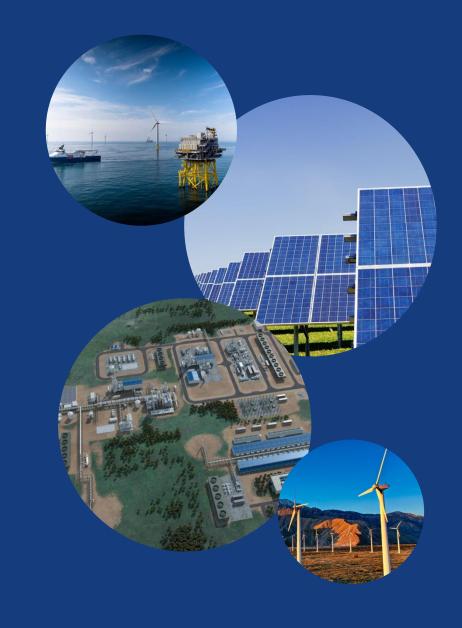


Delivering Clean Energy for the Mid West

Corporate Presentation
June 2022

PILOT ENERGY LIMITED ASX:PGY



Compliance statements



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Competent Persons Statement

This announcement contains information on conventional petroleum and carbon storage resources which is based on and fairly represents information and supporting documentation reviewed by Dr Xingjin Wang, a Petroleum Engineer with over 30 years' experience and a Master in Petroleum Engineering from the University of New South Wales and a PhD in applied Geology from the University of New South Wales. Dr Wang is an active member of the SPE and PESA and is qualified in accordance with ASX listing rule 5.1. He is a former Director of Pilot Energy Ltd and has consented to the inclusion of this information in the form and context to which it appears.

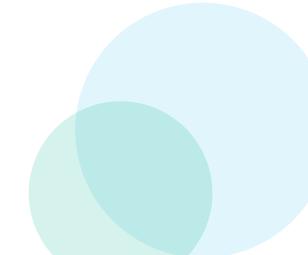
Authorisation

This presentation has been authorized by the Chairman and Managing Director on behalf of the Board of Directors of Pilot Energy Limited

Mid West WSP Feasibility Study Reporting Conditions

Pilot has agreed the following conditions with the ASX in relation to the Mid West WSP feasibility study:

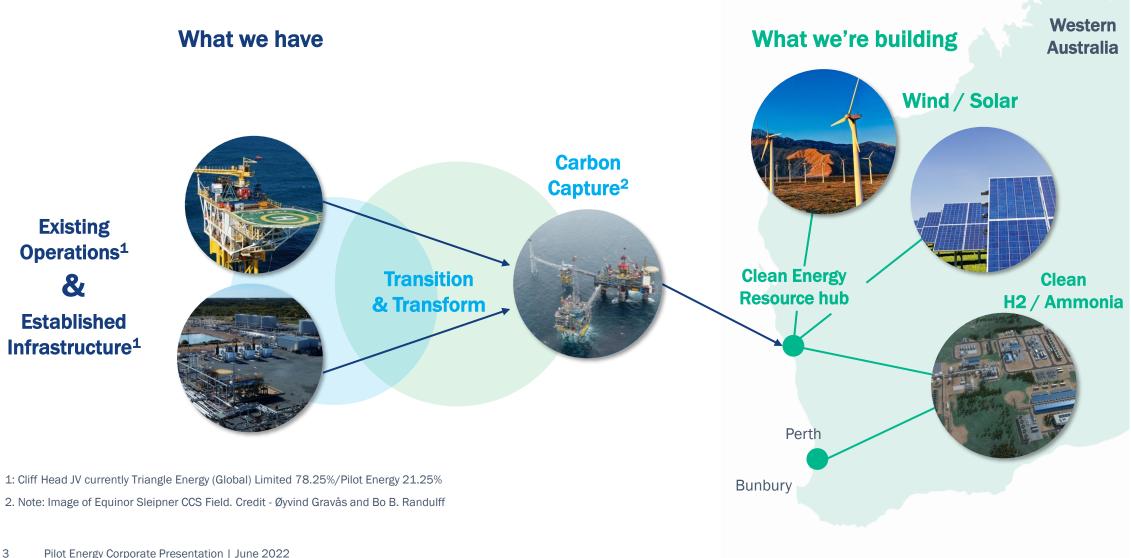
- 1. The Company must continue to spend funds on its existing and proposed oil and gas projects.
- 2. The Company must disclose in each quarterly activities report until September 2022, the proportion of expenditure incurred in relation to exploration and evaluation on the oil and gas projects and the Mid West Wind and Solar Project.
- 3. The Company must disclose as separate line items in each quarterly activities report until September 2022, expenditure incurred in relation to exploration and evaluation on the oil and gas projects and the Mid West Wind and Solar Project.
- 4. Proceeding beyond the feasibility study stage of the Project (or incurring expenditure in excess of the budgeted feasibility expenditure in relation to the Project) constitutes a change in the nature and scale of the Company's activities in terms of Listing Rule 11.1 and as such the Company will be required to comply with all of the requirements of Chapters 1 and 2 of the Listing Rules before it proceeds beyond the feasibility study or incurs expenditures in excess of the budgeted feasibility expenditure on the Project.



