Opportunities presented by the Green Economy – A NAMCOR Perspective

Presented by: Frans S. Kalenga Senior Manager: Sustainable Energies



NAMCOR



Hydrogen & Revolution 101



What is Hydrogen?



I IA																	18 VIIIA
H					Atomic Number	- ⊢		Symbol									He
Hydrogen 1.008	2 IIA				Name		ogen					13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	Hatiom 4.0026 2
3	4			E	lectrons per shell	1.0	1	Atomic Weight				5	6	7	8	9	10
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-11	12				kaline earth meta ansition metals		s nsition metals	Reactive nonm	etals			13	14	15	16	17	18
Na	Mg											Al	Si	Ρ	S	Cl	Ar
500/um 22.98976928 1-8-1	Magnesium	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIIIB	9 VIIIB	10 VIIIB	11 IB	12 IIB	Aluminium 26.982 2-8-3	Silicon 28.085 2-3-4	Phosphorus 30.974 2-8-5	Sulfur 32.06 2-8-6	Chiorine 35.45 2-8-7	Argon 39,948 2-8-8
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Potassium 39.0983 2-8-8-1	Calcium Anoth 7455	Scandium 44.955908 2-8-9-2	Titanium 47.867 2-8-18-2	Vanadium 50.9415 2-8-11-2	Chromium 51.9961 2-8-13-1	Manganese 54.938044 2-8-13-2	Iron 55.845 2-8-36-2	Cobalt 58.933 2-8-15-2	Nickel 58.693 7-8-16-7	Copper 63.546 2-8-16-1	Zinc 65.38 2-8-33-2	Gallium 69.723 2-8-18-3	Germanium 72.630 2-8-18-4	Arsenic 74.922 2-8-8-5	Selenium 78.971 2-8-18-6	Bromine 79.904 2-8-8-3	Krypton 83.798 2-8-18-8
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
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55	56		72	73	74	75	76	77	78	79	80	81	82 DL	83	84	85	86
Cs	Ba	57-71 Lanthanides	Hf	Ta	W	Re	Os	Ir	Platinum	Au	Hg	Tl	Pb	Bismuth	Po	At	Rn
132,90545196 2-8-18-18-8-1	137.327 2.4-18-18-5-2		178.49 2-8-18-32-10-2	180.94788 2-8-18-22-11-2	Tungsten 183.84 3-8-35-10-7	186.21 2-8-18-52-13-2	190.23 2-8-18-32-14-2	192.22 2-8-18-32-15-2	195,68 2-8-18-32-10-1	195.97 2-8-18-22-18-3	200.59 2-8-18-32-18-2	204.38 7-8-18-33-18-3	207.2 2-3-18-32-18-4	208.98 2-8-18-22-18-5	(209) 2-8-18-32-18-6	(210) 2-8-18-32-18-7	(222) 2-8-18-32-18-8
87	88		104 Df	105 DL	106	107	108	109	110	De	112	113	114	115	116	117	118
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(223) 2-8-18-32-18-8-1	(226) 245-35-35-46-7		(267) 2-8-18-32-30-10-2	(268) 2-8-18-32-32-11-2	(269) 2-8-18-32-33-12-2	(270) 2-8-98-52-52-13-2	(277) 2-8-18-32-32-14-2	(278) 2-8-18-32-32-15-2	(281) 2-8-18-32-32-10-1	(282) 2-8-18-32-32-17-2	(285) 2-8-18-32-32-18-2	(286) 2-8-18-32-32-18-3	(289) 2-8-18-32-32-18-4	(290) 2-8-18-32-32-18-5	(293) 2-8-18-32-32-18-4	(294) 2-8-18-12-12-18-7	(294) 2-8-18-32-32-18-8
		57	58	59	60	- 41	62	63	64	65	66	67	68	69	70	71	
		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dу	Ho	Er	Tm	Yb	Lu	
		Lanthanum	Cerium	Praseodymium	Neodymium	Promethium	Samarium	Furonium	Gadalinium	Terbium	Dysprosium	Holmiun	Erbium	Thulium 168.93	Ytterbium	Lutetium	
		138.91 24-18-18-9-2	140.1Z 2-4-18-19-9-2	2-8-19-22-1-2	2492242	(145) 24-13-23-1-2	150.36 2-8-18-24-8-2	151.96 2-8-10-25-0-2	157.25 2.8-16-25-9-2	1612002	24-10-16-2	164.93 2.4.14-24-0-2	167.26 2-8-10-00-8-2	248362	173.05 2-8-18-32-8-2	2883292	

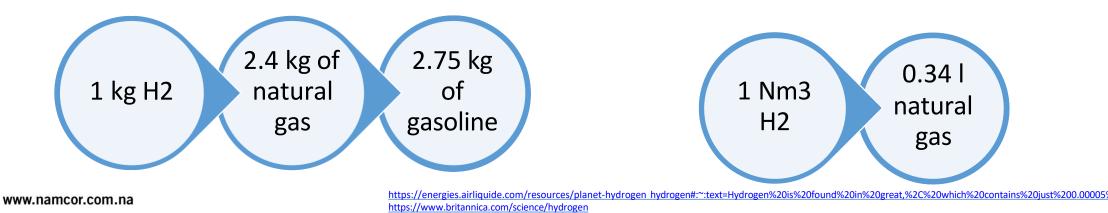
The hydrogen molecule (H2), which is sometimes called "dihydrogen", is the oldest and simplest molecule in our Universe. It is found in every star, including the Sun, which draws its energy from the transformation of hydrogen into helium during a thermonuclear reaction. It is made up of two hydrogen atoms, which are the first two elements to have been formed more than 13 billion years ago.

