

# Namibia's Road to GH2

## *The Publicity Journey-How we got here...*

| Jona Musheko-Manager of External Affairs & Communications

M. Marketing  
H. Communications  
H. Linguistics Studies

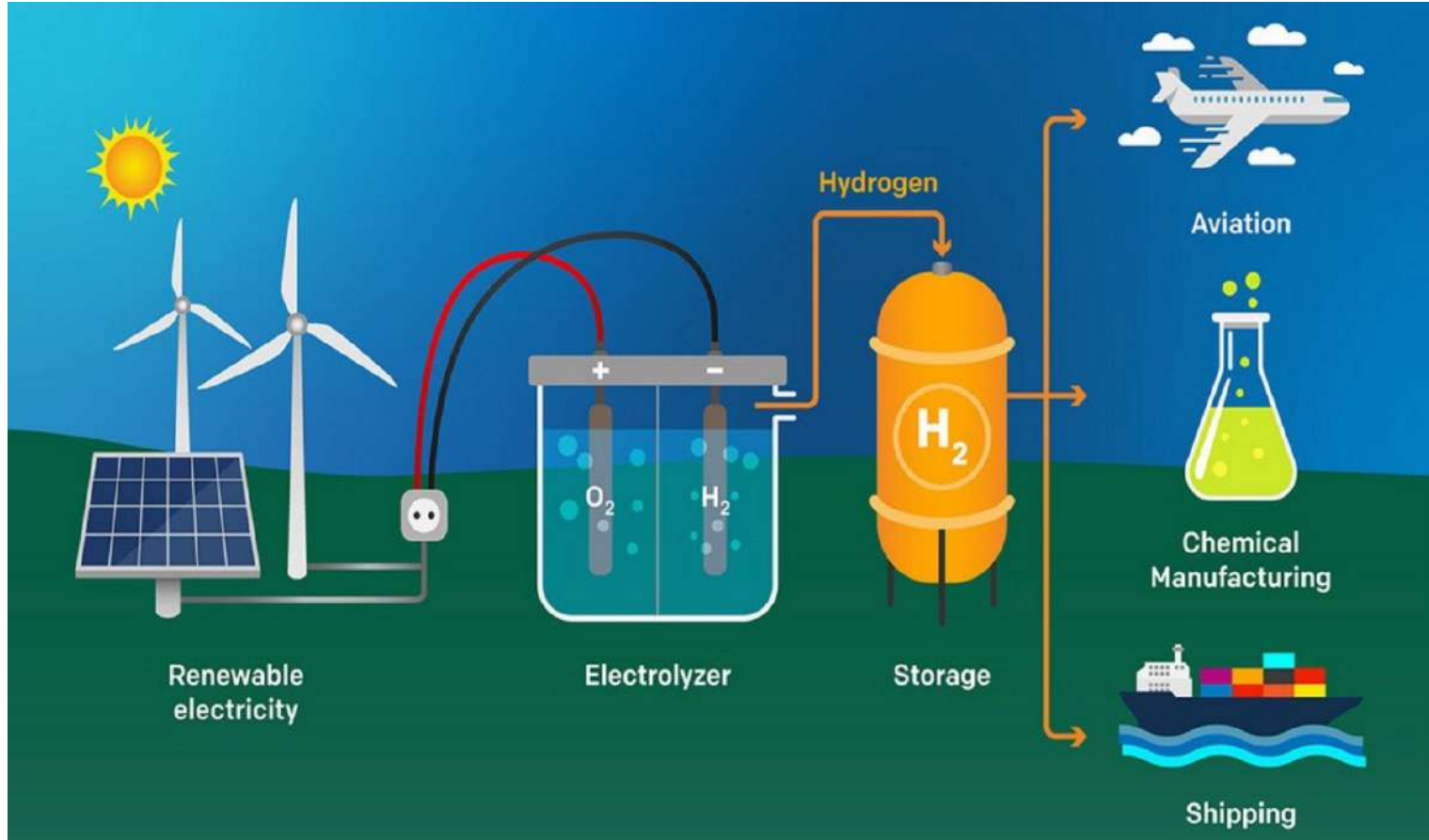


# OUTLINE

- What is green hydrogen?
- Why GH2?
- GH2 Vision
- Green Industrialisation
- Green Hydrogen Projects in Nam
- How we changed the narrative/Comms



