

Feasibility results drive the economic case

Pilot Energy Ltd (ASX:PGY) is a junior oil and gas exploration company, transitioning towards the new industry paradigm - clean energy. With feasibility studies largely completed the economic case is becoming clearer and the value opportunities tangible. Broad capital and operating assumptions confirm a valid economic pathway with next steps including various regulatory approvals and declarations. The process is well progressed for the blowdown of the remaining Cliff Head oil reserves and conversion to a carbon capture and storage project by 2025...providing a clear and strategic first mover advantage for the delivery of low-cost, clean, blue hydrogen and ammonia for large-scale export. By adding wind and solar power generation opportunities, the company plans to close the loop as an integrated clean energy provider. Whilst the renewables plays remain early stage, the value proposition is crystallising. There is a portfolio of potential, likely worth more than the sum of the parts and the remainder of 2022, in particular, could deliver a material re-rating on the expectation of a success case outcome.

Business model

Pilot Energy is a junior oil and gas company transitioning to a sustainable clean energy play with a portfolio of potential development opportunities. The current strategy is to pursue the transformational growth potential of its renewables and carbon capture options through its Mid-West (and South-West) projects, now in a definition phase, underpinning an integrated clean hydrogen and ammonia generation platform. The company is well positioned to leverage its acreage and infrastructure base to deliver a project with diversified revenue streams. Financing for the initial phase could be provided through the accelerated production of its remaining crude oil reserves and the initial CCS phase. We would also highlight the partnering potential to prove third party capital.

Conceptual to actual is underway

The completion of feasibility studies for the integrated CCS to Hydrogen Technology projects confirms the economic potential of the company's ambitious and potentially transformative development opportunities. Around mid-2022, PGY anticipates lodging an application for the grant of a Greenhouse Gas Injection Licence for 500kt CO₂ pa commencing in 2025, which will represent a major step forward on the development pathway and make PGY an early-mover in the carbon capture and storage space. We would highlight that early mover projects can generate excess returns, particularly in this case where the blow-down of the remaining Cliff Head oil reserves would accelerate cash flow in a strong oil price environment. There is potential for a material de-risking across the portfolio on the delivery of operating approvals on increasing oil production rates over the remainder of CY22. Success cases should also provide the platform for financing and partnering.

Higher definition on projects is crystallising the value outlook

Outlining capex and operating margins even if only broadly adds more grist to our assumptions and lowers the risk range on values, despite the early-phase nature of the projects. We add that early-phase projects are subject to potentially significant change through the evaluation and construction processes so attributing values remains a subjective exercise, particularly when timing and financing are somewhat uncertain. We assign a risked valuation of \$134mn (**26cps**) to the portfolio against a reference share price of 2.0cps. Material progress on blowing-down the oil reserves and CCS approvals should further derisk and underpin our NAV over 2022. Our current value should be considered within that context and with the commensurate risk overlay.

Operational Update

Renewable Energy

8th June 2022

Share Details	
ASX code	PGY
Share price (7-Jun)	\$0.02
Market capitalisation	\$10.1M
Shares on issue	504.4M
Net cash at 31-Mar-2022	\$3M
Free float	~51.4%

Share Performance (12 months)



Upside Case

- Delivery of required approvals and declarations underpinning the carbon capture options and de-risking the commercial case for the South-West projects.
- Continuing rises in commodity prices (oil).
- Above expectation production rates at Cliff Head driving strong net operating cashflows.

Downside Case

- Delays in the approvals processes slowing progress on CCS and renewable energy development options.
- Weaker oil cash flows resulting in potentially dilutive equity financing requirements.
- Commodity (oil) prices retrace pre-pandemic levels.

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A Step Further Down The Development Path

With the completion of significant proportions of the Mid-west feasibility studies, PGY is moving a big step closer to converting concept to reality. The transition to the end game, the production of clean hydrogen (and eventually clean and green ammonia) is clearly underway and making progress.

Initial results include broad costings/operating assumptions (refer Exhibit 2) which support the economic case and highlight the transformational opportunity. We are now in a position to rebase the NAV on tangibles guidance, particularly as the Stage 1 could be delivered comparatively rapidly.

The integrated project strategy is looking more like a realistic outcome rather than simply conceptual with material progress likely over next 12 months across all aspects of the project – CCS to renewables to hydrogen (H_2) and eventually ammonia (NH_3) .

We caution that it is still all early-stage and at the higher end of the risk spectrum, but with important derisking and re-rating opportunities to come.

The feasibility studies for the Mid-west integrated Renewable Energy project included -

Exhibit 1: Status of individual feasibility studies - full completion is expected by mid-2022

8 Rivers Blue Hydrogen technology		Completed				
Mid-west renewables		Completed				
CH oil and CCS projects	57.5% - with Operatorship	42.5% - retained as Technical Operator				
Upon completion of milestones	PGY Interests	TEG Interests.				
	As announced on 26-Apr, PGY and Triangle Energy (on a restructure of working interests for the CH oil JV	TEG.ASX) announced they had reached a binding agreement and CCS project.				
WA-481P CCS	First stage completed which includes – "an assessment of the CO2 storage potential of the permit (PGY 100%) with estimates of the Contingent and Prospective storage capacity".					
	A resource assessment of the CO2 storage	potential of the Cliff Head field (WA-31L licence) has been finalised.				
	This is jointly funded by PGY,	APA Group (APA.ASX) and Warrego Energy (WGO.ASX).				
Mid-west CCS and Blue H2	Completed, assessing the "implementation of	of a CCS and Blue H2 project centred on the Cliff Head Oil Field".				
Study						

We note the company is currently undertaking a separate study on its South-west CCS project.