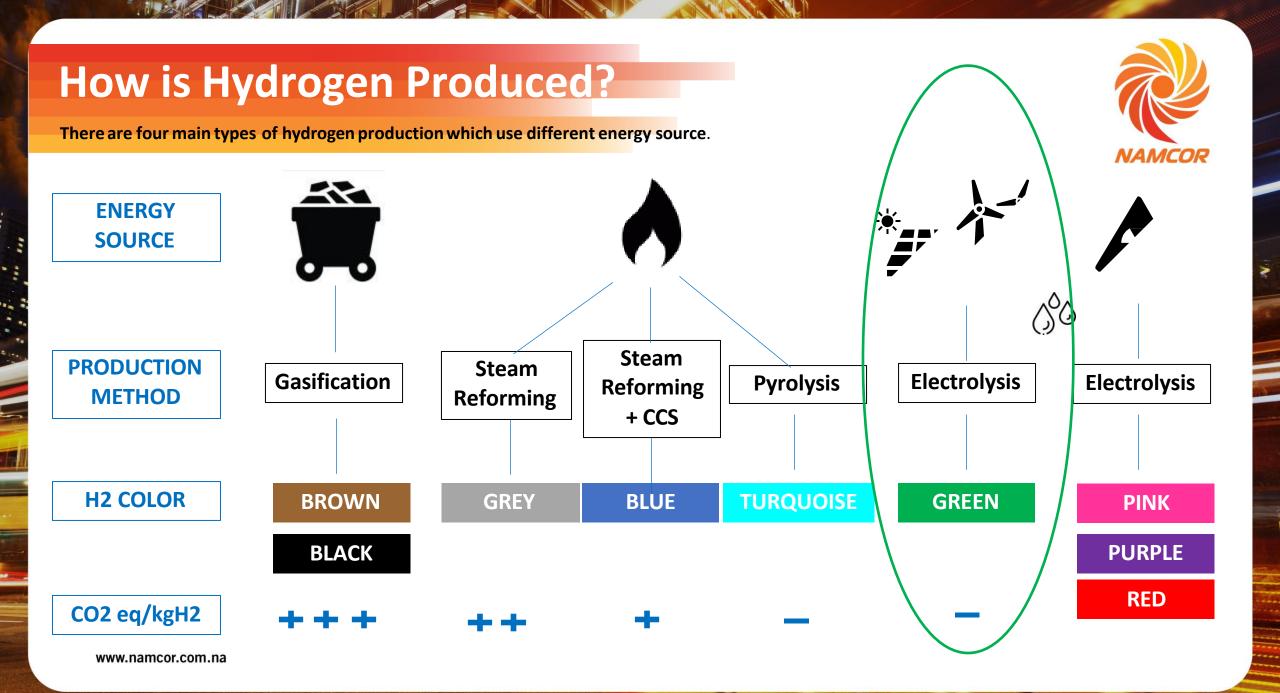
Name: Hydrogen Symbol: H Number: 1 Chemical series: Non-metal Group: 1 Period: 1 Block: s

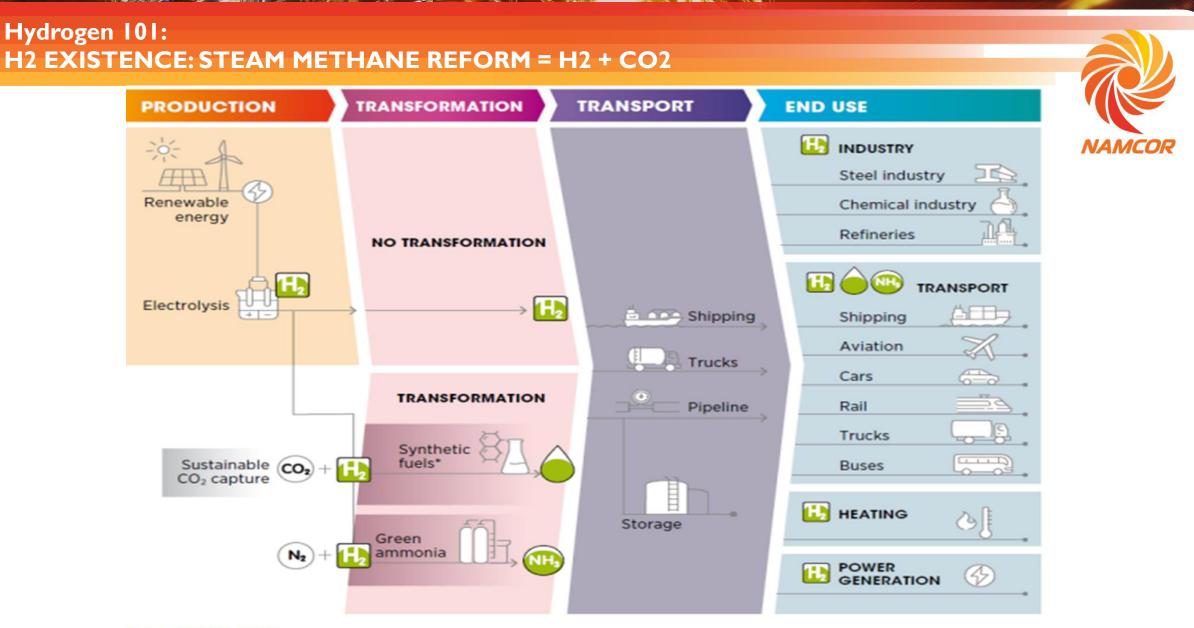
What is Hydrogen....?



- Hydrogen (H) is the most abundant element in the universe. On Earth is found in great quantities with other elements, such as water and hydrocarbons.
- We typically refer hydrogen to the molecule H2, which associates two atoms of hydrogen.
- Hydrogen is available in different states depending on the temperature:
 - GAS: room temperature
 - **LIQUID**: -252.87°C
 - **SOLID**: -259.14
- Hydrogen has a high energy content by weight 33.3 kWh/kg (LHV) (39.39 kWh/kg HHV), but it has a rather low energy density by volume. The volumetric energy density of hydrogen is about one-third that of natural gas.







source: (IRENA, 2020) www.namcor.com.na

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ENERGY EVOLUTION & THE BIG QUESTION I

Can Oil and Gas Coexist with Hydrogen?



- Coal Oil Renewable Energy Gh2
 - Evolved over time, more than one source of energy exist over time
 - H2 is not an energy source but a carrier, hence it cannot replace Oil & Gas
- Countries doing GH2 but still have OIL & GAS
- Saudi Arabia, Oman, Australia, Norway All want to produce GH2 but have oil & gas and they will continue to produce oil & gas

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- Oman –active plans to transition from oil & gas to GH2 and Ammonia
- Both industries are available at the same time in Namibia

ENERGY EVOLUTION & THE BIG QUESTION 2 How do you make the most of both?



Critical commodities (Oil - tried and tested but at sunset, GH2 not fully tried and tested but at sunrise).