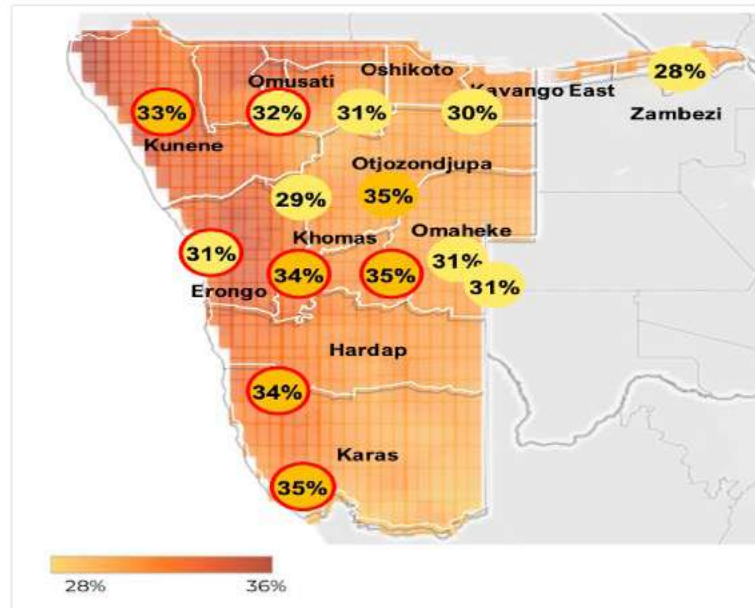
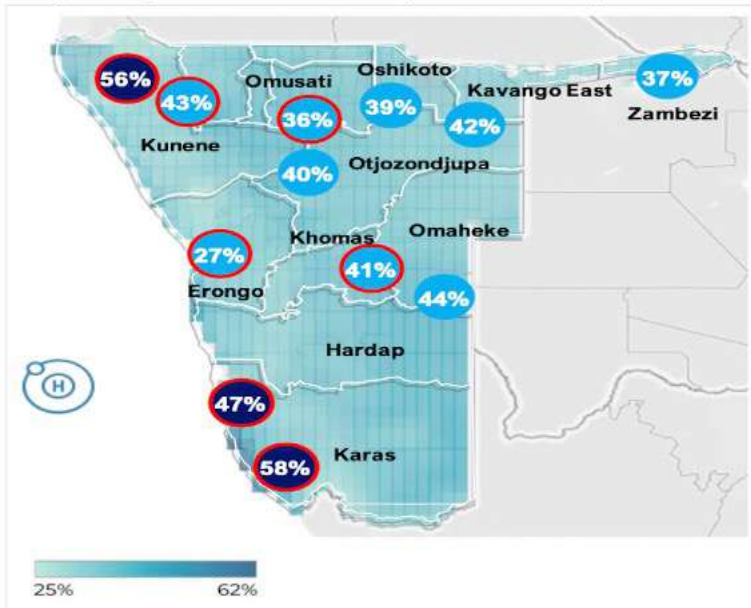
# What is Green Hydrogen?





# Why Green Hydrogen?

- Green hydrogen plays a crucial role in global decarbonization. Global demand for hydrogen and derivatives is expected to soar.
- With its world-class renewable energy sources, Namibia is poised to help fill the anticipated global hydrogen demand-supply gap.



Offshore wind Europe CF: 35.9 %

Global average CF solar: 10-25%





# Green Hydrogen Vision

## Vision for Namibia's three green valleys

Illustrative

### Northern Region

Hybrid renewable production (solar PV + onshore wind) will feed electrolysis plant and ammonia production near the new port facility

### Confirmed pilot projects in Central Region

Project 1: Green Hydrogen Applications in the Port Environment

Project 2: Hydrogen-Diesel Dual Fuel Locomotive Pilot Project Proposal for Namibia

Project 3: Daure Green Hydrogen - agriculture

Project 4: hydrogen-Pilot Plant / Refueling Station in Walvis Bay

### Central Region

Solar PV power production with electrolysis, ammonia and terminal for synfuels for export from Walvis Bay port; hydrogen can be also used domestically for trains, agriculture, and boats

### Southern Region

Hybrid renewable production (solar PV + onshore wind) will feed electrolysis and derivative plants for export from Luderitz port connected by a hydrogen pipeline

