

EQUITIES

ASX Energy Coverage

	Ticker	Rating	TP (loc)	Price	Upside
Beach Energy	BPT AU	OP	1.95	1.70	15%
Cooper Energy	COE AU	N	0.34	0.31	8%
Carnarvon Petroleum	CVN AU	N	0.30	0.27	13%
Karoon Energy	KAR AU	OP	1.42	1.14	25%
Oil Search	OSH AU	UP	4.10	4.42	-7%
Santos	STO AU	N	7.00	7.76	-10%
Senex Energy	SXY AU	OP	0.47	0.37	30%
Woodside Petroleum	WPL AU	OP	28.20	25.46	11%

Source: Macquarie Research, March 2021 (Stock Price on 5th March 2021)

Previous Research:

- Carnarvon Petroleum (CVN AU) - Preparation needed for Dorado FID
- Senex Energy (SXY AU) - Attractive gas growth & now with a dividend
- Karoon Energy (KAR AU) - Still further upside from existing assets
- Oil Search (OSH AU) - Solid CY20, Alaska selldown remains key
- Santos (STO AU) - CY20 in line, next stop Barossa FID
- Woodside Petroleum (WPL AU) - Growth profile heating up, selldowns are key
- Woodside Petroleum (WPL AU) - An even more inconvenient deal?
- Cooper Energy (COE AU) - Refinancing critical in enabling strategy
- Beach Energy (BPT AU) - FCF inflection pushing to the right

Energy Sector Rising oil & rising rates

Key points

- ▶ We mark-to-market 2021 earnings estimates for higher oil prices, and increase DCF discount rates to reflect slightly higher Rf rates.
- ▶ US shale showing strong capital discipline & high OPEC+ compliance has driven higher oil prices, despite significant OPEC spare capacity.
- ▶ Maintain Outperform ratings on WPL & BPT in larger caps, and KAR & SXY in SMID caps. Maintain Underperform on OSH.

Event

- We mark to market for higher near-term oil prices (US\$62/bbl in February vs our prior forecast US\$48/bbl) & apply slightly higher discount rates to reflect higher Rf rates from our macro colleagues. Our discount rates are 8.1-8.6% for large caps and 10.2-10.8% for SMIDs.

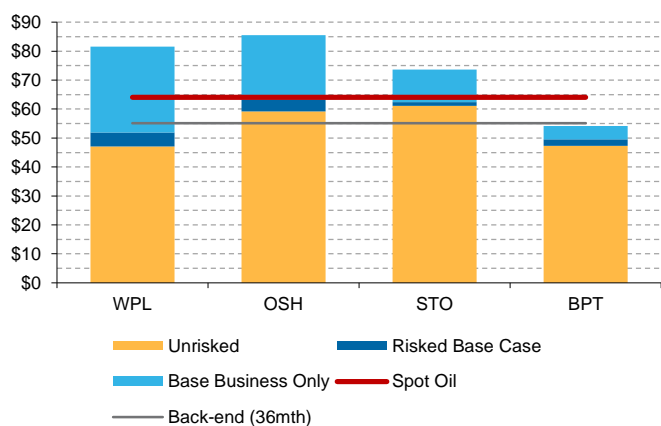
Impact

- **Oil prices rallying:** We raise CY21 oil prices from US\$50.9/bbl to US\$54.77/bbl on average, reflecting (i) a mark-to-market for February actuals and (ii) Brent forward curve pricing for March & April (the period in which OPEC+ has now positioned for, following the latest meeting).
- **Woodside (OP):** Stock has lagged peers, and despite flagging a likely cut to the dividend payout (from 80% to 50% payout ratio), we see SOTP value here (stock implies US\$50/bbl, down to US\$46/bbl if Scarborough & Senegal are fully de-risked) and several catalysts for re-rating: (i) new CEO appointment, (ii) detail on Scarborough/Pluto project economics at May investor day and (iii) selldowns of Pluto Train 2 & Sangomar oil project.
- **Beach Energy (OP):** Key disappointment at the 1H FY21 result was the recognition that Bauer oil field (80% of Western Flank production) is experiencing more rapid declines than management had expected. Whilst the next quarter or two could disappoint on production, we would use weakness as an opportunity to accumulate for (i) SOTP value, organic production growth & FCF inflection driven by Otway & Waitsia, (ii) further bolt-on acquisitions (pre-emptives at Kupe).
- **Santos (N):** We expect Santos to take FID on the US\$3.6bn Barossa project in the coming weeks (i.e., leased FPSO vessel), and this triggers the selldown of 25% in Bayu Undan and Darwin LNG to SK (and potentially also triggers the selldown of 12.5% stake in Barossa to JERA). Meaningful resource upside is being addressed in Beetaloo (NT) and Bedout (WA) is being tested in 2021.
- **Oil Search (UP):** The recent CFO appointment should materially help in preserving equity value through the commercialisation phase on major projects. Higher oil prices not only help OSH to build balance sheet capacity ahead of project FID's (Alaska 2021/22, Papua LNG 2024) but also helps to achieve a selldown of Alaska oil project by narrowing bid-ask spread.

Outlook

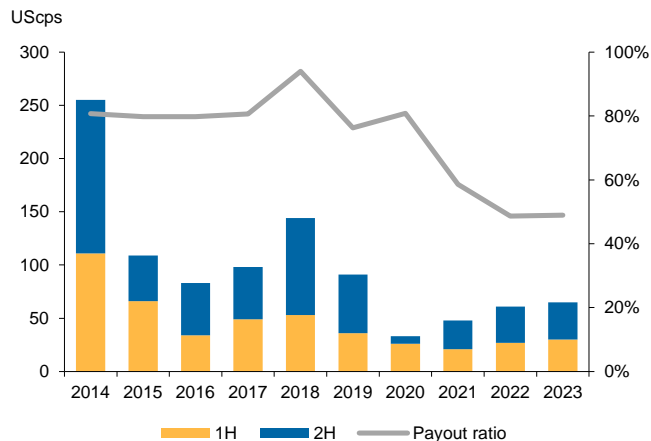
- **Larger caps:** Prefer WPL and BPT.
- **SMID caps:** Prefer KAR and SXY.

Fig 1 Implied Oil Price



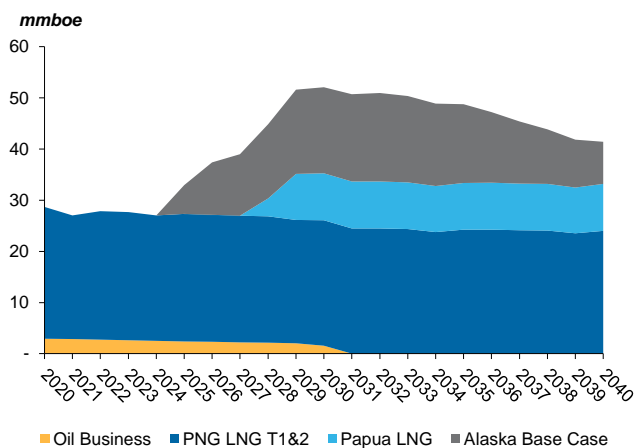
Source: FactSet, Company Data, Macquarie Research, March 2021

Fig 2 WPL has flagged it will cut the dividend payout ratio...



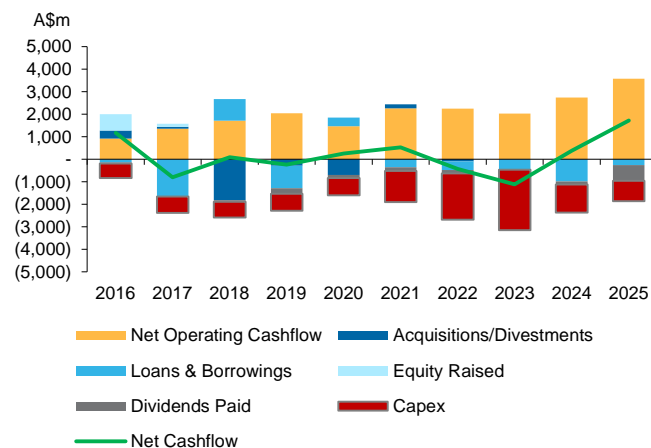
Source: Company Data, Macquarie Research, March 2021

Fig 3 OSH's production growth potential is progressing



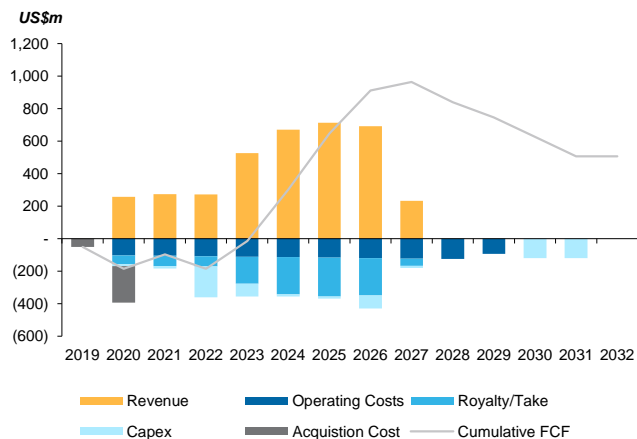
Source: Company Data, Macquarie Research, March 2021

Fig 4 STO is entering an investment cycle very shortly (S&P recently raised FFO/Debt requirement – looks manageable on our oil outlook with now staggered FID's)



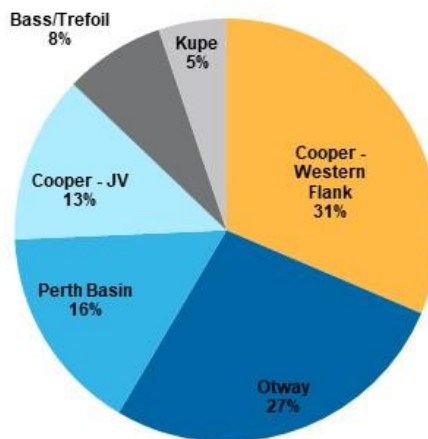
Source: Company Data, Macquarie Research, March 2021

Fig 5 KAR's Bauna acquisition was well timed, project is now enjoying higher prices (only partly offset by more contingent payments) ...



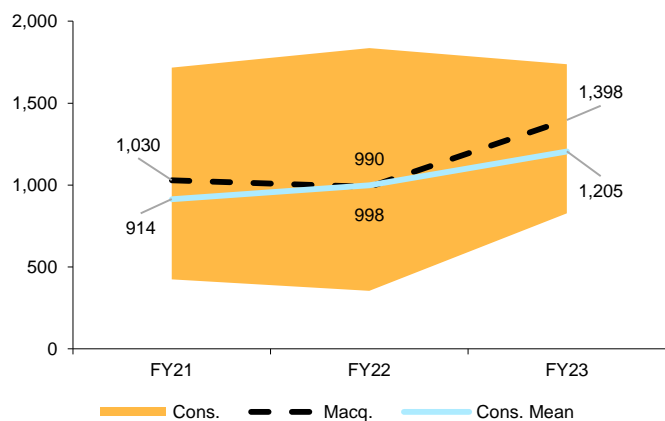
Source: Company Data, Macquarie Research, March 2021

Fig 6 Western Flank is 31% of our BPT valuation post-Senex & Bass acquisitions (Bauer alone would be ~20%)



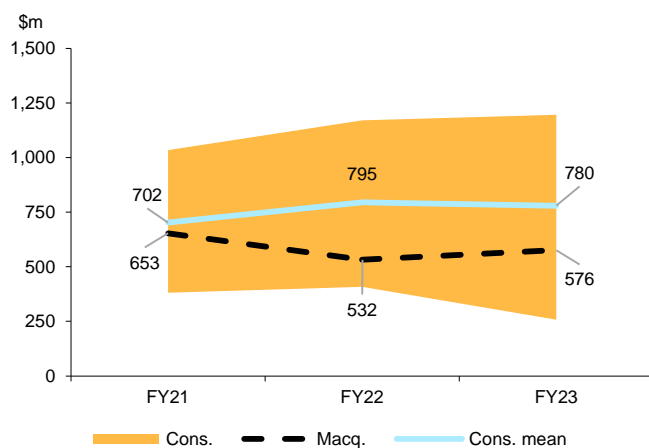
Source: Company Data, Macquarie Research, March 2021

Fig 7 WPL NPAT Adj., Macq. vs Cons.