Pilot's Clean Energy opportunity



Transforming existing assets and established infrastructure to deliver competitive, low cost clean energy



Investment highlights





The Energy Transition is underway





Australia could take CCS stage by storm

Nation's geology offers abundant carbon storage

17 May 2022 2:34 GMT UPDATED 18 May 2022 12:42 GMT

By Amanda Battersby 🗘 in Brisbane

Australia is well positioned to become a leading carbon, capture and storage (CCS) and carbon capture, storage and utilisation (CCUS) player on the global stage, according to Australian Petroleum Production & Exploration Association (APPEA) chairman, Ian Davies.





Ammonia co-firing in thermal power plants could be worth US\$100 billion in 2050

18 May 2022







While hydrogen can be used in many sectors, its derivative, ammonia, has emerged as a key tool to provide flexible power generation and integrate variable renewables. Analysis by Wood Mackenzie, a Verisk business (Nasdaq:VRSK), shows that a 10% ammonia co-firing in global coal plants would translate to 200 million tonnes (Mt) of ammonia demand, a potential market of US\$100 billion by 2050.

The West Australian

Energy Oil & Gas Politics Renewable Energ

McGowan reinforces backing for Scarborough gas project despite election's climate concerns



Sean Smith | The West Australian Wed, 25 May 2022 3:24PM | ■ Comments

Sean Smith

WA Premier Mark McGowan has reinforced his backing for the huge Scarborough gas project in the face of growing calls since Saturday's change of Federal Government for the development to be blocked.

"Those approvals are all done," Mr McGowan said of Scarborough,

"There's significant offsets of the emissions from that project and obviously those issues will have to be worked through," he told journalists on Wednesday.

"But offsetting emissions and making sure we have carbon capture and storage are going to be important parts of what happens with gas projects in the future."

FINANCIAL REVIEW

'Lesson learnt': CSIRO regrets not speaking up for CCS

Angela Macdonald-Smith and Mark Ludlow

May 18, 2022 - 6.18pm

The CSIRO admitted it should have been more vocal in advocating for the viability and need for carbon capture and storage, which is a widely accepted emission reduction technology in countries such as Norway.

BUSINESS REVIEW

Labor victory revs up renewables with new policy promises

With a few key phrases in his acceptance speech, incoming Prime Minister Anthony Albanese signalled a major change coming for the green economy.

His declaration that Australia could "end the climate wars" and be a "renewable energy superpower" opens the door for a flood of money to pour into the clean energy sector, strategists say.



WA to look at hydrogen power target

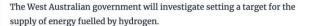
By Tim Dornin

Updated May 6 2022 - 11:31am, first published 11:29am









This idea would set a target for retailers in the South West Interconnected System, WA's main electricity grid, to procure a certain percentage of electricity produced by renewable hydrogen.