We can move fast to make the most of both and manage the economies depending on the demand





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What are the Key priorities for the country? Energy security, Energy Efficiency, Energy poverty, decarbonization, energy transition or climate change



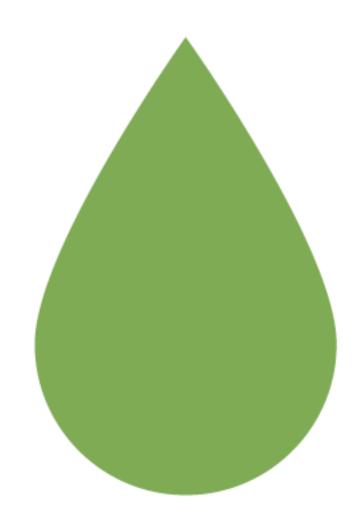
Energy poverty is real & Climate change is inevitable (drought, electricity generation & agriculture etc.) – We need to look after the climate



Avoid the Dutch disease by not relying on one source only



WHY?/ WHERE DOES NAMIBIA FIT IN?



RENEWABLE POTENTIAL

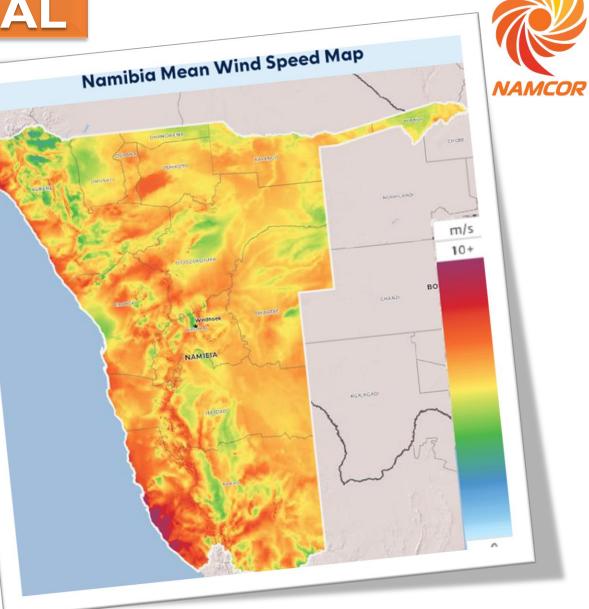
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Excellent Wind Resource

- Gross Capacity Factors in excess of 55% in selected areas
- Wind speeds in excess of 8 m/s in selected

areas

oombergNEF		Charts							
Select technology : Select region :	O	Global	i					Indonesia	hailand
N/ (-South Korea	Japan
% (gross)								Philippines	Vietnam
70								Poland	China
60								Germany	France
					_			India	Sweden
50								Netherlands	Spain
40								Panama	Turkey
30								Italy	South Africa
30								Australia	Chile
20	-							Peru	United States
10									Mexico
10							0	Canada	Argentina
2014	2020	2025	2030	2035	2040	2045	2050	Brazil	
								and one fired nower plants in	markets where policies are already implemented
Note: Forecast LCOEs e For battery storage, the LCOEs displayed by fine The graph shows only 15							shore expe size of new	w plants to 200MW. This mea	markets where policies are already implemente 20 on, before it reflects the developer scope. Ins that historical and forecast LCOEs might diffe



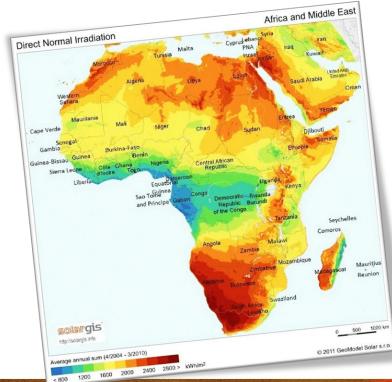
RENEWABLE POTENTIAL

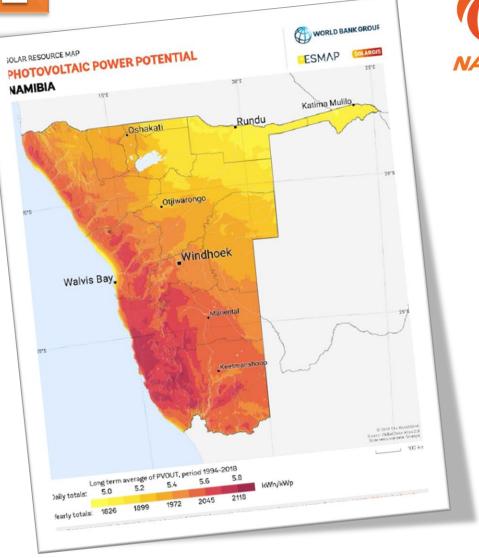
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Exceptional Solar Resource

- DNI over 2400 kw/m2/year in selected areas
- Gross Solar Capacity Factors Over 30% in selected areas







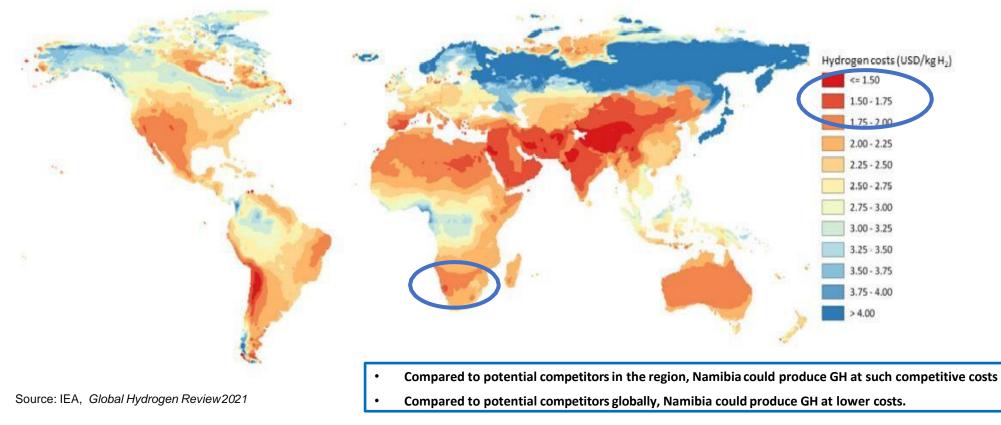




Estimated GH Production Costs – Global (2050)



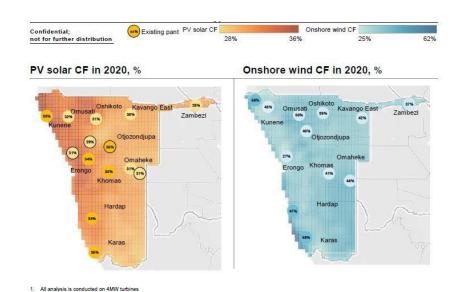
Namibia is very well positioned for GH production at competitive costs in terms of the quality of its solar and wind resources.

