



Empire Energy Group Limited

Liquids-Rich Gas in the offing for Beetaloo-Carp 1 region

Empire Energy Group Limited (ASX:EEG) is a junior oil and gas producer/explorer, with onshore Northern Territory (NT) and US oil/gas assets. EEG has the largest tenement position (28.9m acres) in the highly prospective Greater McArthur Basin, which includes the Beetaloo Sub-basin. The material uplift in EEG's 2C/2U gas/liquids resource base, after the purchase of the Pangaea-EMG JV Beetaloo Sub-Basin acreage lifts stated 2C Contingent Resources to 199Bcf gas/3.5mmbbls liquids, with significant upside potential. The NT energy basins are fast developing as liquids rich gas, strategic bolsters for east coast Australia's future energy needs, and potential supply for Darwin's expanding LNG export terminals, amid strong policy/funding support from Territory and Federal governments. EEG recently lodged a gas Discovery Notice from its EP187 Carpentaria-1 well, after yielding an instantaneous peak flow rate of >1.6 mmscf/day from the stacked Velkerri target shales, with strong, above expectation liquids content. EEG has been awarded up to \$21m in Federal grants, supporting up to three horizontal appraisal wells (25% total costs, including seismic) to advance Beetaloo commercial evaluation.

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 holds substantial exploration acreage (28.9m acres) in the world-class, McArthur-Beetaloo basins Northern Territory). EEG is looking to progress evaluation activity to support reserve bookings and underpin early gas development opportunities. Success could see first cash flow within 24-36 months (RaaS estimate), assisted by LPG liquid "credits", assuming existing pipeline infrastructure links and upgrades are delivered in parallel; supported by Federal government "Strategic Plan" infrastructure funds and EEG drilling grants of up to \$21m.

Liquids-rich gas results progress EEG's LPG business case

EEG has released very encouraging follow-up flow test results from Carpentaria-1, importantly demonstrating a high LPG content (21% of the raw gas stream). The relative zonal contributions from each of the target shale zones (A, Intra A/B, B and C) also support a high confidence level of potentially commercial prospectivity across the entire Velkerri section. Strong gas contributions were reported from both the B and C Velkerri zones, with Intra A/B also exhibiting >20% output. Although noting this is one data point, the liquids content is well above our expectation and offers significant commercial optionality for EEG. A recent Senate Inquiry has upheld the Federal Government's Beetaloo Cooperative Drilling Program aiming to accelerate regional energy developments. Next steps: a) Complete Carpentaria-1 test work (targeting late-September; b) complete regional infill 2D seismic acquisition; c) commence Carpentaria-2 horizontal multi-stage appraisal. The company is well-funded with gross cash ~A\$28m on-hand as at 27-Aug.

Our midpoint valuation is \$1.04/share (\$622m)

Our valuation range for EEG is \$400m-\$738m (\$0.64-\$1.19/share), with \$622m or \$1.04/share the mid-point. With several event drivers emerging over the next 6-12 months, there is the potential for further uplift to the valuation.

Historical	Historical earnings and RaaS Advisory estimates									
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)	3.9				
12/20a	6.5	1.2	(7.7)	(0.61)	(2.73)	2.2				
12/21e	7.5	2.8	(4.4)	(0.19)	(0.70)	1.6				
12/22e	7.6	2.8	(3.7)	0.09	(0.59)	1.6				

Source: Company data, RaaS estimates for FY21e and FY22e

Energy exploration & production

30th August 2021



Share performance (12 months)



Upside Case

- EEG's EP187 Velkerri shale work programs generate substantial Beetaloo energy (gas/liquids) business case
- Further McArthur-Beetaloo work programs generate significant commercial outcomes
- EEG drilling success generates high-value LT strategic partnership(s) & funding options

Downside Case

- Beetaloo flow rates prove uncommercial, negatively impacting 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
Paul Fudge	Non-Executive Director