Mid West Clean Energy Project value proposition



	Current	Stage 1 Car	bon Capture	Stage 2 Blue H2		Stage 3 Clean Ammonia	
Timing	2022-2025	2024-2025	2026 onward	2025-2027		2027 onward	
Activity	Production	Conversion	CO2 Injection & storage	Construction	Production	Construction	Production
Operations		CO ₂ transp	CO ₂ storage	Blue H2 plant The Air Liquide hydrogen fiel plant under construction in North Las Vegos.	Nevada – photo: Tom Glynn	Co, to CSS Ammonia Export Mid We	Blue Hydrogen Production Green Hydrogen Production est Clean Energy Plant
Market	Final oil production	rever	CCS nues	H2 + pov			ammonia + r revenues

Carbon Capture and Storage (CCS) - the key enabler



Pilot's Mid West Clean Energy Project presents a material clean energy opportunity

Substantial opportunity – Cliff Head CCS project (PGY 57.5%/TEG 42.5%)* alone is a substantial opportunity, but also provides foundation for future clean hydrogen and ammonia

Unique position – Cliff Head CCS a unique project unable to be replicated by others – only end-of-life offshore reservoir with Commonwealth regulatory pathway to CCS

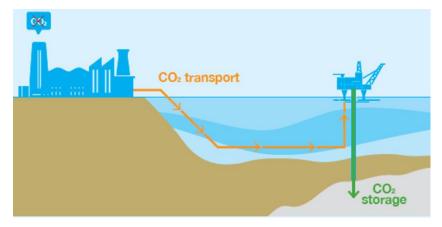
Low Risk & Low Capex – Straight-forward conversion using existing plant, pipelines, wells, platform and reservoir to facilitate CCS with significant expansion potential

Organic funding – Increased end-of-life oil production required for reservoir preparation - substantially funds conversion to CCS

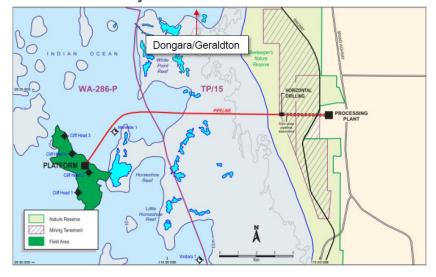
High NPV impact – Stage 1 CCS project delivers significant free cash flow and project NPV

Ready, easily accessible market – Up to 1.1 million tpa of easy-to-capture CO2 emissions within 15-40km of Cliff Head CCS project onshore facilities

Near-term term delivery – Aiming for CCS start-up 2025/26 and further target to deliver first-to-market clean ammonia supply 2027



Cliff Head Field Layout



^{*} Refer footnote 1. on p8

Near-term focus – Cliff Head CCS



CCS opportunity compelling and provides runway for producing low cost, clean hydrogen and ammonia

Interest ¹	 Pilot = 57.5% & operator Triangle Energy (Global) Limited = 42.5% 	Triangle Energy		
Scale	 Injection rate = 0.55Mtpa increasing to 1.1 Mtpa for 15+ years Total storage = Up to 15.8 Mt (3C) Additional upside case continuing 1.1 Mtpa through to 2050 under review 			

Indicative Key Metrics² (100%

project)

Timing

Capex

• FEED = 2022/2023

• FID = Mid 2023

• Final Production capex = A\$13 million

• CCS Operations start-up = 2026

- Initial facilities and well capex = A\$110 million (Commencing early 2025)
- Expansion capex = ~A\$60 million to increase injection to 1.1 Mtpa
- Net initial funding requirement after contribution from oil production cash flow reduces to circa A\$70 million (Pilot share ~\$40M)

Cash Flow

- Pre-injection = ~A\$40 million cash flow contribution from oil production from 2023 through to 2025
- Start up initial 0.55 Mtpa = A\$15 18 million pa cash flow
- Projected 1.1 Mtpa from 2029 = A\$50 60 million pa cash flow
- Project cash flow = A\$500 550million

