



# Clean Energy for Botswana & Beyond

Powered by Tlou Energy Limited

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# Overview

Tlou is contributing to a cleaner, sustainable and more secure energy future for Botswana and beyond

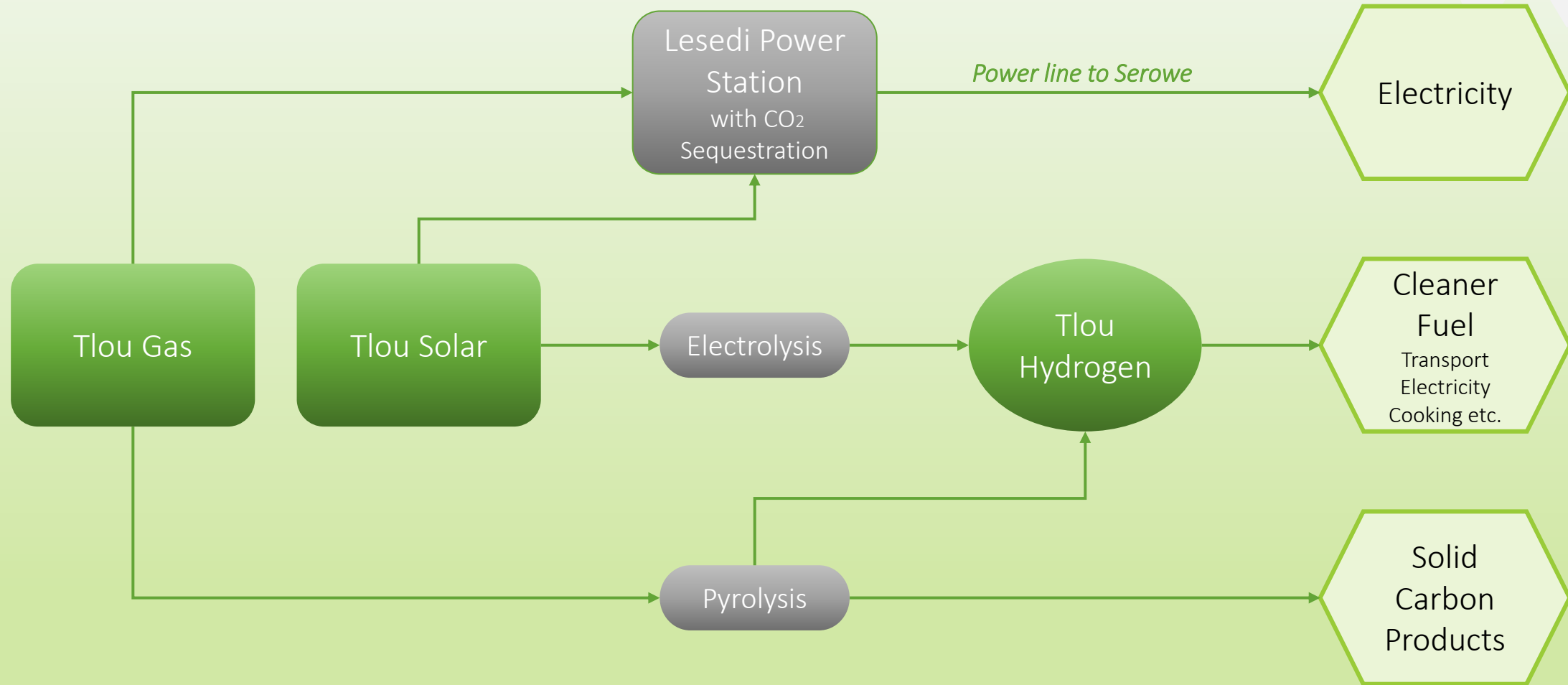
## Tlou Energy

### ...Gas, Solar and Hydrogen

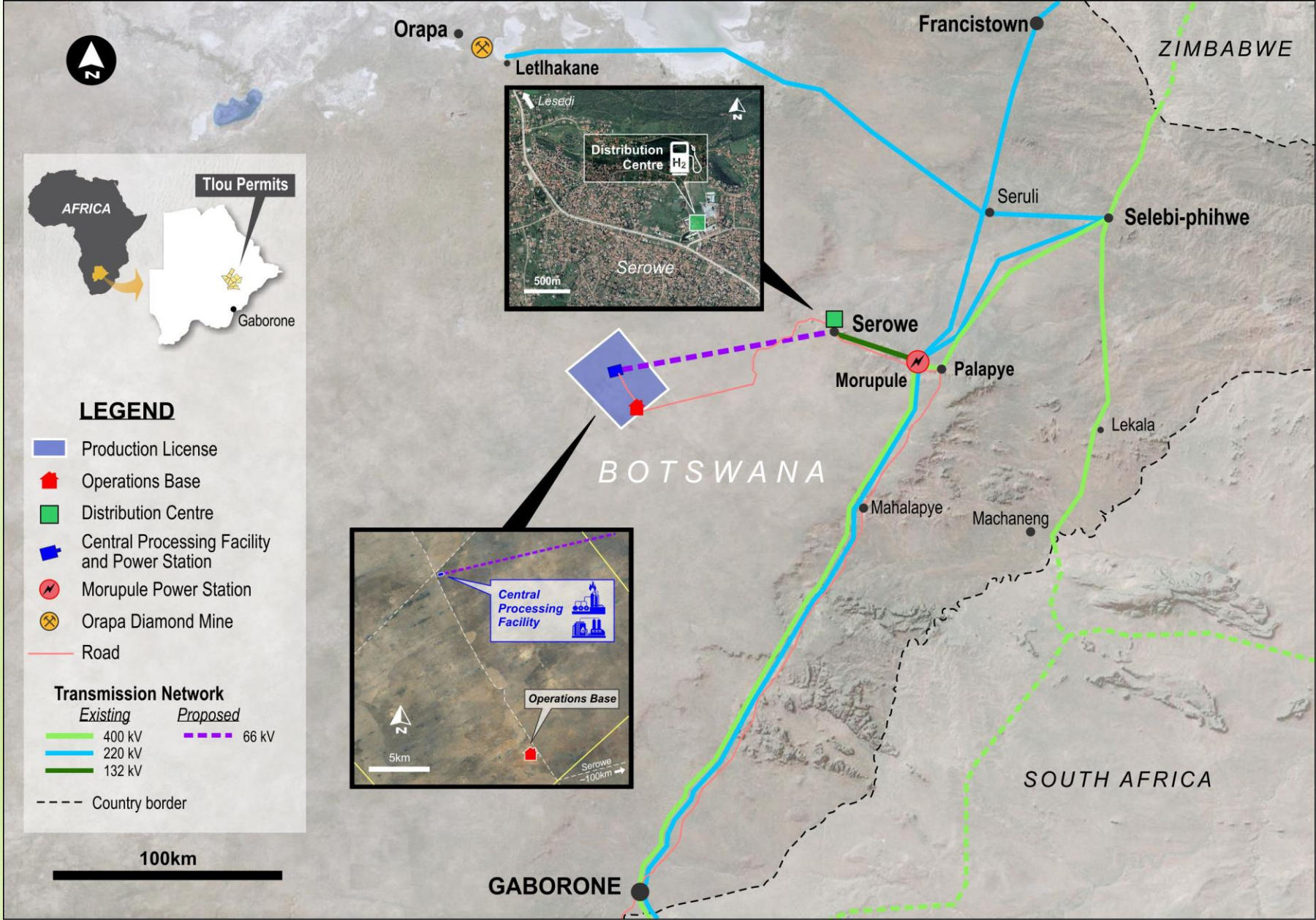
- Tlou is developing sources of clean energy in Botswana
- Strategic location in Botswana's Central District
  - ✓ Cleaner energy to displace coal and diesel power
  - ✓ Gas, solar and a hybrid power solution
  - ✓ Any gas emissions can be sequestered
  - ✓ Tlou's gas / solar can be used to produce Hydrogen (H<sub>2</sub>)
  - ✓ Potentially lucrative carbon by-products from H<sub>2</sub> production
- Extensive environmental approvals in place
- Generation licences secured to produce electricity from gas and solar
- Established and consistent gas flows
- Progress hydrogen while building infrastructure for initial power supply to the grid



# Tlou's Gas and Solar... the key to cleaner fuel and power



# Location



*Project located in Botswana's Central District*





# Power need in Sub-Saharan Africa



## A Changing Environment

Strong momentum towards cleaner energy to prevent environmental degradation



## Over-reliance on Carbon-intensive Power

Existing electricity is largely produced from carbon intensive coal and diesel



## Power Deficits

Regional power supply is currently unable to meet demand and reliance on imported energy is costly and unsustainable



## A Clean Solution

Cleaner power can help alleviate power deficits and reduce carbon footprint



## Green Future

A greener and less carbon intensive future is possible with evolving technologies



