

AFRICA DOWN UNDER PRESENTATION

September 2022



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Competent Person Statement

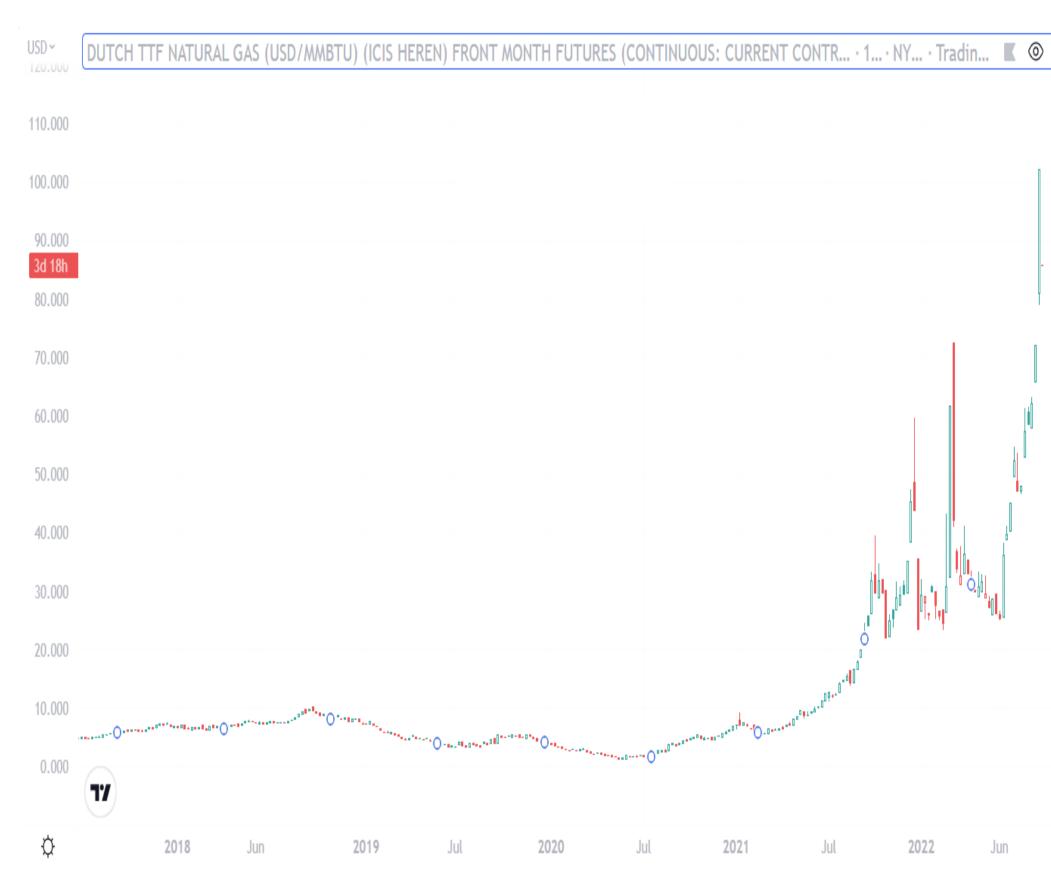
The Competent Person with responsibility for the total Mineral Resources of this report is Mrs Kathleen Body, Pr. Sci. Nat, who is registered as a Professional Natural Scientist with the South African Council for Natural Scientific Professions ("SACNASP"). She is an Associate Resource Geologist with SRK Consulting (UK) Limited and the Director and a Principal Consultant of Red Bush Analytics. Mrs Body was a fulltime employee of Coffey Mining at the time the original Mineral Resource estimation was completed in 2013. Mrs Body has 26 years' experience in the mining industry and has sufficient experience which is relevant to the style of mineralization and type of deposit under consideration and to the activity which she is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Mineral Reserves. Kathleen Body consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.

Forward Looking Statements

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Gas prices are driving fertilizer and food prices





Chris Lawson • 2nd Head of Fertilizers - CRU 2d • S

At least 50% of European **#ammonia** capacity has been curtailed. The reality is likely higher than this... The repercussions could be extraordinary and expand well beyond **#agriculture** and **#fertilizers**.