Project Economics

- Project NPV (8%) = A\$110 210 million
- Project IRR = 30-40%
- Project Payback = ~4 years
- Estimated Opex per tonne = ~A\$9 -16
- Range based on 0.55 Mtpa vs 1.1 Mtpa injection case



Location of Major CO2 emissions and sources to Cliff Head CCS Project

Current interests stated in the CH CCS Project are subject to the achievement of certain milestones (refer ASX Announcement dated 26 April 2022)

^{2.} Any forward-looking statements (including projections) contained in the 'Indicate Key Metrics' are estimates only. . The indicative estimates are based on inputs from the previously advised completed feasibility studies and internal assessment of operating expenditures. Such estimates are subject to market influences and contingent upon matters outside the control of Pilot Energy and therefore may not be realised in the future.

Carbon Capture and Storage - a proven solution



CCS is the process of capturing and permanently storing carbon dioxide preventing release into the atmosphere

Carbon capture and storage

- CCS involves capture of CO2, compressing it for transportation and injecting it deep into a rock formation for long-term storage
- Underground storage is usually at depths of 1km or more to be stored in depleted oil and gas reservoirs or deep saline aquifers
- Proven and well established process first started in 1972 – with current installed capacity globally of ~40Mtpa¹
- Large-scale projects deliverable in the very near-term utilising existing oil & gas pipelines, infrastructure, wells and reservoirs

Methods for storing CO2 in deep underground geological formations

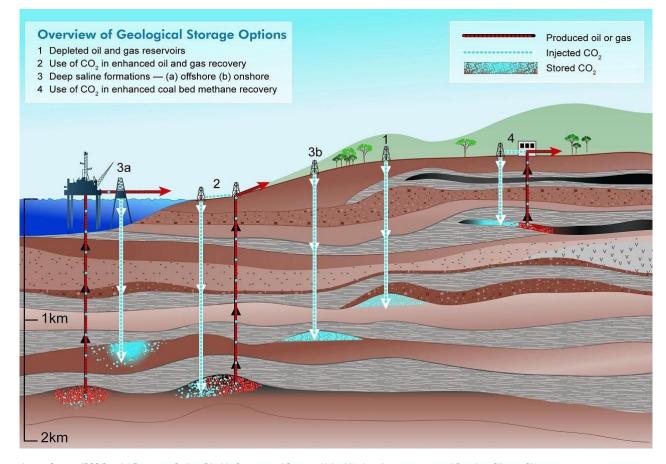


Image Source: IPCC Special Report on Carbon Dioxide Capture and Storage, United Nations Intergovernmental Panel on Climate Change

^{1:} Global CCS Institute Report, Global Status of CCS 2021: CCS Accelerating to Net Zero

CCS globally



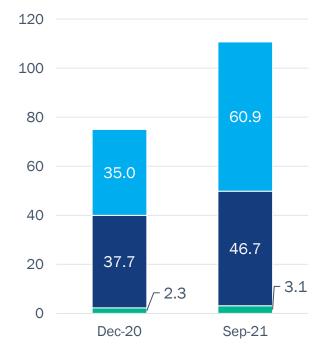
CCS project capacity in development grew 48% from December 2020 to September 2021



- Commercial CCS facilities in operation and construction
- Commercial CCS facilities in development
- Pilot Energy

Source: Global Status of CCS 2021 report, Global CSS Institute

Capacity of CSS Facilities in Development (Mtpa)