# Clean Energy – Gas, Solar, Hydrogen

## Strategy

Cleaner energy with a plan to start small with modular expansion as risk is reduced

Proven gas has enormous potential as does solar in Botswana

Opportunities to leverage that potential are constantly being evaluated

Ability to rapidly change direction as business landscape changes

## Why Hydrogen?

Hydrogen is becoming increasingly recognised as an ideal source of zero carbon emission energy

Hydrogen production processes and technology have advanced and costs have decreased

Hydrogen production has considerable synergies with Tlou's current operations

## Why now?

Hydrogen is in demand

Tlou has the capacity to advance hydrogen while building grid connection for power sales

Adding another energy source to our production portfolio de-risks operations

Shift to cleaner power could help attract foreign investment

## What about Gas-to-Power?

Tlou's low emission gas-to-power strategy is steadily progressing

An initial PPA has been secured and another in progress

Hydrogen production will evolve to include net zero emission gas-to-power opportunities





# Significant progress to date



Proven gas for power generation and H<sub>2</sub> production



Gas flows using simple horizontal drilling without fracking



Extensive environmental approvals secured



Established CPF and Operations Base



Strategic distribution centre in Serowe



Experienced operations staff



In-country engineering & logistics expertise



Operating in Botswana for over a decade



# Gas-to-Power

Natural gas will continue to play a significant role for many years, delivering energy the world needs and displacing higher emission fuels

A proven transition fuel to power change away from carbon-intensive coal and diesel

One of the most efficient and cost effective ways to transport gas is via conversion to electrons which represents Tlou's initial target

Gas can provide peaking electricity as required

Gas can provide baseload power generation

Tlou's currently flared gas can be put to near-term use for hydrogen production

Tlou owns 100% of the most advanced gas resource in Botswana with enormous upside potential



# Gas-to-Power

*Tlou's Lesedi Gas-to-Power project is the most advanced project of this type in Botswana*

- ✓ Established gas infrastructure
- ✓ Continuous gas flows for many years
- ✓ Gas flow increase being observed
- ✓ Gas flow should further increase with more drilling
- ✓ 2MW Power Purchase Agreement (PPA) secured
- ✓ Larger 10MW PPA currently being progressed
- ✓ Commenced transmission line by awarding tender
- ✓ Project finance discussions ongoing





# Gas-to-Power



*Tlou gas production pod*

*Gas is available now for power generation and hydrogen production*



Tlou Energy Limited



# Solar Power

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Tlou's solar energy strategy is steadily progressing in a region of high solar incidence

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Initial generation licence approved by BERA

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Full environmental approvals in place for expansion

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Can be used as a stand-alone clean and renewable power supply

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Can be combined with Tlou's gas to provide 24 hours of cleaner baseload power supply