Exhibit 2: Feasibility Study results summary...the operating margins look robust on these assumptions



Source: Company data



The critical first step is to close the project loop by progressing the CCS component of the integrated project and that initially requires an application to NOPTA for "...the declaration of a greenhouse gas storage formation under the Offshore Petroleum and Greenhouse Storage Act (2006)".

The Cliff Oil Field is the only existing petroleum production operation in federal waters between the NW Shelf and the South Australian-Victorian Border and by definition the only operation at present with the capacity to convert converting into a viable CCS project under specific federal regulatory guidelines.

The declaration would essentially represent a formal approval and recognition that the reservoirs currently being exploited for Cliff Head oil production have the design integrity to act as a long-term CO₂ storage unit.

Upon receipt of the declaration, the CH CCS project would be an early mover development in the capture and storage space...early mover projects can generate excess returns.

In an ASX announcement dated 19-May, management indicated it has formally commenced the application and approvals processes; and is undertaking project financing and partnering arrangements.

As indicated by the company, the key near term milestones associated with the CCS development will be the granting of the Cliff Head CCS Greenhouse Gas Injection Licence by the relevant regulators and the CH-CCS Final Investment Decision both anticipated to occur by late 2023.

It's Now About Unlocking The Value Inherent In The Assets

With broad financial assumptions we can ascribe a more tangible value to the PGY base E&P business and clean energy opportunities.

We value the Cliff Head oil project using company guidance on capex, production rates and reserves adjusted for our discretionary probability weighting (1-risk %). Our probability weighting is subject to change as the company progresses the accelerated production strategy as a precursor to the CCS phase. While crude oil prices are strong, the forward curves suggest there is downside risk versus current spot rates.

We model the CCS and first phase of hydrogen production based on company guidance, adjusted and overlain by a RaaS risk outlook reflecting our views of the technical and commercial uncertainties associated with delivering the projects as modelled. We apply resultant unit metrics for the potential expansion cases, also probability weighted.

		Pr	A\$mn	A\$/share	
Cliff Head CCS	57.5%	75%	\$51	\$0.10	Risk weighted against operating margin guidance and estimates
Mid-West Wind & Solar	100%	25%	\$23	\$0.05	Risked weighted against guidance
Mid-West Hydrogen	100%	25%	\$19	\$0.04	
South-West Project	50%	5%	\$11	\$0.02	excludes attribution to the Tcf scale Leschenault gas prospect as high risk exploration
Cliff Head Oil & Exploration	57.5%		\$30	\$0.07	Based on forward curve oil price and exchange rate assumptions (1-Apr); and production guidance
		-	\$134	\$0.27	
Cash			\$2		At 31-Mar
Corporate			(\$3)		
TOTAL			\$134	\$0.26	Rounding adjustments
Shares issued (mn)	504				

Exhibit 3: PGY NAV - quant makes a difference...supporting higher confidence levels

Source: RaaS analysis; Risked values based on look through probabilities of success (POS) for drilling and weighted by a RaaS risk overlay. Weightings at RaaS' discretion.

We would highlight the risked value attributable to the Cliff Head oil play of 7cps on a stand-alone basis against the reference share price (2.0cps 7-Jun) where success on the accelerated production strategy can deliver operational and capital support for the CCS project.

The immediate commercial opportunities associated with the oil and CCS projects is transformational to the current share price on an ex-clean energy basis.



The Cliff Head Story - From Oil Production To Carbon Storage.

Management has a clearly defined three stage process, underpinning the conversion of the current Cliff Head oil production project into a carbon storage facility.

Exhibit 4: A three stage pathway to deliver CCS

	Storage Reservoir Preparation	Pre-CO ₂ Injection	CO ₂ Injection
Operation	Final oil production	Facility Conversion & Installation	CO ₂ Injection
Objective	Prepare Cliff Head oil field reservoir for CO_2 injection	 Prepare Cliff Head wells for CO₂ injection Install onshore CO₂ aggregation/receiving facilities 	Commence supercritical $\rm CO_2$ injection at a continuous rate of at least 500,000 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 + CO ₂ injection license	GHG Declaration + CO ₂ injection license
Work Activities	 Increase production to up to 70,000 BWPD from existing wells Install additional rental oil/water separation units Install additional 200 kW power unit module on CHA 	 Workovers 3 existing water injection wells and 2 production wells Externally reinforce existing pipelines for CO₂ operation Construct onshore CO₂ aggregation, transport and receiving facilities 	 Transport supercritical CO₂ to CHA via existing onshore/offshore 10" pipelines Inject supercritical CO₂ into reservoir through 5 existing wells Deepen remaining existing wells + drill 1 new well to increase storage capacity to up to 16Mt
	Re-commission water disposal well at ASP	 No further drilling required to accommodate 500,000 tpa injection rate and 6Mt of CO2 storage 	and injection rate to at least 1 mmtpa
Expected Outcomes	Creation of 6+ million tonnes of CO ₂ 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

Source: Company data

The process for moving Cliff Head into an 'infrastructure' phase would necessitate accelerated production of the remaining crude oil reserves providing a 'windfall gain' per se versus the natural late-life production of the field – the pre-CO₂ injection phase.