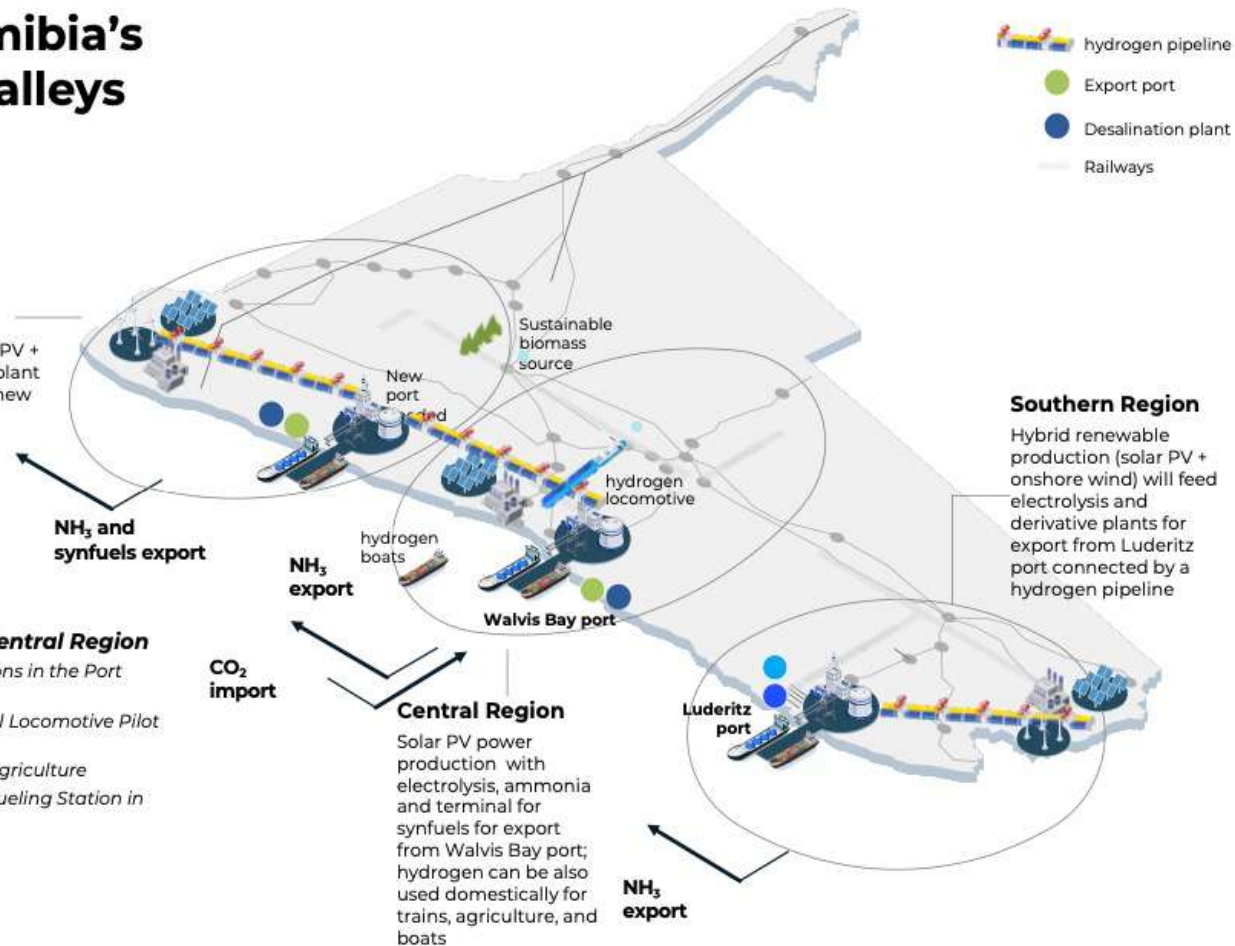


Exhibit 12: Hydrogen end-use demand by region in a net zero scenario










## The First Namibia Green Product





# Green Industrialisation - Infrastructure

		Rationale	Investment requirements	Policy considerations
Rail	 p.28	<ul style="list-style-type: none"> <li>› Extend cost-effective transport distances to capture regional trade from further afield.</li> <li>› Bulk capacity to transport minerals &amp; inputs needed for target industries.</li> </ul>	<ul style="list-style-type: none"> <li>› Track upgrade to SADC standard (speed &amp; axle load)</li> <li>› Rolling stock replacement</li> <li>› New rail connections to Zambia, Botswana and beyond</li> </ul>	<ul style="list-style-type: none"> <li>› Reform international freight policy.</li> <li>› Digitise border processing</li> <li>› Scale-up Corridor Trip Monitoring System pilot.</li> </ul>
Ports	 p.29	<ul style="list-style-type: none"> <li>› Broaden commodity type &amp; capacity that can be exported. Non-container capacity currently constrained.</li> <li>› Ensure specialised deepwater capacity for gH<sub>2</sub> industries and offshore oil/gas.</li> </ul>	<ul style="list-style-type: none"> <li>› New deepwater ports: Walvis Bay North Port, Angra Point, and (in long term) Cape Fria</li> <li>› Sustaining capex at Walvis Bay</li> <li>› Quay extension at Lüderitz</li> </ul>	<ul style="list-style-type: none"> <li>› Regulations and policy required to accommodate new industries.</li> <li>› Need for skilled logistics professionals.</li> </ul>
gH <sub>2</sub>	 p.30	<ul style="list-style-type: none"> <li>› Monetise world-class solar and wind resources via liquid energy trade.</li> <li>› Underpin investment opportunities in gH<sub>2</sub> upstream/downstream, and energy intensive industries.