



SUCCESS THROUGH PARTNERSHIP

Jason Crusan (VP New Energy Solutions) May 2023

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Climate strategy and emissions data

Further information as to Woodside's climate strategy, including references to "lower carbon" as part of that strategy, is set out in Woodside's Climate Report 2022 available on the Woodside website at

https://www.woodside.com/sustainability/climate-change. The footnotes to this presentation provide further clarification of "lower carbon" where applicable. Woodside uses the term 'lower-carbon services' to describe technologies, such as CCUS or offsets, that may be capable of reducing the net greenhouse gas emissions of our customers

All greenhouse gas emissions data in this presentation are estimates, due to the inherent uncertainty and limitations in measuring or quantifying greenhouse gas emissions.

Woodside "greenhouse gas" or "emissions" information reported are Scope 1 GHG emissions, Scope 2 GHG emissions, and/or Scope 3 GHG emissions. For more information on emissions data refer to Woodside's Climate Report 2022 available on the Woodside website at https://www.woodside.com/sustainability/climate-change



Our areas of activity



History of partnerships to unlock new industry





1985 – NWS JV signs major LNG contracts with 8 Japanese gas and power companies











Hydrogen and ammonia solutions

HYDROGEN AND AMMONIA STRATEGY

Develop solutions and pursue technologies to assist our customers with their decarbonisation pathways

	HEAVY DUTY TRANSPORT
FOCUS	Decarbonisation of mobility sector (diesel substitution)
BENEFITS	Line of sight to diesel parity
	Operational benefits vs. battery electric trucks

PROGRESS

Long lead items ordered for H2OK

POWER

Decarbonisation of coal-fired power generation and longer term substitution of natural gas

Diversifies supply and provides lower-carbon power

Potential to expand into

Potential to expand into combined cycle gas turbines

Joint feasibility study on ammonia supply chain from Australia to Japan

SHIPPING AND MARINE FUELS

Decarbonisation of maritime and supply chains

May enable lower carbon shipping corridors

Exploring opportunities with potential partners and original equipment manufacturers

INDUSTRIALS AND CHEMICALS

Provide lower carbon industrial feed stock and CCS in hard-to-abate sectors

May enable progressive displacement of existing grey ammonia and hydrogen supply¹

Exploring new opportunities across hard-to-abate sectors



Carbon management strategy

Develop integrated carbon solutions to help our hydrocarbon business, new energy business and our customers

CARBON CAPTURE AND OFFSETS CARBON TO PRODUCTS STORAGE (CCS) Secure and accelerate CCS in Australia Originate high integrity offset units and Invest in technology advancement to **FOCUS** purchase from select third parties and beyond convert carbon into useful products Future conversion of carbon at **BENEFITS** Available at scale now Potential for large scale CO₂ storage source of generation **Executed plan to secure** Awarded three licences to **Collaborations with String PROGRESS** offsets to meet Woodside's advance studies on carbon Bio, ReCarbon and 2030 net emissions reduction capture and storage in LanzaTech targets^{1,2} Australia³



^{1.} Amount of offsets includes those currently held in offset accounts, forecast yield from forward contracts and offsets related to land purchased for carbon origination projects (but not yet fully implemented). The offsets include Australian Carbon Credit Units and voluntary market offset units. Forecast includes offsets required up to and including 2030 and excludes retired units.

^{2.} Woodside equity emissions abatement demand is based on current and sanctioned projects at current equity share as well as near- and medium-term net equity scope 1 and 2 greenhouse gas emissions targets.

B. The greenhouse gas assessment permits are subject to commercial agreements and regulatory approvals.

Decarbonisation through novel technology partnerships

Al-enabled concentrated solar

- Equity investment and partnership with **Heliogen**
- Commercial scale 5MWe demonstration project planned in California



Conceptual only, not to scale.





Single-cell proteins

- Invested in **String Bio**, proprietary technology company that converts methane into single-cell protein to be used for livestock feed
- Pilot facility in planning

Ethanol from waste

- Partnered with LanzaTech and ReCarbon to produce ethanol from waste gases
- Option to lease agreed for Pilot facility at waste treatment plant in Western Australia



Conceptual only, not to scale.



Conceptual only, not to scale.

Renewable ammonia production

- Participating in Southern Green Hydrogen project in Southland
- Partnering with Meridian Energy, Mitsui, and support of Murihiku Regeneration to cover complete value chain from electricity generator, marketing and trading, local support, and experienced developer (Woodside)



Key takeaways

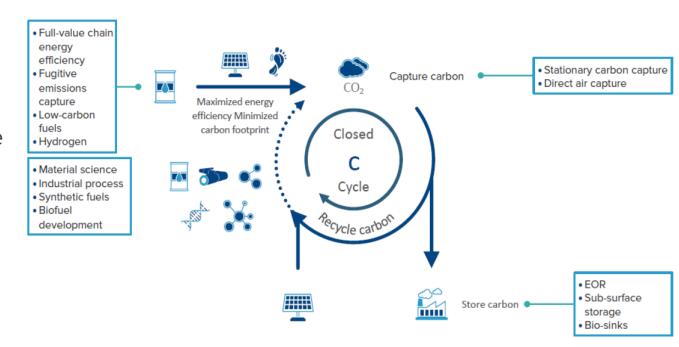
- The energy transition will take time but will also create opportunities.
- We intend to thrive by developing a low-cost, lower-carbon, profitable, resilient and diversified portfolio.
- We're collaborating with customers, building our new energy portfolio and developing integrated lower-carbon solutions.
- Let's continue to collaborate it's the key.



CO₂ Circular Economy

How does C2P play into a carbon economy

- Capture is essential to sequestration and utilization
- Through sequestration, CO₂ can be permanently isolated from the atmosphere.
- Utilization can offer additional uses, transforming the CO₂ for longer periods of time through creation of different products:
 - Fuels: days to months
 - Food: months to years
 - Base chemicals (polymers, binders): years to decades
- When combined, sequestration and utilization can represent a circular carbon economy



The circular carbon economy¹