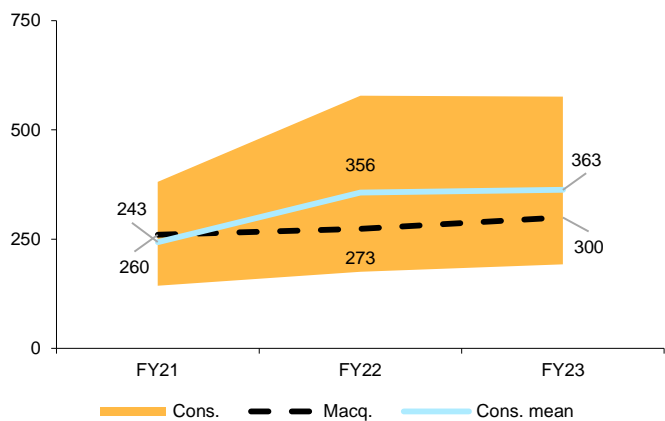
Source: Bloomberg, Macquarie Research, March 2021

Fig 8 STO NPAT Adj., Macq. vs Cons



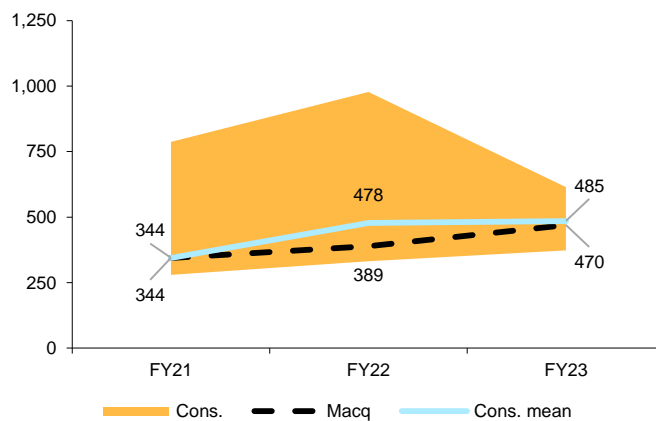
Source: Bloomberg, Macquarie Research, March 2021

Fig 9 OSH NPAT Adj., Macq. vs Cons



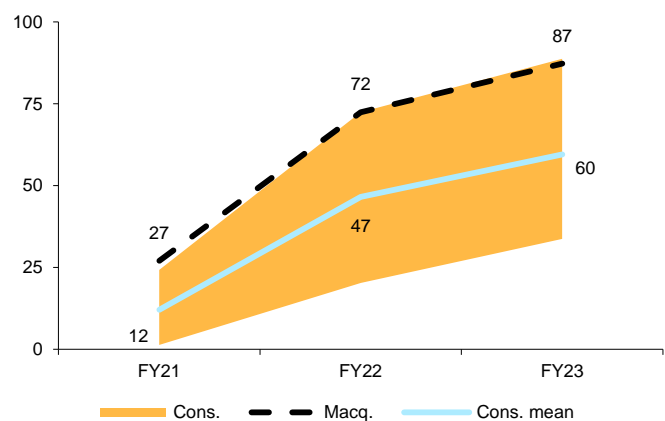
Source: Bloomberg, Macquarie Research, March 2021

Fig 10 BPT NPAT Adj., Macq. vs Cons



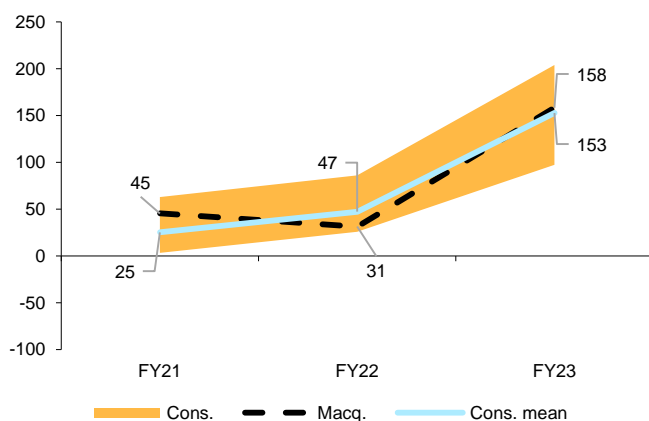
Source: Bloomberg, Macquarie Research, March 2021

Fig 11 SXY NPAT Adj., Macq. vs Cons



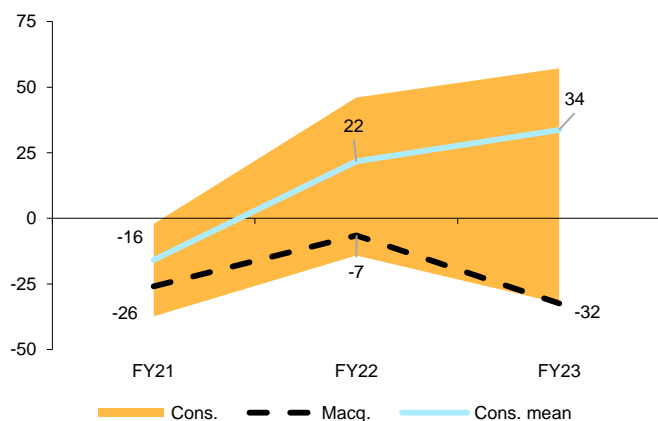
Source: Bloomberg, Macquarie Research, March 2021

Fig 12 KAR NPAT Adj., Macq. vs Cons



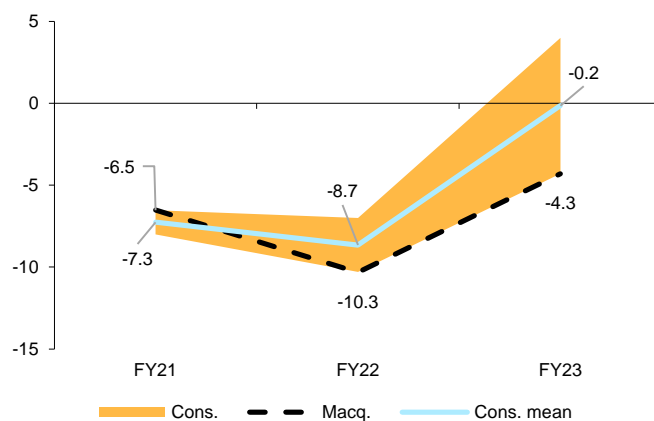
Source: Bloomberg, Macquarie Research, March 2021

Fig 13 COE NPAT Adj., Macq. vs Cons



Source: Bloomberg, Macquarie Research, March 2021

Fig 14 CVN NPAT Adj., Macq. vs Cons



Source: Bloomberg, Macquarie Research, March 2021

Fig 15 EPS changes on higher oil price, offset by higher WACC on update of Risk Free Rate

Stock	Ticker	Currency	Earnings Revisions			Earnings Revisions			Earnings Revisions			Earnings Revisions		
			2021E EPS			2022E EPS			2023E EPS			2024E EPS		
			Before	After	% Change	Before	After	% Change	Before	After	% Change	Before	After	% Change
Woodside Petroleum	WPL-AU	USD	89.6	107.5	20.0%	102.5	102.8	0.3%	139.2	145.1	4.3%	162.0	166.9	3.0%
Santos	STO-AU	USD	27.1	31.4	15.8%	25.7	25.5	-0.5%	27.3	27.6	1.4%	65.4	67.5	3.3%
Oil Search	OSH-AU	USD	10.8	12.5	15.3%	13.1	13.2	0.2%	14.4	14.4	0.1%	13.2	13.2	0.1%
Beach Energy	BPT-AU	AUD	13.7	15.1	10.6%	17.0	17.1	0.4%	20.6	20.6	0.1%	24.6	24.6	0.1%
Cooper Energy	COE-AU	AUD	-1.63	-1.59	2.3%	-0.40	-0.40	0.1%	-1.99	-1.99	0.0%	0.71	0.71	0.1%
Carnarvon Petroleum	CVN-AU	AUD	-0.42	-0.42	0.0%	-0.44	-0.44	0.0%	-0.18	-0.18	0.0%	6.85	6.85	0.0%
Karooon Energy	KAR-AU	AUD	4.10	8.20	100.3%	5.58	5.65	1.3%	28.59	28.61	0.1%	51.94	51.96	0.0%
Senex Energy	SXY-AU	AUD	1.67	1.83	9.8%	4.97	4.97	0.0%	5.99	5.99	0.0%	6.26	6.26	0.0%

Source: Macquarie Research, March 2021

Fig 16 TP changes due to higher near-term oil price & higher WACCs

Stock	Ticker	Price Target Revisions			Rating
		A\$/sh		% Change	
		Old	New		
Woodside Petroleum	WPL-AU	\$28.25	\$28.20	-0.2%	Outperform
Santos	STO-AU	\$6.85	\$7.00	2.2%	Neutral
Oil Search	OSH-AU	\$3.90	\$4.10	5.2%	Underperform
Beach Energy	BPT-AU	\$1.95	\$1.95	0.0%	Outperform
Cooper Energy	COE-AU	\$0.35	\$0.34	-4.2%	Neutral
Carnarvon Petroleum	CVN-AU	\$0.30	\$0.30	0.0%	Neutral
Karooon Energy	KAR-AU	\$1.40	\$1.42	1.7%	Outperform
Senex Energy	SXY-AU	\$0.47	\$0.47	0.0%	Outperform

Source: Macquarie Research, March 2021

Fig 17 Key risks to our thesis...

