

# CONVERTING GAS RESOURCES TO RESERVES AND LOWER EMISSIONS

- ▶ 11.8 TCF<sup>1</sup> GAS RESOURCES
- ▶ MANAGEMENT HAVE DONE IT BEFORE



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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 made in DeGolyer Mac Naughton 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.

# CORPORATE STRUCTURE

Pure energy is the merger Real Energy and Strata-X Energy

## PRE MERGER:

- Real Energy : 353 million shares
- Strata-X Energy: 112 million shares

## MERGER:

1 Strata-X Energy share for 3 Real Energy shares  
= post merger shares on issue ~233 million shares<sup>5</sup>

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Chairman: Ron Prefontaine

- Previously ED/MD of Arrow and Bow CSG

Managing Director: Scott Brown

- Previously CFO/Finance director of Mosaic Oil, Objective Corporation Limited and Allegiance Mining.

5. Includes existing SXA shares on issue currently - 112,538,318 plus additional shares due to suppliers and management and directors (subject to shareholder approval) and additional 117, 731377 shares for RLE shareholders.

Management  
has a history of  
creating and  
building growth  
companies



PURE ENERGY  
IS MORE  
THAN  
A SIMPLE  
MERGER



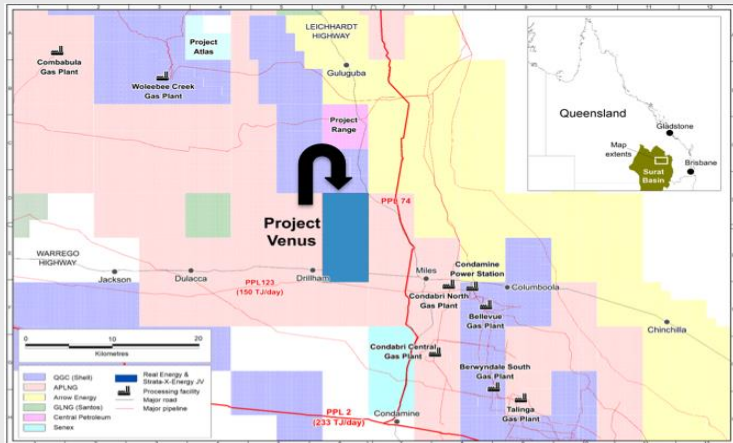
$$\begin{array}{c}
 \text{REAL ENERGY} + \text{STRATA-X ENERGY} = \\
 11.8 \text{ TCF}^1 \\
 \text{PROSPECTIVE,} \\
 770 \text{ BCF } 3\text{C}^2 \\
 353 \text{ BCF } 2\text{C}^2 \\
 \text{GAS RESOURCES}
 \end{array}$$

PURE ENERGY'S DIRECTORS  
HAVE A SUCCESSFUL  
HISTORY ~\$5 BILLION TAKEOVERS:

$$\text{MOSAIC OIL} + \text{Allegiance Mining} + \text{arrow energy} + \text{Bow ENERGY LTD}$$