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*The analyst holds shares



Exhibit 1: Financial Summary

EMPIRE ENERGY GRO	UP LTD	EEG				nm = not meaningful						
YEAR END		Dec				na = not applicable						
NAV /	\\$mn	622										
SHARE PRICE A\$cps		0.29 p	riced as of cl	ose trading	27-Aug							
MARKET CAP	\\$mn	173										
ORDINARY SHARES I	V	597										
OPTIONS I	V	57										
PROFIT & LOSS	A\$000s	2019	2020	2021E	2022E	COMMODITY ASSUM	IPTIONS		2019	2020	2021E	2022
Revenue		7,763	6,464	7,460	7,637	Realised oil price		S\$/b	59.76	39.48	67.00	66.3
Cost of sales		(6,026)	(5,266)	(4,684)	(4,831)	Realised gas price		S\$/mcf	2.44	1.96	3.26	3.1
Gross Profit		1,737	1,198	2,776	2,806	Exchange Rate		\$:US\$	0.6958	0.6989	0.7603	0.750
Other revenue						RESOURCES and RES	ERVES			as	sumed post 1	ransactio
Other income		224	1,039	263	267	Conting	ent Resou	rces	Prospe	ctive Resou	rces	
Exploration written off							1C	2C	3C	1U	2U	3U
Finance costs		(916)	(755)	(808)	(790)	Northern Territory	~~~~~~~~~					
Impairment		(1,677)	0	0	(2,505)	Gas (Bcf)	58.1	198.5	501.9	11,979	42,124	138,006
Other expenses		(18,806)	(8,682)	(7,133)	(6,502)	Liquids (Mb)	1.0	3.5	14.2	169	792	3,608
EBIT		(13,783)	(7,013)	(3,004)	122							
Profit before tax		(17,069)	(7,485)	(4,357)	(3,696)							
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)	(4,357)	(3,696)	***************************************						
Underlying Adjustments		(5,971)	0	0	0	US Onshore	1P	2P	3P			
NPAT Underlying		(23,234)	(7,684)	(4,357)	(3,696)	Gas (Bcf)	24	34	38			
CASHFLOW	A\$000s	2019	2020	2021E	2022E							
Operational Cash Flow		1,822	(1,970)	573	735							
Net Interest		(2,712)	(755)	(614)	(593)	PRODUCTION						
Taxes Paid		(194)	(200)	(50)	(100)	Year end Dec			2019	2020	2021E	2022E
Other						Crude oil		kboe	89	2	2	2
Net Operating Cashflow		(1,084)	(2,924)	(92)	42	Natural Gas	mmcf		1778	1630	1646	1663
Exploration		0	(856)	0	0	Total	kboe		385	273	276	279
PP&E		0	(12)	0	(133)							
Petroleum Assets		(2,658)	(12,841)	0	0							
Net Asset Sales/other		27,698	0	0	0	EQUITY VALUATION						
Net Investing Cashflow		25,040	(12,841)	(18,390)	(10,000)		Low	Mid	High	Low	Mid	Hig
Dividends Paid			/	/=>		NT		4				
Net Debt Drawdown		(26,943)	(1,845)	(723)	(1,233)	Contingent	\$153	\$191	\$220	\$0.26	\$0.32	\$0.3
Equity Issues/(Buyback)		11,562	17,640	36,782	153	Prospective	\$223	\$402	\$485	\$0.37	\$0.67	\$0.8
Other						US Onshore						
Net Financing Cashflow		(15,381)	15,795	35,309	(1,080)	Appalachian	\$5	\$10	\$15	\$0.01	\$0.02	\$0.0
Net Change in Cash		8,575	29	16,827	(11,038)		\$381	\$603	\$720	\$0.64	\$1.01	\$1.2
	A\$000s	2019	2020	2021E	2022E	Net Cash (Debt)	\$23	\$23	\$23			
Cash & Equivalents		14,106	14,146	30,973	19,935	Corporate Costs	-\$5	-\$5	-\$5			
O&G Properties		37,505	46,442	125,488	135,755	TOTAL	\$400	\$622	\$738	\$0.67	\$1.04	\$1.2
PPE + ROU Assets		711	1,716	1,199	1,181	Charac on J	F07					
Total Assets		56,594	66,563	158,648	157,613	Shares on Issue	597 m	111				
Debt Tatal Liabilities		9,251	7,824	8,284	7,551	DATIO ANALYCIC			2010	2020	20245	2022
Total Liabilities		37,089	36,327	45,537	45,857	RATIO ANALYSIS		1	2019 263	2020 324	2021E	
Total Net Assets/Equity		19,505	30,236	113,112	111,757	Shares Outstanding	M UScps		263	324	(0.70)	62
Net Cash/(Debt)		4,855	6,322	22,689	12,384	EPS (pre sig items) EPS			(9.31)	(2 72)	(0.70)	(0.5
NET PRODUCTION		2019	2020	2021E	2022E	PER		cps	(3.31)	(2.73)		(0.5
		2019 89		2021E		OCFPS	Acps		0.69	(0.61)	(0.19)	0.0
Crude Oil Nat Gas	mmcf	1,778	1,630	1,646	1,663	CFR	X		U.69	(0.61)	(0.19) na	0.0 r
			273						7.	12.4		
TOTAL	kboe	385	2/3	276	279	BVPS Brice/Rook		cps	7.5	13.4	18.2	18
Dradust Davar:-	A Č no r	7.0		7.	7.0	Price/Book	x %		3.9x	2.2x	1.6x	1.0
Product Revenue	A\$mn	7.8	6.5	7.5	7.6	ROE					na na	1
Cash Costs	A\$mn	(6.0)	(5.3)	(4.7)	(4.8)	ROA	% Acps				na 4 F	
Ave Price Realised	A\$/boe	20.16	23.64	27.02	27.40	Gross Profit/share			6.6	3.7	4.5	4
Cash Costs	A\$/boe	(15.65)	(19.26)	(16.96)	(17.33)	EBITDAX		\$M	2.7	2.9	3.7	3
Cash Manair												
Cash Margin		4.51	4.38	10.05	10.07	EBITDAX Ratio	%		34.2%	44.6%	49.3%	48.5

Source: RaaS Advisory



FINANCIAL SERVICES GUIDE

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Corporate Authorised Representative, number 1248415

of

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

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 - Securities

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