We have made our European **#nitrogen** tracker publicly available this week. If you have any questions, please do get in touch...



Europe nitrogen capacity closure and cost tracker

www.crugroup.com · 2 min read

CO 180

10 comments · 22 shares

Like

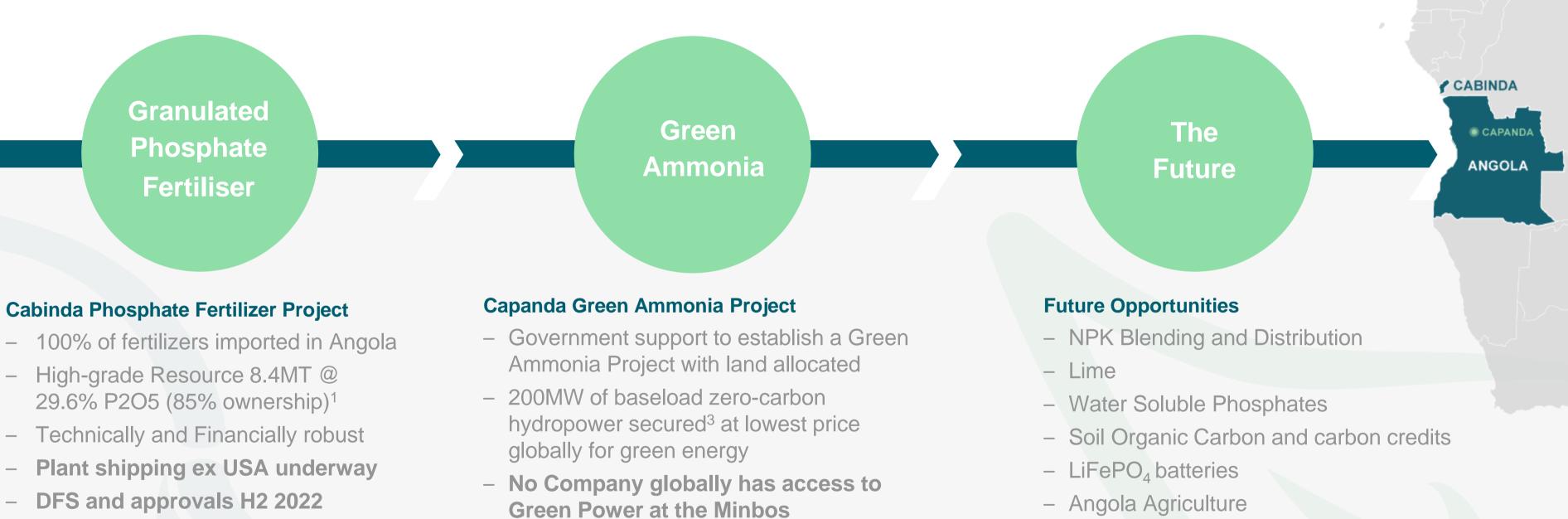
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Investment Overview

Development of food security & clean energy projects in Angola



- —

- **Production in 2023**

- concessional price
- Access to local markets to sell Ammoniabased fertilizer and explosives
- MOU signed with Stamicarbon
- Technical study underway

2. Project Economics to be updated with DFS due Q1 2021, with likely increase to CAPEX

3. Per ASX Announcement 25th May 2020, power allocation and pricing secured, confirming that we have a resolution from RNT and in process of negotiating the formal, binding MOU



- 1,000 -1,500mm annual rainfall

- 57M ha arable land

ASX:MNB | 4

^{1.} ASX Announcement - Resource Update for High-Grade Cabinda Phosphate Project (23 Nov 2021).



