



Empire Energy Group Limited

"Discovery" - it's a gas, gas, gas (liquids) at Carpentaria-1

Empire Energy Group Limited (ASX:EEG) is a junior oil and gas producer and explorer with onshore Northern Territory (NT) and US oil and gas assets. EEG holds the largest acreage position (28.9m acres) in the highly prospective Greater McArthur Basin, which includes the Beetaloo Sub-basin. After a material uplift in its 2C/2U gas/liquids resource base, from the 100% buyout of the Pangaea-EMG JV Beetaloo tenements for ~\$57m (@30cps), 2C Contingent Resources now lie @ 199Bcf gas/3.5mmbbls liquids. The NT region is fast developing as a gas-liquids rich strategic bolster for east coast Australia's future energy needs plus Darwin's expanding LNG export terminals, amid strong policy support from both Territory and Federal governments. EEG has lodged a gas Discovery Notice with the NT government from its Carpentaria-1 well, after yielding an instant peak flow rate to surface of >1.6 mmscf/day and stabilised flow rates of 0.37mmscf/day over 72-hours from the vertical fracture stimulation of 4-stacked Velkerri shale targets, with CO2 levels <1%. This is a positive early sign for the business development case for Carpentaria-1.

Business model

Empire Energy Group (EEG) is a junior oil and gas producer/exploration company, focused on maturing its portfolio of onshore, long-life oil and gas fields. The company is the 2nd largest conventional gas producer in the US NY State and holds substantial exploration acreage (28.9m acres) in Australia's Northern Territory, McArthur-Beetaloo basins, considered world-class. EEG will be looking to generate commercial gas flow rates to underpin reserves bookings and support an early development opportunity. Success could see first cash flow within 24-36 months (RaaS estimate), assisted by liquids "credits", assuming existing pipeline infrastructure links and upgrades are delivered in parallel; supported by generous Federal government "Basin Strategic Plan" funding.

Hydrocarbon Discovery validates Beetaloo south-east address

EEG has lodged a gas Discovery Notice with the Northern Territory government, following strong hydrocarbon flows to surface (0.37mmscf/day over 72hrs) from the vertical fracture stimulation of the stacked Velkerri A, A+B, B and C, gas-rich target shales of its Carpentaria-1 well on EP187, comparable to other Beetaloo Sub-basin well results and at shallower depths. Better still, CO2 levels are below 1%. The results add further weight to EEG's strategy of generating positive future cashflows from horizontal wells on its south-eastern Beetaloo property. The next steps are to complete a 90-day extended test, evaluate the proportionate contribution from each frack zone and determine the relative gas/liquids composition, in preparation for its upcoming horizontal programme. Overhanging this positive development has been the move in the Federal Senate to initiate an inquiry into the economic, social and environmental consequences, including groundwater and aquifer systems, of future Beetaloo developments. This inquiry will be chaired by the Greens. We note that the Federal Government has no jurisdiction over the regulation of the Beetaloo sub-basin; that is the province of the Northern Territory Government which has given bi-partisan support to the development of the Beetaloo.

Valuation is \$0.98/share or \$608m

Our valuation range for EEG is \$385m to \$728m or \$0.62-\$1.17/share with \$608m or \$0.98/share being the mid-point. With several event drivers emerging over the next 6-12 months, there is the potential for further uplifts to the valuation.

Historical	earnings ar	nd RaaS Adv	isory estima	tes		
Year end	Revenue (A\$m)	Gross Profit (A\$m)	NPAT reported (A\$m)	OCFPS (AUD cps)	EPS Adj (AUD cps)	Price/Book (x)
12/19a	7.8	1.7	(17.3)	0.69	(9.31)	4.3
12/20a	6.5	1.2	(7.7)	(0.61)	(2.73)	2.4
12/21e	6.4	1.6	(5.1)	(0.11)	(0.83)	1.8
12/22e	6.6	1.7	(4.8)	(80.0)	(0.77)	1.8

Source: Company data, RaaS estimates for FY21e and FY22e

Energy exploration & production

29th June 2021



Share performance (12 months)



Upside Case

- EEG's Carpentaria-1 Velkerri shale production/ seismic program creates strong commercial gas/liquids business development case
- Further McArthur-Beetaloo work programs generate significant commercial outcomes
- EEG drilling success generates high-value LT strategic partnership(s) and funding options

Downside Case

- Beetaloo flow rates prove uncommercial, negatively impacting regional permit values
- Equity issue financing becomes highly dilutive to future share capital growth
- Fracking success in NT/Qld pushes onshore energy prices to sub-economic levels.

