Pure Hydrogen

ASX Announcement

Preliminary results at Serowe 5 well - continues extending the CSG field

- **Serowe 5 has been drilled to a depth of 510 metres**
- **Serowe 5 has interpreted coal thickness of 24 metres**
- **Serowe 5 and Serowe 4 wells are both five kilometre step-outs from Serowe 3**
- **Botswana Serowe Gas Project has received third party certified 2C resources of 160.6 BCF and Prospective Resources of 10.07 TCF – The Contingent Resources will be revised again in 2022 after the results of Serowe 4 and 5.**

Sydney, 15 December 2021: Clean Energy Company Pure Hydrogen Corporation Limited (ASX: PH2 or 'Pure Hydrogen') is pleased to report that Botala Energy (Botala), its JV partner and operator of the Botswana Serowe Gas Project, has advised that it has completed Serowe 5, which will be the last well for the year within the Serowe CBM Project, in Botswana.

The preliminary logging data of Serowe 4 indicates 31 metres of coal which is about 150% higher than the original estimate. The final log report is still pending. Serowe 5 reached Total Depth of 510 metres with preliminary logging data indicates the well has a total of 24 metres of coal in line with expected thickness across 2 of the 3 seams. The well encountered dolerite which reduced the thickness of one seam, while the other 2 remain intact with associated gas.

Botala will now demobilise the operations team for a well-earned break over the Christmas period. It will and focus on the planning of 2 pilot wells in February 2022.

The operator has advised that it has now designed and is sourcing equipment to complete Serowe 3 as producer early in 2022. Once set up, the plan is to carry out an extended controlled draw down test. Success at this test can lead to progressive conversion of 2C resources and contingent resources to reserves.

Pure Hydrogen is free carried on the first $6 million expenditure in the Serowe Gas Project.

November 2021 Drilling

Serowe #4
TD ~ 480 meters

Serowe #5
TD ~ 470 meters

Image 1: Locations for Serowe-4 and 5

Image 2: Crew at the end of drilling Serowe 5.

As previously reported on 18th November 2021, the estimates of Contingent Resources for Project Serowe were prepared in accordance with the 2018 Petroleum Resources Management System (PRMS) and are reported as follows:

1C 120.4 Bcf
2C 160.6 Bcf
3C 200.7 Bcf

The independent certification of the Contingent Gas Resources was completed by Sproule Inc (further details are outlined in the other disclosures required under ASX rules)

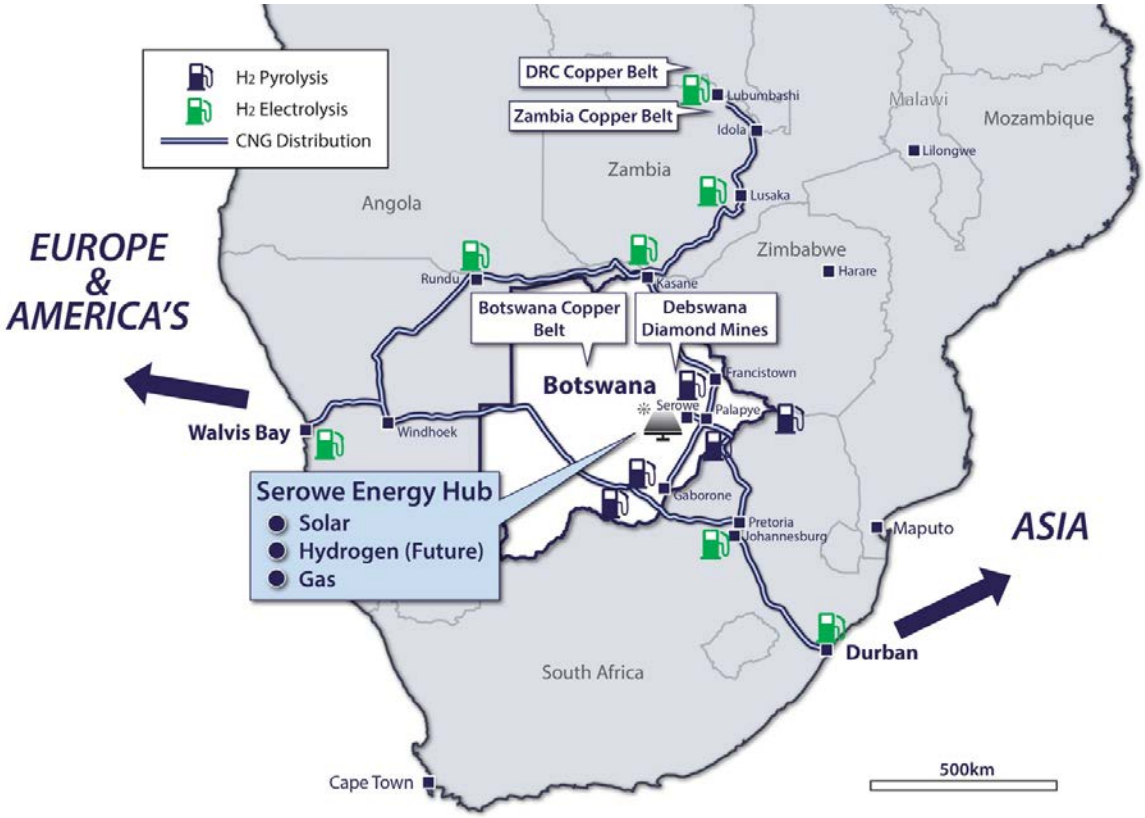

Image 2: Hydrogen Potential in Southern Africa location

This announcement is authorised by the Managing Director

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 Contingent Resources assessments in this release were estimated using probabilistic methods in accordance with SPE-PRMS standards.