WITH THE VISION OF LOW EMISSIONS  
HYDROGEN  
TRANSITION TO RENEWABLES

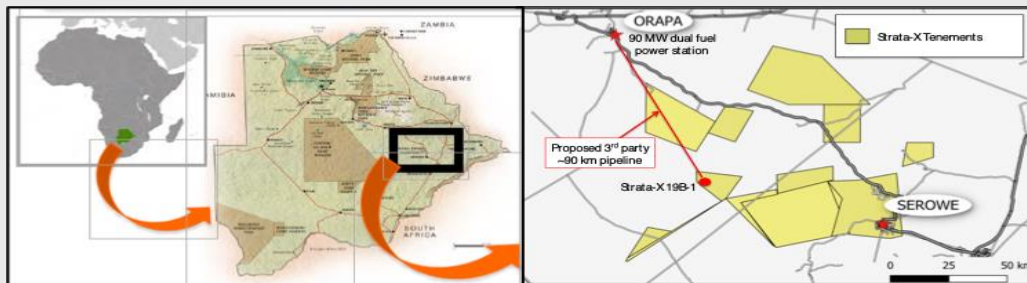
# PURE ENERGY HAS AN 11.8 TCF DIVERSIFIED GAS PORTFOLIO



- 100% Surat Basin CSG, Queensland:
- 694Pj in proven Walloon CSG<sup>1</sup>

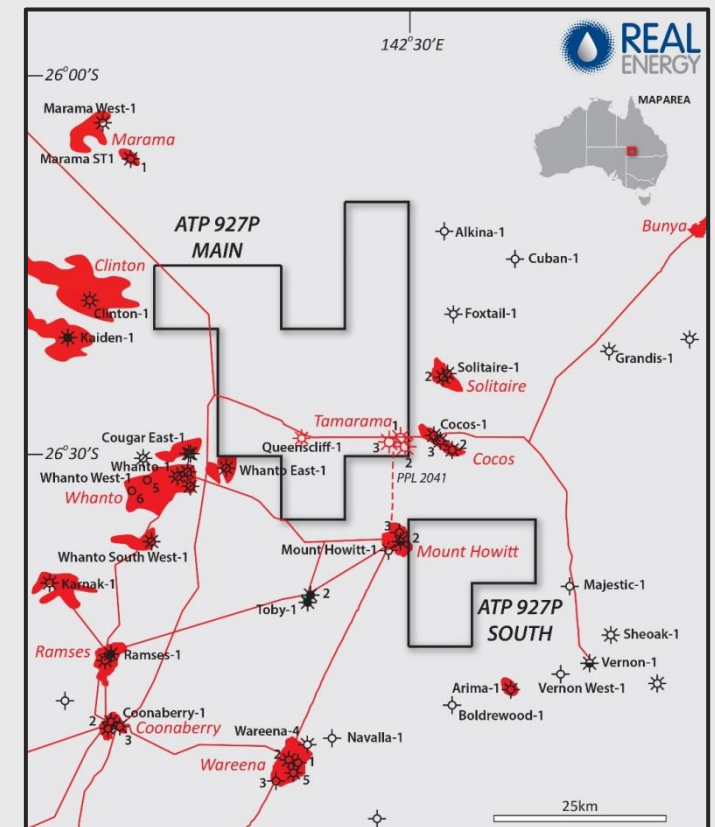
## 100% Cooper Basin gas:

- 8.8 TCF basin-centered gas<sup>3</sup>

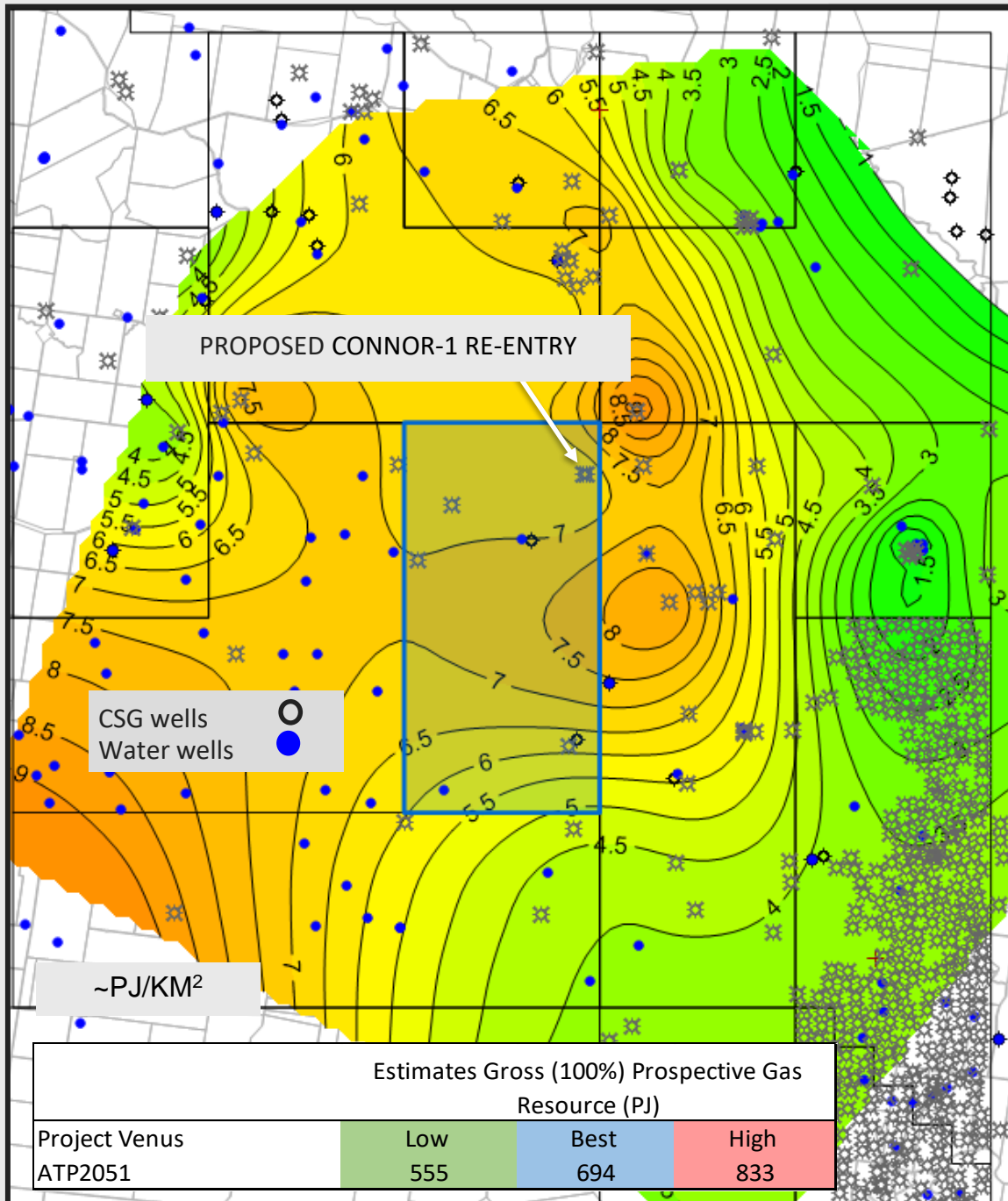


## 100% Serowe CSG, Botswana (farmed out):

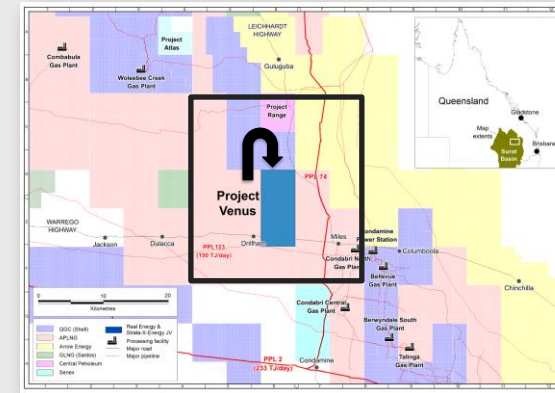
- 2.38 TCF of high-grade CSG<sup>4</sup>