</li> </ul>	<ul style="list-style-type: none"> <li>› Hydrogen technology pilots</li> <li>› GW scale solar and wind farms</li> <li>› Electrolysis/ammonia/desal plants</li> <li>› Electricity transmission and gH<sub>2</sub> pipelines to supply neighbours</li> </ul>	<ul style="list-style-type: none"> <li>› Broker offtake/market access.</li> <li>› Raised blended finance to support investments.</li> <li>› Develop gH<sub>2</sub> and synthetic fuels regulatory framework.</li> </ul>
Electricity	 p.31	<ul style="list-style-type: none"> <li>› With hydro vulnerable and imports requiring renegotiation, renewables can reduce import-dependency</li> <li>› They also lower tariffs, green the sector, &amp; expand access to electricity</li> </ul>	<ul style="list-style-type: none"> <li>› Continued private investment in renewables generation</li> <li>› Public sector investment in transmission &amp; battery storage infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>› Renewables combined with battery storage could enable a zero-carbon energy sector.</li> <li>› Continued competition in generation key to further lowering consumer tariffs.</li> </ul>
Industrial zones	 p.32	<ul style="list-style-type: none"> <li>› Avoid risk of enclave industry with limited domestic value add.</li> <li>› Establish common user infrastructure to lower development cost and risk.</li> <li>› Clustering industries to minimise footprint and maximise efficiencies.</li> </ul>	<ul style="list-style-type: none"> <li>› Town planning and infrastructure @ Lüderitz</li> <li>› !Nara Namib Industrial Economic Zone @ Walvis Bay</li> <li>› Common user infrastructure for Southern Valley gH<sub>2</sub></li> </ul>	<ul style="list-style-type: none"> <li>› Skill-specific training centres and programmes needed.</li> <li>› Develop tailored gH<sub>2</sub> zoning regulations.</li> <li>› Support to local firms to exploit linkage opportunities.</li> </ul>