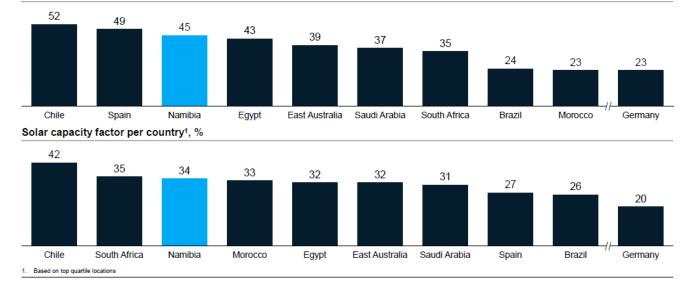


Namibia RE Competitiveness



Namibia has world class onshore wind and solar resources and thus could become an exporter of green hydrogen and derivatives





Onshore wind capacity factor per country¹, %

PV solar CF is fairly constant throughout the country* (~30-36%), while Southern (Karas) and Northern (Kunene) regions have significantly higher onshore wind CF compared to the rest of the country (~56-58% vs ~40%)

Source: McKinsey. 6, 7

* heat reduces output

International Hydrogen Trade National Awareness Program ARAMBEE PROSPERITY PLA 2021 - 2028 PtX production costs by 2030 based on hybrid wind and PV systems NAMCOR Namibia benefits from globally leading Slovakia Norway Russia wind & solar resource >4 USD/kg >4 USD/kg 2.3 USD/kg Germany 2.3 USD/kg This means Namibia can produce some of the cheapest electricity on the UK 2.5 USD/kg planet Spain 1.8 USD/kg Cost of electricity is the **#1 determinant** ٠ Morocco of cost of green hydrogen 1.8 USD/kg Algeria Electrolyzer cost is the other critical 2.3 USD/kg Saudi Arabia variable; however, technology costs are 1.5 USD/kg falling very fast, expected to fall >70% Australia by 2030, and become a less relevant Namibia 1.8 USD/kg 1.5 USD/kg variable in the cost (see details p34) Chile <1.5 USD/kg Greece

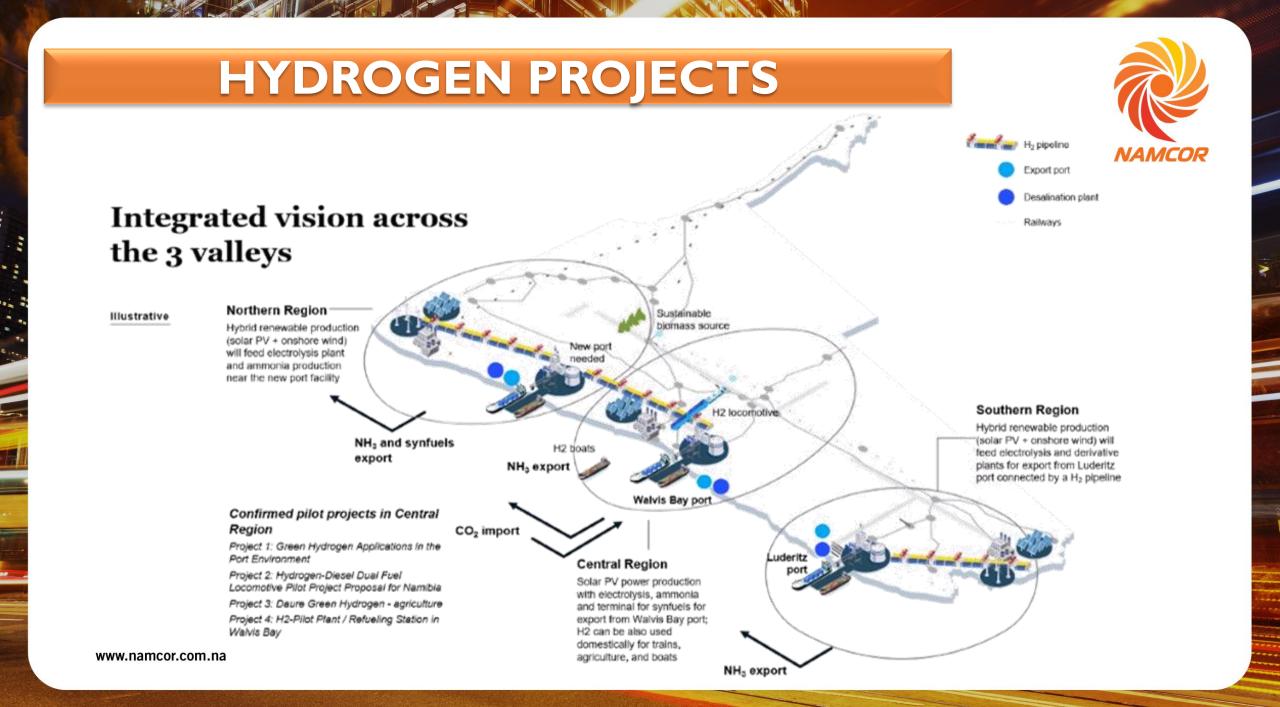
Notes: Indicative numbers per country based on IEA's Global Hydrogen Review 2021. For countries with multiple different prices, the lowest value is displayed Source: IEA.