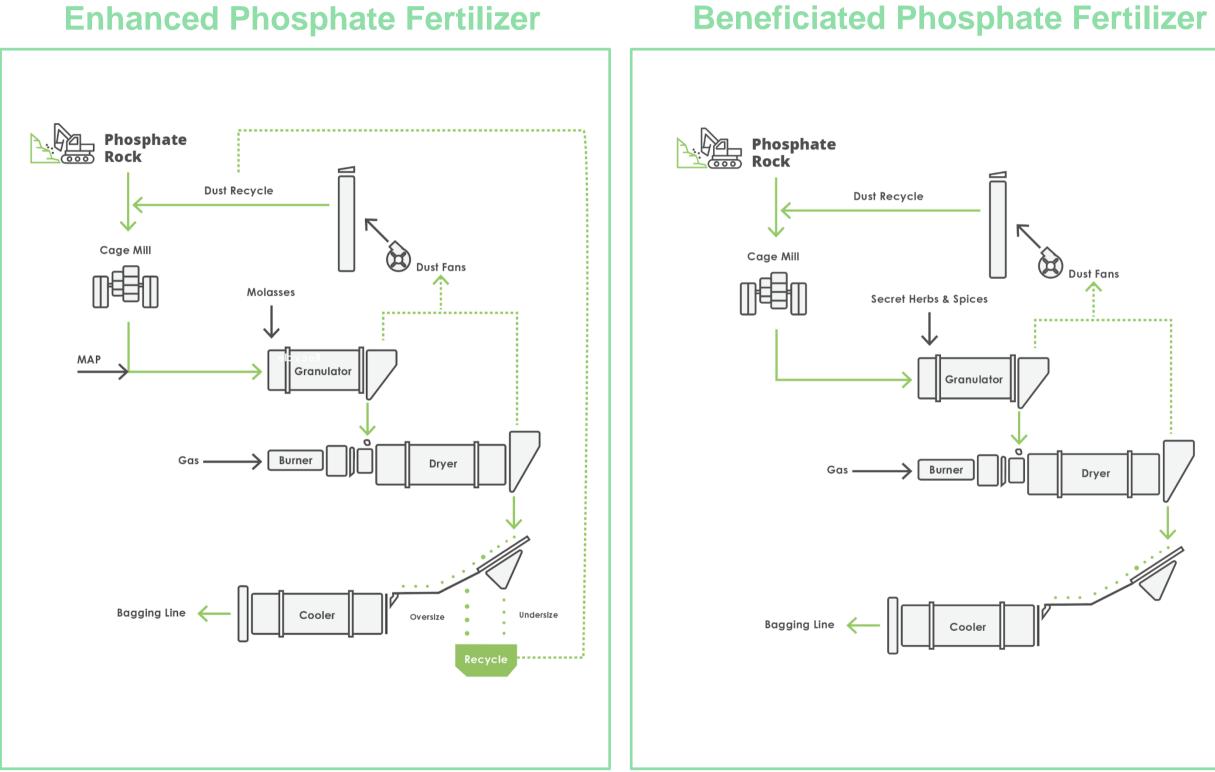
PHOSPHATE FERTILIZER PLANT, READY TO SHIP, READY TO GROW

Phosphate fertilizer plant dryer drum, ready to be shipped from FEECO headquarters USA



FLOWSHEET FLEXIBILITY

- PLANT DESIGN DELIVERS MULTIPLE PRODUCT OPTIONS



DFS FLOW SHEET



Super Phosphate Fertilizer Phosphate Dust Recycle Cage Mill Dust Fans Acid Burner Gas Dryer Bagging Line 🔶 Cooler Oversize

ANGOLA FERTILIZER & FARM PRODUCTIVITY PROGRAM (AFFPP)

- LINKING FARMERS TO OUR LOCALLY PRODUCED FERTILIZER

The '**Grow to Eat'** market comprises 3 million smallholders on 5 million hectares – AFFPP aims to double the yields of this sector.