Stock	Ticker	Rating	Key Risks
Woodside Petroleum	WPL	OP	(-) Lower oil prices, Weaker spot LNG prices, CEO succession, further delays to Scarborough FID
Santos	STO	N	(+) Higher oil prices, Barossa FID, Successful project execution (Barossa, Dorado), Beetaloo success (-) CEO departure, poor project execution (Dorado, Barossa)
Oil Search	OSH	UP	(+) Higher oil prices, succesful selldown of Alaska Pikka oil project
Beach Energy	BPT	OP	(-) Lower oil prices, Western Flank oil declines, poor execution on growth (Waitsia), poor Otway drilling program results
Cooper Energy	COE	N	(+) Production improvement toward 68TJ/d (ie. resolving Orbost plant issues), (-) Production rate restrictions (eg. Orbost deteriorating), Poor execution on Otway growth (Athena, Annie/Henry)
Carnarvon Petroleum	CVN	N	(+) Successful completion of Buffalo farmout; (-) Poor execution on Buffalo / JV partner unable to raise capital, Apus & Pavo exploration outcomes
Karoon Energy	KAR	OP	(-) Lower oil prices, Sharper than expected production declines at Bauna, Poor execution on Neon/Goia development assets
Senex Energy	SXY	OP	(-) Poor execution of Roma North & Atlas expansion projects, CSG well performance, Dilutive M&A

Source: Macquarie Research, March 2021

Fig 18 WPL Summary Financials

Woodside Petroleum (WPL-AU)							Shares: 960.7m																
Outperform																							
Profit & Loss							Price Assumptions																
Sales Revenue	US\$m	1,837	1,621	4,346	3,458	4,392	4,266	AUD/USD			0.66	0.72	0.69	0.69	0.76	0.76							
Add Other Income	US\$m	120	22	527	142	512	531	Domestic Gas	A\$/GJ		5.67	5.32	4.21	5.49	5.44	5.60							
Total Revenue	US\$m	1,957	1,643	4,873	3,600	4,904	4,797	Oil Price (Brent)	US\$/bbl		42.31	43.67	62.80	42.99	54.77	53.75							
Less Operating Costs	US\$m	(486)	(629)	(1,153)	(1,115)	(1,217)	(1,302)	LNG Exports	US\$/MMBtu		6.40	4.38	8.65	5.35	7.15	6.83							
EBITDAX	US\$m	1,471	1,014	3,720	2,485	3,687	3,495	Production															
Less Exploration Expensed	US\$m	(41)	(40)	(164)	(81)	(210)	(215)	Natural Gas	PJ		18.6	13.5	37.2	32.1	14.9	14.9							
EBITDA	US\$m	1,430	974	3,556	2,404	3,477	3,280	Crude	mmbbl		4.4	5.3	5.6	9.7	9.6	7.3							
Less Dep. & Amort.	US\$m	(895)	(823)	(1,473)	(1,718)	(1,461)	(1,473)	Condensate	mmbbl		5.0	4.8	9.6	9.8	8.9	8.4							
Less Other Non-Cash Costs	US\$m	(16)	119	(193)	103	-	-	LPG	k tonnes		34.6	28.3	66.7	62.9	59.0	59.0							
EBIT	US\$m	474	221	1,789	695	1,918	1,709	LNG	m tonnes		4.2	4.2	7.6	8.4	8.1	8.6							
Less Net Interest	US\$m	(124)	(145)	(229)	(269)	(219)	(220)	Total Production	mmboe		50.1	50.2	89.5	100.3	93.3	95.3							
Pre-Tax Operating Profit	US\$m	350	76	1,560	426	1,699	1,489	mmboe															
Less Tax Expense	US\$m	(139)	(226)	(511)	(365)	(510)	(447)	Actual															
Less PRRT	US\$m	121	318	31	439	(92)	(20)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Net Operating Profit	US\$m	332	168	1,080	500	1,097	1,023	Gas	Crude	Condensate	LPG	LNG											
add Non-Recurring Items	US\$m	(4,370)	(105)	(737)	(4,475)	-	-																
Reported Profit	US\$m	382	39	343	(4,028)	1,030	990																
Adjusted Profit	US\$m	303	144	1,119	447	1,030	990																
NPAT growth				(21%)	(60%)	130%	(4%)																
EPS (Adjusted)	Acps	49	21	172	69	141	136																
EPS Growth (A\$)	%	(55%)	(57%)	(18%)	(60%)	103%	(4%)																
DPS (Ordinary & Special)	US\$cps	26	12	91	38	63	50																
DPS (Ordinary & Special)	Acps	40	17	127	56	83	66																
Franking	%	100%	100%	100%	100%	100%	100%																
EPPOWA Shares on Issue	m	948	955	939	955	959	963																
Cashflow Analysis							Reserves																
Reported Profit	US\$m	(4,067)	39	382	(3,975)	1,097	1,023	Natural Gas	Tcf				5.7	5.1	4.6	4.1							
Add Non-Cash Adj	US\$m	5,410	1,038	3,391	6,448	2,590	2,472	Condensate	mmbbl				100	90	81	73							
Add Working Capital Adj	US\$m	15	(141)	154	(126)	(57)	96	Oil	mmbbl				122	113	103	96							
Add Interest & Div Received	US\$m	49	19	90	68	79	57	Total 2P Reserves	mmboe				1,213	1,113	1,019	924							
Less Interest Paid & Other	US\$m	(47)	(65)	(235)	(235)	-	-	Contingent Resources	mmbbl				5,979	5,979	5,979	5,979							
Less Tax Paid	US\$m	(211)	(120)	(313)	(331)	(492)	(414)	Total Reserves & Resources	mmboe				7,192	7,092	6,999	6,903							
Operating Cashflow	US\$m	1,149	770	3,469	1,849	3,217	3,233	2P Reserves/Production	years				13.5	11.1	10.9	9.7							
Less Exploration & Evaluation	US\$m	(788)	(630)	(1,213)	(1,418)	(2,306)	(3,292)	EV / 1P Reserves	US\$/boe				25.9	29.3	33.4	38.8							
Less Acq./Inv.	US\$m	(33)	(77)	-	(110)	-	-	EV / 2P Reserves	US\$/boe				18.6	20.3	22.2	24.4							
Add Other	US\$m	-	(527)	12	(527)	(450)	-	EV / Total Resources	US\$/boe				3.1	3.2	3.2	3.3							
Less Dividends	US\$m	-	(454)	(1,062)	(454)	(198)	(346)																
Add Debt Movements	US\$m	501	(95)	1,539	406	(827)	187																
Add Equity Movements	US\$m	(285)	308	-	23	235	149																
Net Cashflow	US\$m	392	(858)	2,384	(466)	(703)	(421)																
Add Exchange Rate Adj.	US\$m	2	10	-	12	-	-																
Increase In Cash	US\$m	394	(848)	2,384	(454)	(703)	(421)																
Net Debt At Period End	US\$m	3,145	4,137	1,621	4,137	4,092	4,745																
Balance Sheet							Per bbl Statistics																
Cash & Cash Eq.	US\$m	4,452	3,604	4,058	3,604	2,901	2,480	Sales Revenue/boe	US\$/boe		36.66	32.29	48.54	34.48	47.07	44.75							
Current Assets	US\$m	5,004	4,252	4,647	4,252	3,680	3,280	EBIT/boe	US\$/boe		9.46	4.40	19.98	6.93	20.56	17.92							
Fixed Assets	US\$m	19,676	20,371	24,706	20,371	21,358	22,864	Profit/boe	US\$/boe		6.05	2.87	12.50	4.46	11.03	10.38							
Total Assets	US\$m	24,680	24,623	29,353	24,623	25,038	26,143	Opex/boe	US\$/boe		4.47	5.06	5.64	4.77	4.96	5.12							
Current Liabilities	US\$m	1,891	2,094	1,131	2,094	2,177	3,237	Capex/boe	US\$/boe		15.73	12.55	13.55	14.14	24.71	34.53							
Total Liabilities	US\$m	11,739	11,748	11,944	11,748	11,097	11,409	DDA/boe	US\$/boe		17.58	16.10	15.77	16.84	15.33	15.13							
Shareholder Equity	US\$m	12,941	12,875	17,409	12,875	13,942	14,734	Cash Flow/boe	US\$/boe		22.09	14.78	37.20	21.67	33.60	33.94							
Ratio Analysis							NPV @ WACC of 8.1%																
ND/ND+E	%	19.6%	24.3%	8.5%	24.3%	22.7%	24.4%	Producing Assets															
Interest Cover	x	3.8 x	1.9 x	7.7 x	2.9 x	9.1 x	9.1 x	North West Shelf	US\$m				1,741	2.59	-	-							
Dividend Payout Ratio	%	(6%)	294%	222.9%	(8.9%)	58.6%	48.6%	Vincent	A\$m				-	-	-	-							
ROA	%	1.8%	0.9%	6.3%	2.6%	7.7%	6.7%	Pluto (Train 1)					7,833	11.65	-	-							
ROE	%	2.1%	1.2%	6.6%	3.1%	8.2%	7.3%	Kitimat (Domestic)					-	-	-	-							
ROIC	%	2.5%	1.8%	6.3%	4.0%	7.9%	6.9%	Greater Enfield					611	0.91	-	-							
Effective Tax Rate	%	39.7%	297.4%	32.8%	85.7%	30.0%	30.0%	Wheatstone					3,582	5.33	-	-							
EBITDA Margin	%	77.8%	60.1%	81.8%	69.5%	79.2%	76.9%	Development Assets															
EBIT Margin	%	25.8%	13.6%	41.2%	20.1%	43.7%	40.1%	Scarborough/Thebe					Risked Valuation @ 95%	3,825	5.69								
Free Cash Flow	A\$m	319	(415)	2,104	(96)	461	(59)	Corpus Christi LNG (3rd Party Gas)					Risked Valuation @ 13%	(72)	(0.11)								
Valuation							Sangomar Development																
EV/EBITDAX Ratio	x	15.4 x	22.3 x	6.1 x	9.1 x	6.1 x	6.5 x					Risked Valuation @ 100%	2,732	4.06									
P/E Ratio	x	52.1 x	121.6 x	19.8 x	36.5 x	18.0 x	18.6 x	Static Assets & Exploration															
P/CEPS Ratio	x	12.2 x	18.7 x	7.3 x	7.4 x	6.6 x	6.6 x	Thalin-1A					Risked Valuation @ 0%	-	-								
FCF Yield	%	4.0%	nmf	9.5%	nmf	2.5%	nmf	Shwe Yee Htun-1					Risked Valuation @ 0%	-	-								
Dividend Yield	%	3.1%	1.3%	3.7%	2.2%	3.3%	2.6%	Sangomar upside					Risked Valuation @ 40%	-	-								
Sensitivities (Adjusted Earnings)							Financial Assets																
Oil Price (+US\$/1bbl)	A\$m		29.58	1,119	615	926	1,039	Cash & Investments					2,901	4.31									
	delta (A\$m)		1.38	-	168	(103)	49	Debt					(5,454)	(8.11)									
	delta (%)		4.9%	-	37.7%	(10.0%)	4.9%	Base Business Carbon					-	-									
								Franking Credits (60% inclusion)					337	0.50									
								Corporate Costs					(374)	(0.56)									
								Risked NPV					18,966	28.20									
								Share Price Prem/(Disc) to NPV							(10%)								
								Core NPV per Share (A\$)							26.17								
								Risked NPV per Share (A\$)							28.20								
								Unrisked NPV per Share							31.04								

