, not just answers. Jobs himself embodied this: he was demanding, inconsistent, and often difficult, but he refused to accept "good enough" as the final answer.

In the end, the quote is less a law of business than a challenge. If you want to lead—whether a company, a team, or a career—do not just copy what works today. Ask what could work tomorrow. Innovation is risky, messy, and uncertain. But it is also how leaders turn the future from something that happens to them into something they help create.

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