Management has identified a window to maximise crude oil output before the projected start-up of CCS operations from 2025.

Cliff Head will deliver more than just storage - the oil play

Gross reported reserves at Cliff Head are estimated at ~1Mb (31-Mar) with current production rates somewhat constrained by the fluid handling capacity of the Arrowsmith plant, which stands at ~30kbpd - as the water cut increases, the net oil recovery must by definition reduce, particularly as the field is undergoing secondary recovery through water injection.

Through 2Q22, CH was producing ~13kbd of total fluid with net crude oil of 648bpd (gross).

Contingent Resources (Mb)	1C	2C	30
WA-31L	0.341	1.033	1.555
WA-481P	3.3	6.0	9.8
Contingent Resources (Bcf)	10	2U	3U
WA-481P	29.4	41.6	58.9

Exhibit 5: CH adjusted (estimated) reserves (100% basis)*

Source: Company data; * After allowing for gross production of 0.247Mb for period 01/04/21 to 31/03/22

A critical component of the accelerated recovery strategy is to address the fluid handling bottle-neck and increase the throughput to some 60-70kbd via the installation of an additional 30-40kbd of oil water separation units (refer Exhibit 4).

We understand the existing wells are capable of producing ~120kbd...so no new well work will be required but the platform will require the power supply to be upgraded for extraction/injection in both the drawdown and CCS phases. Note that it takes more energy to inject than to withdraw - *if drawing fluid at higher rates, then pressure support will require at least a 1:1 reinjection we suggest.*

Produced water will be disposed of through injection via the existing water disposal well that is licensed for such use in the Arrowsmith Onshore Production Facility, but management has indicated there may also be the opportunity to sell produced water to the Mid-West Water Corporation given the project proximity to high-intensity wheatbelt farming operations.



We understand the power module and separation units are likely to be sourced on a rental basis. The additional equipment is likely only to be required for the first 24-months of the blow-down.

With the impending closure of the Kwinana refinery, the JV has (mostly) concluded a new path to market using the facilities at the Arrowsmith Stabilisation Plant for accumulation and storage, with trucking through to Geraldton and shipping to BP Singapore Pte Limited.

The new path will require the upgrading and refurbishment of existing tank storage, for a capacity of ~30kb and at an estimated gross cost of A\$2.5mn.

We note that the CH JV anticipates the crude inventory at Kwinana around end-April at ~140kb, with receipts deliverable in June. Assuming a sale price of US\$100/b, this would deliver some US\$14mn in gross revenue to the JV (noted as c.US\$3-4mn net to PGY under pre-restructure interests).

The blow-down of the remaining reserves is expected to take around 36-48 months on the assumption that the field is fully depleted in a practical sense completes before commencing the CO_2 injection phase. Management has indicated though, that it would be possible to undertake both activities concurrently, as is standard practice in enhanced recovery projects. As such our modelling assumptions should be considered as a base case.

Although it remains a projection at this stage, Pilot's CCS subsurface technical consultant CO2Tech, has estimated the oil recovery phase will operate with an oil production cut of not less than approximately 5%.

Broad guidance suggests -

- Crude recovery of around 1.4Mb;
- an initial production rate of 2,000bd; and
- an annual average production rate over the first 24-months of ~1,250bd.

Importantly the pre-injection phase <u>cab be executed under the terms of the current production licence</u>, <u>requiring only an updating of the Cliff Head Oil Field production plan with NOPTA</u>.

At oil prices of ~US\$100/b, management guidance suggests Cliff Head could potentially generate ~A\$174mn in new oil sales and under the new oil sales arrangements generate ~A\$18mn pa of free cash flow to PGY after covering all operating costs, taxes, royalties and oil sales costs - net to PGY over the first 24-months of ~A\$36mn on a 57.5% working interest basis.

We have calibrated our modelling under the company assumptions and applied RaaS commodity prices based on the forward curves as at 1-Apr.

Exhibit 6: Forward curve assumption show oil price backwardation							
	FY23	FY24	FY25	FY26			
Brent Oil (US\$/b)	93.14	85.44	80.27	77.15			
AUD:USD	0.7503	0.7491	0.7396	0.7303			

Source: investing.com (as of 1-Apr)

Using lower oil price assumptions, we calculate net cashflow to PGY over the 24 months to end FY24 to be ~A\$27mn and gross revenue of ~A\$152mn...the economic case remains compelling.

We highlight the risk to both the RaaS and management assumptions from forward curves in backwardation and oil price volatility, which has increased significantly since the beginning of the Ukraine crisis. Oil prices are likely to be subject to potential significant change over the forecast period.





Exhibit 7: Assets and infrastructure – proximity lowers capex and drives higher margins

Source: Company data



Cliff Head Carbon Capture & Storage (CH-CCS) - PGY Holds A Strategic First Mover Advantage.