Produce fertilizers from local resources



Strong Government policies to support fertilizer sector



Build farmer knowledge on fertilizer use & soil fertility management



Develop input & output markets

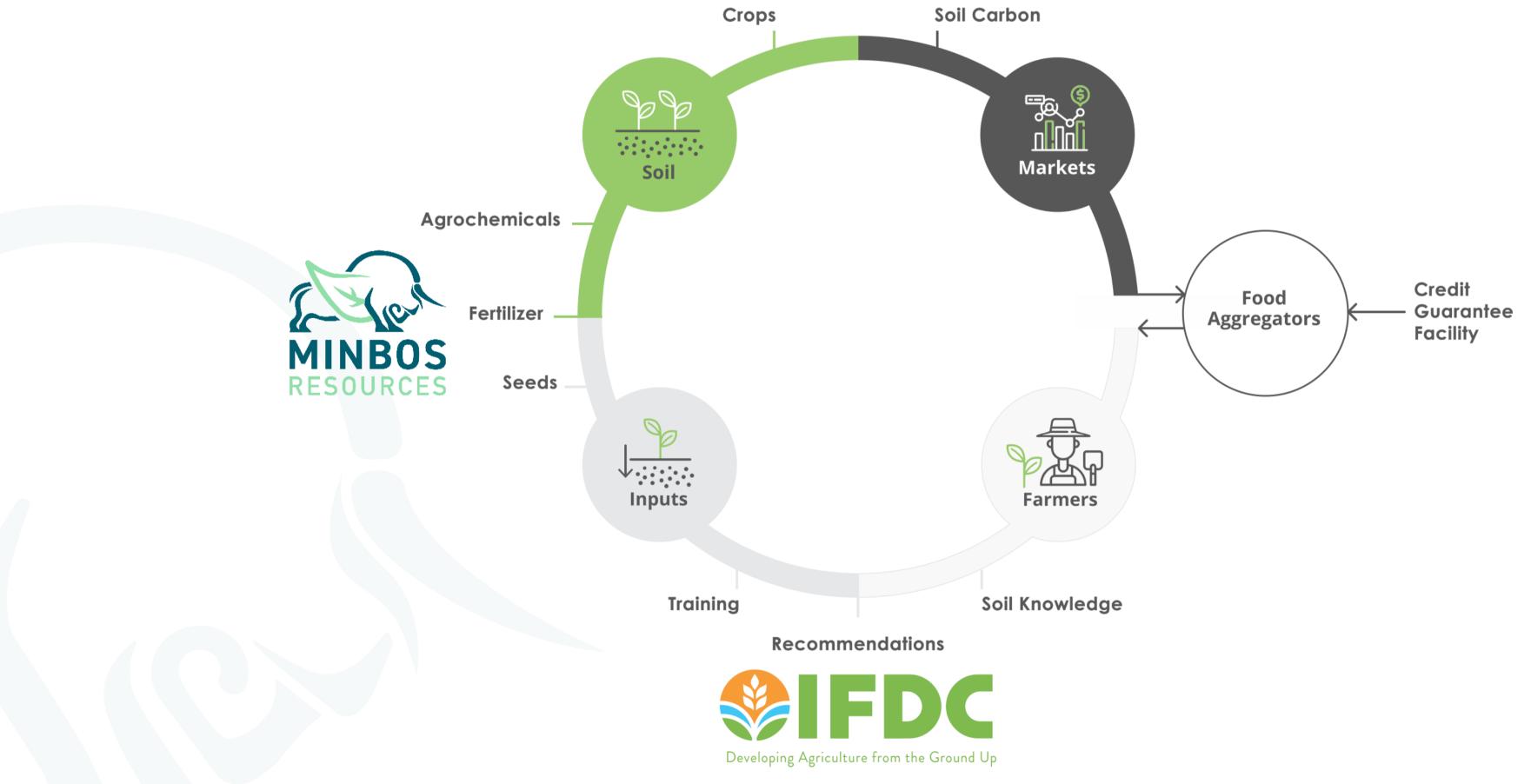
MOU for AFFPP lodged with the Angolan Government

YEAR	TOTAL CABINDA (t)		
	Low		High
23/24	36,372		140,938
24/25	40,014		160,055
25/26	43,655		179,172
26/27	52,076		217,406
27/28	63,227	-	255,641
28/29	77,110	-	299,337
29/30	90,993	-	343,033
30/31	104,876	-	386,730
31/32	118,758	-	430,426
32/33	132,641	-	446,812

Local Fertilizer – 450,000 tonnes per year

IFDC and Minbos - the missing links

- Farmers, Markets, Aggregators and Infrastructure already in place







THE MOST COMPELLING GREEN AMMONIA PROJECT GLOBALLY



Background

- Why Minbos & Green Ammonia?