# 694 PJ PROSPECTIVE GAS<sup>1</sup> RESOURCE IN PROVEN SURAT CSG FAIRWAY



Over 10,000 CSG wells drilled on the CSG fairway

- ✓ Given the high gas saturations, need to determine the optimum completion methods to achieve commercial gas flow rates.
- ✓ Once commercial gas flows achieved can systematically convert resources into saleable gas.

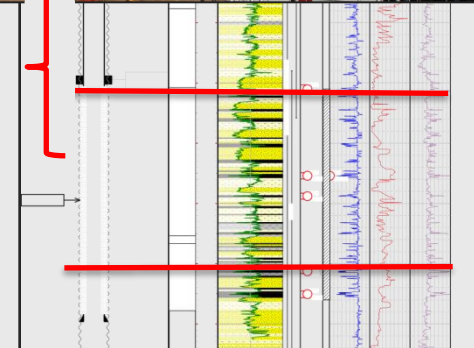


# PROJECT VENUS SURAT CSG

- Connor re-entry and flow test
- Install new wellhead
- Drill out cement and bridge plug,
- Abrasive perforations of Juandah coal seams
- Flow test post stimulation
- Planned for in the next month.



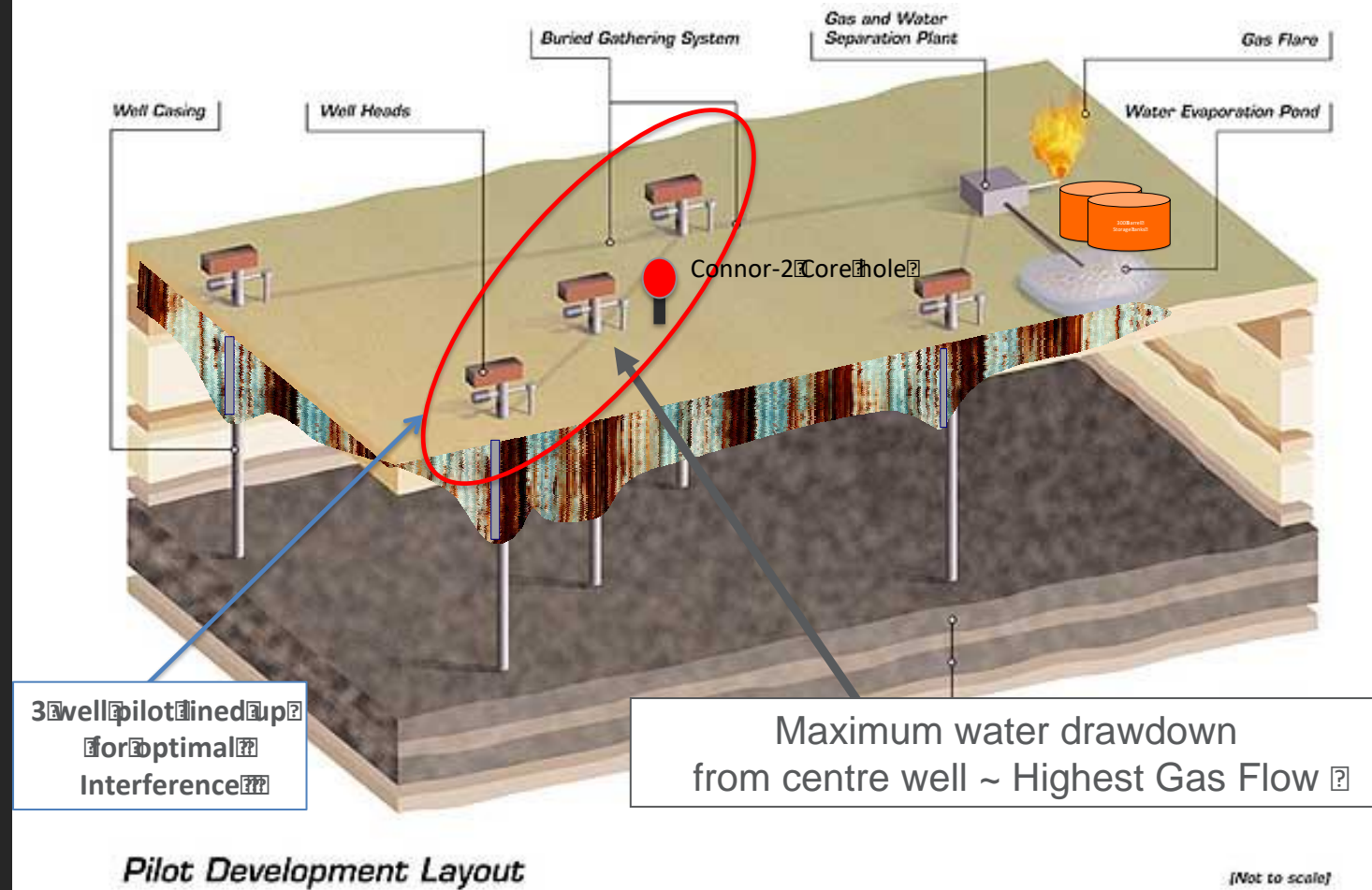
Abrasive Perforations of coal seams  
405 to 645 metres (Juandah seams)