Source: Company Data, Macquarie Research, March 2021

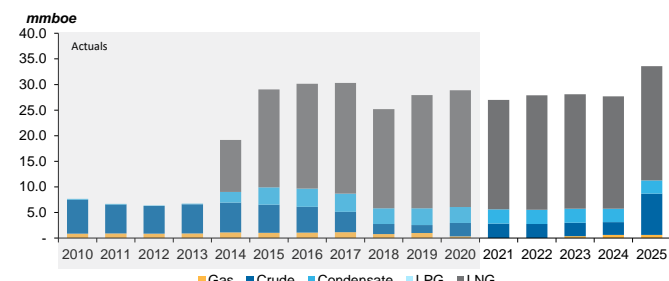
Fig 19 STO Summary Financials

Santos (STO-AU)									
Neutral									
Profit & Loss									
Sales Revenue	US\$m	1,668	1,719	4,033	3,387	4,208	4,212		
add Other Income	US\$m	113	110	270	223	223	228		
Total Revenue	US\$m	1,781	1,829	4,303	3,610	4,431	4,440		
less Operating Costs	US\$m	(808)	(917)	(1,814)	(1,725)	(1,875)	(1,947)		
EBITDAX	US\$m	973	912	2,489	1,885	2,556	2,493		
less Exploration Expensed	US\$m	(25)	(34)	(103)	(59)	(18)	(30)		
EBITDA	US\$m	948	878	2,386	1,826	2,538	2,463		
less Dep. & Amort.	US\$m	(495)	(544)	(1,000)	(1,015)	(1,049)	(1,087)		
less Other Non-Cash Costs	US\$m	-	-	(32)	(24)	(15)	-		
EBIT	US\$m	453	334	1,354	787	1,474	1,376		
less Net Interest	US\$m	(124)	(110)	(277)	(234)	(259)	(250)		
Pre-Tax Operating Profit	US\$m	329	224	1,077	553	1,215	1,126		
less Tax Expense (Incl PRRT)	US\$m	(117)	(149)	(358)	(266)	(562)	(595)		
Net Operating Profit	US\$m	212	75	719	287	653	532		
add Non-Recurring Items	US\$m	(501)	(143)	(45)	(644)	-	-		
Reported Profit	US\$m	(289)	(68)	674	(357)	653	532		
add (Goodwill Amm - Pref Div)	US\$m	-	-	-	-	-	-		
Adjusted Profit	US\$m	212	75	719	287	653	532		
EPS (Adjusted)	Acps	15	5	50	20	41	34		
EPS Growth	%	(28%)	(68%)	3%	(59%)	101%	(18%)		
DPS (Ordinary & Special)	UScps	2.1	5.0	11.0	7.1	7.0	3.0		
DPS (Ordinary & Special)	Acps	3.2	6.9	16.0	12.1	11.0	3.0		
Franking	%	100%	100%	100%	100%	100%	100%		
EFPOWA Shares on Issue	m	2,083	2,083	2,083	2,083	2,083	2,083		
Cashflow Analysis									
Cash Receipts from Operations	US\$m	1,969	1,831	4,492	3,800	4,324	4,387		
less Operating Costs	US\$m	(953)	(1,005)	(1,982)	(1,958)	(1,688)	(1,752)		
less Gross Interest Paid	US\$m	(134)	(90)	(313)	(224)	(179)	(192)		
less Tax Paid	US\$m	(83)	(113)	(151)	(196)	(164)	(199)		
Cashflow from Operations	US\$m	838	638	2,046	1,476	2,259	2,245		
less Development & Exploration	US\$m	(405)	(356)	(859)	(761)	(1,383)	(2,051)		
less Acq./Inv.	US\$m	(714)	25	(202)	(689)	176	(90)		
add Divestment	US\$m	-	(11)	28	(11)	-	-		
less Dividends Paid	US\$m	(92)	(44)	(251)	(136)	(167)	(146)		
add Debt Movements	US\$m	609	(77)	(882)	532	(350)	(390)		
add Equity Movements/Other	US\$m	39	15	(118)	(150)	-	-		
Net Cashflow	US\$m	220	41	(238)	261	536	(432)		
add Exchange Rate Adj.	US\$m	(25)	16	(11)	(9)	-	-		
Increase in Cash	US\$m	195	57	(249)	252	536	(432)		
Net Debt at Year End	US\$m	3,796	3,680	3,354	3,680	2,794	2,836		
Balance Sheet									
Cash & Cash Eq.	US\$m	1,262	1,319	1,067	1,319	1,855	1,423		
Current Assets	US\$m	2,136	2,696	2,180	2,696	3,370	2,992		
Fixed Assets	US\$m	15,319	14,960	14,329	14,960	15,095	16,120		
Total Assets	US\$m	17,455	17,656	16,509	17,656	18,466	19,112		
Current Liabilities	US\$m	1,126	1,535	1,319	1,535	1,497	1,772		
Total Liabilities	US\$m	10,157	10,429	8,833	10,429	10,750	11,011		
Shareholder Equity	US\$m	7,298	7,227	7,676	7,227	7,715	8,101		
Ratio Analysis									
ND/ND+E	%	34%	34%	30%	34%	27%	26%		
Interest Cover	x	4.2x	3.4x	4.9x	3.4x	5.7x	5.5x		
Dividend Payout Ratio	%	21%	139%	34%	(41%)	22%	12%		
ROA	%	3%	2%	8%	5%	8%	7%		
ROE	%	3%	1%	10%	4%	9%	7%		
ROIC	%	1%	(0%)	8%	4%	8%	7%		
Effective Tax Rate	%	19%	40%	33%	27%	35%	40%		
EBITDA Margin	%	57%	51%	59%	54%	60%	58%		
EBIT Margin	%	27%	19%	34%	23%	35%	33%		
Free Cashflow	US\$m	433	271	1,215	704	876	194		
Valuation									
EV/EBITDAX Ratio	x	14.1x	15.1x	5.5x	7.3x	5.4x	5.5x		
EV/DACF Ratio	x	18.0x	20.6x	7.2x	9.6x	7.6x	8.0x		
P/E Ratio	x	44.6x	138.8x	13.9x	33.8x	16.8x	20.4x		
P/CFPS Ratio	x	12.9x	15.9x	5.4x	7.1x	6.3x	6.6x		
FCF Yield	%	5%	3%	12%	7%	8%	2%		
Dividend Yield	%	0%	1%	2%	2%	2%	0%		
Sensitivities (Adjusted Earnings)									
Oil price (+US\$1/bbl)	US\$m delta	5.20	719	384	571	682			
		(1.80)	-	97	(82)	150			
		(25.7%)	-	33.8%	(12.5%)	28.2%			
Price Assumptions									
AUD/USD	¢	0.66	0.72	0.69	0.69	0.76	0.76		
Domestic Gas	A\$/GJ	4.86	4.62	6.42	4.74	5.17	5.19		
Oil Price (Brent)	US\$/bbl	42.31	43.67	62.80	42.99	54.77	53.75		
Production									
Natural Gas	PJ	112	138	235	250	206	223		
Crude	mmbbl	3	2	8	5	6	6		
Condensate	mmbbl	2	3	4	5	5	5		
LPG	k tonnes	93	128	151	221	219	247		
LNG	k tonnes	1,363	2,141	2,123	3,504	3,792	3,511		
Total Production	mmboe	39	51	75	89	90	92		
Third Party Sales	mmboe	10	10	15	20	21	22		
Total Sales	mmboe	47	60	95	107	102	104		
Reserves									
Natural Gas	PJ	5,277	5,027	4,821	4,599				
Oil	mmbbl	38	33	27	21				
Condensate	mmbbl	36	31	25	20				
LPG	k tonnes	1,169	948	729	483				
Total 2P Reserves	mmboe	989	900	810	718				
Contingent Resources	mmbbl	1,920	1,920	1,920	1,920				
Total Reserves & Resources	mmboe	2,909	2,820	2,730	2,638				
2P Reserve Life	years	13.1	10.1	9.0	7.8				
EV / 1P Reserves	US\$/boe	32.98	39.38	48.95	65.20				
EV / 2P Reserves	US\$/boe	18.28	20.09	22.31	25.17				
EV / Total Resources	US\$/boe	6.21	6.41	6.62	6.85				
Per Barrel Statistics									
Sales Revenue/boe	US\$/boe	43.28	34.01	53.43	38.02	46.91	45.78		
EBIT/boe	US\$/boe	11.75	6.61	17.94	8.83	16.43	14.96		
Profit/boe	US\$/boe	5.50	1.48	9.53	3.22	7.28	5.78		
Opex/boe	US\$/boe	9.11	10.07	9.11	9.65	11.51	11.35		
Capex/boe	US\$/boe	10.51	7.04	11.38	8.54	15.42	22.29		
DDA/boe	US\$/boe	12.42	10.32	13.06	11.23	11.53	11.52		
Cashflow/boe	US\$/boe	21.74	12.62	27.11	16.57	25.19	24.39		
NPV @ WACC of 8.5%									
Producing Assets							US\$m	A\$ps	%
Cooper Basin - 2P	Risked Valuation @ 100%						1,159	0.79	
Onshore Queensland CSG Assets	Risked Valuation @ 100%						-	-	
WA Gas	Risked Valuation @ 100%						2,365	1.62	
WA Oil	Risked Valuation @ 100%						-	0.12	
Bayu-Undan	Risked Valuation @ 100%						(46)	(0.03)	
PNG LNG Trains 1&2	Risked Valuation @ 100%						1,949	1.34	
Gastone LNG Train 1&2	Risked Valuation @ 100%						3,130	2.15	
Developing Assets									
Cooper Basin - 2C	Risked Valuation @ 50%						-	-	
Caldita/Barossa	Risked Valuation @ 90%						419	0.29	
Dorado	Risked Valuation @ 95%						1,065	0.73	
Gunnedah/Narrabri (NSW)	Risked Valuation @ 85%						215	0.15	
Static Assets & Exploration									
PNG LNG Train 5	Risked Valuation @ 0%						-	-	
Petrel/Tern	Risked Valuation @ 0%						-	-	
Exploration							81	0.06	
Financial Assets									
Corporate/Tariffs/Other							1,650	1.13	
Cash & Investments							1,773	1.22	
Debt							(3,725)	(2.55)	
Risked NPV							10,034	7.00	
Share Price Prem/(Disc) to NPV									(1%)
Core NPV per Share (A\$)							6.95		
Risked NPV per Share (A\$)							7.00		
Unrisked NPV per Share							7.94		