The Cliff Head Oil Field is located in Commonwealth Waters under federal jurisdiction. Unlike WA regulations where there is no legislation currently in place enabling carbon capture and storage, under federal mandates there is an established regulatory pathway for converting late-stage oil production operations into a long-term, medium scale CCS operation.

As previously highlighted but worth repeating, the Cliff Head Oil Field is the only existing petroleum production operation in federal waters between the NW Shelf and the South Australian-Victorian border and by definition is the only operation at present with the capacity to convert into a viable CCS project

The feasibility study has already determined that Cliff Head with its associated wells and infrastructure are suitable for a CCS project.

Analysis of WA-481P and WA-31L confirm the permits hold storage potential of 10.8Mt at 2C with a best estimate (2U) prospective potential of 80.4Mt on a 100% basis, within the reservoirs currently being exploited for oil production.

Contingent Storage Resource (Mt)	10	2C	3C
WA-481P	2.8	4.4	7.2
WA-31L	1.0	6.4	15.8
	3.8	10.8	23.0
Prospective Storage Resource (Mt)	1U	2U	3U
WA-481P	46.2	80.4	144.2

Exhibit 8: Storage resources based on existing oil reservoirs should be low risk

Source: CO2Tech – principal feasibility consultant for CCS

The CH-CCS Project is forecast to inject at a flat annual rate of 500kt pa for 13 years (which aligns with the 2C storage potential of the Cliff Head field (WA-31L) on a stand-alone basis.

The company highlights Reputex forecasts for Australian Carbon Capture units (ACCUs) in 2025-2026 in the range of A\$40/t (Central Case) to A\$53/t (High Case) growing to A\$61/t (Central Case) to A\$106/t (High Case) by 2030. Extrapolating, based on these price estimates projects that the CH-CCS Project could generate revenue of A\$20-26.5mn growing to A\$30.5-53mn on an annual basis.

Exhibit 9: ACCU forecast to 2031 demonstrating the range of potential outcomes



Source: Reputex data

We note that these estimates bear the same error margins as any commodity forecasts, but in the absence of alternate views and a transparent market, appear reasonable on an initial basis.

As we understand it, the business model for the CH-CCS Project includes a revenue stream in two parts -

- Fixed Storage Fee a per tonne charge calculated we assume, on a required return on capital, on a similar structure to 'disposal' infrastructure; and an
- ACCU Fee: linked to market value of carbon credits.



Initially the ACCUs would reside with the third party sequestering the CO_2 , although with PGY looking to manufacture **blue** H₂, predicated on a natural gas feed, at some point the company will also generate credit units in its own right. The split revenue stream provides PGY with a natural hedge against the potential volatility of ACCUs whilst retaining the capacity to benefit from the forecast upside in unit pricing.

High-level modelling on the cost guidance provided suggests a project breakeven ACCU price of ~ \$30/t.

It's worthwhile considering the implications and potential impacts of the recent change in Federal Government on demand and pricing of ACCUs.

We note the bounce in the price of ACCUs immediately after the election result, reported as being around 18%, on the expectation of tighter emissions rules to come. The closing price on 23-May was \$35.50/t.

Analysing the implications, Reputex suggested it was far from certain demand for ACCUs would grow significantly with –

"...the local market facing a number of challenges that could impact medium-term price development", including the development of alternate (industrial) carbon-credit mechanisms and an anticipated surplus of ACCUs from recent projects.

https://www.reputex.com/research-insights/insights-election-2022-market-impacts-and-where-to-next-forthe-alps-safeguard-mechanism

Although the political environment for setting somewhat more aggressive carbon reduction targets is now in place, the economics (in terms of unit prices) remains unclear but likely to be see risk to the upside, we think.

The look-through from guidance indicates the capex to start-up of the CH-CCS Project injection phase could be low with the project only requiring five of the existing eight Cliff Head wells to deliver the projected 500kt pa target. The project capex would be allocated against well work-overs (for example, removing any down hole pumps) and compression (for injection). We estimate capex may only be in the order of \$20-30mn but note this remains to be confirmed as the final cost and engineering analysis continues.

As the production rate from the field drops from the expected peak (60-70kbd total fluid), individual wells would be worked over and reset for CO_2 injection. These costs would be sequenced and staggered with the capex considered to be incremental compared to the cost of drilling new wells. Modelling and guidance have well workovers commencing in say, late 2024 and most likely to be funded out of the crude oil cash flow (naturally dependent on realised oil prices over the period).

Working guidance points to a CCS injection cost below A\$20/t, which would deliver very strong operating margins based on the ACCU indicated prices.

Using these estimates to represent a base-case, we note the project would have intrinsic expansion potential based on the well redundancy and storage capacity upside (Exhibit 8).

The WA-31L license area covering the Cliff Head Oil Field has CCS potential beyond the 500kt pa injection rate currently supported by the 2C volumetrics. Management has indicated that the injection rate could be increased up to >1,000kt pa by proving the 3C potential of 15.8Mt by accessing additional capacity in the deeper High Cliff Sandstone Formation underlying the oil field.

Drilling of an additional well could be accommodated from the available slots on the Cliff Head A Platform.