# CSG PILOTS DESIGNED TO PROVE SUFFICIENT GAS FLOW RATES TO COMMENCE RESERVE CERTIFICATIONS



Pilot located adjacent to core hole with 100% gas saturations in upper Walloon coal seams





# WINDORAH GAS PROJECT – COOPER BASIN

**Prospective OGIP 8,800 BCF<sup>3</sup>**

**2C Resources 330 BCF**

**3C Resources 770 BCF**

- Estimated Prospective OGIP are Mean Original Gas-In-Place adjusted for renewal and excluding 2C/3C Resources.
- Gas Volumes are expressed in billions of cubic feet (BCF) at standard temperature and pressure bases.
- Resource estimates independently certified by DeGolyer & MacNaughton (Queenscliff area) & Aeon Petroleum Consultants (Tamarama area)

# COOPER - BASIN CENTERED GAS

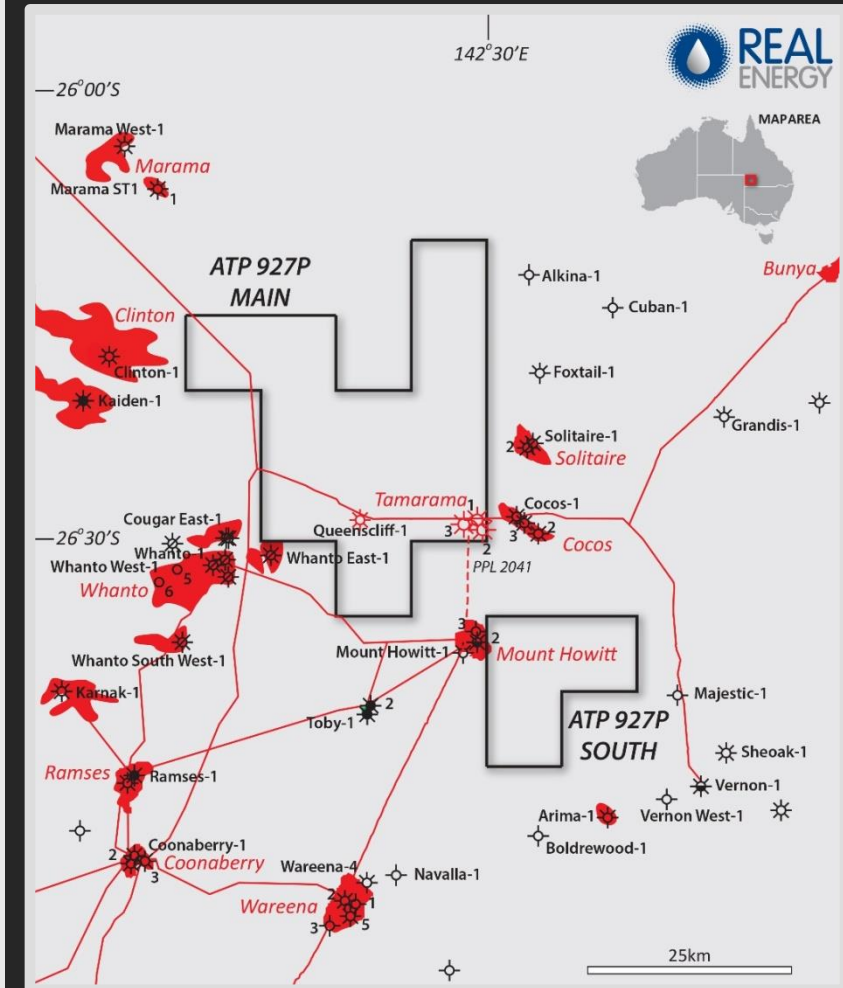
## PROPOSED COIL TUBING ENHANCEMENTS ON CURRENT VERTICAL WELLS

### Four gas wells drilled:

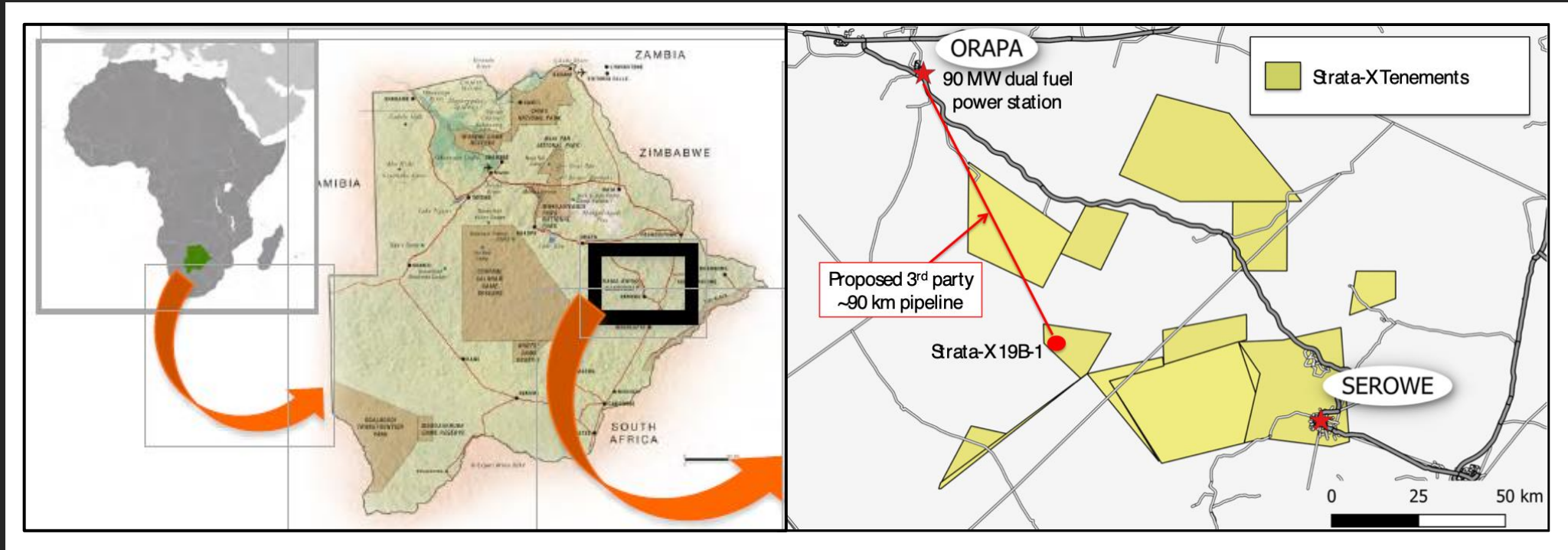
- Tamarama-1, 2 & 3 + Queenscliff-1 were all gas discoveries,
- Certified 2C/3C gas resources of 330/770 BCF<sup>3</sup>,
- Tamarama-2 had initial flow rates of 2 mmcf/d
- Tamarama-3 had initial flow rates of 2.5 mmcf/d

### Coil tubing deployed reservoir enhancements:

- Anticipate considerable improvements in Tamarama-2 gas flow rates using coil tubing workovers with non-frack reservoir enhancement,
- Total cost expected to be less than \$1 million,
- Sufficient improvement in flow rates allows for early gas sales.



# SEROWE CSG PROJECT, BOTSWANA AFRICA



- 100% of 364,325 acres (1,475 sq km) interpreted high-grade CSG.
  - With 2.38Tcf Prospective Resource and 23Bcf 2C<sup>4</sup>
