

# **GENERAL INFORMATION SHEET**

January 2024

## PROPOSED HYDROGEN REFUELLER @H2PERTH

Woodside Energy (Woodside) is a global energy company, founded in Australia. Our vision is to provide the low-cost, lower carbon<sup>1</sup> energy the world needs. Our focus is on three pillars – gas, oil and new energy – which all have a role to play. Our new energy portfolio includes the proposed Hydrogen Refueller @H2Perth.

We are proposing to develop the Hydrogen Refueller @H2Perth, a self-contained hydrogen production, storage and refuelling station. The station aims to supply low cost, hydrogen fuel for local customers as well as stimulate and enable hydrogen demand in Western Australia.

Hydrogen Refueller @H2Perth is proposed to be built on vacant industrial land in the Rockingham Industry Zone (RIZ), just south of Perth and adjacent to our proposed H2Perth project.

The facility would be located on the Gnaala Karla Booja (GKB) region of the Noongar Nation. The GKB region refers to the Noongar language or dialectical groups of the Binjareb/Pinjarup, Wilman and Ganean. We acknowledge the connection of Noongar people to that Country, and their Elders - past and present.

## H2Perth

Woodside is also progressing a separate hydrogen and ammonia opportunity, called H2Perth.

H2Perth is a proposed domestic and export scale hydrogen and ammonia production facility, to be located within the RIZ.

H2Perth would provide a significant opportunity to establish a new strategic export industry for WA, supply hydrogen to local and international users seeking to lower their emissions, and support the stable transition of our local electricity grid to renewable sources.

For more information, visit the Woodside website at: <u>www.woodside.com</u>



Figure 1 – Hydrogen Refueller @H2Perth schematic. Conceptual only, not to scale. Subject to commercial arrangements and regulatory approvals which may result in changes to the overall development concept.

1 Woodside uses this term to describe the characteristic of having lower levels of associated potential GHG emissions when compared to historical and/or current conventions or analogues, for example relating to an otherwise similar resource, process, production facility, product or service, or activity.

#### **Project snapshot**

Proposed activity	Production and storage of hydrogen for local supply
Proposed location	The facility would be built within an area of up to approximately 1.5 ha of vacant industrial land in the RIZ, which is located in the Rockingham and Kwinana Local Government Areas
Approvals	Woodside is in the process of obtaining all necessary environmental and regulatory approvals
Production methods	Electrolysis, proposed to be via a 2.6 MW electrolyser powered by 100% renewable electricity^2 $$
Estimated production	Woodside is targeting an initial production of 0.2 tonnes per day of hydrogen, with the potential to scale up to 1 tonne per day

## Hydrogen Refueller @H2Perth: helping drive development of a local hydrogen market

Hydrogen has many different uses. One of the key end use markets we are targeting is heavy duty transport, where hydrogen can act as a potential substitute for diesel. Vehicle manufacturers around the world are already developing fuel cell based vehicles that need hydrogen as fuel.

We are intending to help accelerate the uptake of hydrogen fuelled vehicles in Western Australia, by developing the Hydrogen Refueller @H2Perth, a self contained hydrogen production, storage and refuelling station.

This facility would supply low cost hydrogen fuel for industrial customers and the public (subject to safety, security and operational procedures). This would help to stimulate and enable hydrogen demand in Western Australia, as well as supporting State Government objectives for hydrogen to be a significant fuel source for transportation by 2030.

#### Intending to be net zero from the start of operations

Hydrogen can be produced through a variety of different methods, and although hydrogen does not emit carbon when it is used, some methods of making hydrogen do generate emissions.

At the Hydrogen Refueller @H2Perth, Woodside is proposing to produce hydrogen using electrolysis. This is a process where electricity is used to separate hydrogen (H2) from water (H2O). Depending on the source of the electricity used, electrolysis can have varying emissions profiles.

Woodside's intent is for the Hydrogen Refueller @H2Perth to be net zero Scope 1 and 2 greenhouse gas emissions from the start of operations To achieve this, the Hydrogen Refueller @H2Perth is proposed to be powered by 100% renewable electricity<sup>2</sup>.

## Collaborating to make low cost, lower-carbon<sup>1</sup> energy available to local customers

A key part of our new energy strategy is to collaborate with potential customers, research organisations, governments and others to develop demand for new energy products.

In July 2023, Woodside executed an agreement with the State of Western Australia for funding under the Western Australian Government's A\$10m Hydrogen Fuelled Transport Program for the Hydrogen Refueller @H2Perth.

Woodside has also signed: (i) conditional, non-binding Memorandums of Understanding stating its intention to supply hydrogen from the Hydrogen Refueller @H2Perth to BGC and Centurion; and (ii) a conditional, non-binding term sheet for the supply of hydrogen from Hydrogen Refueller @H2Perth to Cleanaway, each of which intend to buy and operate hydrogen vehicles. It is envisaged that these vehicles will replace diesel trucks currently in use, helping reduce emissions.

Woodside is also proposing to lease a small fleet of passenger vehicles which are to be refuelled at the facility.

## Our approach

We recognise that strong environmental and social performance is essential to our success and continued growth. Woodside is working to identify and mitigate any potential environmental and social impacts associated with the Hydrogen Refueller @H2Perth.



1 Woodside uses this term to describe the characteristic of having lower levels of associated potential GHG emissions when compared to historical and/or current conventions or analogues, for example relating to an otherwise similar resource, process, production facility, product or service, or activity.

2 The Hydrogen Refueller @H2Perth proposes to use electricity sourced from the South-West Inter-connected System and to procure Renewable Energy Certificates from eligible renewable energy sources under the Renewable Energy (electricity) Act 2000.

### **Further Information**

For further information or request to be consulted by Woodside on this activity please see contact details below:

Email: Feedback@woodside.com

Toll free: 1800 442 977