93 countries with net-zero targets by 2050 (~70% global GDP & ~90% of global emissions)¹

55 countries with CO2 pricing initiatives & 39 with announced hydrogen strategies²

More than 60 Green Ammonia plants were announced 2020-2021³

Green hydrogen-ammonia expected to be critical contributors to the world achieving net-zero carbon emissions by 2050

Global ammonia demand 183 Mt (2020) to grow to 688 Mt by 2050



Natural gas represents 80-90% of the variable costs in fertilizer production

72% of ammonia is produced from natural gas (22% from coal)

Surging prices for natural gas caused by war in Ukraine and the clean energy transition

Global fossil-fuel ammonia output cut due to a surge in natural gas prices

Green Ammonia currently represents 0.01% of Global Ammonia Production⁵

3. ANGOLA'S **GREEN ENERGY** ADVANTAGE

Green Projects rely on green energy sources

Angola has the cheapest, greenest power globally with no large CAPEX costs attached for new Green Projects, including:

World-leading installed Hydro Power Generation powering most baseload power and 1,000MW of spare capacity

Cheapest power prices globally, Angola 1.7c/kWh vs. Australia 15.7c/kWh (industrial)⁴

- 1. https://hydrogencouncil.com/en/hydrogen-insightsupdates-july2021/
- 2. https://eciu.net/analysis/reports/2021/taking-stockassessment-net-zero-targets
- 3. IRENA Innovation Outlook Ammonia 2022
- 4. IEA Global Energy Report 2021
- 5. IRENA Innovation Outlook Ammonia 2022







Minbos has secured 200MW of Zero-Carbon hydroelectrical baseload power:

An electricity price of US 1.5c/kWhr is equivalent to a gas price of \$4/GJ for fossil-based ammonia production

Minbos' concession delivers a weighted average cost of power of US 1.1c/kwh

~90% cheaper than Australian power grid pricing

~55% cheaper than natural gas prices

No Company globally has access to Green Power at the Minbos concessional rates



1972 - commissioning of the electrolysis plant at Kariba Dam, Zimbabwe.