Source: Company Data, Macquarie Research, March 2021

Fig 20 OSH Summary Financials

Oil Search (OSH-AU)							
Underperform							
Profit & Loss							
Sales Revenue	US\$m	1H20a	2H20e	2019a	2020e	2021e	2022e
Add Other Income	US\$m	623	420	1,542	1,044	1,223	1,235
Total Revenue	US\$m	630	508	1,652	1,137	1,294	1,310
Less Operating Costs	US\$m	(162)	(160)	(429)	(322)	(318)	(321)
Less Corporate/Other Costs	US\$m	(12)	(55)	(77)	(68)	6	6
EBITDAX	US\$m	456	292	1,146	748	983	995
Less Exploration Expensed	US\$m	(94)	(9)	(47)	(103)	(21)	(12)
EBITDA	US\$m	361	283	1,099	644	962	983
Less Dep. & Amort.	US\$m	(184)	(151)	(323)	(335)	(302)	(325)
less Other Non-Cash Costs	"	(29)	(60)	(96)	(89)	(127)	(128)
EBIT	US\$m	148	73	679	221	534	530
Less Net Interest	US\$m	(107)	(83)	(231)	(190)	(163)	(136)
Pre-Tax Operating Profit	US\$m	41	(11)	448	30	371	394
Less Tax Expense	US\$m	(16)	9	(136)	(8)	(111)	(121)
Net Operating Profit	US\$m	25	(2)	312	23	260	273
add Non-Recuring Items	US\$m	(291)	(52)	-	(343)	-	-
Reported Profit	US\$m	(266)	(54)	312	(321)	260	273
Adjusted Profit	US\$m	25	(2)	312	23	260	273
EPS (Adjusted)							
EPS Growth	%	209%	(14%)	(6%)	(94%)	882%	5%
DPS (Ordinary & Special)	UScps	-	0.5	9.5	0.5	5.0	5.3
DPS (Ordinary & Special)	UScps	-	0.7	13.9	0.7	6.6	7.0
Franning	%	-	-	-	-	-	-
EFPOWA Shares on Issue	m	1,801	2,078	1,525	2,078	2,078	2,078
Cashflow Analysis							
Cash From Operations	US\$m	738	411	1,650	1,149	1,329	1,310
Less Operating Costs	US\$m	(253)	(286)	(587)	(539)	(360)	(311)
Less Interest Paid	"	(109)	(84)	(238)	(193)	(159)	(134)
Less Tax Paid	"	(7)	(5)	(33)	(12)	60	52
Gross Cashflow From Operations	US\$m	370	36	793	406	871	917
Less Development & Exploration	US\$m	(311)	(45)	(366)	(356)	(181)	(283)
Less PP&E	"	(16)	(20)	(36)	(36)	-	-
Less Acq./Inv.	"	(1)	(1)	(452)	(1)	-	-
Add Divestment/Other	"	-	-	-	-	-	-
Less Dividends	"	(69)	-	(206)	(69)	(61)	(105)
Add Equity Movements/Other	"	678	(15)	(23)	663	-	-
Add Debt Movements	"	(202)	(161)	86	(462)	(648)	(421)
Increase in Cash	US\$m	435	(291)	(204)	145	(16)	190
Net Debt at Year End (Cash)	US\$m	2,731	2,766	3,398	2,766	2,136	1,608
Balance Sheet							
Cash & Cash Eq.	US\$m	831	541	396	541	525	715
Current Assets	"	1,115	868	792	868	824	1,023
Fixed Assets	"	10,800	10,520	10,781	10,520	10,302	10,172
Total Assets	US\$m	11,915	11,388	11,573	11,388	11,127	11,196
Current Liabilities	US\$m	1,103	969	1,121	969	616	677
Total Liabilities	"	6,292	5,818	6,314	5,818	5,357	5,258
Shareholder Equity	US\$m	5,623	5,570	5,258	5,570	5,769	5,938
Ratio Analysis							
ND/ND+E	%	32.7%	33.2%	39.3%	33.2%	27.0%	21.3%
EBIT Interest Cover	x	1.6 x	1.1 x	2.8 x	1.4 x	3.4 x	4.0 x
Dividend Payout Ratio	%	-	(506.1%)	6.0%	0.4%	4.6%	4.7%
ROA	%	1.2%	0.6%	6.1%	1.9%	4.7%	4.8%
ROE	%	0.5%	(0.0%)	6.0%	0.4%	4.6%	4.7%
ROIC	%	0.4%	(0.1%)	5.8%	1.9%	4.7%	4.9%
Effective Tax Rate	%	40.0%	81.3%	30.4%	25.0%	30.0%	30.6%
EBITDA Margin	%	73.1%	69.5%	74.3%	71.6%	80.3%	80.6%
EBIT Margin	%	23.8%	17.3%	44.0%	21.1%	43.6%	42.9%
Free Cash Flow	US\$m	42	(28)	(59)	14	690	635
Valuation							
EV/EBITDAX Ratio	x	9.4 x	14.6 x	7.4 x	11.4 x	8.7 x	8.6 x
EV/DACF Ratio	x	13.2 x	22.0 x	11.3 x	16.4 x	13.1 x	12.7 x
P/E Ratio	x	98.3 x	-1500.5 x	13.9 x	210.3 x	25.0 x	23.5 x
P/CEPS Ratio	x	7.3 x	14.2 x	5.6 x	9.6 x	9.2 x	8.7 x
FCF Yield	%	1.7%	(0.9%)	(1.6%)	0.4%	10.6%	9.9%
Dividend Yield	%	-	0.3%	3.4%	0.2%	1.6%	1.7%
Sensitivities (Adjusted Earnings)							
Oil Price (+US\$1/bbl)	US\$m	3.3	312	0	158	283	
	delta	(78.7%)	-	(22.5)	(101.8)	9.7	
	%	(19.2%)	-	(99.4%)	(39.2%)	3.5%	
Price Assumptions							
AUD/USD	c	0.66	0.72	0.69	0.69	0.76	0.76
Oil Price (Brent)	US\$/bbl	42.31	43.67	62.80	42.99	54.77	53.75
Production							
Natural Gas	bcf	1.8	-	5.1	1.8	-	-
Crude	mmbbl	1.4	1.2	1.6	2.6	2.9	2.8
Condensate	mmbbl	1.6	1.5	3.3	3.1	2.8	2.8
LNG	mT	1.3	1.3	2.5	2.6	2.4	2.5
Total Production	mmboe	14.6	14.3	27.9	28.9	27.0	27.9
Reserves							
Natural Gas	bcf	-	-	104	101	98	95
Oil	mmbbl	-	-	-	-	-	-
Total 2P Reserves	mmboe	-	-	479	450	423	395
Contingent Resources	mmbbl	-	-	25	22	19	16
Total Reserves & Resources	mmboe	-	-	504	472	442	412
2P Reserve Life	years	-	-	17.1	15.6	15.7	14.2
EV / 1P Reserves	US\$/boe	-	-	20.2	21.7	23.3	25.3
EV / 2P Reserves	US\$/boe	-	-	17.8	18.9	20.1	21.6
EV / Total Resources	US\$/boe	-	-	7.9	9.4	9.4	9.4
Per Barrel Statistics							
Sales Revenue/boe		42.78	29.39	55.18	36.15	45.28	44.29
EBIT/boe		10.16	5.07	24.30	7.64	19.76	19.02
Profit/boe		1.70	(0.14)	11.16	0.78	9.61	9.80
Opex/boe		10.44	9.59	12.48	10.02	9.42	9.41
DDA/boe		12.66	10.53	11.57	11.60	11.16	11.64
Cash Flow/boe		25.38	2.54	28.38	14.07	32.24	32.88
NPV @ WACC of 8.6%							
Producing Assets	US\$m						
Kutubu - PDL 2	A\$m					154	0.11
Moran - PDL 2/5	A\$m					101	0.07
Gobe Main/SE Gobe	A\$m					1	0.00
Hides GTE	A\$m					-	-
PNG LNG Train 1 & 2	A\$m					3,931	2.70
Development Assets	US\$m						
Papua LNG Trains 1 & 2 (Elk/Antelope)	A\$m					735	0.51
PNG LNG Train 3 (Accel. Gas, P'nyang)	A\$m					-	-
Alaska (Pikka Unit)	A\$m					1,007	0.69
Appraisal Assets	US\$m						
Alaska Upside	A\$m					-	-
Other	A\$m					-	-
Exploration Upside	US\$m						
Exploration Portfolio	A\$m					-	-
Financial Assets	US\$m						
Cash & Investments	A\$m					525	0.34
Debt	A\$m					(347)	(0.24)
Drilling Rigs	A\$m					80	0.06
Capitalised G&A	A\$m					(187)	(0.13)
Riskd NPV	US\$m					6,001	4.10
Share Price Prem/(Disc) to NPV	%						(0.00)
Core NPV per Share (A\$)	A\$						4.10
Riskd NPV per Share (A\$)	A\$						4.10
Unriskd NPV per Share (A\$)	A\$						4.57



Source: Company Data, Macquarie Research, March 2021

Fig 21 BPT Summary Financials

Beach Energy (BPT-AU)							Shares: 2280.5m																
Outperform																							
Profit & Loss							Price Assumptions																
Sales Revenue	A\$m	750	705	1,650	1,519	1,631	1,856	US\$/A\$		0.66	0.72	0.67	0.74	0.76	0.75								
add Other Income	A\$m	30	26	79	48	44	42	Ave. Domestic Gas	A\$/GJ	6.77	6.83	7.34	7.12	7.27	7.32								
Total Revenue	A\$m	781	731	1,729	1,567	1,675	1,898	Brent Oil	US\$/bbl	42.31	43.67	51.50	50.86	52.00	55.67								
less Operating Costs	A\$m	(280)	(289)	(606)	(574)	(587)	(648)	Production															
EBITDAX	A\$m	500	442	1,122	993	1,088	1,250	Natural Gas	PJ	42	40	84	87	100	124								
less Exploration Expensed	A\$m	-	(39)	-	(39)	-	-	Condensate	mmbbls	961	871	1,783	1,874	2,105	2,291								
EBITDA	A\$m	500	403	1,122	954	1,088	1,250	Oil	mmbbls	4,679	4,558	8,780	8,630	8,031	7,595								
less Dep. & Amort.	A\$m	(224)	(213)	(448)	(465)	(538)	(571)	LPG	kT	110	112	209	231	252	275								
less Other Non-Cash Costs	A\$m	(21)	(2)	(21)	(2)	-	-	Total Production	mboe	13,806	13,240	26,716	27,225	29,339	33,299								
EBIT	A\$m	255	188	653	487	550	679	mmboe															
less Net Interest	A\$m	(7)	(5)	(14)	(7)	(7)	(6)	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
Pre-Tax Operating Profit	A\$m	248	183	639	479	543	673	Gas	Crude	Condensate	LPG												
less Tax Expense (inc PRRT)	A\$m	(60)	(54)	(178)	(135)	(153)	(203)	Reserves															
Net Operating Profit	A\$m	188	129	461	344	389	470	Natural Gas	PJ			FY20a	FY21e	FY22e	FY23e								
add Significant Items	A\$m	35	40	-	-	-	-	Liquids	mmbbl			1,513.0	1,426.4	1,326.3	1,202.8								
Reported Profit	A\$m	222	129	501	344	389	470	Total 2P Reserves	mboe			352.0	324.8	295.4	262.1								
Adjusted Profit	A\$m	188	129	461	344	389	470	Reserves / Production	years			13.2	11.9	10.1	7.9								
EPS (Adjusted)							Reserves / Production																
EPS Growth	%	(31%)	(31%)	(18%)	(25%)	13%	21%	EV / 2P Reserves	A\$/boe			11.4	12.3	13.5	15.3								
DPS	Ac	1.0	1.0	2.0	2.0	2.1	2.2	EV / 2P Reserves	US\$/boe			8.6	9.4	10.3	11.6								
Franking	%	100%	100%	100%	100%	100%	100%	Per bbl Statistics															
EFPOWA Shares on Issue	m	2,279	2,279	2,279	2,280	2,280	2,280	Sales Revenue / boe	A\$/boe	2H20a	1H21e	FY20a	FY21e	FY22e	FY23e								
								EBIT / boe	A\$/boe	35.74	38.5	41.42	42.12	39.33	39.01								
Cashflow Analysis							Valuation																
Cash from Operations	A\$m	909	794	1,915	1,593	1,673	1,855	EV/EBITDAX	x	8.0x	9.0x	3.6x	4.0x	3.7x	3.2x								
less Operating Costs	A\$m	(357)	(367)	(770)	(656)	(605)	(654)	P/E Ratio	x	20.5x	29.9x	9.9x	11.2x	9.9x	8.2x								
less Interest Paid	A\$m	(3)	(3)	(7)	(7)	(8)	(8)	P/CEPS	x	9.4x	10.1x	4.9x	4.5x	4.2x	3.7x								
less Tax Paid	A\$m	(27)	(128)	(265)	(208)	(152)	(202)	FCF Yield	%	1.1%	(1.3%)	(0.8%)	(1.6%)	2.0%	4.5%								
Gross Cashflow from Operations	A\$m	523	296	874	723	908	991	Dividend Yield	%	0.6%	0.6%	1.0%	1.2%	1.2%	1.3%								
less Expl. & Eval.	A\$m	(120)	(68)	(266)	(100)	(49)	(91)	Price to Book	x	1.4x	1.3x	1.6x	1.2x	1.1x	1.0x								
less Acq./Inv.	A\$m	(360)	(277)	(644)	(773)	(781)	(809)	NPV @ WACC of 8.4%															
add Divestment/Other	A\$m	(1)	-	11	-	-	-	Producing Assets	A\$m	A\$ps	A\$ps												
less Dividends	A\$m	(23)	(23)	(46)	(46)	(47)	(49)	Cooper Basin (Delhi)		566	0.25												
add Equity Movements/Other	A\$m	(28)	(22)	(54)	(22)	-	-	Cooper Basin (Oil)		1,790	0.78												
add Debt Movements	A\$m	25	100	60	150	-	(50)	Cooper Basin (Wet Gas)		256	0.11												
Net Cashflow	A\$m	17	6	(65)	(69)	32	73	Taranaki Basin (Kupe)		244	0.11												
add Exchange Rate Adj.	A\$m	(2)	(2)	3	(2)	-	-	Otago Basin (OGP, HSBW)		1,003	0.44												
Increase in Cash	A\$m	15	4	(62)	(71)	32	73	Other Projects		1,108	0.48												
Net Debt/(Cash)	A\$m	(53)	44	(53)	169	137	15	Developing Assets															
Ratio Analysis							Static Assets & Exploration																
(ND/ND+E)	%	(1.9%)	1.5%	(1.9%)	5.1%	3.9%	0.4%	Exploration		-	-												
EBIT Interest Cover	x	32.3x	38.3x	40.8x	57.5x	67.8x	89.0x	Financial Assets															
Dividend Payout Ratio	%	12.2%	17.7%	9.9%	13.2%	12.3%	10.7%	Cash		71	0.03												
ROA	%	6.1%	4.4%	15.5%	10.8%	11.4%	13.1%	Debt		(208)	(0.09)												
ROE	%	6.6%	4.4%	16.3%	11.1%	11.4%	12.3%	Hedge Book		-	-												
ROIC	%	7.2%	4.6%	19.0%	10.9%	11.4%	12.6%	Corporate Overheads		(97)	(0.04)												
Effective Tax Rate	%	24.3%	29.6%	27.9%	28.0%	28.0%	30.0%	Third Party Volumes		17	0.01												
EBITDA Margin	%	66.7%	57.1%	68.0%	62.8%	66.7%	67.3%	Risked NPV															
EBIT Margin	%	34.0%	26.6%	39.6%	32.0%	33.7%	36.6%	Shareprice Prem/(Disc) to NPV				5,059	2.20										
Free Cash Flow	A\$m	43.1	(49.0)	(36.6)	(63.4)	78.3	171.8	Core NPV per Share (A\$)						1.95									
Balance Sheet							Risked NPV per Share (A\$)																
Cash	A\$m	110	114	110	39	71	143	Unrisked NPV per Share (A\$)						1.52									
Current Assets	A\$m	398	432	398	474	477	538																
Fixed Assets	A\$m	3,708	3,719	3,708	3,981	4,258	4,506																
Total Assets	A\$m	4,215	4,265	4,215	4,493	4,805	5,188																
Current Liabilities	A\$m	456	330	456	348	386	369																
Total Liabilities	A\$m	1,395	1,341	1,395	1,377	1,396	1,359																
Shareholder Equity	A\$m	2,820	2,923	2,820	3,116	3,409	3,829																
Sensitivities (Adjusted Earnings)																							
Oil Price (+US\$1/bbl)	A\$m		1.98		316		398		479														
	delta		0.03		(28)		8		10														
			1.49%		(8.2%)		2.2%		2.1%														
Currency (+1c)	A\$m		1.93		308		380		461														
	delta		(0.03)		(37)		(10)		(9)														
			(1.4%)		(10.7%)		(2.5%)		(1.9%)														
East Coast Gas (+A\$1.00/GJ)	A\$m		2.07		320		417		503														
	delta		0.12		(25)		27		33														
			5.96%		(7.2%)		7.0%		7.1%														