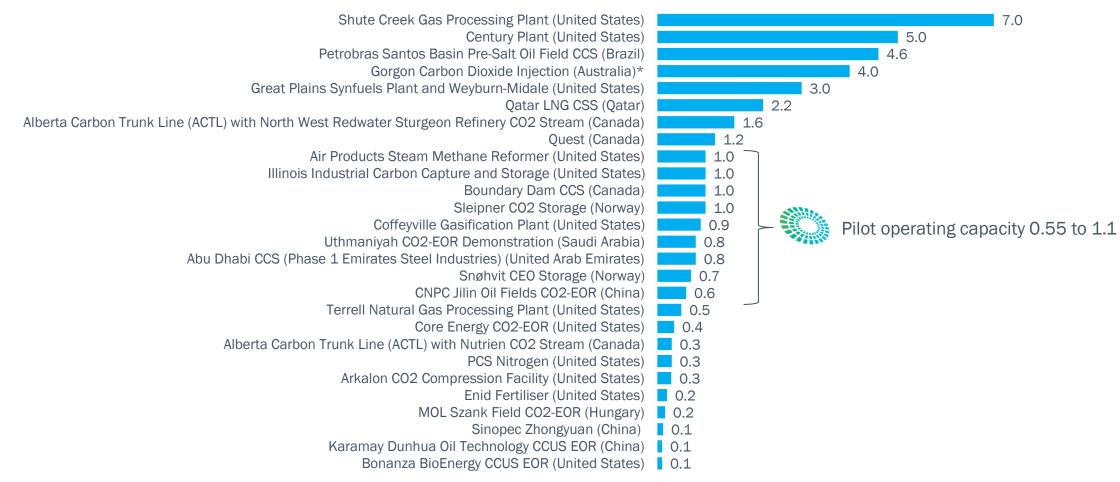


- Early development
- Advanced development
- In construction

Operational capacity of large-scale CCS facilities worldwide as of 2021

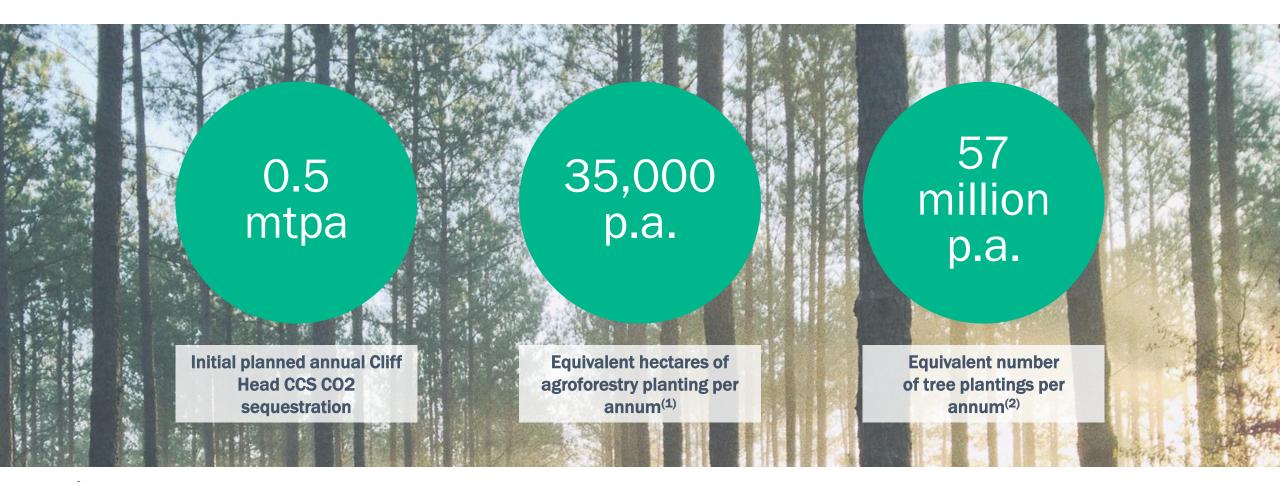


Carbon Dioxide Capture Capacity in million metric tons per year, 2021



Cliff Head CCS impact





Sources

- 1. Source: The FLR Carbon Storage Calculator applies data from the Global Removals Database developed by Winrock International Union for Conservation of Nature (IUCN), later published in Bernal et al. "Global Carbon Dioxide Removal Rates from Forest Landscape Restoration Activities." Carbon Balance and Management, vol. 13, no. 1, 2018, doi:10.1186/s13021-018-0110-8
- 2. Source: average 1,600 trees per hectare (NHS Forest)