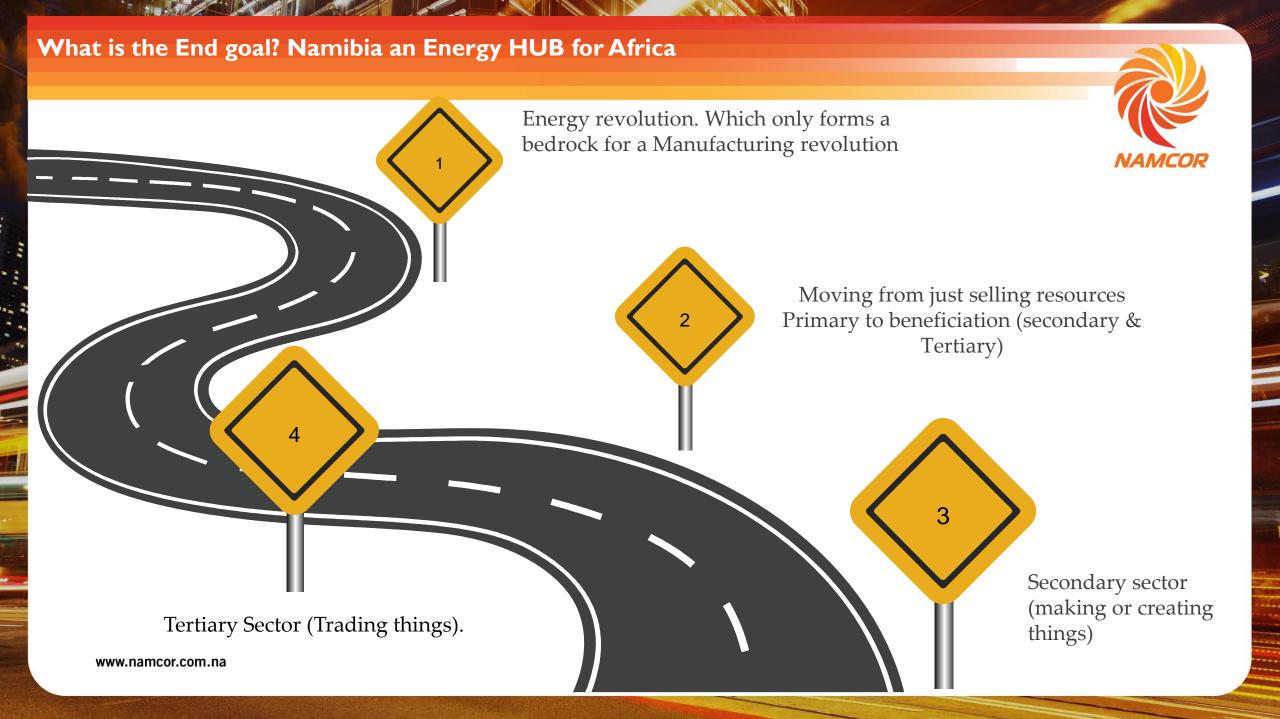
~1.5 USD/kg

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WHERE DOES NAMCOR FIT IN?



NAMCOR PERSPECTIVE





www.namcor.com.na

- NAMCOR is currently in the process of reviewing its strategy for transitioning towards becoming a broad-based energies company, while simultaneously expanding its footprint in both the upstream and downstream oil and gas sector in Namibia.
- A key priority for NAMCOR is to support Namibia's development of a globally competitive synthetic fuels industry, as a means of diversifying its economy and foreign exchange earning potential away from diamonds and extractive metals.
- Green hydrogen, realizable on the back of Namibia's stellar renewable energy resource potential, provides NAMCOR with the opportunity to fully embrace the energy transition story alongside other exciting resource developments in the oil and gas space.

the oil and gas space.

GREEEN ECONOMY - A NAMCOR PERSPECTIVE



OIL & Gas discoveries synergies ith sustainable energies

Enable local commercialization of LNG

Carbon capture utilization and storage EOR | Carbon Credits | Refineries Green hydrogen and synthetics fuels

The interest is in green hydrogen as an input in the potential production of synfuels

At least three strategic partnerships on green hydrogen and synthetic fuel development

Electric Vehicle Machines (EVM)

Enable the transition of green mobility through establish at least one hybrid service station, making use of both conventional fossil fuels plus EVMs, hydrogen and liquified natural gas (LNG). Renewable energy

Generation of power from RE to power office building and operations

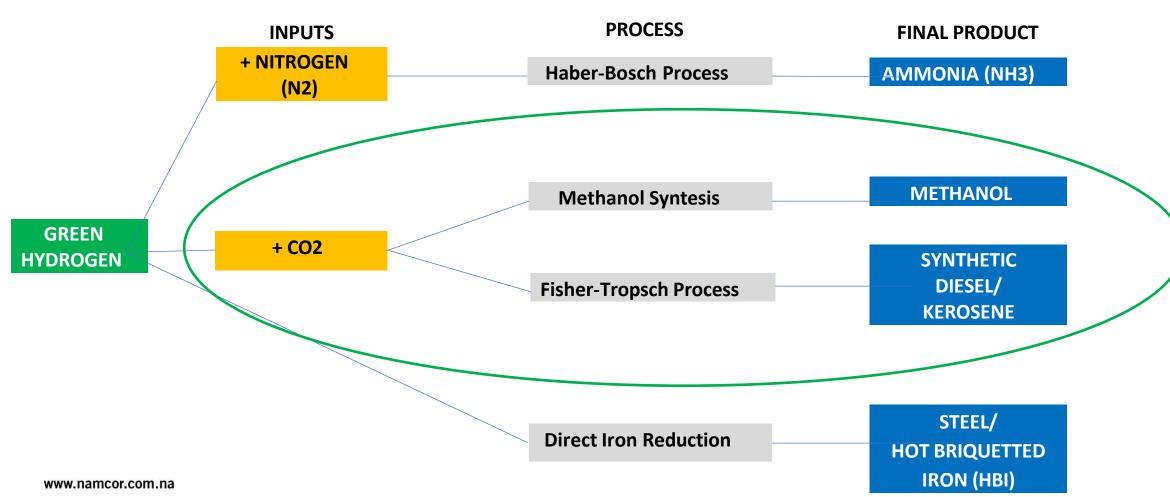
Becoming a green Sustainable fuels company

Research and development (R&D)

Partnership in R&D with x2 local x1 international university

GH Derivatives & Products







ROLE OF HYDROGEN IN THE OIL & GAS INDUSTRY

- Carbon Border Adjustment Mechanism (CBAM) - heavy tax for commodities if one is selling to European clients.
- The first phase of CBAM starts in Q4 of 2023, though taxation only commences in 2026

China & India are coming up with new legislation (Tax = C02 emitted)

Hydrogen becomes critical due to its clean nature. Gh2 reduces carbon content of oil & gas





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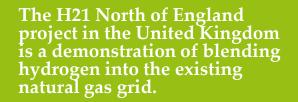
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- NAMCOR
- The largest oil and gas
 producers globally are the
 biggest investors in hydrogen.
- They are hedging their bets because the oil and gas industry is in its twilight.

- Oil revenue to subsidize green industries in order to build new industries.
- Example of industries Synthetics fuels, Aluminum Smelting, Zinc Smelting, Steel & Pig iron Manufacturing
- Different Factories, New product and diversification of export sources, new jobs (direct & indirect), new revenue etc.
- GH2 scholarship, PETROFUND & NSFAF | GH2 vs OIL & Gas employment

Hydrogen Blending in Natural Gas Pipelines

Case Study:



The project aims to convert the gas supply in Leeds to a blend of 20% hydrogen and 80% natural gas.