Source: Company Data, Macquarie Research, March 2021

Fig 22 SXY Summary Financials

Senex Energy (SXY-AU)							Price assumptions								
Outperform							2H20a	1H21e	FY20a	FY21e	FY22e	FY23e			
Profit & Loss							US\$/A\$	¢	0.66	0.72	0.67	0.74	0.76	0.75	
Sales Revenue	A\$m	67	50	120	131	188	227	A\$/GJ	8.60	6.65	8.61	7.10	7.11	6.85	
Add Other Income	A\$m	1	0	3	1	4	5	Brent Oil	US\$/bbl	42.31	43.67	51.50	50.86	52.00	55.77
Total Revenue	A\$m	68	50	123	132	193	232	Production							
Less Operating Costs	A\$m	(38)	(25)	(68)	(60)	(82)	(104)	2H20a	1H21e	FY20a	FY21e	FY22e	FY23e		
EBITDAX	A\$m	30	25	55	72	111	128	Natural Gas	PJ	5	8	7	20	29	36
Less Exploration Expensed	A\$m	(1)	-	(3)	-	-	-	Condensate	kbbbls	-	-	-	-	-	-
EBITDA	A\$m	29	25	52	72	111	128	Oil	kbbbls	313	-	685	-	-	-
Less Dep. & Amort.	A\$m	(20)	(14)	(39)	(35)	(35)	(40)	LPG	k tonnes	-	-	-	-	-	-
Less Other Non-Cash Costs	A\$m	0	(1)	0	(1)	-	-	Total Production	kboe	1,199	1,379	1,937	3,391	4,904	6,119
EBIT	A\$m	9	10	13	36	76	88	mmboe							
Less Net Interest	A\$m	(7)	(9)	(9)	(9)	(4)	(1)	FY18a	FY19a	FY20a	FY21e	FY22e	FY24e	FY25e	
Pre-Tax Operating Profit	A\$m	1	1	4	27	72	87	Gas	Crude	Condensate	LPG				
Less Tax Expense (Inc PRRT)	A\$m	-	-	-	-	-	-								
Net Operating Profit	A\$m	1	1	4	27	72	87	Reserves							
Add Significant Items	A\$m	(54)	(1)	(55)	(1)	-	-	Natural Gas	PJ	607.7	588.0	559.5	523.9		
Reported Profit	A\$m	(53)	0	(51)	26	72	87	Liquids	mmbbl	6.8	6.8	6.8	6.8		
Adjusted Profit	A\$m	1	1	4	27	72	87	Total Reserves	mmbbl	110.3	106.9	102.0	95.9		
EPS (Adjusted)							Reserves / Production								
Ac	0.1	0.0	0.26	1.8	5.0	6.0	years	56.9	31.5	20.8	15.7				
EPS Growth	%	(60%)	(42%)	(47%)	599%	171%	20%	EV / 2P Reserves	A\$/boe	4.7	4.8	5.0	5.4		
DPS	Ac	-	1.0	-	1.0	1.9	1.2	EV / 2P Reserves	US\$/boe	3.5	3.6	3.8	4.0		
Franking	%	100%	97%	-	-	-	-	Per bbl Statistics							
EPPOWA (Shares on Issue)	m	1,456	1,456	1,456	1,456	1,456	1,456	Sales Revenue/boe	A\$/boe	36.74	26.3	44.09	25.83	28.55	27.98
Cashflow Analysis							Valuation								
2H20a	1H21e	FY20a	FY21e	FY22e	FY23e		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e			
Cash From Operations	A\$m	80	73	136	149	190	224	EV/EBITDAX	x	17.2x	20.5x	9.3x	7.2x	4.6x	4.0x
Less Operating Costs	A\$m	(41)	(42)	(76)	(70)	(92)	(85)	P/E Ratio	x	483.7 x	828.0 x	134.4x	19.9x	7.3x	6.1x
Less Interest Paid	A\$m	(6)	(7)	(8)	(10)	(4)	(1)	P/CEPS	x	23.7x	34.0x	11.2x	8.5x	5.0x	4.2x
Less Tax Paid	A\$m	-	-	-	-	-	-	FCF Yield	%	nfmf	nfmf	nfmf	16.3%	9.4%	11.2%
Gross Cashflow From Operations	A\$m	33	24	52	69	95	138	Dividend Yield	%	nfmf	2.7%	nfmf	2.7%	5.1%	3.3%
Less Expl. & Eval.	A\$m	(3)	-	-	-	-	-	Price to Book	x	1.7x	1.7x	1.7x	1.7x	1.5x	1.2x
Less Acq./Inv.	A\$m	(71)	(28)	(106)	18	(44)	(79)	NPV @ WACC of 10.2%							
Add Divestment/Other	A\$m	-	-	-	-	-	-	Producing Assets							
Less Dividends	A\$m	-	-	-	(15)	(27)	(17)	Cooper Oil: Growler, Snatcher, Martlet	A\$m	-	-	-	A\$ps	(0.01)	%
Add Equity Movements/Other	A\$m	(2)	(2)	(3)	(2)	-	-	Cooper Oil: Spitfire	-	-	-	-	-	-	-
Add Debt Movements	A\$m	(0)	(15)	75	(75)	(50)	-	Cooper Gas: Vanessa (PEL 182)	-	-	-	-	-	-	-
Net Cashflow	A\$m	(43)	(21)	17	(5)	(27)	42	Cooper Gas: Gamba (PEL 516)	-	-	-	-	-	-	-
Add Exchange Rate Adj.	A\$m	0	(1)	0	(1)	-	-	Developing Assets							
Increase in Cash	A\$m	(43)	(22)	17	(5)	(27)	42	Queensland Gas: WSGP - Roma North	Risked Valuation @ 100%	96	0.07				
Net Debt/(Cash)	A\$m	45	52	45	(24)	(47)	(89)	Queensland Gas: Project Atlas	Risked Valuation @ 100%	501	0.34				
Ratio analysis							Static Assets & Exploration								
2H20a	1H21e	FY20a	FY21e	FY22e	FY23e		Cooper Oil: 2C Upside								
Net Debt / (ND+E)	%	12.7%	14.4%	12.7%	(8.2%)	(14.8%)	(25.7%)	Queensland Gas: WSGP (Other)	Risked Valuation @ 10%	9	0.01				
EBIT Interest Cover	x	1.1 x	1.1 x	1.3 x	2.8 x	19.3 x	84.2 x	Queensland Gas: Don Juan CSG 2P	Risked Valuation @ 0%	-	-				
Dividend Payout Ratio	%	-	2,268.6%	-	54.6%	37.8%	20.0%	Financial Assets							
ROA	%	1.2%	1.5%	1.9%	5.6%	12.4%	12.7%	Cash		125	0.09				
ROE	%	0.4%	0.2%	1.2%	8.3%	19.8%	20.0%	Debt + Hedge Book		(25)	(0.02)				
ROIC	%	1.8%	2.1%	3.1%	11.3%	23.7%	25.5%	Corporate Overheads		(15)	(0.01)				
Effective Tax Rate	%	-	-	-	-	-	-	Risked NPV Per Share (A\$)		691	0.47				
EBITDA Margin	%	43.2%	50.2%	43.6%	54.8%	58.9%	56.6%	Shareprice Prem/(Disc) To NPV				(0.22)			
EBIT Margin	%	12.7%	20.2%	11.0%	27.5%	40.3%	38.8%	Core NPV Per Share (A\$)				0.47			
Free Cash Flow	A\$m	(46.1)	(4.3)	(59.1)	86.6	50.2	59.3	Risked NPV Per Share (A\$)				0.47			
Balance sheet							Sensitivities (Adjusted Earnings)								
2H20a	1H21e	FY20a	FY21e	FY22e	FY23e		NPV	FY21e	FY22e	FY23e					
Cash	A\$m	80	58	80	74	47	89	Oil Price (+US\$/bbl)	A\$m	0.45	17	63	58		
Current Assets	A\$m	37	156	37	161	165	173	delta	(0.02)	13	36	(15)			
Fixed Assets	A\$m	593	469	593	402	402	431	%	(4.4%)	348%	137%	(20%)			
Total Assets	A\$m	710	684	710	638	614	693	Currency (+1c)	A\$m	0.47	16	57	49		
Current Liabilities	A\$m	44	77	44	84	74	93	delta	(0.01)	12	30	(23)			
Total Liabilities	A\$m	399	374	399	317	248	258	%	(1.1%)	309%	113%	(32%)			
Shareholder Equity	A\$m	310	309	310	321	366	436	Financial Assets							
Sensitivities (Adjusted Earnings)							Core NPV Per Share (A\$)								
NPV	FY21e	FY22e	FY23e	Risked NPV Per Share (A\$)											
Oil Price (+US\$/bbl)	A\$m	0.45	17	63	58	Unrisked NPV Per Share (A\$)									
delta	(0.02)	13	36	(15)											
%	(4.4%)	348%	137%	(20%)											
Currency (+1c)	A\$m	0.47	16	57	49										
delta	(0.01)	12	30	(23)											
%	(1.1%)	309%	113%	(32%)											