**Focus Area**  
Green Industries



# Green Industrialisation-Regional View

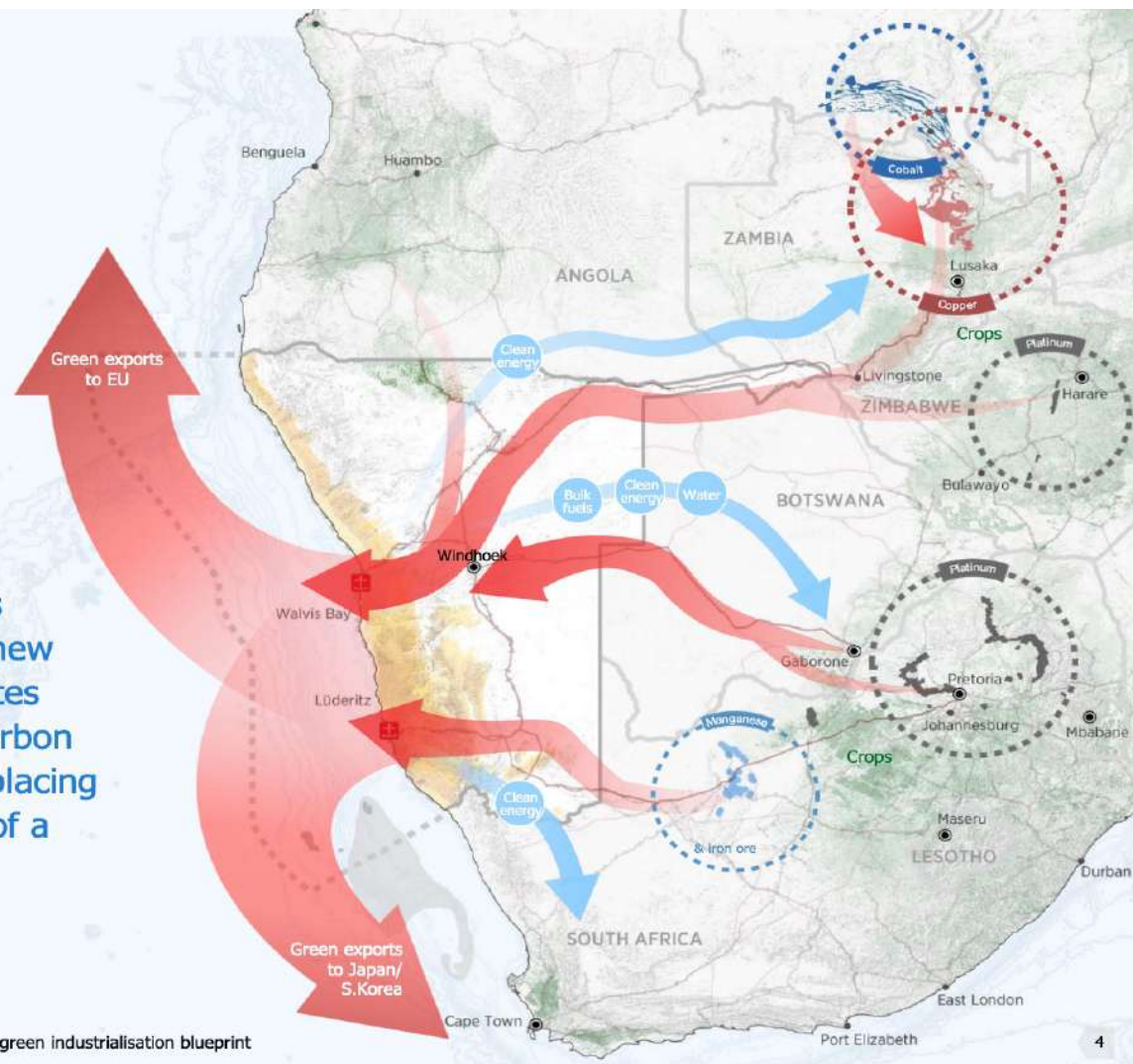
A NEW GROWTH AGENDA

## The emerging vision

Green industrialisation is the opportunity that binds domestic, regional, and global agendas.



Namibia, working with its neighbours, to deliver a new global gateway that creates modern trade and low-carbon industrial opportunities, placing the region at the centre of a rapidly greening world.