Cliff Head CCS Project implementation



Clear staged process to enable CCS

	Storage Reservoir Preparation	Pre-CO2 Injection	CO2 Injection
Operation	Final oil production	Facility Conversion & Installation	CO2 Injection
Objective	Prepare Cliff Head oil field reservoir for CO2 injection	 Prepare Cliff Head wells and infrastructure for CO2 injection Install onshore CO2 receiving facilities 	Commence supercritical CO2 injection at a continuous rate of at least 550,000 tpa for at least 15-years
Timing	CY Q1 2023	Late CY 2024-2025	CY 2026
Duration	36-48 months	6-12 months	20+ years
Permitting	Existing production license	GHG Declaration + CO2 injection license	GHG Declaration + CO2 injection license
Work Activities	 Increase production to up to 60,000 BWPD from existing wells Install additional rental oil/water separation units Install additional 200 kW power unit module on CHA Re-commission water disposal well at ASP 	 Workovers 3 existing water injection wells and 2 production wells Externally reinforce existing pipelines for CO2 operation Construct onshore CO2 receiving facilities No further drilling required to accommodate 550,000 tpa injection rate and 6Mt of CO2 storage 	 Transport supercritical CO2 to CHA via existing onshore/offshore 10" pipelines Inject supercritical CO2 into reservoir through 5 existing wells Deepen two existing wells + drill 1 new well to increase storage capacity to up to 16Mt and injection rate to at least 1.1 mmtpa
Expected Outcomes	Creation of ~6 million tonnes of CO2 storage capacity with expected additional oil production generating significant free cash flow	Completion of a conversion of all offshore and onshore facilities necessary to commence CCS injection operations	Commence continuous CCS injection operations

Blue Hydrogen - the next stage

Pilot Energy

The clean and cost competitive advantage

Blue Hydrogen is only possible with CCS

Lowest cost clean hydrogen option

- Majority of locations, blue hydrogen will be the lowest-cost clean production option¹
- A\$6.00/kg hydrogen is cost competitive with petrol/diesel for transport at A\$1.70/litre

Clean with direct/integrated carbon capture and storage

- Established technologies able to capture in approximately 98% of CO2 produced
- Producing 40,000 tpa of blue hydrogen eliminates 475,000 tpa of CO2 emissions²

Proven and well established, scalable technologies

- 98% of current hydrogen produced through steam reformation (SMR)³
- SMR Hydrogen production has been in commercial use for over 100-years
- Blue hydrogen production has been in commercial operation since 1982

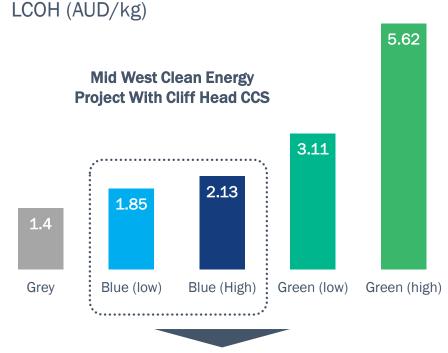
Deliverable now to facilitate the development of clean hydrogen/ammonia supply chain

- Provides a clean, cost competitive energy option
- Facilitates, accelerates transition to green hydrogen using Mid West renewable energy

Sources

- 1. Global CCS Institute Blue Hydrogen Report April 2021. Figure 6 (RHS of slide) taken from the same report.
- CE Delft Feasibility Study into blue hydrogen July 2018 estimates that blue hydrogen production with 95% direct/integrated carbon capture and storage will
 produce 0.64/kg of CO2 process emissions per kg of hydrogen produced resulting in total annual CO2 process emissions of ~25.6 kTonnes of CO2
- 3. Global CCS Institute 2021