This 'growth option' could generate annual revenue of A\$40mn (1Mt pa @ A\$40/t), a doubling of the base case up to A\$106mn pa on the high case by 2030.

On a broad outlook, we suggest the Cliff Head oil to CCS pathway is a realistic opportunity, that certainly in the current oil price environment could be largely self-funding or requiring only low equity contributions from a capex perspective.



Clean Energy – Hydrogen And Renewables

We have focussed most directly on the oil enhancement and CCS aspects of the integrated strategy, specifically as they are the foundation point for all options that follow. Without the delivery of these projects, the generation of clean energy (blue into green hydrogen and ammonia) becomes more speculative and ill defined. On that basis, we carry a heavily risk weighted attribution within our valuation and highlight that as the oil and CCS aspects progress, the risk factors across the integrated strategy will unwind.

We have outlined the cases for renewable energy and hydrogen manufacture previously, particularly in our scoping and update reports (14/12/20 and 3/11/21) and the premise has not materially changed.

We refresh our commentary -

The Mid-West Clean Energy Project provides -

- A material exposure to world class wind and solar energy resources, along the coastal mid-west of WA, acknowledged as "...one of the highest rated renewable energy regions" by Geoscience Australia;
- The leverage provided by surrounding infrastructure comprising an extensive integrated power grid (330kV transmission lines), access to the Dampier-Bunbury and Parmelia gas pipelines with established port, rail and road systems; and
- The capacity to leverage existing offshore oil and gas infrastructure and production

...delivering a '...clear hydrogen development pathway'.

The establishment and integration of a hydrogen production plant initially utilising the natural gas resources within the hub (blue hydrogen as a precursor to green) provides multiple ways to market and multiple revenue streams.

These revenue streams now also include the potential for the manufacture of green ammonia.

Exhibit 10: Pathway to clean energy – a three stage path from CCS and to green ammonia



Source: Company data

There have been numerous published evaluations over 2021 focussing on the growth potential of a global hydrogen market as the natural pathway of the transition away from fossil fuel-based energy generation.

We don't propose analysing or debating the basic premise...the transition is underway. However, we would highlight that the timing and costs associated with establishing a global hydrogen market remain uncertain, particularly in the current economic operating environment.



The establishment of green energy as the end game is broadly acknowledged. We see the soundest and most optimal way to get there as starting with **blue** H_2 as the foundation point for green H_2 (and NH_3) production (Exhibit 10).

The projects that can leverage existing infrastructure via gas pipeline and supply, with carbon storage can reduce the initial costs of a transition to hydrogen...this is the Pilot Energy model.

The completed studies are based on the 8 Rivers Clean Power & Hydrogen Technology and point to the potential to deliver a levelised cost of hydrogen (LCOH) of around ~\$2/kg.

Determining how cost competitive that price will be is difficult at this stage as the world is transitioning towards cleaner energy sources and the demand supply dynamics over the medium-to-long term are very uncertain.

We append commentary from *chemanalyst.com* on the APAC market for the quarter ended Dec-2021, as a current guide:

"The price of hydrogen was accelerating in the Asian market during 4Q21 owing to intensified natural gas prices. Nat gas price hikes eventually lead to higher upstream production costs, compounded by trade restrictions and higher freight charges. Increased demand also supported the upward trend in prices which were calculated at US\$4.72/kg (ex-Mumbai) in the Indian market by the end of the quarter."

We note commentary from Wood Mackenzie study (7/12/21) suggesting "...many countries will be able to produce green hydrogen below $\frac{2}{kg}$ ", noting this estimate is dependent on a reduction in the price of electolysers by 35-50% by 2025.

We have noted that in the set of market studies published through 2021, the consensus assumptions indicate that the production costs of green H_2 are forecast to trend down at a possibly accelerated rate compared to early IEA (International Energy Agency) modelling (a US\$1.50/kg price by 2030) would suggest.

As alluded to previously, we must now consider all of these projections with reference to how the operating environment has changed in the 12-15months since many of these studies were published:

- Raw material costs have risen;
- Energy (especially natural gas prices for blue H₂) are significantly higher;
- Inflation is rampant;
- Supply chains remain constrained;
- Central governments have accrued massive national debts likely leading less spending on subsidies, grants and infrastructure support; and
- Supportive legislation is still lacking in many countries (noting the issues with regulatory approvals in Australia)

We are not in a position to assess how deliverable this quantum cost reduction is or the risk range around these assumptions, however, **delivering a LCOH of ~\$2/kg should be strongly cost competitive in our opinion.**

The company has set ambitious targets for project delivery:

- CCS by 2025,
- CCS to blue H₂ (2025-2027),
- H₂ expansion to green ammonia (2027-2030)

...so, benchmarking on progress will be clear and evident, providing significant de-risking/rerating events particularly over the next 12-18months.