Government of the Republic of Namibia | A green industrialisation blueprint







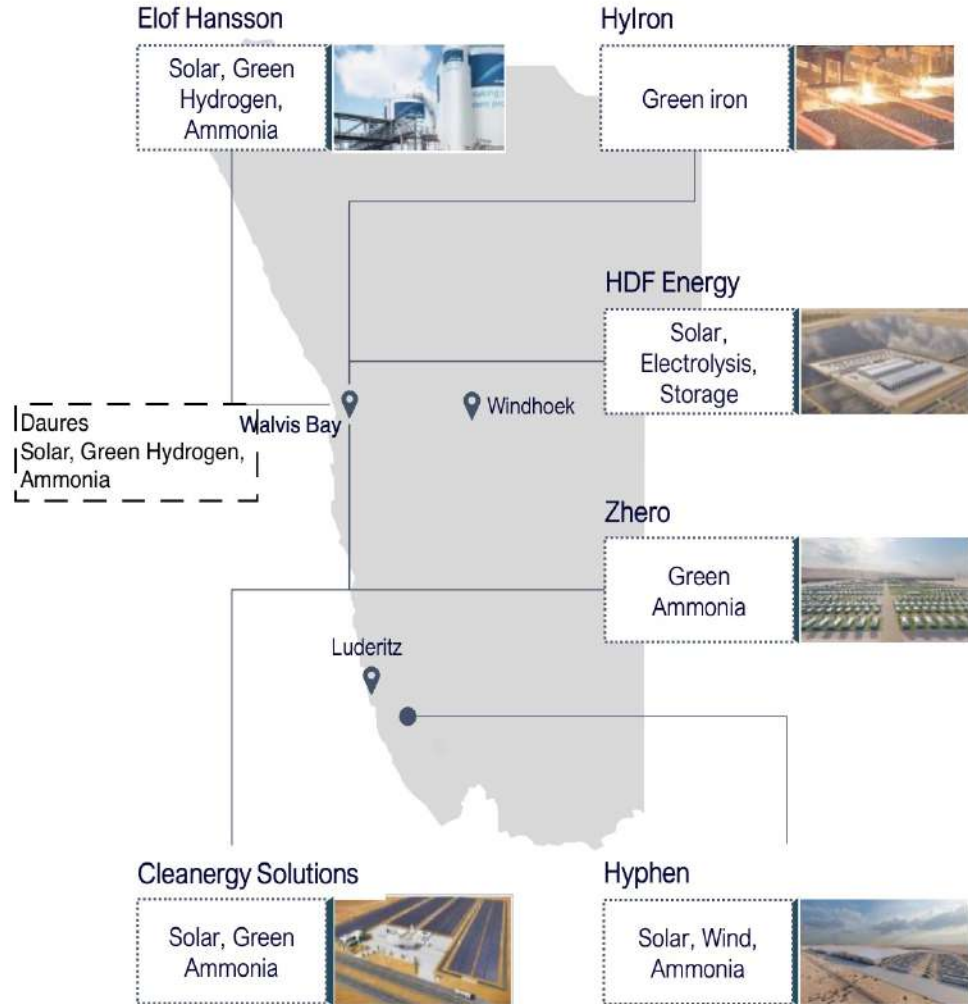
# Green industrialisation - Industries

		Opportunity description	Execution model
Renewable energy hardware	1. Solar panel manufacturing	Cell manufacture & panel assembly to serve domestic gH <sub>2</sub> needs, then expand regionally as costs decline.	Attract OEM cell producers, incubate local companies for module assembly, then localise adjacent industries.
	2. Electrolyser manufacturing	Assemble electrolyser stack & balance of plant to serve gH <sub>2</sub> needs, then expand upstream and regionally.	Invite major OEMs or int'l energy firms to set up local production by orchestrating offtake agreements.
	3. Wind turbine manufacturing	Produce wind turbine towers and blades locally to serve gH <sub>2</sub> needs, then supply blades regionally.	Incubate local firm to produce towers and invite major OEMs to set up domestic blade production.
Mineral refining	4. Lithium refinery	Refine local concentrate to technical grade lithium for export to EU, taking advantage of diversification push.	Broker technical-grade lithium refining JV between local player and EU-based battery-grade refiner.
	5. Rare earth elements refinery	Leveraging announced REE projects, develop domestic separation facility to produce rare earth oxides.	Collaborate with Chinese refiner or invest in R&D with EU/US-based REE operator to explore new technology.
Low CO <sub>2</sub>	6. Flat glass production	Use low-cost, low-CO <sub>2</sub> energy to produce flat glass for Africa & EU, then expand into local raw materials.	Attract int'l player to launch local production. Export to Africa/EU, then expand to downstream products.
gH <sub>2</sub> derivatives	7. Synthetic fuel production	Use bush biomass to produce biogenic CO <sub>2</sub> feedstock and gH <sub>2</sub> to produce synthetic fuel for EU aviation	Push JV between int'l SAF developer and existing player to produce e-SAF using local gH <sub>2</sub> & biogenic CO <sub>2</sub> .
	8. Hot briquetted iron production	Produce green HBI/DRI using gH <sub>2</sub> for EU, then grow to supply other 'green steel' demand centres (e.g., S.Africa).	Incubate local firm & engage miners/traders to secure iron supply. Strike offtake agmts with int'l steel players.





# Green Hydrogen Projects



Project	Phase of development
Hyphen	Feasibility
Etof Hansson	Development/planning phase
HDF	Development/planning phase
Hylron	Phase 1/Production in 2024-25
Zhero	Development/planning phase
Cleanergy Solutions	Pilot/Phase 1/Production in 2024-25
Daures Hydrogen Village	Pilot/Phase 1/Production in 2024-25





## Project Implementation and Early Opportunities

- Namibia's green hydrogen sector is already attracting significant investment, with approximately **N\$2.08 billion** committed across various projects.
- Notable projects include:
  - o **Hylron Oshivela Project**
  - o **Daures Green Hydrogen Village**
  - o **Cleanergy Solutions Namibia**

Approximately **N\$170 million** has been channelled into local SMEs;

Total Sector investment over **100 million Euros** (projects development, institutional support, SDG One Namibia)



**Focus Area**  
Green Industries

# Communications/ Media & Public Relation

## Nandi-Ndaitwah doubts green hydrogen's contribution to economy



## Nandi-Ndaitwah doubts green hydrogen

• TIMO SHIMPEPO

PRESIDENT-ELECT Nandi-Ndaitwah has reportedly asked government officials to re-evaluate the viability of Namibia's green hydrogen megaproject.

