



Pure Hydrogen



Pure Hydrogen/Botala Energy Hydrogen Strategy

September 2021

Pure Hydrogen Corporation Limited (ASX: PH2)



BOTSWANA & SOUTHERN AFRICA HYDROGEN STRATEGY



Exciting Energy Potential

Serowe CBM Project;
~2.4 Tcf - potential
to convert methane
to hydrogen through
pyrolysis

Existing grid network
for renewables

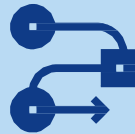
Provide cleaner fuels
to an energy hungry
market



Ideal Location

Botswana road
network connects
Southern Africa
to the main ports

Central to main heavy
haulage highways
connecting the Copper
belts of the DRC
and Zambia



Forward Plan

Securing strategically
located Hydrogen and
Graphene industrial
hub and refuelling
stations in Botswana

Initiate the necessary
approval processes



Developing a Hydrogen Industry

Potential for large scale
Hydrogen production
and carbon products like
graphene

Developing employment
opportunities

Targeting
development of the
'products of tomorrow'



Internationally Identified Opportunity

The German
government announced
~\$N640 million grant to
develop green hydrogen
in neighbouring Namibia

WHY BOTSWANA?

Large and growing demand for energy with huge, undeveloped CBM potential.

Botswana wants to:

- Reduce reliance on unreliable and costly electricity from South Africa
- Develop its own energy resources
- Reduce spending on imported energy
- Reduce reliance on coal
- Reduce CO2 emissions



Corporate governance

Socially aware with excellent governance and adherence to the rule of law



Demand for renewables

CBM facilities transition to renewables by providing reliable energy and Hydrogen fuel stock



Investment friendly

Encourages investments and establishment of new industries to generate employment



Civil service

Efficient and helpful civil service focused on assisting industry and creating employment



Great labour relations

Well educated and willing workforce encouraged to invest in local projects

SEROWE GAS PROJECT

January 2020

Serowe CBM project acquires environmental approval from Botswana Government

March 2020

Heads of agreement (HOA) signed with Botgas for a staged farm-out program on Serowe

April 2020

Revised HOA - parties will proceed into a joint operating agreement

December 2020

Joint Operating Agreement (JOA) executed on the Serowe CSG Project

June 2021

First of Six wells in Project Serowe, Botswana CBM to spudded

August 2021

Excellent Preliminary results at the Serowe 3 CBM. Planning of 4 & 5 well advanced

Serowe crew drilling Serowe 3 CBM well on location



HYDROGEN POTENTIAL

Pure Hydrogen/Botala Energy to become a significant producer and distributor of hydrogen for heavy haulage in Southern and Central Africa.