  - 3rd party funded \$7 million appraisal program to commence Sept/Oct 2020\*.
  - Targets predictable reserves growth.
- \* Subject to Covid-19 international travel restrictions being lifted





# GAS FOR DIESEL SUBSTITUTION AT NEARBY ORAPA DUAL FUEL POWER STATION

## Compressed Natural Gas (CNG) – offers early cash flow

- CNG hub planned at Pure's Serowe CSG field to transport gas on roads.
- CNG generates early cash flow while pipeline/compression infrastructure is planned and built.
- Multiple CNG markets – bus companies, mines, solar backed by CNG.
- Initially supply CNG to Orapa until pipeline built.



Orapa 90 Mw dual fuel power station

## Orapa power station – foundation gas market

- 90-megawatt capacity with dual fuel configuration (diesel & natural gas)
- ~90 km from Pure's high-grade CSG area
- Currently a peaking station using imported diesel.
- Fully funded appraisal program targets reserves to supply Pure's gas for 24/7 base load electricity generation.

# MERGER CREATES A VERY HIGH POTENTIAL AND DIVERSIFIED GAS PORTFOLIO

**Pure has 11.8 TCF<sup>2</sup> of prospective gas resource in three 100% owned projects:**

- 100% CSG Walloon Surat Basin – 694 BCF<sup>1</sup> Project Venus;
- 100% Cooper Basin basin-centered gas – 8.8 TCF/ 770 BCF 3C<sup>3</sup> Windorah Gas Project.
- 100% CSG Botswana – 2.4 TCF<sup>4</sup> Serowe CSG Project. Fully carried on \$US4.6 million (\$7 million) de-risk program; 51% retained after de-risk program completed.

**PROVING COMMERCIAL GAS FLOWS ARE THE KEYS TO RESERVES GROWTH:**

- Next 12 months: Pure Energy to test completion methods targeting commercial gas flow rates.