The sources said speculation that she is leaning toward the "oil and mineral" oil sector. Government sources said the Namibian hydrocarbon megaproject would be a green hydrogen gas. David Namibia's economy.

She is reportedly contemplating moving the green hydrogen programme effect under a private government-owned, rather than operating independently. Nandi-Ndaitwah requested a progress and sustainability report last year from presidential adviser and green hydrogen consultant James Moya.

Nandi-Ndaitwah is said to be the senior vice of the green hydrogen industry as the main catalyst to revive Namibia's struggling economy. Instead, she appears to lean toward the oil and gas sector, viewing it as a more reliable path to economic recovery.

Two months before elections last year, Nandi-Ndaitwah, during the opening of the Africa Global Hydrogen Summit, said green hydrogen will be the potential to spur economic development and help address climate change.

Former president Hage Geingob launched his signature energy project in 2021 to develop affordable renewable projects that would generate revenue and benefit local communities.



**LUSH AVIS** ... Windhoek's Avis Dam area, which is a popular green space in the city, has turned a lush green during the current rainy season. On Wednesday, the dam received a strong inflow of water, after rainfall in its catchment area to the east of Windhoek. Photo: Contributed

**HYDROGEN:** continued on page 2

## Eiseb's ghost haunts Namdia

... Family demands answers over security chief's death

- Concerns raised over lack of transparency
- Namdia must explain why Eiseb was called to work while on leave
- Company yet to recover over N\$300 million's diamonds

**• VERILIAM KAHULAMBE and SHELLYVIAN PETERSEN**  
THE family of security chief Francis Eiseb, who died in an armed robbery last year, has demanded that Namdia (Namibia's National Diamonds Board) must explain why Eiseb was called to work while on leave. The family also demands answers over the circumstances surrounding his death.

**EISEB:** continued on page 2

### INSIDE

Namibia records 28 leprosy cases



Zambezi hit by 3 400 malaria cases, one death



Stock theft investigator murder verdict in April

• WERNER MENDES

THIRTEEN more accused of a crime during a stock theft investigation in the Gaborone-Botswana 122 km ago, set to hear the case in their court case trial in Windhoek High Court in April. Acting Judge Alfred Sibusiso presided over the trial. The trial is the first of its kind in the High Court at Windhoek. The trial is the first of its kind in the High Court at Windhoek. The trial is the first of its kind in the High Court at Windhoek.

**MURDER:** cont. on page 2

**CELEBRATING 35 YEARS OF INDEPENDENCE**

WEEKEND SPECIALS: 07 MARCH TO 10 MARCH 2020

**MARA THON**

37<sup>22</sup>

**BOKOMO**

148<sup>22</sup>

**FANTA**

18<sup>22</sup>

**DAIRY MAID**

39<sup>22</sup>



## Communications/ Media & Public Relations

**Namibia three weeks  
away from first green  
iron production**





# HOW DID WE GET HERE?





## Comms Applied

### Capitalize on Free Platforms

Radios (National Radios, Commercial Radio)  
Television (NBC –Daily RU, GMN, Business T)  
Print Media (Gov & Commercial)  
Media Tour (to sites/projects)

#### **Note:**

- *Be available,*
- *Be ready to create content for producers*
- *Have time for one-on-one with producers/journalists*
- *You are not the Boss-Be humble*
- *Be social & human*





## Social Media

**LinkedIn-** Professional

**Facebook-** General Public

**Twitter/X-** Professionals, Policy Makers, Policy Influencers

**Instagram-** Young professionals

**Tik Tok-** High school goers & Youth in General

**YouTube & Clubhouse**

### **Note:**

*Regular updates;*

*Tailor-made content for each platform;*

*Verification (where necessary);*

*Be responsive/interactive;*

*Social Media Listening Tools-Monitor what is being said*





# *National Reach Campaign- Green Industrialisation*

With **17 mobile advertising trailers** deployed across **all 14 regions**, the campaign is aimed to:

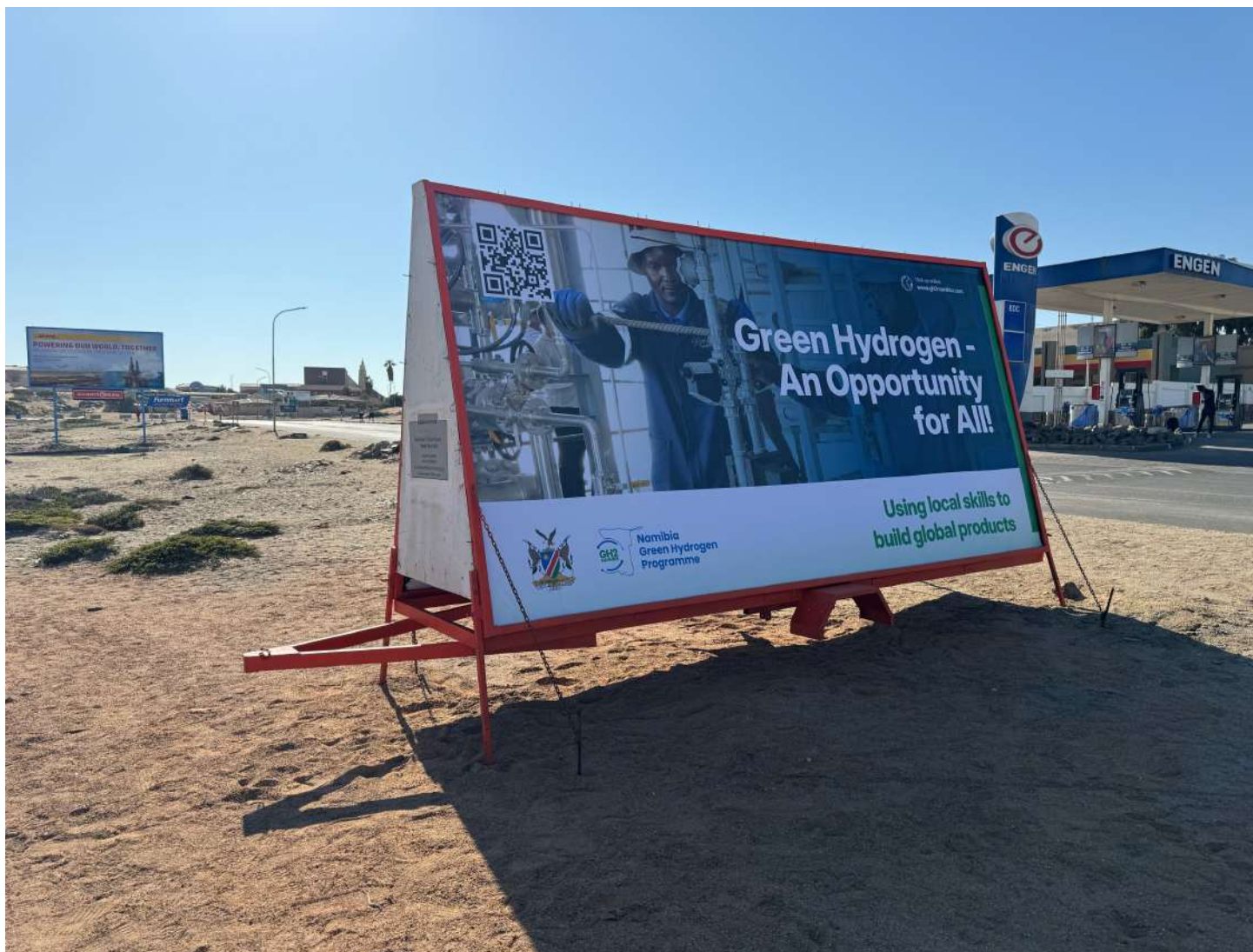
- ☐ Educate Namibians on the economic and environmental promise of green hydrogen;
- ☐ Position the sector as a key driver of industrialisation, energy security, and inclusive national development;
- ☐ Encourage broad public participation and citizen engagement/Trigger conversations

## **Key Achievements to Date**

Since the launch of the campaign, notable progress has been recorded:

- ☐ **Increased Public Engagement:**
- ☐ **Higher Digital Traffic (QR code scans and login features)**
- ☐ **Public Inquiries**
- ☐ **Community Dialogue**
- ☐ **Political Support (Greater leadership and ownership)**

## We Didn't Wait For Audiences To Find Our Message — We Drove It To Them







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to Exporting Solutions**



**Namibia  
Green Hydrogen  
Programme**







## *Parting Words..*

- Opportunities
- Innovative
- Risk Appertite
- Read & Ask





*Thank you for listening...*