By using the existing gas infrastructure, the project minimizes the need for new infrastructure development, making the transition costeffective.

For Namibia, blending hydrogen into existing natural gas systems (pipelines, gas plants etc) can be critical in increasing overall efficiency (as hydrogen burns hotter than methane), but also for reducing GHG emissions.



Converting Natural Gas Infrastructure to Hydrogen: Case Study

- The Snam Rete Gas project in Italy aims to convert a portion of its natural gas pipeline network to transport hydrogen.
- By repurposing existing infrastructure, the project reduces costs and accelerates the development of a hydrogen economy.



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Carbon Market Opportunities

- Framework for carbon markets being developed
- Maximising the oil discoveries
- Trade
- Carbon Credit Offset

Hydrogen production and CCS H21 North of England Henrik Solgaard Andersen - H21 Project Manager







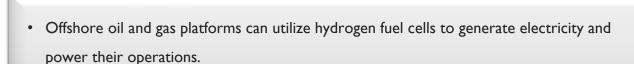
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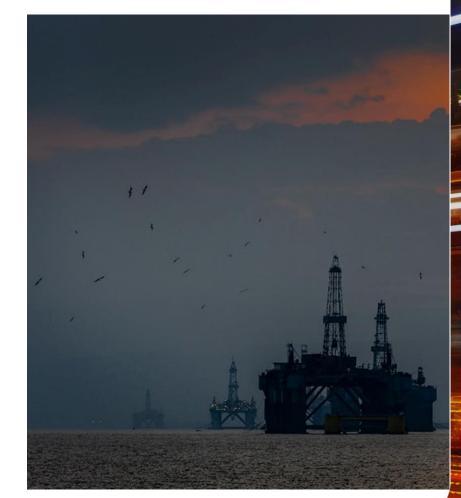
Offshore Platforms powered by Hydrogen: Use Case





- Hydrogen fuel cells offer a reliable and emissions-free power source, eliminating the need for diesel generators.
- The Ormen Lange natural gas platform off the coast of Norway has successfully implemented hydrogen fuel cells to reduce its carbon emissions.

implemented hydrogen fuel cells to reduce its carbon emissions



Hydrogen for Power Generation: Case Study



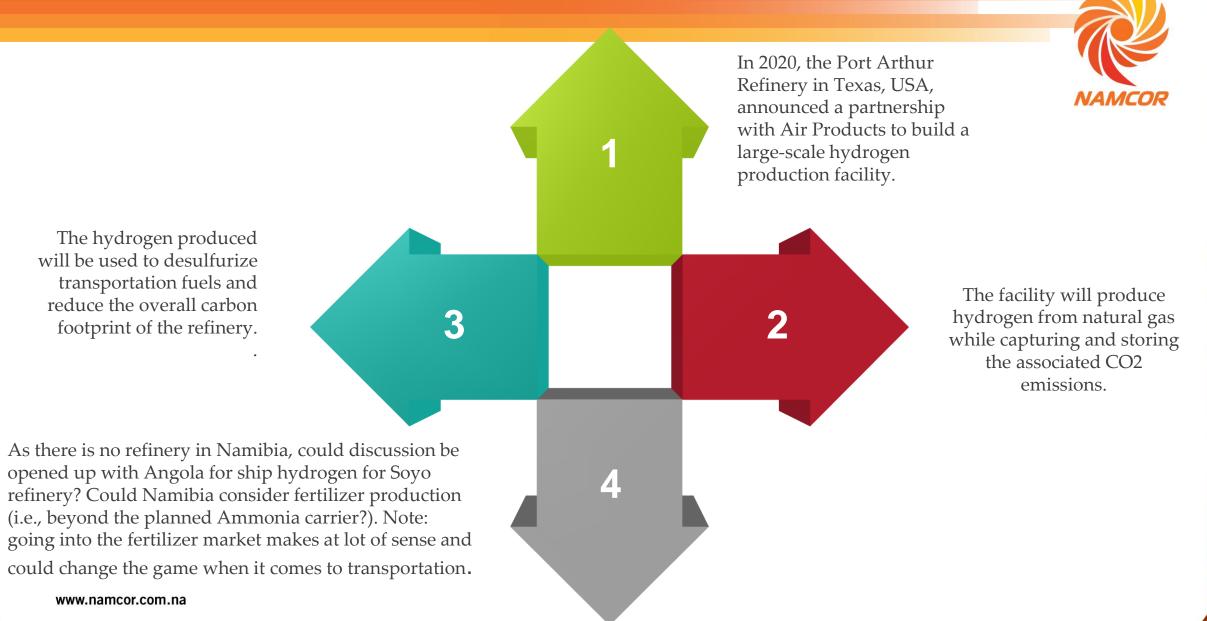
Many oil and gas installations are located in remote areas with limited access to traditional electricity grids. In such cases, integrating hydrogen-based power generation can provide a reliable and clean energy supply.



Projects like the DolWin3 offshore wind platform in the North Sea use hydrogen-based energy storage systems to store excess renewable energy and supply power during periods of low wind or demand.



Hydrogen as a Decarbonization Solution for Refineries:



Hydrogen for Hydrogenation Processes in Refineries: Case Study





Oil refineries often use hydrogen in hydrogenation processes to upgrade heavy crude oils and produce cleaner fuels.

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Integrating hydrogen production through electrolysis powered by renewable energy sources can significantly reduce the carbon footprint associated with hydrogenation processes.

Hydrogen for Enhanced Oil Recovery (EOR): Case Study



Hydrogen can be used in Enhanced Oil Recovery processes to improve the efficiency of oil production.

In some cases, hydrogen-rich gases produced during industrial processes or generated from renewable sources can be injected into oil reservoirs to facilitate the extraction of additional oil.

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This approach not only increases oil recovery but also sequesters carbon dioxide, making it an environmentally beneficial method.



WHERE DO YOU FIT IN? Opportunities for you.