**Merger Advantages:**

- More diversified 11.8 TCF<sup>2</sup> potential gas portfolio;
- Larger market cap with lower emissions hydrogen initiatives;
- Streamline costs of each company to lower overheads;
- Combined skill sets of SUCCESSFUL industry veterans



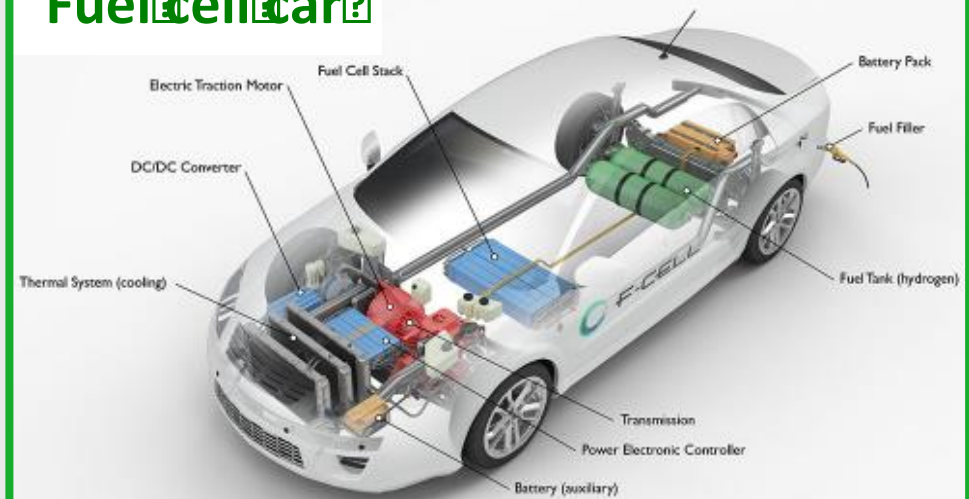


# PURE ENERGY HAS HYDROGEN INITIATIVES

1. **Pure Hydrogen Corp** –  
Feasibility of Hydrogen Plant in  
Queensland – targeting 36 million kgs  
of Hydrogen per annum.
2. **Pure Gas**  
Feasibility of value adding methane by  
conversion to hydrogen and carbon  
products.

## Fast track a hydrogen economy

### Fuel Cell Car?



# PURE ENERGY'S VISION IS VERY LOW EMISSIONS HYDROGEN

**Pure plans to expedite the manufacturing of hydrogen from CSG waste water and Pure Energy's 11.8 TCF<sup>2</sup> of uncommitted methane gas resource:**

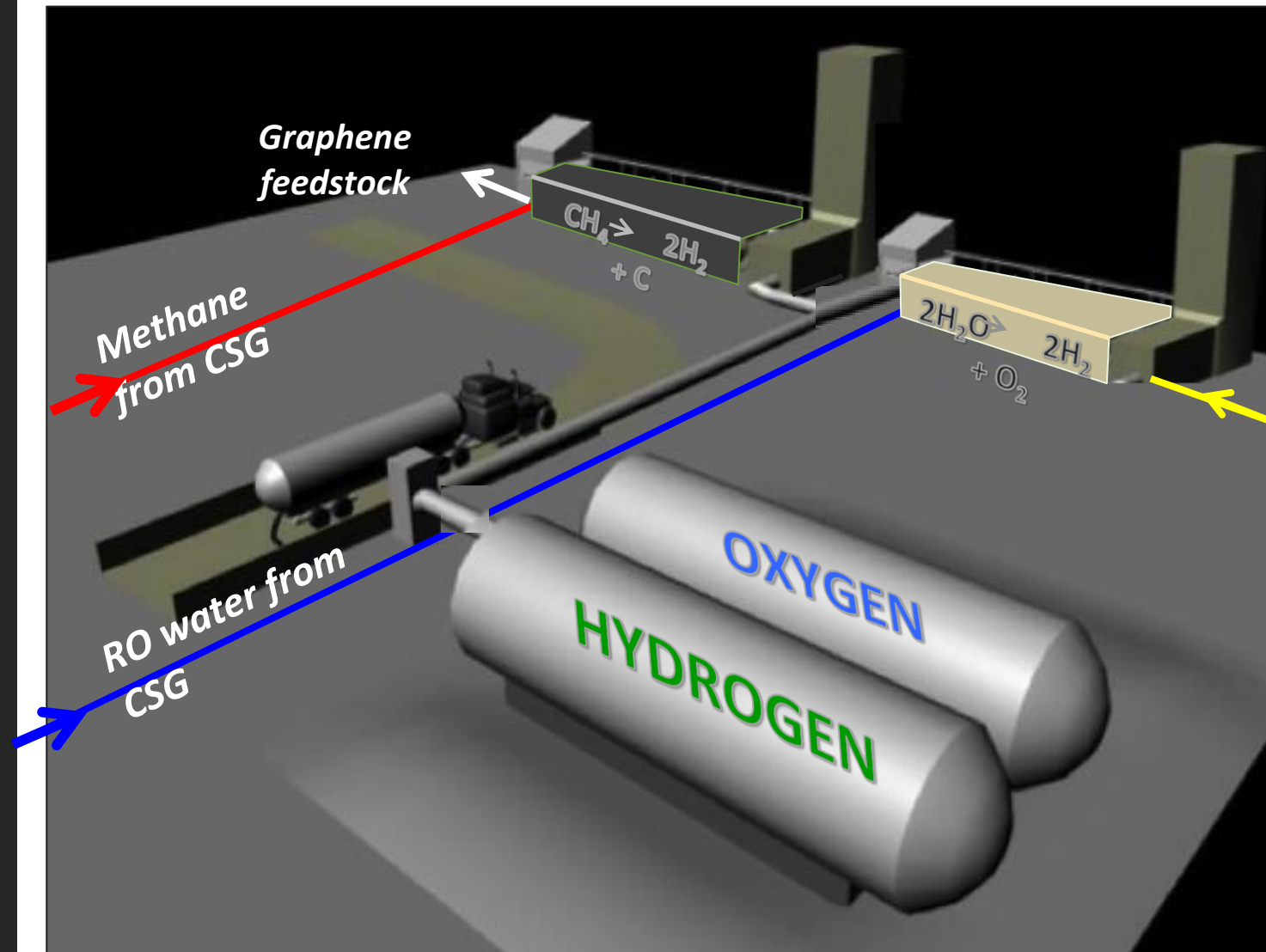
- ✓ Hydrogen manufactured from CSG waste water.
- ✓ ZERO emissions hydrogen is the FUTURE of transportation fuels – the Hydrogen Economy.
- ✓ Hydrogen and carbon products manufactured using methane pyrolysis.
- ✓ The carbon/graphite/graphene from methane pyrolysis could be the bigger value add product.
- ✓ There are sufficient global methane reserves to allow a sustainable, predictable, very low emissions transition to renewables.
- ✓ Makes methane the only green fossil fuel and an ethical investment.