Board of Directors

Alex Underwood Managing Director/CEO
Paul Espie AO Non-Executive Chairman
Dr John Warburton Non-Executive Director
Peter Cleary Non-Executive Director
Louis Rozman Non-Executive Director

Company contacts

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*The analyst holds shares



Exhibit 1: Financial Summary

EMPIRE ENERGY GF	ROUP LTD	EEG				nm = not meaningful						
YEAR END		Dec				na = not applicable						
NAV	A\$mn	611				***						
SHARE PRICE	A\$cps		riced as of cl	ose trading	28-Jun							
MARKET CAP	A\$mn	202										
ORDINARY SHARES	M	620										
OPTIONS	M	57										
PROFIT & LOSS	A\$000s	2019	2020	2021E	2022E	COMMODITY ASSUM		S\$/b	2019 59.76	2020	2021E	2022
Revenue		7,763	6,464	6,375	6,561	Realised oil price				39.48	59.48	56.
Cost of sales		(6,026)	(5,266)	(4,725)	(4,885)	Realised gas price		S\$/mcf	2.44	1.96	2.71	2.0
Gross Profit		1,737	1,198	1,650	1,676	Exchange Rate		\$:US\$	0.6958	0.6989	0.7644	0.76
Other revenue						RESOURCES and RES			_		sumed post	transactio
Other income		224	1,039	262	262	Conting	ent Resou			ctive Resou		
Exploration written off							1C	2C	3C	1U	2U	3U
Finance costs		(916)	(755)	(747)	(730)	Northern Territory						
Impairment		(1,677)	0	0	(2,465)	Gas (Bcf)	58.1	198.5	501.9	11,979	42,124	138,006
Other expenses		(18,806)	(8,682)	(6,749)	(6,460)	Liquids (Mb)	1.0	3.5	14.2	169	792	3,608
EBIT		(13,783)	(7,013)	(3,868)	(1,121)							
Profit before tax		(17,069)	(7,485)	(5,100)	(4,784)							
Taxes		(194)	(200)	0	0	TOTAL (Mboe)	10.6	36.6	97.8	2,165	7,813	26,609
NPAT Reported		(17,263)	(7,684)	(5,100)	(4,784)	***************************************						
Underlying Adjustments		(5,971)	0	0	0	US Onshore						
NPAT Underlying		(23,234)	(7,684)	(5,100)	(4,784)		1P	2P	3P			
CASHFLOW	A\$000s	2019	2020	2021E	2022E	Gas (Bcf)	24	34	38			
Operational Cash Flow	N	1,822	(1,970)	569	618	0		Mb	24	62		
Net Interest		(2,712)	(755)	(571)	(556)	0		Mb	24	47		
Taxes Paid		(194)	(200)	(50)	(100)	TOTAL (Mboe)			86	109		
Other												
Net Operating Cashflo	ow	(1,084)	(2,924)	(51)	(38)			~~~~	2P	3P		
Exploration		0	(856)	0	0	US						
PP&E		0	(12)	0	(133)	Gas		Bcf	34.4	38.2		
Petroleum Assets		(2,658)	(12,841)	(6,061)	0							
Net Asset Sales/other		27,698	0	0	0	***************************************						
Net Investing Cashflo	w	25,040	(12,841)	(18,388)	(10,000)	EQUITY VALUATION						
Dividends Paid							Low	Mid	High	Low	Mid	Hi
Net Debt Drawdown		(26,943)	(1,845)	(1,170)	(1,222)	NT			-			
Equity Issues/(Buyback)		11,562	17,640	35,240	153	Contingent	\$149	\$186	\$214	\$0.24	\$0.30	\$0.
Other		, -		, -		Prospective	\$218	\$398	\$485	\$0.35	\$0.64	\$0.
						riospective						
Net Financing Cashflo	 W	(15,381)	15.795	33.320	(1,069)							
)W	(15,381) 8,575	15,795 29	33,320 14,881	(1,069)	US Onshore	\$5	\$10	\$15	\$0.01	\$0.02	ŚO.
Net Change in Cash		8,575	29	14,881	(11,107)							
Net Change in Cash BALANCE SHEET	A\$000s	8,575 2019	29 2020	14,881 2021E	(11,107) 2022E	US Onshore Appalachian	\$371	\$594	\$714	\$0.01 \$0.60	\$0.02 \$0.96	
Net Financing Cashflo Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties		8,575 2019 14,106	29 2020 14,146	14,881 2021E 29,027	(11,107) 2022E 17,920	US Onshore Appalachian Net Cash (Debt)	\$371 \$22	\$594 \$22	\$714 \$22			
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties		8,575 2019 14,106 37,505	29 2020 14,146 46,442	14,881 2021E 29,027 125,485	(11,107) 2022E 17,920 135,748	US Onshore Appalachian Net Cash (Debt) Corporate Costs	\$371 \$22 -\$5	\$594 \$22 -\$5	\$714 \$22 -\$5	\$0.60	\$0.96	\$1.