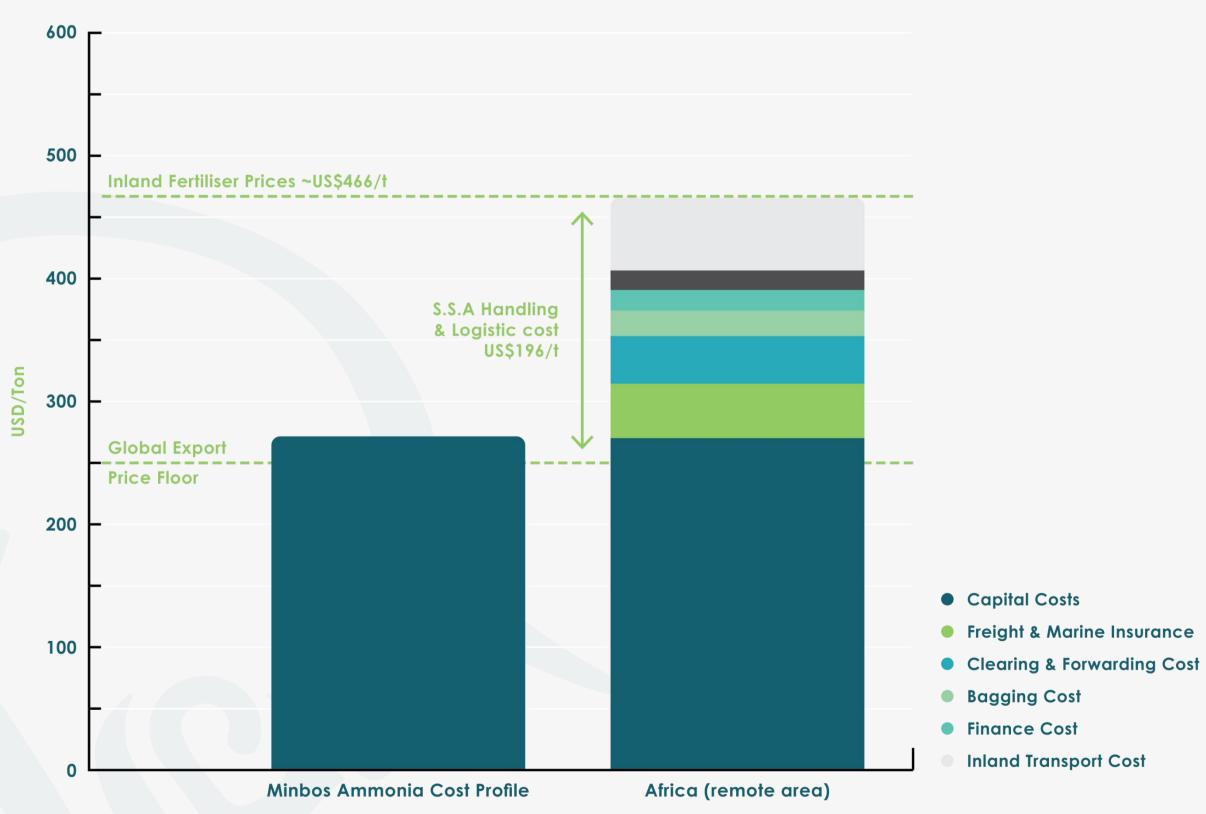
Taking advantage of the low cost and abundant source of energy from Kariba Dam, Sabre Chemicals established an electrolysis plant to produce hydrogen for ammonia production on site, catering for up to 70% of Sable's ammonia requirements at its peak.

The plant in itself was unique and ground breaking in many respects and was for many years the largest electrolysis plant in the world.

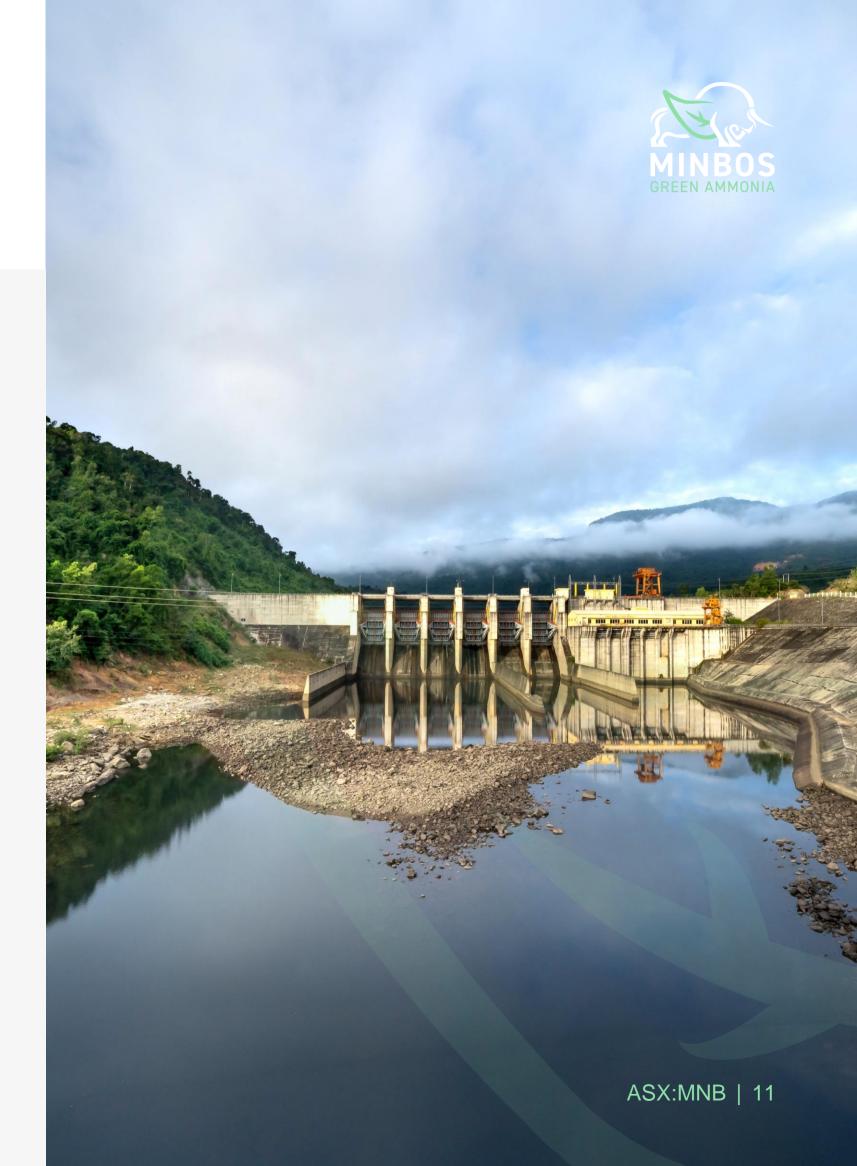
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Why making Green Ammonia locally matters