The following information is provided in respect of this announcement and the reporting of contingent resources and prospective resources:

Reference can also be made to previous announcements of the Company on 18 November 2021 titled Upgrade - Serowe CSG Project - 2C Resources to 160 BCF and 6 December 2021 titled Excellent Preliminary results at Serowe 4 well - Serowe 5 spudded. Many of these disclosures are repeated from the previous announcements for completeness.

LR 5.25.1 – The Contingent Gas Resources and Prospective Resources are reported as at 15 November 2021
LR 5.25.2 – The petroleum resources are Contingent Resources and Prospective Resources in accordance with SPE-PRMS.
LR5.25.3 – There are currently no reserves in the permit. Estimates are for Contingent Resources and Prospective resource - these have not been adjusted for development risk.
LR 5.25.5 – The Contingent Resources are reported as 100%. Pure Hydorgen's share currently is 51% working interest before royalties.
LR 5.25.6 – The Contingent Resources volumes were obtained by 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.
LR 5.27.1 – The Contingent Resources estimate is based on best estimate and low and high estimates.
LR 5.5.28.1- The Best Estimated Prospective Resource Gas Volume Net of royalties is 10,072 Billion Cubic Feet (Bcf) for the Serowe Gas Project. The Low estimate is 7,554 Bcf. The high estimate is 12,590 Bcf.
LR 5.28.2 - Cautionary Statement: The estimated quantities of petroleum that may be potentially recovered by the application of a future development project related to technology under development. These estimates have both an associated risk of technology under development and a risk of development. Further appraisal and evaluation are required to determine the existence of a significant quantity of potentially movable hydrocarbons. Contingent Resource assessments in this release were estimated using probabilistic methods in accordance with SPE-PRMS standards.
LR5.33.1 – please see answer below at LR5.35.1 and para 1 of the announcement dated 18 November 2021.
LR 5.33.2 See answers fir LR 5.25.6 and LR 5.35.2
LR 5.33.3 See the second para of page 5 of this announcement and the announcement on 18 November 2021 para 3 on page 1.
LR 5.33.4 – N/A
LR 5.33.5 – N/A
LR 5.34.1 – See the announcement on 18 November 2021 para 1 on page 1.
LR 5.34.2 – See the announcement on 18 November 2021 para 1 on page 1 – the new data has increased or upgrade the contingent resources.
LR 5.35.1 – The Contingent Resources are reported for the area covered in PL016-2018, PL019-2018, PL018-2018, PL356-2018, PL357-2018, PL400-2018 in the Botswana.
LR 5.35.2 – The existence of a significant moveable hydrocarbons are determined by the results of recently drilled Serowe 2 and 3 together with Serowe 1 and previous petroleum wells in and around the permits area and review of seismic data. In addition, flow tests are expected to be conducted in the first half of 2022. The data from these wells will be used to assess the project and its viability.
LR 5.35.3 – The chances of the Contingent Resources being converted to a higher PRMS designation (i.e to reserves) is high and there is a high degree of confidence however there are the usual risks associated with a gas resource of this type- see Cautionary Statement above.
LR 5.35.4 – NA
LR 5.41 - The Contingent Gas Resources are prepared by Sproule, a leading independent petroleum engineering and certification firm based in Calgary, Canada with offices in Denver, Colorado which has experience working in most of the significant petroleum provinces throughout the world. Sproule has completed reserve and resource assessments for a number of clients in Australia and internationally including Adelaide Energy, Arrow Energy, Bow Energy, ConocoPhillips, CS Energy,

Eastern Star Gas, Metgasco Ltd, Molopo Energy Australia, Pure Energy, Santos Ltd, Senex, Sunbird Energy and Sunshine Gas 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 PL016-2018, PL019-2018, PL018-2018, PL356-2018, PL357-2018, PL400-2018 in the Botswana. Contingent Resources estimates are based on, and fairly represent, information prepared under the supervision of Mr Tim L Hower, Senior Technical Advisor of Sproule Inc. 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. Other geological information in this announcement is based on information reviewed by Mr Ron Prefontaine, who is a Member of Petroleum Exploration Society of Australia and has sufficient experience to qualify as a Competent Person. Mr Prefontaine 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 in this announcement has been sourced from information provided by the operator.

The reports Prospective and *Contingent Resources are over Prospecting Licenses Pure Hydrogen holds for methane production in the Republic of Botswana. Actual sales from the Prospecting License cannot begin until converted by Pure Hydrogen (election and environmental filings to the Republic of Botswana. Stated Prospective Resource figures are Best Estimate estimated using deterministic method – unrisked, 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 characterisation 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.*

This announcement has been authorised by the Managing Director

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About Pure Hydrogen Corporation Limited
Pure Hydrogen is an Australian east coast focused Clean Energy Company with Hydrogen, Gas and mobility businesses including a strategic interest in H2X Global Limited. The Company has 5 Hydrogen projects under development and 3 gas projects, Windorah Gas Project in the Cooper Basin, Australia's most prolific onshore producing petroleum basin, Project Venus CSG in the Surat Basin in Queensland and the Serowe Project CSG in Botswana.

For further details www.purehydrogen.com.au