Southern Corridor Development



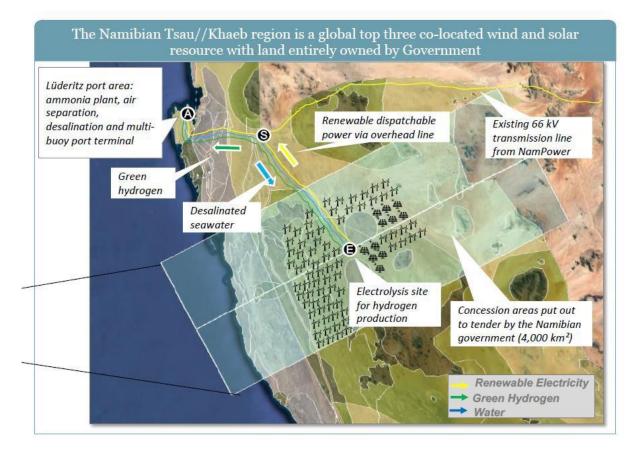
	Designation	Scope					
1	Lüderitz Town	Existing port and proposed production site for green ammonia export and desalination					
2	Oranjemund Town	Proposed Green Hydrogen R&D hub (NIPDB plan)					
3	Gemsbok development site	Proposed in 2021 SCDI RFP as first expantion zone after Springbok and Dolphin					
4	Hyena development site	Not included in 2021 SCDI RFP, expected to be largely used by NamPower (existing MET mast site – TBC)					
5	Springbok development site	Awarded to HYPHEN Hydrogen Energy in 2021 SCDI RFP					
6	Dolphin development site	Awarded to HYPHEN Hydrogen Energy in 2021 SCDI RFP					
7	Oystercatcher development site	Yet unannounced and unallocated (proposed site for future expansion)					
8	Seal development site	Yet unannounced and unallocated (proposed site for future expansion)					
9	Oryx development site	Yet unannounced and unallocated (proposed site for future expansion)					
10	Jackal development site	Yet unannounced and unallocated (proposed site for future expansion)					
11	Rhebok development site	Yet unannounced and unallocated (proposed site for future expansion)					
12	Leopard development site	Yet unannounced and unallocated (proposed site for future expansion)					
13	Oranjemund R&D Zone	Proposed Green Hydrogen R&D hub (NIPDB plan)					

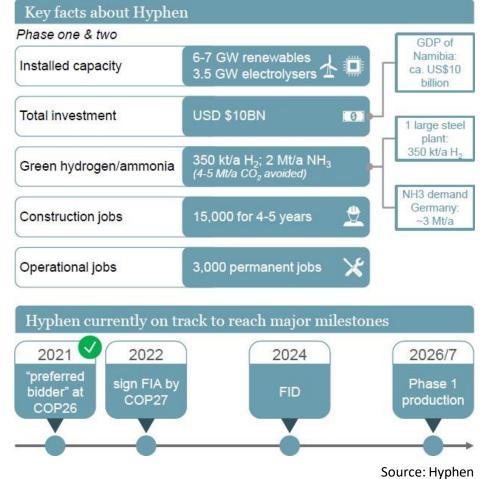


Southern Corridor Development Initiative (SCDI) - Hyphen



Hyphen is one of largest, furthest developed ammonia projects worldwide





Southern Corridor Development



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The Erongo Valley

www.gh2namibia.com



Daure H2 Agriculture Village

Green Hydrogen Pilot Plants

Pilot Plant information

Project Name : Daure Green Hydrogen Proposal

Location : Erongo Region, Daures Constituency

Full Project Size: 1.5 GW (Current Phase 508 kg Green ammonia/day)

Current Value : 15,1 million EURO

Project Partners: NGHRI, University of Stutgard, Enapter, Windwise, Enersense Nam

Project Overview

The project will realize the production of green hydrogen & ammonia and utilization of its derivatives.

- 1. Sustainable production of green hydrogen based on renewable energies,
- 2. Establish of green scheme program for ammonia nitrate crops
- 3. Storage and transport of green hydrogen, ammonia and related derivates,
- 4. Integrated application technologies for utilization of green hydrogen in agriculture, ammonia nitrate and cleaning detergents
- 5. Fuel Cell operated Centre pivots, boreholes and houses



GreenHydrogen | Namibia



Federal Ministry of Education

and Research



Cleanergy H2 Refueling Station

Candha Degana A

Pilot Plant information

Project Name	: H2-Pilot Plant / Refuelling Station in Walvis Bay
Location	: Walvis Bay
Project Size	: 5MW Electrolyser
Project Phase Value	: 25 million EURO
Project Partners:	CMB.TECH, Ohlthaver & List Group (JV = Cleaner
	Solutions Namibia)

Project Overview

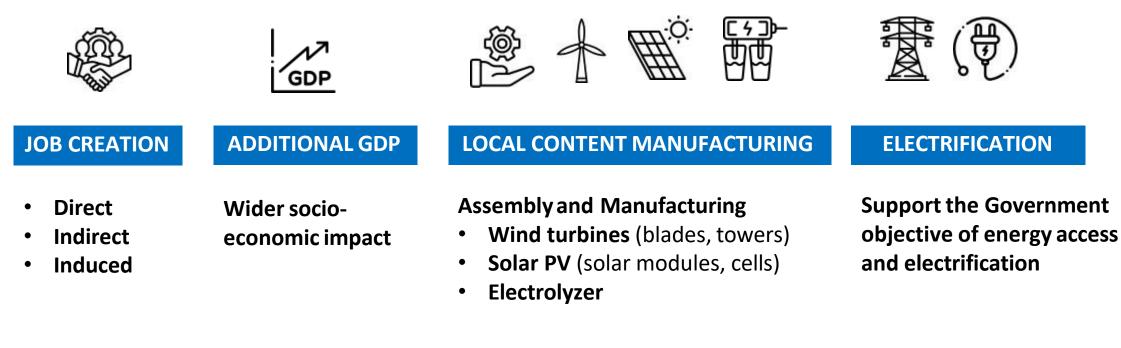
The plant consists of a 5 MW photovoltaic solar system, a 5 MW electroly and a H2-refuelling station. The purpose of the plant is to test technolog to develop offtake applications within the transport sector, mining sector and port activities and to facilitate technology transfer and skills development into Namibia.

Building upon the lessons learned with the pilot plant, a second phase wit bigger commercial plant including ammonia production is planned.