— Our US\$200/t local for local advantage



Source: Stamicarbon CAN analysis derived from AFAP/IFDC



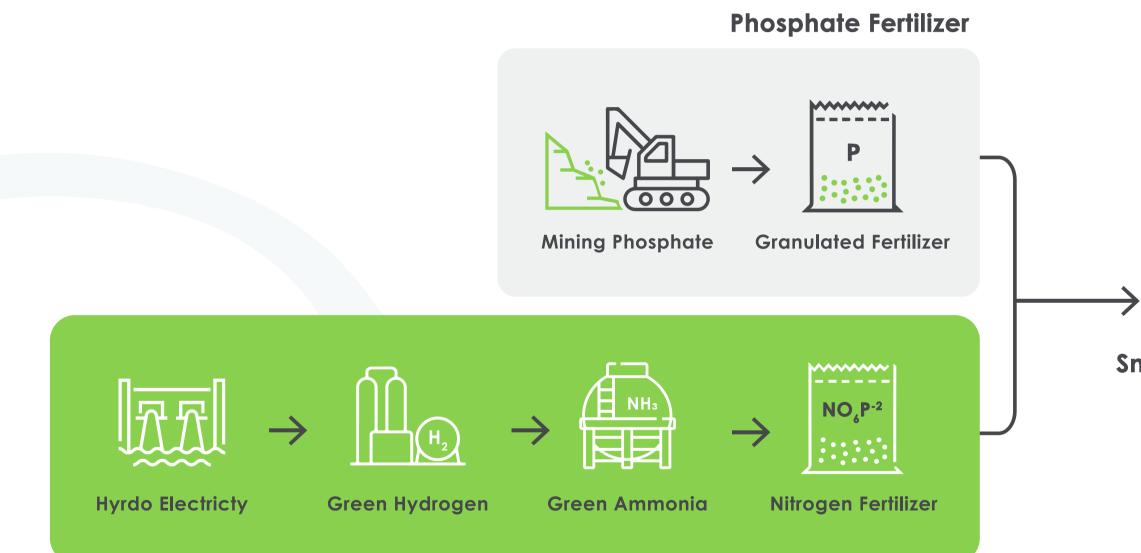


Soil Health is Soil Carbon



Build the soils, sequester the carbon

— Good for soil, good for the farmer, good for the environment, good for business