Hydrogen By Pyrolysis

Supplemented by electrolysis where feasible



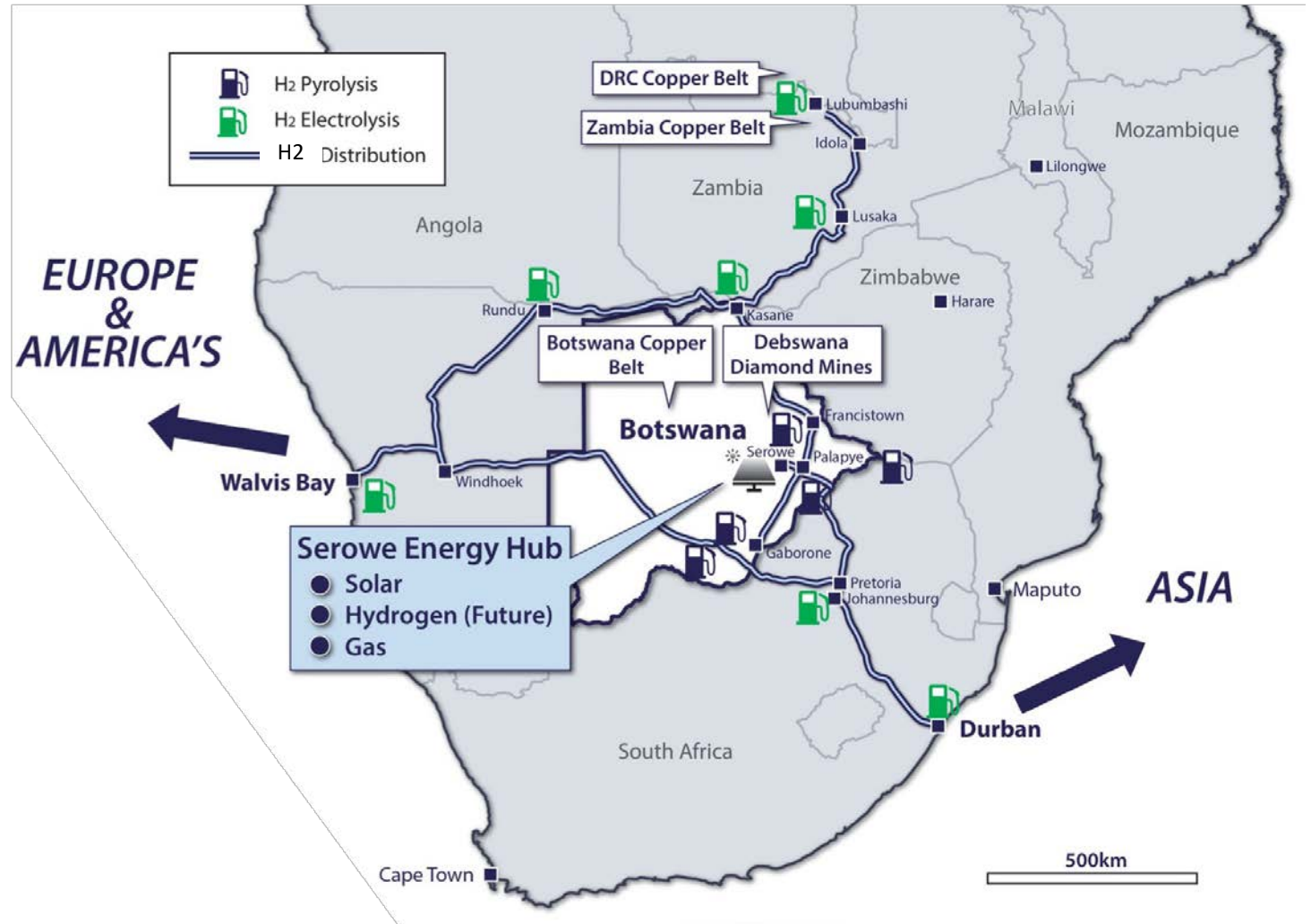
Significant Truck & Rail Routes

Botswana connects Southern Africa to the ports of Durban and Walvis Bay



Energy Security

Development of indigenous fuel source reducing reliance on importing



BOTSWANA AT A GLANCE

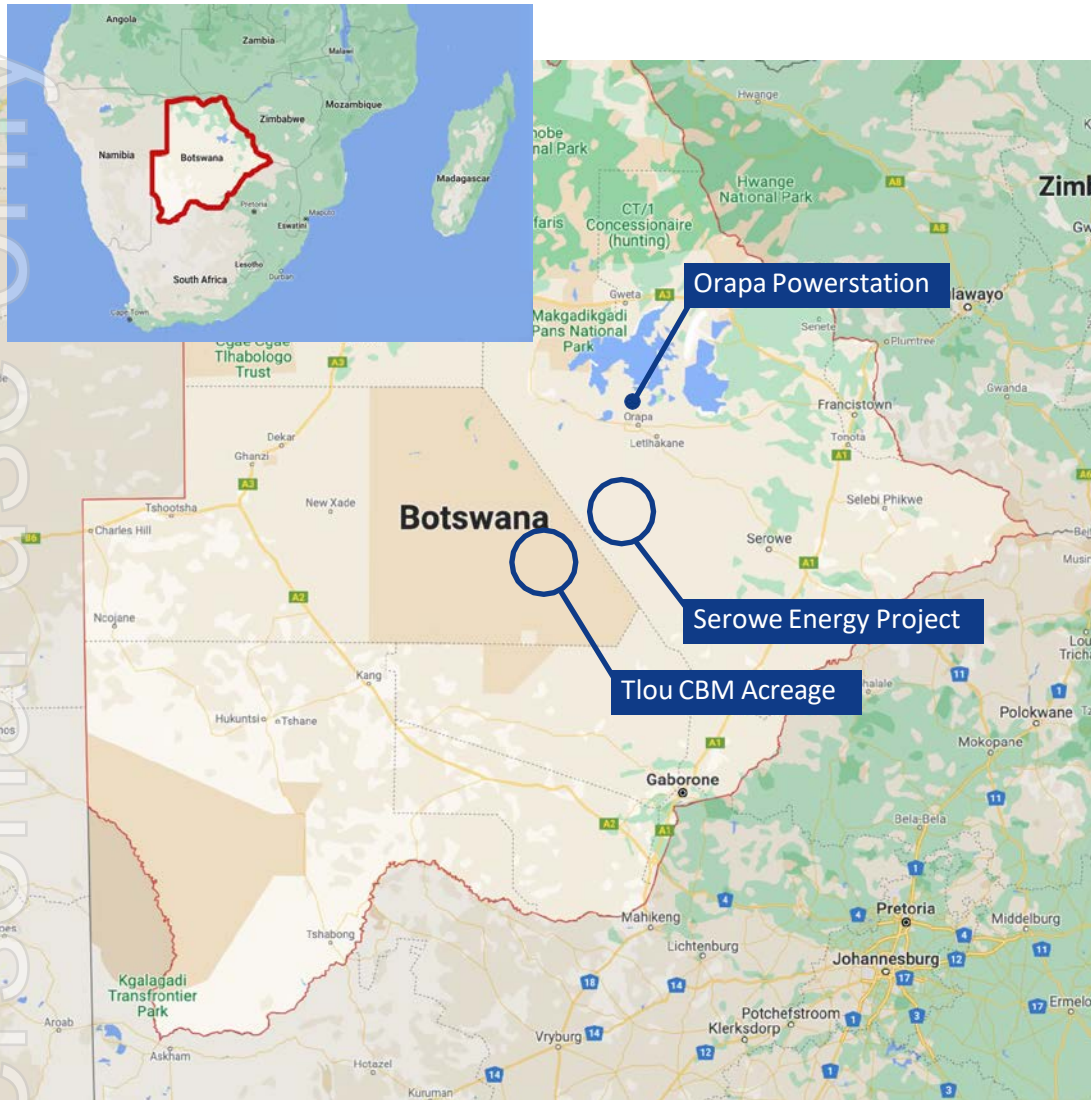


Image sourced from websites.



Population - 2.3 million

Median age 24

2.08% population increase on previous year



Politically and financially stable

GDP ~US\$18 Billion

Foreign Currency Reserves US\$7.5 Billion

GDP Growth (2018) 4.5%



Supportive investment culture

Fraser Institute No. 3 in Africa after Mauritius and Cape Verde



Favourable credit ratings

Moody's A2 Stable (2019)



Economic freedom score of 69.5 (2019)