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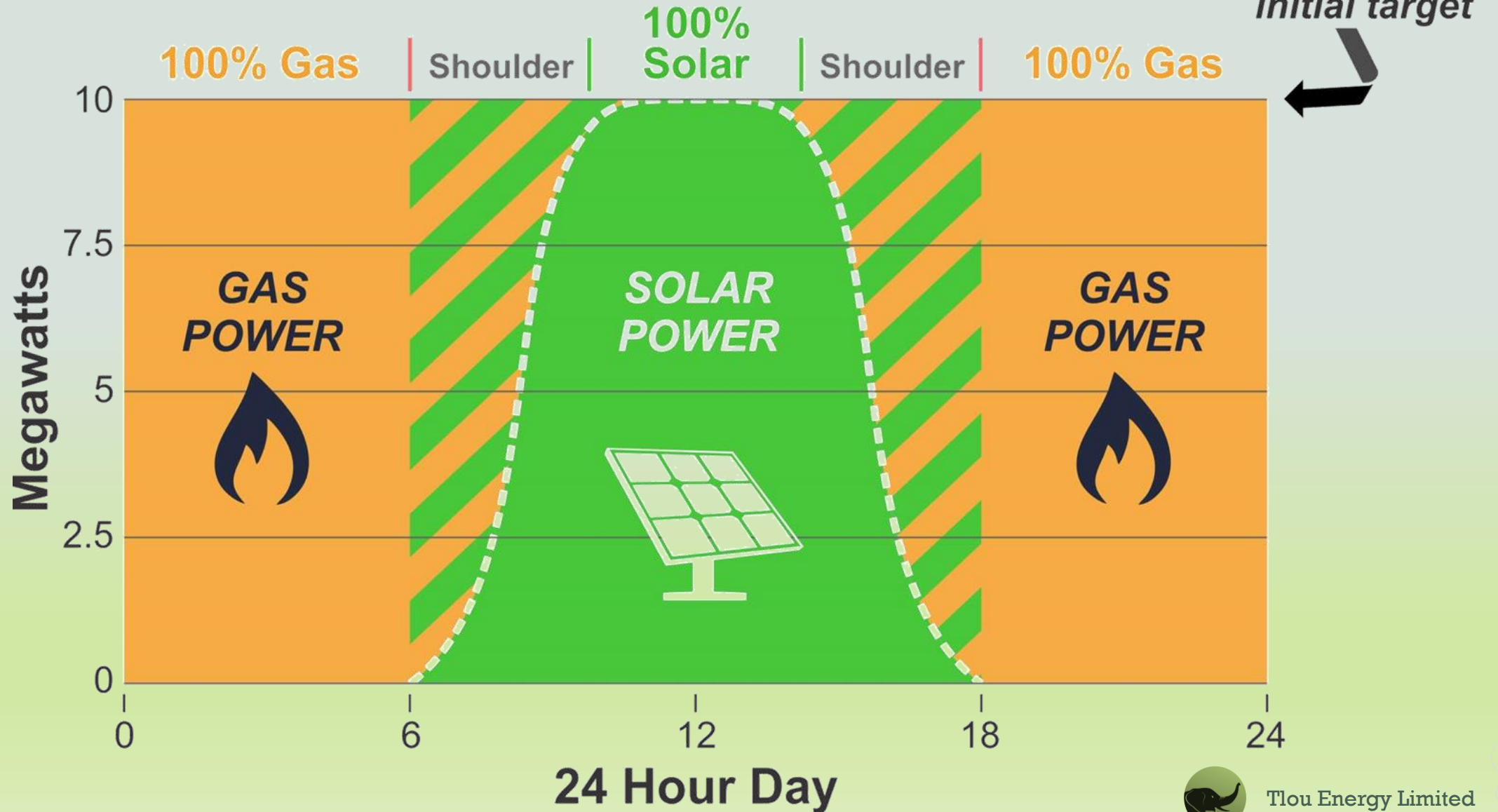
Can be used to produce "Green" hydrogen i.e. hydrogen sourced using renewables alone

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# Hybrid Power





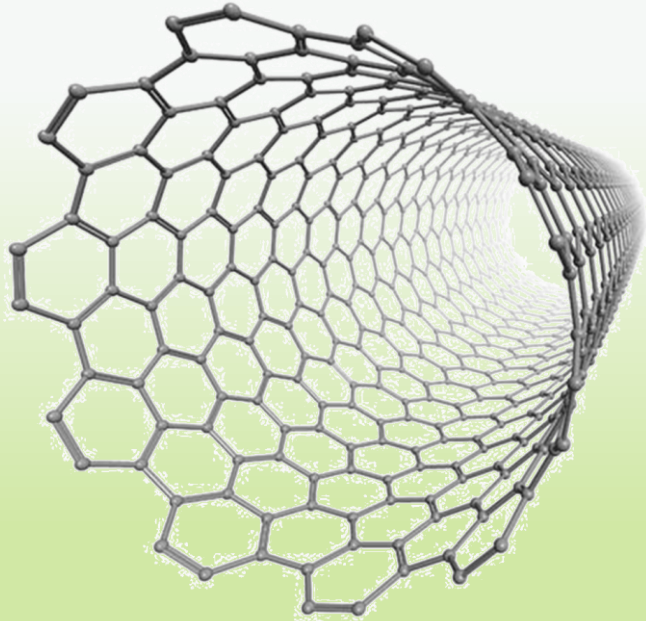
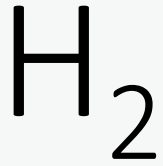
# Hybrid Power

*Hybrid power solution using solar power and a battery back-up*

- ✓ Solar-gas hybrid design ready to go
- ✓ Offers potential 24-hour baseload and peaking power
- ✓ One of Tlou's objective is to supply cleaner energy compared to the main alternatives currently available in both Botswana and the region
- ✓ Provides cleaner energy for growth initiatives
- ✓ Displaces existing carbon-intensive coal and diesel power