Exhibit 10: Financial Summary

PILOT ENERG	Y	PGY				nm = not meaningful					
YEAR END		SEP				na = not applicable					
NAV	AŞ	\$0.26									
SHARE PRICE	AŞ	\$0.02	cot	/-Jun							
	M	504									
OPTIONS	M	88	Unlisted	exercisea	ble at \$0.0	33-0.066					
		EV204	EV21A	EVADE	EVADE	PRODUCTION		EV20A	EV21A	EVADE	EVADE
Brent Oil Price	LISS /b	40.68	42.16	5/ 69	95 50	Cliff Head Oil	kb	FYZUA	FY21A 66	FYZZE 62	FYZ3E 63
Exchange rate	03970	0.7226	0.7170	0.7339	0.7518	Cill Head Oil	ND		00		05
Hedged Oil Price	A\$/b					TOTAL	kb		66	62	63
Realised Gas Price	A\$/gj					Sales Volumes					
Realised Oil Price	A\$/b	56.30	58.79	74.52	127.15						
RATIO ANALYSIS		FY20A	FY21A	FY22E	FY23E	Product Revenue	A\$mn				
Shares Outstanding	M	106	502	504	504	Ave Price Realised	A\$/boe				
EPS (pre sig items)	Acps	(0.8)	(0.6)	(0.2)	(0.2)	Cash Margin	A\$/boe				
PFR (pre sig items)	/ Acps	(0.0) na	(0.0) nm	(0.2) nm	(0.2) nm	RESERVES & RESOURC	FS		as of	30/05/2021	
OCFPS	Acps	na	(0.6)	(0.2)	(0.1)	Reserves		Oil		00/00/2021	
CFR	×	nm	na	na	na	Mb	2P	1C	2C	3C	
DPS	Acps					Cliff Head	0.3				
Dividend Yield	%					SE Nose		0.1	0.2	0.3	
BVPS	Acps	0.2	2.4	2.4	2.2	West High			0.2	0.4	
Price/Book	X	30.0x	0.8x	0.8×	0.9x	Uther Prospects	0.2	0 1	0.4	07	
ROA	70 %	/9%	na	na	na	Prospective Resources	U.3	U.1	U. Ó	0.7	
(Trailing) Debt/Cas	h x	па	IId	IId	IId	Mh		Low	Best	High	
Interest Cover	x					Mentelle Updip			1.2		
Gross Profit/share	Acps	na	na	na	na	Other			0.8		
EBITDAX	A\$M	356	313	863	1,238						
EBITDAX Ratio	%					TOTAL			1.9		
EARNINGS	A\$000s	FY20A	FY21A	FY22E	FY23E	EQUITY VALUATION	-	_			
Revenue		(500)	(2.255)	(1.071)	(1.042)	Baaawahlaa aad Caabaa (Interest	Pr	AŞM	Acps	
Gross Profit		(569)	(3,256)	(1,971)	(1,945)	CHICCS	58%	75%	¢51	\$0.10	
Other revenue		356	313	863	1.238	Mid-West Wind & Solar	100%	25%	\$23	\$0.05	
Other income						Mid-West Hydrogen	100%	25%	\$19	\$0.04	
Exploration written	off	(669)	0	(50)	(50)	South-West Project	50%	5%	\$11	\$0.02	
Finance costs						O&G Upstream					
Impairment						Cliff Head	58%	100%	\$22	\$0.04	
Other expenses		(0)	(2.042)	(25)	(100)	Other Discoveries	58%	25%	\$4 ¢4	\$0.01	
Profit hoforo tax		(882)	(2,943)	(1,183)	(855)	Exploration			\$4	\$0.01	
Taxes		0000	(2,343)	(1,150)	(050)	Net Cash/(debt)			\$2	\$0.00	
NPAT Reported		(889)	(2,943)	(1,156)	(838)	Corporate costs			-\$3	-\$0.01	
Underlying Adjustm	nents										P/NAV
NPAT Underlying	[(889)	(2,943)	(1,156)	(838)	TOTAL			\$134	\$0.26	0.08
	-										
CASHFLOW	A\$000s			·		Cash Producing Assets	•			Ş0.04	
Operational Cash	1,00003	FY20A	FY21A	FY22E	FY23E	Cash Producing Assets	•			\$0.04	
ivet interest	h Flow	FY20A 114	FY21A (3,184)	FY22E (1,088)	FY23E (685)	Cash Producing Assets	•			\$0.04	
Tayos Paid	h Flow	FY20A 114 0	FY21A (3,184) (5)	FY22E (1,088) 27	FY23E (685) 17	Cash Producing Assets	•			\$0.04	
Taxes Paid Other	h Flow	FY20A 114 0	FY21A (3,184) (5)	FY22E (1,088) 27	FY23E (685) 17	Cash Producing Assets	Oth	er, \$0.02		\$0.04	
Taxes Paid Other Net Operating Ca	h Flow ashflow	FY20A 114 0 114	FY21A (3,184) (5) (3,189)	FY22E (1,088) 27 (1,061)	FY23E (685) 17 (668)	Cash Producing Assets	oth	er, \$0.02 <mark>N</mark> e	t cash, -\$0.0	\$0.04	
Taxes Paid Other Net Operating Ca Exploration/Develo	ashflow	FY20A 114 0 114 (338)	FY21A (3,184) (5) (3,189) (915)	FY22E (1,088) 27 (1,061) (250)	FY23E (685) 17 (668) (500)	Cash Producing Assets	Oth	er, \$0.02 _{Ne}	t cash, -\$0.0	\$0.04 20	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex	ashflow	FY20A 114 0 114 (338)	FY21A (3,184) (5) (3,189) (915) 0	FY22E (1,088) 27 (1,061) (250) (215)	FY23E (685) 17 (668) (500) (215)	Cash Producing Assets	Oth	er, \$0.02 _{Ne}	t cash, -\$0.0	\$0.04	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments	ashflow	FY20A 114 0 114 (338)	FY21A (3,184) (5) (3,189) (915) 0	FY22E (1,088) 27 (1,061) (250) (215)	FY23E (685) 17 (6688) (500) (215)	Cash Producing Assets	Oth	er, \$0.02 Ne	t cash, -\$0.0	\$0.04	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth	ashflow pment	FY20A 114 0 114 (338)	FY21A (3,184) (5) (3,189) (915) 0	FY22E (1,088) 27 (1,061) (250) (215)	FY23E (685) 17 (6668) (500) (215)	Cash Producing Assets	Oth Cliff Head	er, \$0.02 _{Ne}	t cash, -\$0.1	\$0.04 00	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca:	ashflow ppment er shflow	FY20A 114 0 (338) (338)	FY21A (3,184) (5) (3,189) (915) 0 (915) (915)	FY22E (1,088) 27 (1,061) (250) (215) (465)	FY23E (685) 17 (668) (500) (215) (715)	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 _{Ne}	t cash, -\$0.1	<u>\$0.04</u>	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca Dividends Paid	ashflow ppment er shflow	FY20A 114 0 114 (338) (338) (338)	FY21A (3,184) (5) (3,189) (915) 0 (915)	FY22E (1,088) 27 (1,061) (250) (215) (465)	FY23E (685) 17 (668) (500) (215) (715)	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 _{Ne}	t cash, -\$0.	<u>\$0.04</u>	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca Dividends Paid Net Debt Drawdow Equity Issues/(Buch	n n n n n n n n n n n n n n n n n n n	FY20A 114 0 114 (338) (338) (338) 0 100	FY21A (3,184) (5) (3,189) (915) 0 (915) (915)	FY22E (1,088) 27 (1,061) (250) (215) (465)	FY23E (685) 17 (668) (500) (215) (715)	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 _{Ne}	t cash, -\$0.	50.04	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca Dividends Paid Net Debt Drawdowi Equity Issues/(Buyb Other	n h Flow ashflow hpment her shflow n hack)	F720A 114 0 114 (338) (338) (338) 0 100	FY21A (3,184) (5) (3,189) (915) 0 (915) (915) 10,295	FY22E (1,088) 27 (1,061) (250) (215) (465)	FY23E (685) 17 (668) (500) (215) (715)	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 Ne	t cash, -\$0.1	00	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca	n ashflow ashflow n shflow n ask) ashflow	FY20A 114 0 114 (338) (338) 0 100 143	FY21A (3,184) (5) (3,189) (915) 0 (915) 0 (915) 10,295 9,611	FY22E (1,088) 27 (1,061) (250) (215) (215) (465)	FY23E (685) 17 (668) (500) (215) (715) (715)	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 _{Ne}	t cash, -\$0.(00	
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca Net Change in Ca	ashflow ppment shflow n nack) ashflow ash	FY20A 114 0 114 (338) (338) 0 100 143 (81)	FY21A (3,184) (5) (3,189) (915) 0 (915) 0 (915) 10,295 9,611 5,448	FY22E (1,088) 27 (1,061) (250) (215) (465) 	FY23E (685) 17 (668) (500) (215) (715) (715) 0 (2,133)	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 Ne	t cash, -\$0.	00	
Taxes Paid Other Net Operating Cz Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca: Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca Net Change in Cz BALANCE SHEET	n ashflow ppment er shflow n ack) ashflow ash	FY20A 114 0 114 (338) (338) 0 100 143 (81) FY20A	FY21A (3,184) (5) (3,189) (915) 0 (915) 10,295 9,611 5,448 FY21A	FY22E (1,088) 27 (1,061) (250) (215) (465) (465) (2,076) FY22E	FY23E (685) 17 (668) (500) (215) (715) (715) 0 (2,133) FY23E	Cash Producing Assets	Cliff Head, \$0.04 th-West ct, \$0.02	er, \$0.02 <mark>Ne</mark>	t cash, -\$0.	00	
Taxes Paid Other Net Operating Cz Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Ca: Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca Net Change in Ca BALANCE SHEET Cash & Equivalents	n ashflow ppment shflow n ashflow ashflow ash	F720A 114 0 114 (338) (338) 0 100 143 (81) F720A 7	FY21A (3,184) (5) (3,189) (915) 0 (915) 10,295 9,611 5,448 FY21A 5,455	FY22E (1,088) 27 (1,061) (250) (215) (465) (465) (2,076) FY22E 3,379	FY23E (685) 17 (500) (215) (715) (715) (715) 0 (2,133) FY23E 1,246	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 Ne	t cash, -\$0.	50.04 00 CH CCS, \$	0.10