Source: Company Data, Macquarie Research, March 2021

Fig 24 COE Summary Financials

Macquarie Securities Group							A\$0.33/sh								
Cooper Energy (COE AU)							Neutral								
Profit & Loss							Profit & Loss								
Sales Revenue	A\$m	39	49	78	118	205	264	AUD/USD	x	0.66	0.72	0.67	0.74	0.76	0.75
Add Other Income	"	0	(0)	-	(0)	-	-	Oil Price (Brent)	US\$/bbl	42.31	43.67	51.50	50.86	52.00	55.67
Total Revenue	A\$m	39	49	78	118	205	264	Average Gas Price	A\$/GJ	7.04	6.63	7.53	6.80	7.47	7.63
Less Operating Costs	A\$m	(27)	(39)	(49)	(85)	(109)	(123)	Production							
EBITDAX	A\$m	12	10	30	33	96	142	Gas	PJ	4.9	6.6	8.3	15.8	26.2	33.5
Less Dep. & Amort.	A\$m	(18)	(21)	(26)	(29)	(44)	(73)	Crude	mbbls	91	81	192	156	137	121
Less Exploration Write-off	"	0	(0)	(3)	(1)	(1)	(7)	Condensate	mbbls	1	1	4	2	3	5
Less Other	"	(2)	(2)	(6)	(6)	(8)	(8)	Total Production	mboe	891	1,155	1,550	2,735	4,418	5,579
EBIT	A\$m	(8)	(13)	(6)	(3)	42	54	mmboe							
Less Interest Expense	A\$m	(3)	(5)	(2)	(23)	(42)	(50)	6.00	5.00	4.00	3.00	2.00	1.00	0.00	
Pre-Tax Operating Profit	A\$m	(11)	(18)	(8)	(26)	1	4	FY16a	FY17a	FY18a	FY19a	FY20e	FY21e	FY22e	FY23e
Less Tax Expense	A\$m	1	7	3	7	-	-	■ Gas ■ Crude ■ Condensate							
Less PRRT Expense	"	0	(6)	(2)	(6)	(7)	(37)	Reserves							
Net Operating Profit	A\$m	(9)	(17)	(7)	(26)	(7)	(32)	Gas	PJ	303	287	261	227		
Add Significant Items	A\$m	(88)	(6)	(79)	(6)	-	-	Crude/Condensate	mmbls	2	1	1	1		
Reported Profit	"	(97)	(23)	(86)	(32)	(7)	(32)	Total 2P Reserves	mboe	51	48	44	38		
Underlying Profit	A\$m	(9)	(17)	(7)	(26)	(7)	(32)	Reserve Life	yrs	33.0	17.7	10.0	6.9		
EPS (Underlying)	Acps	(0.3)	(1.1)	(0.4)	(1.6)	(0.4)	(2.0)	Enterprise Value / 2P Reserves	A\$/boe	17.1	16.5	17.9	22.8		
EPS Growth	%	-	-	290%	(75%)	397%	-	Enterprise Value / 2P Reserves	US\$/boe	11.4	12.3	13.6	17.0		
DPS	Acps	-	-	-	-	-	-	Per Barrel Statistics							
Franking	%	-	-	-	-	-	-	Sales Revenue / boe	US\$/boe	28.81	30.71	33.81	32.17	35.11	35.41
EFPOWA Shares on Issue	m	1,627	1,631	1,627	1,631	1,631	1,631	EBIT / boe	"	(2.64)	(7.99)	(2.75)	(0.87)	7.21	7.21
Cash Flow Analysis							Reserves								
Customer Receipts	A\$m	50	53	98	115	192	254	Gas	PJ	303	287	261	227		
Less Operating Costs	"	(28)	(31)	(50)	(79)	(108)	(104)	Crude/Condensate	mmbls	2	1	1	1		
Less Interest Paid	"	(3)	(5)	(2)	(4)	1	1	Total 2P Reserves	mboe	51	48	44	38		
Less Tax Paid	"	-	(7)	4	(8)	(7)	(37)	Reserve Life	yrs	33.0	17.7	10.0	6.9		
Less Other	"	(2)	(3)	(3)	(3)	-	-	Enterprise Value / 2P Reserves	A\$/boe	17.1	16.5	17.9	22.8		
Cash Flow from Operations	A\$m	17	7	48	22	78	115	Enterprise Value / 2P Reserves	US\$/boe	11.4	12.3	13.6	17.0		
Less Development & Exploration	A\$m	(35)	(19)	(80)	(62)	(57)	(98)	Per Barrel Statistics							
Less Acquisition/Divestment	"	-	-	-	-	(90)	-	Sales Revenue / boe	US\$/boe	28.81	30.71	33.81	32.17	35.11	35.41
Less Other	"	(6)	(2)	(12)	(6)	(8)	(11)	EBIT / boe	"	(2.64)	(7.99)	(2.75)	(0.87)	7.21	7.21
Cash Flow from Investing	A\$m	(41)	(21)	(91)	(68)	(65)	(199)	Profit / boe	"	(3.45)	(10.90)	(2.87)	(7.06)	(1.12)	(4.34)
Add Equity Movements	A\$m	-	-	-	-	-	-	Opeex / boe	"	11.29	14.86	11.47	15.92	14.35	12.99
Add Debt Movements	"	5	(1)	10	(1)	49	249	Capex / boe	"	26.12	12.02	34.49	16.75	9.79	13.09
Less Dividends	"	-	-	-	-	-	-	DD&A / boe	"	13.23	12.85	13.46	11.97	13.55	15.08
Cash Flow from Investing	A\$m	5	(1)	10	(1)	49	249	Breakeven Cash Flow / boe	"	52.80	42.26	55.14	41.51	29.25	31.76
Net Cash Flows	A\$m	(19)	(15)	(33)	(47)	62	165	NPV @ WACC of 10.8%							
Add Exchange Rate Adjustment	A\$m	0	(1)	0	(1)	-	-	Producing Assets				A\$m	A\$/sh	%	
Increase in Cash Balance	A\$m	(19)	(16)	(33)	(48)	62	165	Casino/Henry Gas Project	Valuation Risked @ 100%	190	0.12				
Net Debt/(Cash)	A\$m	98	114	98	146	134	220	Cooper Basin (PEL 92)	Valuation Risked @ 100%	13	0.01				
Balance Sheet							Developing Assets								
Cash & Cash Eq.	A\$m	132	115	132	83	145	310	Sole Gas Project	Valuation Risked @ 95%	498	0.31				
Current Assets	"	159	140	159	116	191	366	Manta Gas Project	Valuation Risked @ 5%	14	0.01				
Non-Current Assets	"	871	874	871	1,132	1,067	1,097	Sole PRRT Upside	Valuation Risked @ 0%	-	-				
Total Assets	A\$m	1,030	1,014	1,030	1,248	1,258	1,463	Exploration/Static Assets							
Current Liabilities	A\$m	68	119	68	65	67	86	Exploration	Valuation Risked between 5-15%	-	-				
Non-Current Liabilities	"	611	564	611	859	873	1,090	Financial Assets							
Total Liabilities	A\$m	679	684	679	925	940	1,176	Cash Balance		145	0.09				
Shareholder Equity	A\$m	351	331	351	323	318	287	Debt		(279)	(0.17)				
Ratio Analysis							Hedging Book								
Net Debt/(Net Debt + Equity)	%	22%	26%	22%	31%	30%	43%	Corporate Overheads		(33)	(0.02)				
EBITDA Interest Cover	x	8.2x	1.7x	3.1x	3.3x	12.2x	12.1x	Risked NPV		547	0.34				
EBIT Interest Cover	x	(2.5x)	(2.3x)	(0.7x)	(0.3x)	5.4x	4.8x	Shareprice Prem/(Disc) to NPV		-	(3%)				
Return on Assets (ROA)	%	(0%)	(1%)	(1%)	(0%)	3%	4%	Core NPV per Share (A\$)							
Return on Equity (ROE)	%	(26%)	(7%)	(25%)	(10%)	(2%)	(11%)	Risked NPV per Share (A\$)		0.34					
Return on Invested Capital (ROIC)	%	(1%)	(3%)	(0%)	(2%)	(2%)	(7%)	Unrisked NPV per Share		0.91					
Effective Tax Rate	%	18%	36%	39%	25%	-	-	Valuation							
EBITDA Margin	%	30%	19%	34%	27%	46%	51%	EV/EBITDA	x	55.9x	71.1x	32.9x	24.6x	8.3x	6.5x
EBIT Margin	%	(21%)	(26%)	(8%)	(3%)	21%	20%	Price/Earnings Ratio (P/E)	x	nmf	nmf	nmf	nmf	nmf	nmf
Free Cash Flow	A\$m	(19)	(12)	(32)	(40)	21	(73)	Price/Cash Flow per Share (P/CFPS)	x	39.1x	97.4x	16.1x	30.0x	8.4x	5.7x
Valuation							Sensitivities (Underlying Earnings)								
EV/EBITDA	x	55.9x	71.1x	32.9x	24.6x	8.3x	6.5x	Oil Price (+US\$1/bbl)	A\$m	0.37	18	(20)	(5)		
Price/Earnings Ratio (P/E)	x	nmf	nmf	nmf	nmf	nmf	nmf	Δ		0.04	25	6	1		
Price/Cash Flow per Share (P/CFPS)	x	39.1x	97.4x	16.1x	30.0x	8.4x	5.7x	%		10.6%	375.0%	23.3%	18.3%		
Free Cash Flow Yield (FCF)	%	nmf	nmf	nmf	nmf	51.3%	nmf	Gas Price (+A\$1.00/GJ)	A\$m	0.34	(7)	(26)	(7)		
Dividend Yield	%	-	-	-	-	-	-	Δ		0.00	-	-	-		
Sensitivities (Underlying Earnings)							NPV								
Oil Price (+US\$1/bbl)	A\$m	0.37	18	(20)	(5)	Oil Price (+US\$1/bbl)	A\$m	0.37	18	(20)	(5)				
Δ		0.04	25	6	1	Δ		0.00	-	-	-				
%		10.6%	375.0%	23.3%	18.3%	%		0.6%	-	-	-				
Gas Price (+A\$1.00/GJ)	A\$m	0.34	(7)	(26)	(7)	NPV									
Δ		0.00	-	-	-	Oil Price (+US\$1/bbl)	A\$m	0.37	18	(20)	(5)				
%		0.6%	-	-	-	Δ		0.00	-	-	-				
NPV							Gas Price (+A\$1.00/GJ)								
Oil Price (+US\$1/bbl)	A\$m	0.37	18	(20)	(5)	Gas Price (+A\$1.00/GJ)	A\$m	0.34	(7)	(26)	(7)				
Δ		0.00	-	-	-	Δ		0.00	-	-	-				
%		0.6%	-	-	-	%		0.6%	-	-	-				