# EXAMPLE OF PURE ENERGY'S PLANNED ULTRA LOW EMISSIONS HYDROGEN MODULE



- This module would be located within the Walloon CSG field Adjacent to a RO plant



# PURE ENERGY TARGETS KEYS TO PROGRESSIVELY CONVERT 11.8 TCF OF GAS RESOURCE INTO GAS RESERVES AND HYDROGEN

**100% owned projects with 11.8 TCF<sup>2</sup> gas resources to reserves growth programs planned over the next 12 months:**

Project	Location	Planned program
Venus Gas	Surat CSG, QLD	Connor-1 re-entry/flow test
Windorah Gas	Cooper Basin, QLD	CT enhancements/flow test
Serowe Gas	Botswana CSG	Fully carried ~\$7 million.

## CREATING MULTIPLE PATHS TO PREDICTABLE RESERVES GROWTH

**Plus low emissions hydrogen manufacturing initiatives:**

Project	Location	Target
Pure Hydrogen	Queensland	Proposed Hydrogen Plant
Pure Gas	Queensland	Methane to H2 + Carbon

**Any one of these opportunities can be a Company maker.**

**Management has done it before.**



## PURE ENERGY TO HAVE:

- ~233 MILLION ASX LISTED SHARES
- NO TSX LISTING
- MD AND CHAIRMAN OWN ~11.5 %

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Australia





**PROJECT VENUS –**

LR 5.25.1 – The Prospective resources are reported as at 10 December 2019 LR 5.25.2 – The petroleum resources are Prospective Resources in accordance with SPE-PRMS. LR5.25.3 – There are currently no reserves in the permit. Estimates for prospective resources have not been adjusted for development risk LR 5.25.5 – The Prospective resources are reported as 100% - Strata-X's share is 50%. Gross royalty over Project Venus is 10%. LR 5.25.6 - The prospective resources volumes were obtained by deterministic method, calculating the potentially recoverable portion of the gas-in-place using the overall prospect area, the mapped net coal thickness, raw gas content and coal density, as well as a range of estimates of the gas recovery factor of the coals. The review was carried out in accordance with the standards in the Canadian Oil and Gas Evaluation Handbook as amended from time to time, maintained by the Society of Petroleum Evaluation Engineers. This leads to a Best Estimate of prospective resources in the subject areas of 658 Bcf, a Low Estimate of 526 Bcf, and a High Estimate of 789 Bcf (all numbers are gross 100% volumes). There is no certainty that any portion of the resources will be discovered. If discovered, there is no certainty that it will be commercially viable to produce any portion of the resources. LR 5.28.1 – The Prospective Resources estimate is based on best estimate and low and high estimate. LR 5.28.2 - Cautionary Statement: The estimated quantities of petroleum that may be potentially recovered by the application of a future development project relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation are required to determine the existence of a significant quantity of potentially movable hydrocarbons. Prospective Resource assessments in this release were estimated using probabilistic methods in accordance with SPE-PRMS standards. LR 5.35.1 – The Prospective Resources are reported for the area ATP2051 (previously PLR2019-1-11) in the State of Queensland. LR 5.35.2 – The existence of a significant moveable hydrocarbons are determined by the results of previous petroleum wells in and around the permit area and review of seismic data. LR 5.35.3 – The changes of the Prospective Resources being converted to a higher PRMS designation (i.e contingent resource or reserves) is high and there is a high degree of confidence in leading to development status however there are the usual risks associated with a gas resource of this type- see Cautionary Statement above. LR 5.35.4 – The estimates were not adjusted for risk. LR 5.41 - The Prospective Gas Resources are prepared by MHA Petroleum Consultants, technical consultancy and business development services for the petroleum industry and Mr Tim L. Hower is the Senior Technical Advisor responsible for the estimates. LR 5.42 - The information contained in this release pertaining the area ATP2051 Prospective Resources estimates are based on, and fairly represent, information prepared under the supervision of Mr Tim L. Hower, Senior Technical Advisor of MHA Petroleum Consultants. Mr Tim L. Hower is a qualified petroleum reserves and resources evaluator within the meaning of the ASX Listing Rules and consents to the inclusion in this release of the prospective resources estimates related information in the form and context in which that information is presented.