Potential Socio-Economic Impacts



GREEN HYDROGEN DEVELOPMENT OFFERS A BROAD RANGE OF SOCIO-ECONOMIC IMPACTS



Sustainable Energies Opportunities



Scholarships/Education

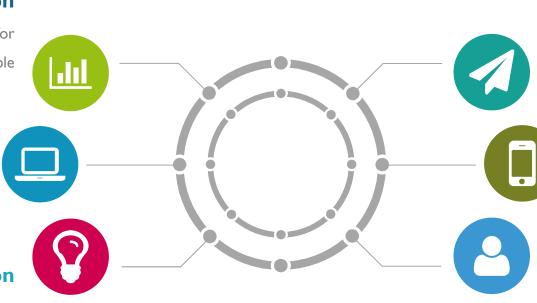
Through BMBF and the JCol, Scholarships for over 200 Namibians are available

Services

Service Provider opportunities such as catering, cleaning, security, renovations

Value Addition

Development of value addition to Hydrogen products such as ammonia and fertilizer



Employment

Over 15 000 direct employment opportunities with average annual wages above N\$ 100 000

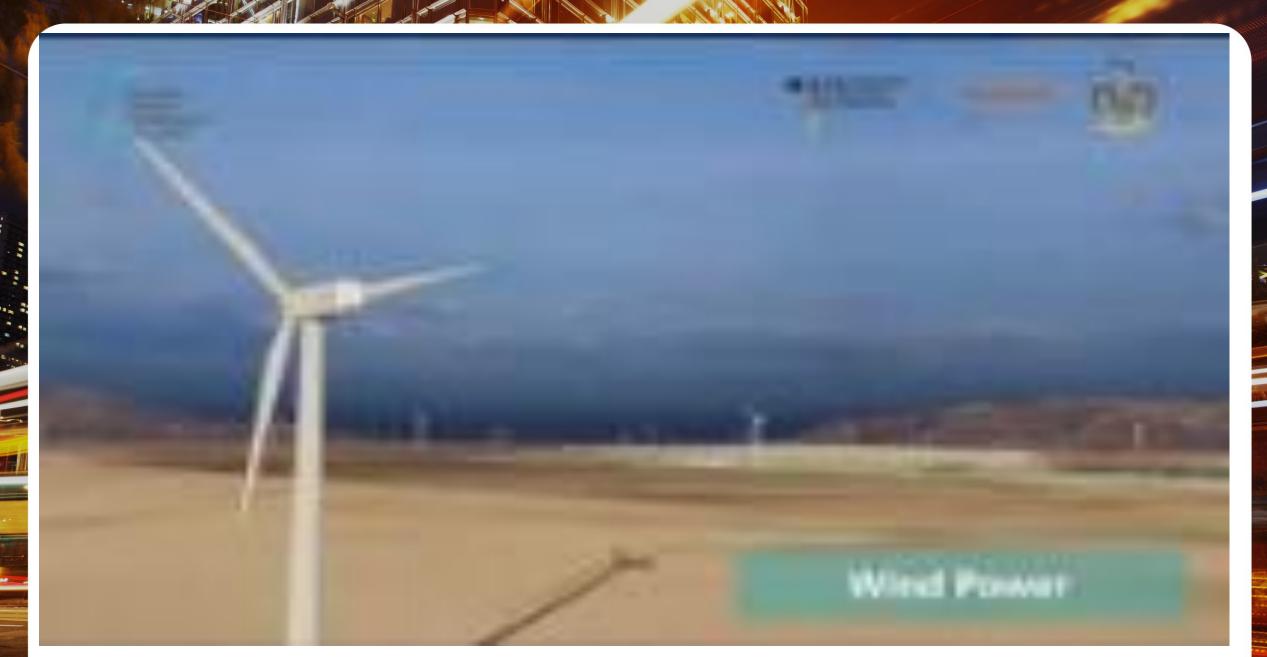
Construction

Construction opportunities as SMEs for roads, buildings, concrete, electrical, warehousing and houses

Associated and Enabling

infrastructure

Housing, ports, roads and other infrastructure nodes required to enable the hydrogen economy HYPHEN



SCHOLARSHIP OPPORTUNITIES



Federal Ministry of Education and Research

Implementation of the JCol on Energy and Green Hydrogen between Namibia and Germany .

SCHOLARSHIP CALL



YOUTH FOR GREEN HYDROGEN (Y4H2) SCHOLARSHIP PROGRAMME 2024



YOUTH FOR GREEN HYDROGEN (Y4H2) SCHOLARSHIP PROGRAMME 2024

- A resume (2 pages maximum).
- Two Reference letters (At least one Academic).
- A letter of commitment from the employer to release the employee for full-time studies if employed.

NAMCOR

Incomplete applications will not be accepted.

Application Process

- Online applications through the system are preferred. Forms are available online at this link <u>https://apply-y4h2.sasscal.org</u> and hard copies of the application forms can also be obtained from the offices of the Regional Governors and Regional Councilors countrywide.
- Candidates can apply for the scholarship without an admission letter from a Namibian university or vocational training centre.
- iii. Hard copies of applications should be addressed to the SASSCAL Y4H2 Admission, SASSCAL Regional Secretariat, 28 Robert Mugabe Avenue, P.O. Box 87292, Windhoek, Tel: (+264) 61 223997 or sent as a single pdf document via email to <u>icol.Y4H2@sasscal.org</u> or can be dropped at the offices of the Regional Governors in a dedicated Box labelled Y4H2 APPLICATIONS 2024 for onward submission to SASSCAL.
- Scholarship offers will be provisional until candidates submit proof of admission to a relevant program from a Namibian university or vocational training centre.

The deadline for submission of the applications for Y4H2 scholarships is 06 October 2023.

If you do not receive a response from SASSCAL by 15 December 2023, consider your application unsuccessful.



www.potentia.com.ng

IMPLEMENTATION OFFICE JOB OPPORTUMITIES

THE NAMIRIAN

Molmum requirements

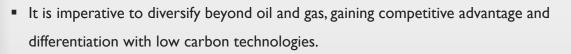
Ability to travel locally upon reque

Only elec

GH2

www.potential.com.na

Conclusion



- The Namibian crude oil will be going into a shrinking market so prices may not remain as high as it currently is due to most of global transportation becoming electric – moving from petrol to diesel.
- Hence, focusing on oil and gas alone might expose Namibia economically.
- Namibia is one of the few countries in the world with the alignment of critical resources oil, gas, solar, wind, land and solid minerals.
- The only other country that could potentially come close to Namibia in terms of the above-mentioned alignment is Chile.
- Harnessing these on tandem has more value than doing in silos.

Harnessing these on tandem has more value than doing in silos.

above-mentioned alignment is Chile

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