Source: Company Data, Macquarie Research, March 2021

Fig 25 CVN Summary Financials

Macquarie Securities Group								Carnarvon Petroleum (CVN AU)								Neutral	
Profit & Loss		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e	Profit & Loss		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e		
Sales Revenue	A\$m	-	-	-	-	-	-	AUD/USD	x	0.66	0.68	0.67	0.74	0.76	0.75		
Add Other Income	"	-	-	-	-	-	-	Oil Price (Brent)	US\$/bbl	42.31	60.69	51.50	50.86	52.00	55.67		
Total Revenue	A\$m	-	-	-	-	-	-	Production									
Less Operating Costs	A\$m	(2)	(3)	(6)	(5)	(10)	(6)	Gas	PJ	-	-	-	-	-	-		
EBITDAX	A\$m	(2)	(3)	(6)	(5)	(10)	(6)	Crude	mbbls	-	-	-	-	-	-		
Less Dep. & Amort.	A\$m	-	-	-	-	-	-	Condensate	mbbls	-	-	-	-	-	-		
Less Exploration Write-off	"	-	-	(1)	(1)	(5)	(1)	Total Production	mboe	-	-	-	-	-	-		
Less Other	"	0	(2)	1	(2)	-	-										
EBIT	A\$m	(2)	(5)	(6)	(8)	(15)	(7)										
Less Interest Expense	A\$m	1	0	2	1	4	3										
Pre-Tax Operating Profit	A\$m	(2)	(4)	(4)	(7)	(10)	(4)										
Less Tax Expense	A\$m	-	-	-	-	-	-										
Less PRRT Expense	A\$m	-	-	-	-	-	-										
Net Operating Profit	A\$m	(2)	(4)	(4)	(7)	(10)	(4)										
Add Significant Items	A\$m	-	-	-	-	-	-										
Reported Profit	"	(2)	(4)	(4)	(7)	(10)	(4)										
Underlying Profit	A\$m	(2)	(4)	(4)	(7)	(10)	(4)										
EPS (Underlying)	Acps	(0.1)	(0.3)	(0.3)	(0.4)	(0.4)	(0.2)										
EPS Growth	%	-	-	46%	57%	5%	(58%)										
DPS	Acps	-	-	-	-	-	-										
Franking	%	-	-	-	-	-	-										
EFPOWA Shares on Issue	m	1,564	1,564	1,560	1,564	2,364	2,364										
Cash Flow Analysis		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e	Reserves		FY20a	FY21e	FY22e	FY23e				
Customer Receipts	A\$m	-	-	-	0	-	-	Gas	PJ	-	-	-	-				
Less Operating Costs	"	(2)	(3)	(6)	(5)	(2)	(6)	Crude/Condensate	mbbls	-	-	-	-				
Less Interest Paid	"	1	0	2	1	4	9	Total 2P Reserves	mboe	-	-	-	-				
Less Tax Paid	"	-	-	-	-	-	-	Gas	bcf	176	176	176	176				
Less Other	"	-	-	-	-	-	-	Crude/Condensate	mbbls	77	77	77	77				
Cash Flow from Operations	A\$m	(1)	(2)	(5)	(4)	3	3	Total 2C Resource	mboe	108	108	108	108				
Less Development & Exploration	A\$m	(6)	(4)	(37)	(10)	(122)	(217)	2P Reserve Life	yrs	-	-	-	-				
Less Acquisition/Divestment	"	(0)	(0)	(0)	(0)	-	-	Enterprise Value / 2C Reserves	A\$/boe	3.5	3.1	4.5	6.5				
Less Other	"	1	-	2	-	-	(5)	Enterprise Value / 2C Reserves	US\$/boe	2.4	2.3	3.4	4.9				
Cash Flow from Investing	A\$m	(5)	(4)	(35)	(10)	(122)	(222)	Per Barrel Statistics		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e		
Add Equity Movements	A\$m	0	1	79	1	197	-	Sales Revenue / boe	US\$/boe	-	-	-	-	-	-		
Add Debt Movements	"	(0)	(0)	(0)	(0)	150	150	EBIT / boe	"	-	-	-	-	-	-		
Less Dividends	"	-	-	-	-	-	-	Profit / boe	"	-	-	-	-	-	-		
Cash Flow from Investing	A\$m	(0)	0	79	0	347	150	Opex / boe	"	-	-	-	-	-	-		
Net Cash Flows	A\$m	(6)	(6)	39	(13)	228	(70)	Capex / boe	"	-	-	-	-	-	-		
Add Exchange Rate Adjustment	A\$m	0	(2)	1	(2)	-	-	DD&A / boe	"	-	-	-	-	-	-		
Increase in Cash Balance	A\$m	(5)	(8)	40	(15)	228	(70)	Break-even Cash Flow / boe	"	-	-	-	-	-	-		
Net Debt/(Cash)	A\$m	(114)	(106)	(114)	(99)	(177)	43	NPV @ WACC of 12.2%									
Balance Sheet		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e	Developing Assets		A\$m		A\$/sh					
Cash & Cash Eq.	A\$m	114	106	114	99	327	257	Bedout Basin - Dorado (Oil)	Valuation Risked @ 89%	466	0.19						
Current Assets	"	115	107	115	99	327	257	Browse Basin - Buffalo (Oil)	Valuation Risked @ 40%	89	0.04						
Non-Current Assets	"	125	128	125	134	251	466	Exploration/Static Assets									
Total Assets	A\$m	239	235	239	233	578	724	Exploration	Valuation Risked between 5-15%	42	0.02						
Current Liabilities	A\$m	2	1	2	1	10	10	Financial Assets									
Non-Current Liabilities	"	1	1	1	1	151	301	Cash Balance		140	0.06						
Total Liabilities	A\$m	3	2	3	2	161	311	Debt		-	-						
Shareholder Equity	A\$m	237	233	237	231	417	413	Hedging Book		-	-						
Ratio Analysis		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e	Corporate Overheads		(3)	(0.00)						
Net Debt/(Net Debt + Equity)	%	(92%)	(83%)	(92%)	(75%)	(73%)	9%	Risked NPV		736	0.30						
EBITDA Interest Cover	x	nmf	nmf	nmf	nmf	nmf	(5.9x)	Shareprice Prem/(Disc) to NPV		-	-		(8%)				
EBIT Interest Cover	x	nmf	nmf	nmf	nmf	nmf	1.4x	Core NPV per Share (A\$)			0.25						
Return on Assets (ROA)	%	(1%)	(2%)	(2%)	(3%)	(3%)	(1%)	Risked NPV per Share (A\$)			0.30						
Return on Equity (ROE)	%	(1%)	(2%)	(2%)	(3%)	(2%)	(1%)	Unrisked NPV per Share			0.69						
Return on Invested Capital (ROIC)	%	(0%)	(1%)	(1%)	(2%)	(2%)	(0%)	Valuation									
Effective Tax Rate	%	-	-	-	-	-	-	EV/EBITDA	x	nmf	nmf	nmf	nmf	nmf	nmf		
EBITDA Margin	%	-	-	-	-	-	-	Price/Earnings Ratio (P/E)	x	nmf	nmf	nmf	nmf	nmf	nmf		
EBIT Margin	%	-	-	-	-	-	-	Price/Cash Flow per Share (P/CFPS)	x	nmf	nmf	nmf	nmf	235.4x	262.9x		
Free Cash Flow	A\$m	(7)	(7)	(42)	(14)	(119)	(214)	Free Cash Flow Yield (FCF)	%	nmf	nmf	nmf	nmf	nmf	nmf		
Valuation		2H20a	1H21e	FY20a	FY21e	FY22e	FY23e	Sensitivities (Underlying Earnings)		NPV	FY20a	FY21e	FY22e				
EV/EBITDA	x	nmf	nmf	nmf	nmf	nmf	nmf	Oil Price (+US\$1/bbl)	A\$m	0.37	(4)	(7)	(8)				
Price/Earnings Ratio (P/E)	x	nmf	nmf	nmf	nmf	nmf	nmf		Δ	0.06	-	(0)	3				
Price/Cash Flow per Share (P/CFPS)	x	nmf	nmf	nmf	nmf	nmf	235.4x		%	20.9%	-	(4.2%)	24.9%				
Free Cash Flow Yield (FCF)	%	nmf	nmf	nmf	nmf	nmf	nmf										
Dividend Yield	%	-	-	-	-	-	-										

Source: Company Data, Macquarie Research, March 2021

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Recommendation definitions	Volatility index definition*	Financial definitions		
<p>Macquarie – Asia and USA Outperform – expected return >10% Neutral – expected return from -10% to +10% Underperform – expected return <-10%</p> <p>Macquarie – Australia/New Zealand Outperform – expected return >10% Neutral – expected return from 0% to 10% Underperform – expected return <0%</p> <p>Note: expected return is reflective of a Medium Volatility stock and should be assumed to adjust proportionately with volatility risk</p>	<p>Volatility index definition* This is calculated from the volatility of historical price movements.</p> <p>Very high–highest risk – Stock should be expected to move up or down 60–100% in a year – investors should be aware this stock is highly speculative.</p> <p>High – stock should be expected to move up or down at least 40–60% in a year – investors should be aware this stock could be speculative.</p> <p>Medium – stock should be expected to move up or down at least 30–40% in a year.</p> <p>Low–medium – stock should be expected to move up or down at least 25–30% in a year.</p> <p>Low – stock should be expected to move up or down at least 15–25% in a year. * Applicable to select stocks in Asia/Australia/NZ</p> <p>Recommendations – 12 months Note: Quant recommendations may differ from Fundamental Analyst recommendations</p>	<p>Financial definitions All "Adjusted" data items have had the following adjustments made: Added back: goodwill amortisation, provision for catastrophe reserves, IFRS derivatives & hedging, IFRS impairments & IFRS interest expense Excluded: non recurring items, asset revals, property revals, appraisal value uplift, preference dividends & minority interests</p> <p>EPS = adjusted net profit / epowa* ROA = adjusted ebit / average total assets ROA Banks/Insurance = adjusted net profit / average total assets ROE = adjusted net profit / average shareholders funds Gross cashflow = adjusted net profit + depreciation *equivalent fully paid ordinary weighted average number of shares</p> <p>All Reported numbers for Australian/NZ listed stocks are modelled under IFRS (International Financial Reporting Standards).</p>		
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