**WINDORAH GAS PROJECT –**

LR 5.25.1 – The Contingent Resources are reported as at 31 July 2019. LR 5.25.2 – The petroleum resources are contingent resources. LR5.25.3 – There are currently no reserves in the permit. Estimates for contingent resources have not been adjusted for development risk LR 5.25.5 – The contingent resources are reported as 100% share. LR 5.25.6 - The stochastic method was used to estimate contingent resources in ATP 927P. The stochastic method is based on assigning a statistical distribution to each of the various parameters of the volumetric calculation of recoverable hydrocarbons (in this instance gas) and varying them in a Monte Carlo simulation. LR 5.27.3 – Arithmetic summation has been used in each category to determine Contingent Resources LR 5.33.1 – The contingent resources are reported for Authority to Prospect (ATP927P) in the State of Queensland. LR 5.33.2 – The existence of a significant moveable hydrocarbons are determined by the results of 4 petroleum wells and the flow of gas to surface from these wells. LR 5.33.3 – The analytical procedures used to estimate the contingent resources are based on the Petroleum Resource Management System (PRMS). The key contingent that prevents the contingent resource from being classified as petroleum reserves are production rates and recoverable volumes. Based on the correlations between wells and volumetric calculations, there appears to be sufficient reservoir to provide the recoverable volumes. However, it appears that fracture stimulations may not currently be contacting sufficient reservoir to provide commercial recoveries. LR 5.33.5 The Contingent Resources relate to unconventional petroleum resources with an area of approximately 1,718 sq kilometres in which 4 petroleum wells have been drilled. LR 5.41 - The contingent Resources for Queenscliff area are prepared by DeGolyer & MacNaughton, a leading international consulting firm in June 2015 and for Tamarama are prepared by Aeon Petroleum Consultants, an independent petroleum engineering firm, whose principals are James R. Weaver, P.E. and Stephen E. Dunbar. LR 5.42 - The information contained in this release pertaining to the ATP927P contingent resources estimates are based on, and fairly represent, information prepared under the supervision of Mr James Weaver, CEO of Aeon Petroleum Consultants. Mr Weaver is a qualified petroleum reserves and resources evaluator within the meaning of the ASX Listing Rules and consents to the inclusion in this release of the contingent resources and prospective resources estimates related information in the form and context in which that information is presented.

**ATP 927P Prospective Resources** and Queenscliff area contingent resources estimates are based on, and fairly represent, information prepared under the supervision of Mr Paul Szatkowski, Senior Vice President of DeGolyer and MacNaughton in June 2015. Mr Szatkowski is a qualified petroleum reserves and resources evaluator within the meaning of the ASX Listing Rules. The prospective resources figures have been adjusted on a pro-rata basis for the reduced area of ATP927P after the renewal in September 2019.

**SEROWE CSG PROJECT -**

Prospective and Contingent Resources figures are from an audit report prepared by Timothy Hower of MHA Petroleum Consultants, a qualified independent reserves auditor, dated and effective 10 May 2019 following MHA's audit in accordance with the COGE Handbook of the available technical data including the geological interpretation, information from relevant nearby wells, Company drilled wells, analogous reservoirs and the proposed program for the Project, prepared and presented to MHA by Strata-X. Tim Hower is a member of the Society of Petroleum Engineers and has consented to the resources estimates in the context they appear. Stated Prospective and Contingent Resources are based on, and fairly represents, information and supporting documentation prepared and/or audited by, or under the supervision of Timothy Hower. Prospective Resources are those quantities of petroleum estimated, as of a given date, to be potentially recoverable from undiscovered accumulations by application of future development project. Prospective Resources have both an associated chance of discovery and a chance of development. A high level of uncertainty exists with the Prospective resources given the lack of historical drilling, available data and other productivity factors that limit the economic viability of coal seam gas deposits. The reports Prospective and Contingent Resources are over Prospecting Licenses Strata-X holds for methane production the Republic of Botswana. Actual sales from the Prospecting License cannot begin until converted by Strata-X election and environmental filings to the Republic of Botswana. Stated Prospective Resource figures are Best Estimate estimated using deterministic method – unrisks, undiscovered natural gas quantities and net of a royalty and are shown at a 100% working interest in the Project and are derived from coal characterization data from the 19B-1 well comprised of 10 net metre of coal, gas saturation yields of 120 cubic feet per ton, coal density of 1.7g/cm and using a 75% recovery factor. Stated Contingent Resource figures are Best Estimate – natural gas quantities and net of a royalty and are shown at a 100% working interest in the Project and are derived from coal characterization data from the 19B-1 well comprised of 10 net metre of coal, gas saturation yields of 120 cubic feet per ton, coal density of 1.7g/cm and using a 75% recovery factor. Contingent Resources stated are estimated using low, best and high analytical inputs, using deterministic method. Contingent Resources were extrapolated over an area of 15km2 using the coal characterization of the 19B-1 well which area assumes consistent coal characterization as seen in the 19B-1 well over this area. Contingent Resources stated are prevented from being reserves until sufficient production tests are carried out and to date these tests have not been carried out. The total costs associated with establishing the commerciality of this project are unknown at this time given the early stage of the Project development. There is no certainty that any portion of the Prospective Resources will be discovered, if discovered, there is no certainty that it will be commercially viable to produce any portion of the resources.