Levelized Cost of Hydrogen



Through CCS, Pilot's LCOH is expected to be in the range of A\$1.85 to A\$2.13

Sources: SP Global, Cost, logistics offer "blue" hydrogen market advantages over "green" alternative 19 March 2020 and Pilot Feasibility Study ASX release 28 March 2022

Beyond Hydrogen to clean Ammonia



Ammonia from blue hydrogen is both a low cost and clean energy source and supply vector for hydrogen

Clean Ammonia emerging as a cost competitive replacement for LNG

Established market and supply chain

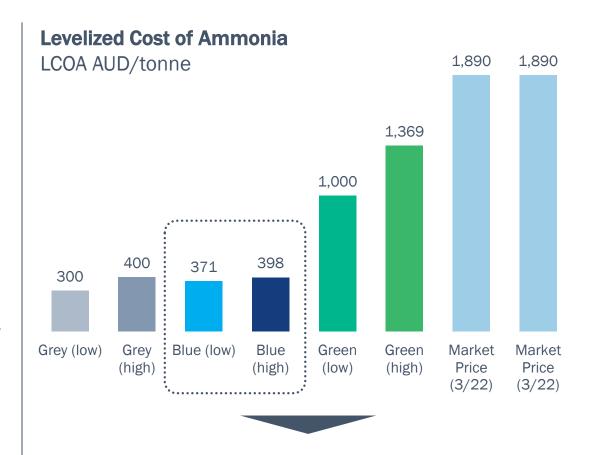
- Essential global commodity
- One of the most demanded industrial chemicals
- Well established, large-scale production and supply chain

Excellent solution for transport and supply of hydrogen

- Excellent "vector" for transport/supply of H2
- Lowest cost form of hydrogen transport and supply
- Easily stored in simple, inexpensive pressure vessels
- Transportation and distribution simpler and cheaper than H2 delivery

Clean CO2-free energy source

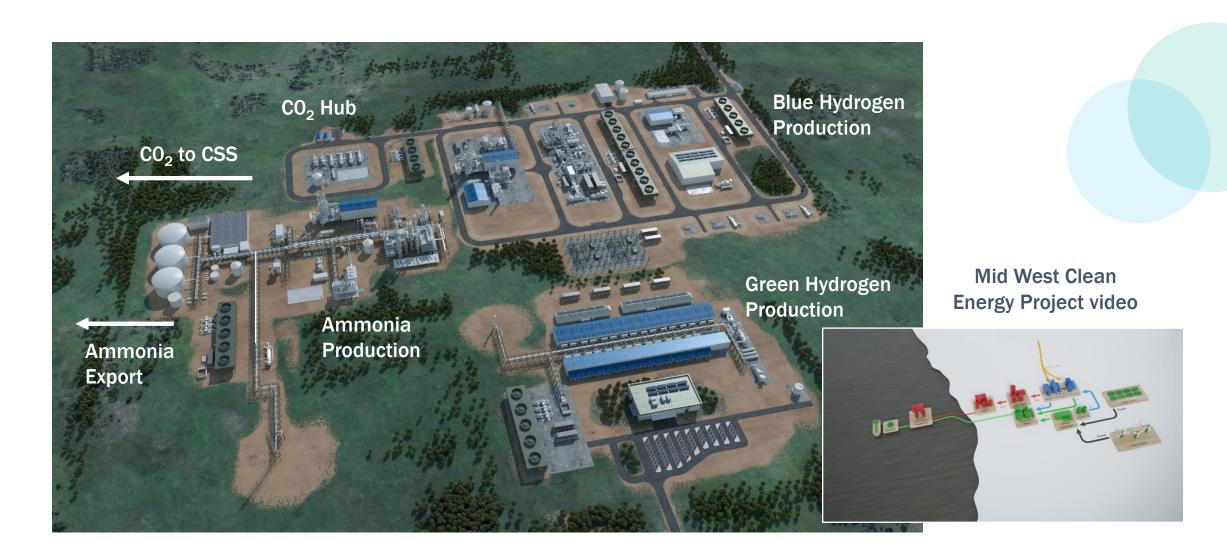
- Proven CO2-free fuel
- Either blue or green H2 can be used produce clean ammonia
- Can significantly reduce CO2 emissions for power generation
- APAC power companies already seeking large clean ammonia supplies to displace coal