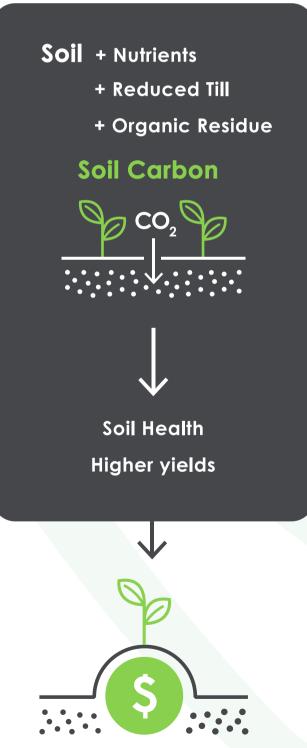


Nitro-phosphate Fertilizer





3 Million **Smallholder Farmers**



Carbon Credits

Soil Carbon Potential

- Grow to Eat area has unique Soil Carbon Opportunity

Pre-requisites for Soil Carbon Sequestration

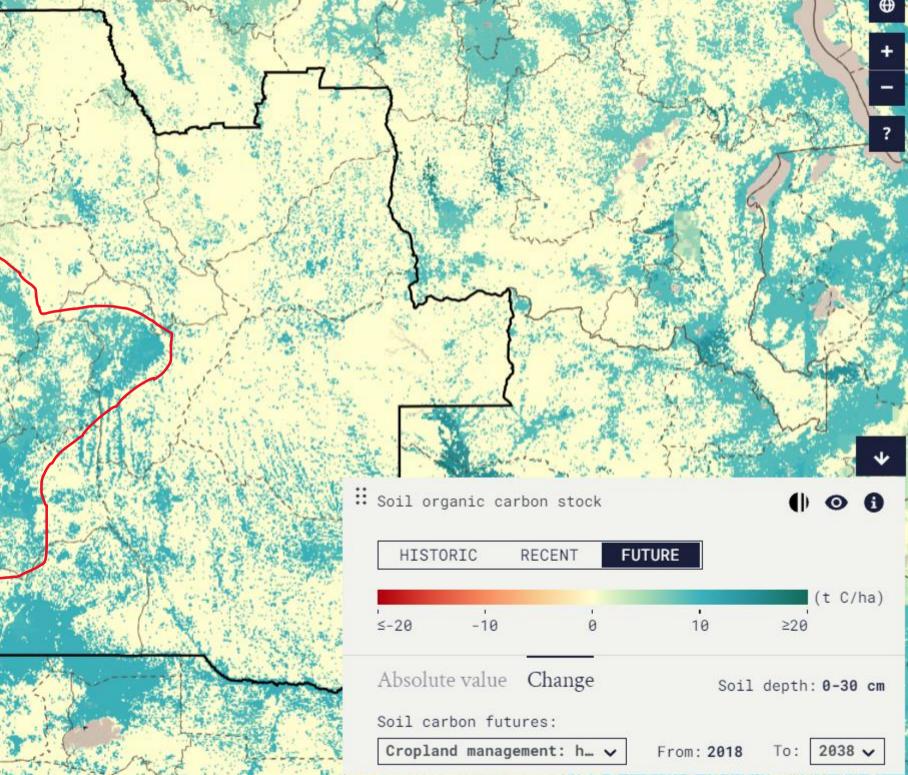
- High rainfall Grow to Eat area annual rainfall around
 1000mm
- Soil clay content >10% Grow to Eat around 20% clay content
- Nutrient depletion in the Grow to Eat area due to no nutrient replacement by fertilizer, burning organic residues and high tillage

Soil Carbon levels can be increased by replacing nutrients removed by crops, retaining organic residues and employing low tillage methods

Improving Soil Carbon helps creates nutrient and soil buffers in the soil providing resilience for climate variation







Next 12 months

Development of food security & clean energy projects in Angola

Granulated Phosphate Fertiliser Green Ammonia

Cabinda Phosphate Fertilizer Project

- 100% of fertilizers imported in Angola
- High-grade Resource 8.4MT @ 29.6% P2O5 (85% ownership)¹
- Technically and Financially robust
- Plant shipping ex USA underway
- DFS and approvals H2 2022
- Production in 2023

Capanda Green Ammonia Project

- Government support to establish a Green Ammonia Project with land allocated
- 200MW of baseload zero-carbon hydropower secured³ at lowest price globally for green energy
- No Company globally has access to Green Power at the Minbos concessional price
- Access to local markets to sell Ammoniabased fertilizer and explosives
- MOU signed with Stamicarbon
- Technical study underway
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