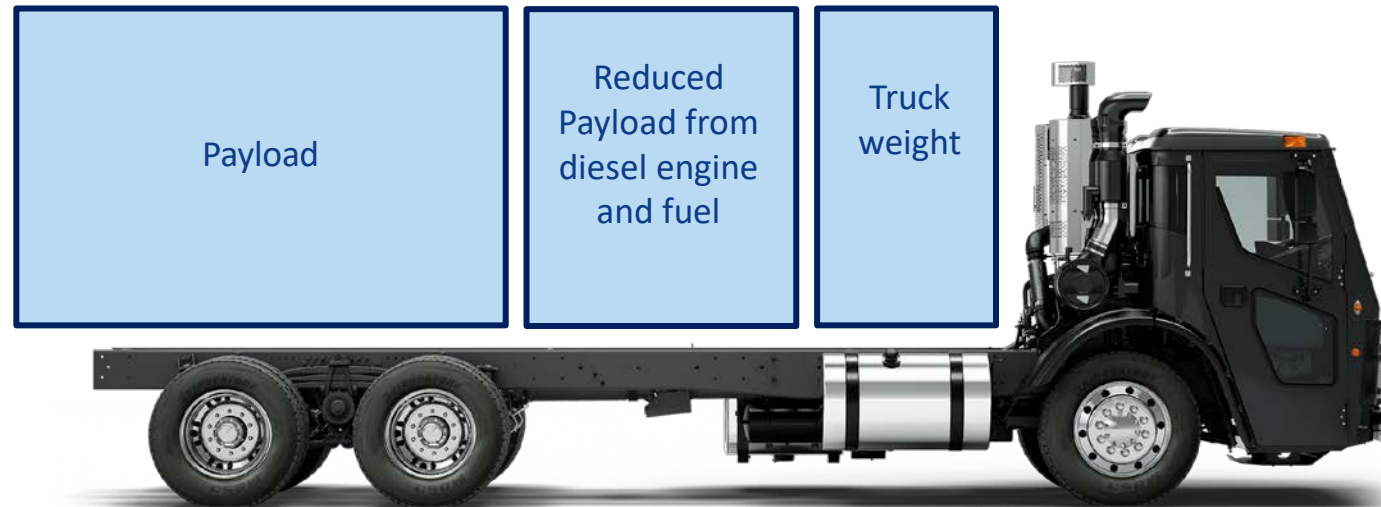
#36 in world, # 1 in Africa

HYDROGEN ADVANTAGES VS DIESEL

Advantages of Hydrogen over Diesel

- Lower Fuel Cost
- More efficient
- Less Noise
- Better Range
- Lower Maintenance
- Environmentally cleaner
- Higher Payload

Diesel Engine and full loaded fuel heavier than Hydrogen so higher payload



HOW TO MAKE NATURAL GAS GREEN?



A modular portable hydrogen generator with capabilities of 1,500kg per plant, per day - 4,500kg carbon products.

- On-site hydrogen generators leverage high heat recuperation to achieve greater energy efficiency.
- Compact in size - units tap into existing natural gas pipelines or co-located biogas resources, to site hydrogen production at the point of use, eliminating the cost and emissions of transportation.
- The modules are housed in 12-meter standard shipping containers offering easy expansion.
- Carbon products include carbon black and the potential for high-value synthetic graphite, graphene flakes and/or carbon nanotubes.

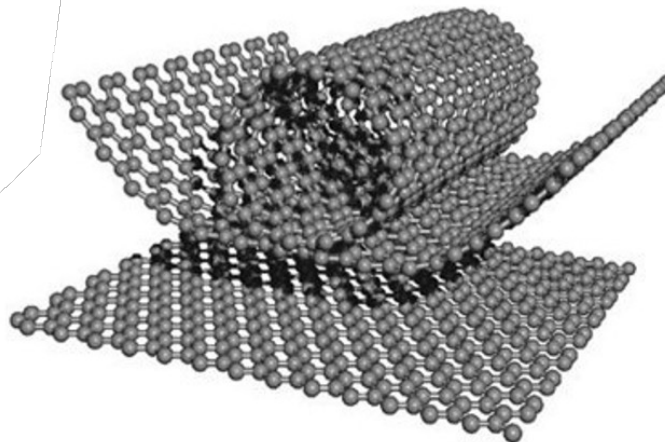


Image sourced from websites.

THE BENEFITS



Generating cleaner fuel sources

Reducing air pollution
by replacing coal

- Reduced CO₂/GHG/particulate emissions

Generating an alternative to
domestic biomass fuel sources

- Currently wood is the primary fuel source in 46% of homes
- Adult and children spend time gathering wood instead of working or attending school

Image sourced from websites.



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Geological Information

The geological information in this presentation relating to geological information and resources is based on information compiled by Mr Lan Nguyen, who is a Member of Petroleum Exploration Society of Australia and the Society of the Petroleum Engineers and has sufficient experience to qualify as a Competent Person. Mr Nguyen consents to the inclusion of the matters based on his information in the form and context in which they appear. The information related to the results of drilled petroleum wells has been sourced from the publicly available well completion reports.

Notes

1. See announcement dated 12 December 2019 - Project Venus Prospective Gas Resources 694 PJ Best
2. The Prospective Gas Resources is a combination of Project Venus Prospective Gas Resources 694 PJ Best, with Serowe CSG Project Prospective Gas Resources of 2.4 Trillion Cubic Feet (Tcf) and the Windorah Gas Project Prospective Gas Resources of 8.8Tcf which was adjusted for the reduced ATP 927P area post partial relinquishment in September 2019.
3. The contingent gas resources were disclosed in Real Energy announcement dated 23 August 2019. The Prospective resource estimates certified by DeGolyer Mac Naughton in July 2015 for ATP927P – Announced 21 July 2015. The stated figures have been adjusted for the reduced ATP 927P area post partial relinquishment in September 2019
4. See Strata X Energy Announcement dated 14 May 2019 – 83% increase in Prospective Gas Resource in the Serowe CSG Project.