Through CCS, Pilot's LCOA is expected to be in the range of A\$370 to A\$400 per tonne

Mid West Clean Energy Project – bringing it all together





Key next steps



Over the next 12-months Pilot (as operator) together with JV Partner Triangle Energy will be focused on the activities to deliver the Cliff Head CCS Project



Corporate

- Analyse & implement feasibility studies
- Commence engagement with prospective CCS project partners



Project implementation

- Permitting Engaging with regulators to secure the necessary regulatory approvals;
- Site Acquisition Completing project site selection and commencing site acquisition;
- Commercial Offtake Engaging with prospective parties for commercial CCS off-take;
- EPCM Contractor Commence engagement with potential EPC contractors; and
- Pre-FEED Commence detailed Front-End Engineering & Design (pre-FEED) and costings for CCS and Blue Hydrogen



Next 12-months aimed at securing all necessary regulatory approvals, securing commercial off-take arrangements and completing a full bankable feasibility study and FEED to enable final investment decision (FID) for the Cliff Head CCS Project.

Corporate overview



ASX Code: PGY

Issued shares 504.4 million

PGY share price ~\$0.02 (10/5/22)

• 12 month range ~\$0.02 to \$0.09

Market Capitalisation ~\$11 million

• 12-month range ~\$10 million to ~\$47 million

Development Pipeline

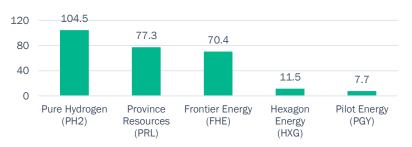
Stage 1 Carbon Management Up to 1.1 million tpa
Stage 2 Clean H2 Production Up to 85,000 tpa
Stage 3 Clean H2 to Clean NH3 Up to 500,000 tpa

PGY Shareholder Analysis Retail holdings 8% Board Management Corporate and Institutional

Share Price



Clean Energy Companies Enterprise Value (\$m)¹



1. Enterprise Value = Market Capitalisation at 30 May 2022 less cash balance as of 31 March 2022. Source: Bloomberg

Proven, experienced Board





Brad Lingo
Executive Chairman

30+ years international senior executive experience
Upstream/midstream energy, energy infrastructure, finance
Proven track record of creating & growing shareholder value









Tony Strasser Managing Director

Extensive oil & gas experience including project and financial management, corporate finance and M&A 25+ years

Proven record in oil & gas with shareholder backing through multiple ventures











Daniel Chen
Non Executive Director

17+ years of international business, project management and leadership experience in large scale transport and logistics

Corporate advisor to private Australian oil & gas companies since 2018



Bruce GordonNon Executive Director

Corporate Finance and Corporate Audit Specialist in the Natural Resources Sector

25+ years acting for, and advising, ASX and International oil and gas companies.

Extensive public company accounting, financial reporting and corporate governance knowledge















Management Team





Cate Friedlander

Company Secretary & General Counsel

Experienced corporate / commercial lawyer in upstream & midstream energy - ASX and international.

Chartered Governance Professional.

Member of Governance Institute of Australia.













Nick Watson

Head of Renewables & Commercial

20 years energy industry experience Corporate/strategic development and operational experience across hydrogen, energy and oil & gas









Mike Lonergan

Head of Upstream

Michael is a petroleum geophysicist with 35 years of domestic and international oil and gas experience across a wide range of E and P assets. He has held senior technical and project management roles during his career, having worked for Delhi Petroleum, Oil Company of Australia, Origin Energy, Rohol-Aufsuchungs Aktiengesellschaft, Mosaic Oil, AGL, Pangaea Resources and Denison Gas.

















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