Taxes Paid Other Net Operating Cz Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Cas Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca Net Change in Ca BALANCE SHEET Cash & Equivalents PP&E & Dev-Expl	n ashflow ppment shflow n ack) ashflow ash A\$000s	F720A 114 0 114 (338) (338) 0 100 143 (81) F720A 7 75 0	FY21A (3,184) (5) (3,189) (915) 0 (915) 10,295 9,611 5,448 FY21A 5,455 3	FY22E (1,088) 27 (1,061) (250) (215) (215) (465) (2,076) FY22E 3,379 2,050	FY23E (685) 17 (500) (215) (715) (715) (715) (2133) FY23E 1,246 3,082 4,655	Cash Producing Assets	Cliff Head, \$0.04	er, \$0.02 Ne	t cash, -\$0.	50.04 00 CH CCS, \$	0.10
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Cas Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca Net Change in Ca BALANCE SHEET Cash & Equivalents PP&E & Dev-Expl Investments Total Aecostr	n ashflow ppment er shflow n nack) ashflow ashflow A\$000s	FY20A 114 0 114 (338) (338) (338) 0 100 143 (81) FY20A 7 75 0 160	FY21A (3,184) (5) (915) 0 (915) 10,295 9,611 5,448 FY21A 5,455 3 212	FY22E (1,088) 27 (1,061) (250) (215) (465) (465) (2,076) FY22E 3,379 2,050 4,650	FY23E (685) 17 (500) (215) (715) (715) (715) (715) (715) (715) (715) (715) (715) (715) (715)	Cash Producing Assets	Cliff Head, \$0.04 th West ct, \$0.02	er, \$0.02 Ne	t cash, -\$0.	50.04 00 CH CCS, \$	0.10
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Cas Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca Net Change in Ca BALANCE SHEET Cash & Equivalents PP&E & Dev-Expl Investments Total Assets Debt	n ashflow ppment er shflow n nack) ashflow ashflow ashflow	FY20A 114 0 114 (338) (338) (338) 0 100 143 (81) FY20A 7 75 0 159	FY21A (3,184) (5) (915) 0 (915) 10,295 9,611 5,448 FY21A 5,455 3 212 11,993	FY22E (1,088) 27 (1,061) (250) (215) (465) (465) (2,076) FY22E 3,379 2,050 4,650 12,073	FY23E (685) 17 (500) (215) (715) (715) (715) FY23E 1,246 3,082 4,650 10,895	Sout Proje Mid-West Hydro \$0.04	Cliff Head, \$0.04 th West ct, \$0.02	er, \$0.02 Ne	t cash, -\$0.	50.04 00 CH CCS, \$ st Wind &	0.10
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Cas Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca Net Change in Ca BALANCE SHEET Cash & Equivalents PP&E & Dev-Expl Investments Total Assets Debt Total Liabilities	n ashflow ppment er shflow n eack) ashflow ashflow ashflow	FY20A 114 0 114 (338) (338) (338) 0 100 143 (81) FY20A 7 75 0 159 1.280	FY21A (3,184) (5) (915) 0 (915) 10,295 9,611 5,455 5,455 3 212 11,993 920	FY22E (1,088) 27 (1,061) (250) (215) (465) (465) (2,076) FY22E 3,379 2,050 4,650 12,073 390	FY23E (685) 17 (500) (215) (715) (715) (715) FY23E 1,246 3,082 4,650 10,895 250	Sout Proje Mid-West Hydro \$0.04	Cliff Head, \$0.04 th-West ct, \$0.02	er, \$0.02 Ne	t cash, -\$0.	\$0.04 00 CH CCS, \$ st Wind & \$0.05	0.10 Solar,
Taxes Paid Other Net Operating Ca Exploration/Develo Capex Investments Net Asset Sales/oth Net Investing Cas Dividends Paid Net Debt Drawdow Equity Issues/(Buyb Other Net Financing Ca BALANCE SHEET Cash & Equivalents PP&E & Dev-Expl Investments Total Assets Debt Total Liabilities Total Net Assets/	n ashflow ppment er shflow n ashflow ashflow ash A\$000s	FY20A 114 0 114 (338) (338) (338) 0 100 143 (81) FY20A 143 (81) FY20A 143 (81) FY20A 159 1,280 (1,121)	FY21A (3,184) (5) (915) 0 (915) 10,295 9,611 5,448 FY21A 5,455 3 212 11,993 920 11,072	FY22E (1,088) 27 (1,061) (250) (215) (215) (465) (2,076) FY22E 3,379 2,050 4,650 12,073 390 11,683	FY23E (685) 17 (500) (215) (715) (715) (715) (2,133) FY23E 1,246 3,082 4,650 10,895 250 10,645	Sout Proje Mid-West Hydro \$0.04	Cliff Head, So.04	er, \$0.02 Ne	t cash, -\$0.	\$0.04 00 CH CCS, \$ st Wind & \$0.05	0.10 . Solar,

Source: RaaS Advisory; Priced at 2.0cps



FINANCIAL SERVICES GUIDE

RaaS Advisory Pty Ltd

ABN 99 614 783 363

Corporate Authorised Representative, number 1248415

of

BR SECURITIES AUSTRALIA PTY LTD ABN 92 168 734 530 AFSL 456663

Effective Date: 6th May 2021



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- our services
- how we transact with you
- how we are paid, and
- complaint processes

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Website: www.afca.org.au; Email: info@afca.org.au; Telephone: 1800931678 (free call)

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