# Hydrogen



*Carbon Nanotube*

A proven, clean transport fuel

More flexible and energy efficient than other sources

Tlou aims to produce Hydrogen by Electrolysis &/or Pyrolysis

Tlou is well-positioned to produce "Green" Hydrogen using solar

Water from Tlou's gas project could be utilised in Hydrogen production

Transportation use + value added products, e.g. carbon nanotubes, graphene

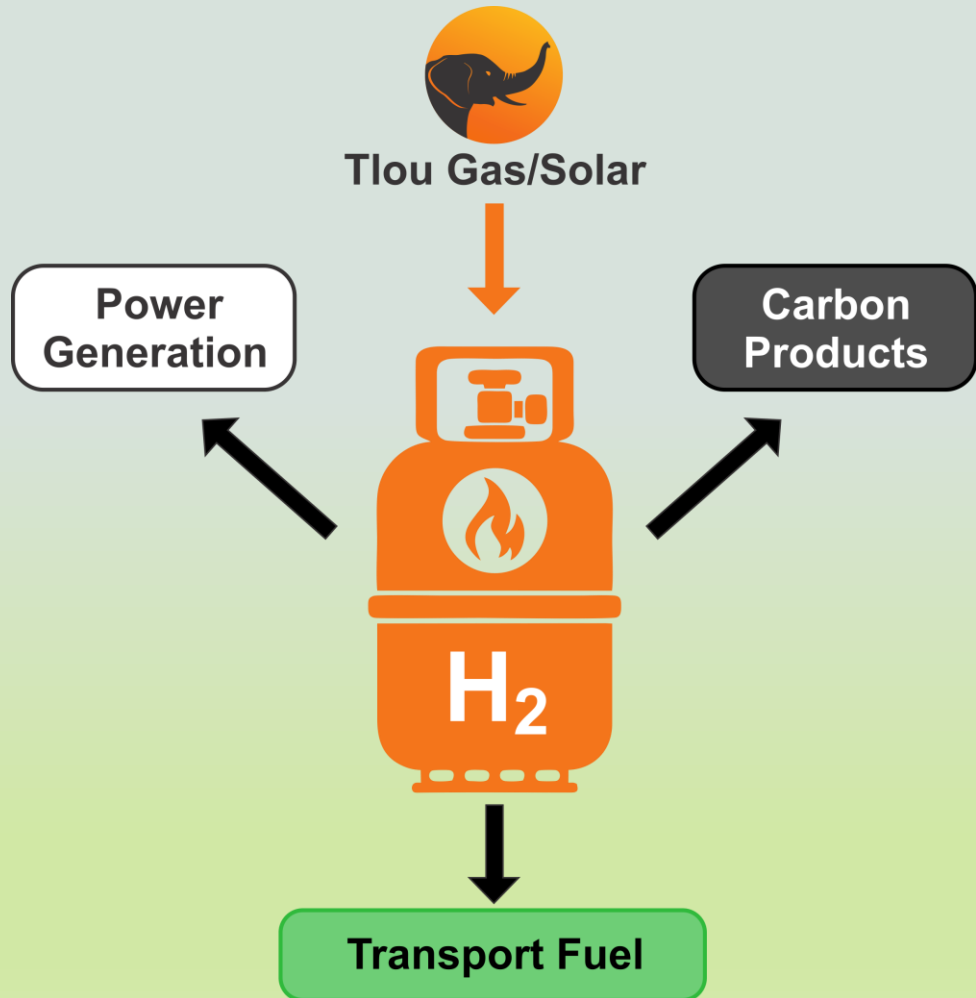
Power generation will evolve with time

Initially planning to utilise existing technology then innovate

Agreements with third parties being progressed



# Pathway to Hydrogen revenue



Initially produce Hydrogen via electrolysis at the CPF

Compress H<sub>2</sub> and use in field operations

Expand to Serowe and use as a transport fuel noting that all the country's current supplies are imported

Initial stages can be done within Tlou's existing cash reserves

Concurrently develop a hydrogen and carbon product Pyrolysis prototype

Botswana will have access to a clean transport fuel with enormous upside for Tlou and the region





# Tlou's Serowe Distribution Centre

*Tlou's existing Serowe site is a potential H<sub>2</sub> distribution and refuelling centre in Botswana*





# Botswana Clean Energy Hub

Powered by Tlou Energy Limited



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## Gas, Solar, Hydrogen...

- ✓ Clean energy for Botswana and beyond
- ✓ Production of electricity, H<sub>2</sub> and carbon products
- ✓ Extensive environmental approvals secured
- ✓ Social and economic benefits for Botswana
- ✓ Supportive stakeholders including government
- ✓ Project will be developed carefully in stages
- ✓ Sustainable employment and an enhanced quality of life in the region



Tlou Energy Limited