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets		8,575 2019 14,106 37,505 711	29 2020 14,146 46,442 1,716	14,881 2021E 29,027 125,485 1,198	(11,107) 2022E 17,920 135,748 1,181	US Onshore Appalachian Net Cash (Debt)	\$371 \$22	\$594 \$22	\$714 \$22			\$1.:
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets		8,575 2019 14,106 37,505 711 56,594	29 2020 14,146 46,442 1,716 66,563	14,881 2021E 29,027 125,485 1,198 156,588	(11,107) 2022E 17,920 135,748 1,181 155,484	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL	\$371 \$22 -\$5 \$388	\$594 \$22 -\$5 \$611	\$714 \$22 -\$5	\$0.60	\$0.96	\$1.:
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt		8,575 2019 14,106 37,505 711 56,594 9,251	29 2020 14,146 46,442 1,716 66,563 7,824	14,881 2021E 29,027 125,485 1,198 156,588 7,826	11,107) 2022E 17,920 135,748 1,181 155,484 7,104	US Onshore Appalachian Net Cash (Debt) Corporate Costs	\$371 \$22 -\$5	\$594 \$22 -\$5 \$611	\$714 \$22 -\$5	\$0.60	\$0.96	\$1.:
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt Total Liabilities	A\$000s	8,575 2019 14,106 37,505 711 56,594 9,251 37,089	29 2020 14,146 46,442 1,716 66,563 7,824 36,327	14,881 2021E 29,027 125,485 1,198 156,588 7,826 45,113	11,107) 2022E 17,920 135,748 1,181 155,484 7,104 45,461	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL Shares on Issue	\$371 \$22 -\$5 \$388	\$594 \$22 -\$5 \$611	\$714 \$22 -\$5 \$731	\$0.60	\$0.96	\$1.: \$1.:
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt Total Liabilities Total Net Assets/Equi	A\$000s	8,575 2019 14,106 37,505 711 56,594 9,251 37,089 19,505	29 2020 14,146 46,442 1,716 66,563 7,824 36,327 30,236	14,881 2021E 29,027 125,485 1,198 156,588 7,826 45,113 111,475	11,107) 2022E 17,920 135,748 1,181 155,484 7,104 45,461 110,023	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL Shares on Issue RATIO ANALYSIS	\$371 \$22 -\$5 \$388 620 m	\$594 \$22 -\$5 \$611	\$714 \$22 -\$5 \$731 2019	\$0.60 \$0.63 2020	\$0.96 \$0.98 2021E	\$1. \$1.
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt Total Liabilities	A\$000s	8,575 2019 14,106 37,505 711 56,594 9,251 37,089	29 2020 14,146 46,442 1,716 66,563 7,824 36,327	14,881 2021E 29,027 125,485 1,198 156,588 7,826 45,113	11,107) 2022E 17,920 135,748 1,181 155,484 7,104 45,461	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL Shares on Issue RATIO ANALYSIS Shares Outstanding	\$371 \$22 -\$5 \$388 620 m	\$594 \$22 -\$5 \$611	\$714 \$22 -\$5 \$731	\$0.60	\$0.96 \$0.98 2021E 618	\$1. \$1. 202
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt Total Liabilities Total Net Assets/Equi Net Cash/(Debt)	A\$000s	8,575 2019 14,106 37,505 711 56,594 9,251 37,089 19,505 4,855	29 2020 14,146 46,442 1,716 66,563 7,824 36,327 30,236 6,322	14,881 2021E 29,027 125,485 1,198 156,588 7,826 45,113 111,475 21,201	(11,107) 2022E 17,920 135,748 1,181 155,484 7,104 45,461 110,023 10,816	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL Shares on Issue RATIO ANALYSIS Shares Outstanding EPS (pre sig items)	\$371 \$22 -\$5 \$388 620 m	\$594 \$22 -\$5 \$611 n	\$714 \$22 -\$5 \$731 2019 263	\$0.60 \$0.63 2020 324	\$0.98 \$0.98 2021E 618 (0.83)	\$1.: \$1.: 202: 6 (0.:
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Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt Total Liabilities Total Net Assets/Equi Net Cash/(Debt) NET PRODUCTION Crude Oil Nat Gas TOTAL Product Revenue Cash Costs Ave Price Realised	kb mmcf kboe A\$mn A\$mn A\$/boe	8,575 2019 14,106 37,505 711 56,594 9,251 37,089 19,505 4,855 2019 89 1,778 385 7.8 (6.0) 20.16	29 2020 14,146 46,442 1,716 66,563 7,824 36,327 30,236 6,322 2020 2 1,630 273 6.5 (5.3) 23.64	14,881 2021E 29,027 125,485 1,198 156,588 7,826 45,113 111,475 21,201 2021E 2 1,679 282 6.4 (4.7) 22.64	(11,107) 2022E 17,920 135,748 1,181 155,484 7,104 45,461 110,023 10,816 2022E 2 1,729 290 6.6 (4.9) 22.64	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL Shares on Issue RATIO ANALYSIS Shares Outstanding EPS (pre sig items) EPS PER OCFPS CFR BVPS Price/Book ROE ROA	\$371 \$22 -\$5 \$388 620 m U Au Au X X Au X X %	\$594 \$22 -\$5 \$611 n	\$714 \$22 -\$5 \$731 2019 263 (9.31) 0.69 7.5 4.3x	\$0.60 \$0.63 2020 324 (2.73) (0.61) 13.4 2.4x	\$0.98 \$0.98 \$0.98 618 (0.83) (0.83) na (0.11) na 18.0 1.8x na	\$1. \$1. 202 6 (0. (0. 1
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt Total Liabilities Total Net Assets/Equi Net Cash/(Debt) NET PRODUCTION Crude Oil Nat Gas TOTAL Product Revenue Cash Costs Ave Price Realised Cash Costs	kb mmcf kboe ASmn ASmn	8,575 2019 14,106 37,505 711 56,594 9,251 37,089 19,505 4,855 2019 89 1,778 385 7.8 (6.0) 20.16 (15.65)	29 2020 14,146 46,442 1,716 66,563 7,824 36,327 30,236 6,322 2020 2 1,630 273 6.5 (5.3) 23,64 (19,26)	14,881 2021E 29,027 125,485 1,198 156,588 7,826 45,113 111,475 21,201 2021E 2 1,679 282 6.4 (4.7) 22.64 (16.78)	(11,107) 2022E 17,920 135,748 1,181 155,484 7,104 45,461 110,023 10,816 2022E 2 1,729 290 6.6 (4.9) 22.64 (16.86)	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL Shares on Issue RATIO ANALYSIS Shares Outstanding EPS (pre sig items) EPS PER OCFPS CCFR BVPS Price/Book ROE ROA Gross Profit/share	\$371 \$22 -\$5 \$388 620 m U AA X AA X AA AA AA AA AA	\$594 \$22 -\$5 \$611 n	\$714 \$22 -\$5 \$731 2019 263 (9.31) 0.69 7.5 4.3x	\$0.60 \$0.63 2020 324 (2.73) (0.61) 13.4 2.4x	\$0.98 \$0.98 \$0.98 618 (0.83) (0.83) na (0.11) na 18.0 1.8x na na 2.7	\$1 \$1 \$1 6 (0.7 (0.7 (0.6 1 1
Net Change in Cash BALANCE SHEET Cash & Equivalents O&G Properties PPE + ROU Assets Total Assets Debt Total Llabilities Total Net Assets/Equi Net Cash/(Debt) NET PRODUCTION Crude Oil Nat Gas TOTAL Product Revenue Cash Costs	kb mmcf kboe A\$mn A\$mn A\$/boe	8,575 2019 14,106 37,505 711 56,594 9,251 37,089 19,505 4,855 2019 89 1,778 385 7.8 (6.0) 20.16	29 2020 14,146 46,442 1,716 66,563 7,824 36,327 30,236 6,322 2020 2 1,630 273 6.5 (5.3) 23.64	14,881 2021E 29,027 125,485 1,198 156,588 7,826 45,113 111,475 21,201 2021E 2 1,679 282 6.4 (4.7) 22.64	(11,107) 2022E 17,920 135,748 1,181 155,484 7,104 45,461 110,023 10,816 2022E 2 1,729 290 6.6 (4.9) 22.64	US Onshore Appalachian Net Cash (Debt) Corporate Costs TOTAL Shares on Issue RATIO ANALYSIS Shares Outstanding EPS (pre sig items) EPS PER OCFPS CFR BVPS Price/Book ROE ROA	\$371 \$22 -\$5 \$388 620 m U AA X AA X AA AA AA AA AA	\$594 \$22 -\$5 \$611 n	\$714 \$22 -\$5 \$731 2019 263 (9.31) 0.69 7.5 4.3x	\$0.60 \$0.63 2020 324 (2.73) (0.61) 13.4 2.4x	\$0.98 \$0.98 \$0.98 618 (0.83) (0.83) na (0.11) na 18.0 1.8x na	\$0.0 \$1.1 \$1.1 \$1.1 \$1.1 \$1.1 \$1.1 \$1.1

Source: RaaS Advisory



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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