



Empire Energy Group Limited

Carpentaria-1 successfully flows gas to surface

Empire Energy Group Limited (ASX:EEG) is a junior oil and gas producer and explorer with onshore Northern Territory (NT) and US oil & 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, with 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. The company has reported that its Carpentaria-1 well in EP187 has successfully flowed gas to surface during the clean-up operations post the completion of the fracture stimulation campaign. EEG commenced vertical fracture stimulation of four stacked shale targets within the Velkerri Formation earlier this month. Initial flow-back of fluids pumped into the C Shale yielded gas at surface in the first hours of flow-back with gas contribution steadily increasing through the initial flow-back period. This is a positive early sign for the business development case for Carpentaria-1.

Business model

Empire Energy Group (EEG) is a junior oil & 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 & upgrades are delivered in parallel; supported by generous Federal government "Basin Strategic Plan" funding.

A gas flare so early is a positive sign

EEG commenced its vertical fracture stimulation programme in early June across four "stacked" shale zones in the Velkerri Formation. Initial flow-back of fluids pumped into the C Shale resulted in gas to surface evidenced by a gas flare. The company noted that the gas rate has steadily increased through the initial flow-back period. EEG will now complete the well with a production string in preparation for further analysis and extended flow rate testing. These results will provide direct input into defining the commercial model noting Carpentaria-1 is a vertical well with limited frac zones. Importantly, delivering a gas flare so early in the initial fluid recovery phase is a positive sign for the potential success of the programme.

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

Our valuation range for EEG is \$385m to \$728m or 0.62-1.17share with \$608m or 0.98share 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 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)	4.6				
12/20a	6.5	1.2	(7.7)	(0.61)	(2.73)	2.5				
12/21e	6.4	1.6	(5.1)	(0.11)	(0.83)	1.9				
12/22e	6.6	1.7	(4.8)	(80.0)	(0.77)	1.9				

Source: Company data, RaaS estimates for FY21e & FY22e

Energy exploration & production

21st 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) & 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

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Exhibit 1: Financial Summary

EMPIRE ENERGY GROU	P LTD EEG	Ţ			nm - not magningful						
YEAR END	PLID EEG Dec	L.			nm = not meaningful na = not applicable						
					na = not applicable						
	mn 611 cps 0.35	priced as of cl	ose trading	18-Jun							
	mn 214		ose trauring	10-Juli							
ORDINARY SHARES M		~									
OPTIONS M		-									
		~									
	000s 2019		2021E	2022E	COMMODITY ASSUM			2019	2020	2021E	2022E
Revenue	7,763		6,375	6,561	Realised oil price		S\$/b	59.76	39.48	59.48	56.84
Cost of sales	(6,026)	(5,266)	(4,725)	(4,885)	Realised gas price		S\$/mcf	2.44	1.96	2.71	2.63
Gross Profit	1,737	1,198	1,650	1,676	Exchange Rate RESOURCES and RES		\$:US\$	0.6958	0.6989	0.7644 sumed post	0.7623
Other revenue Other income	224	1.039	262	262		ent Resou	rcac	Proces	ctive Resou		transaction
Exploration written off	224	1,039	202	202	Conting	1C	2C	3C	1U	2U	3U
Finance costs	(916)	(755)	(747)	(730)	Northern Territory						30
Impairment	(1,677)	(733)	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)	Liquius (MD)	1.0	3.5	17.2	105	7.52	3,000
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 AS	000s 2019	2020	2021E	2022E	Gas (Bcf)	24	34	38			
Operational Cash Flow	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 Cashflow	(1,084)	(2,924)	(51)	(38)				2P	3P		
Exploration	0		0	0	US						
PP&E	(2.550)		0 (6.061)	(133)	Gas		Bcf	34.4	38.2		
Petroleum Assets Net Asset Sales/other	(2,658) 27,698		(6,061)	0							
Net Investing Cashflow	25,040		(18,388)	(10,000)	EQUITY VALUATION						
Dividends Paid	23,040	(12,041)	(10,300)	(10,000)	EQUITY VALUATION	Low	Mid	High	Low	Mid	High
Net Debt Drawdown	(26,943)	(1,845)	(1,170)	(1,222)	NT			111811		Wild	111811
Equity Issues/(Buyback)	11,562		35,240	153	Contingent	\$149	\$186	\$214	\$0.24	\$0.30	\$0.34
Other					Prospective	\$218	\$398	\$485	\$0.35	\$0.64	\$0.78
Net Financing Cashflow	(15,381)	15,795	33,320	(1,069)	US Onshore						
Net Change in Cash	8,575	29	14,881	(11,107)	Appalachian	\$5	\$10	\$15	\$0.01	\$0.02	\$0.02
	000s 2019	2020	2021E	2022E		\$371	\$594	\$714	\$0.60	\$0.96	\$1.15
Cash & Equivalents	14,106	14,146	29,027	17,920	Net Cash (Debt)	\$22	\$22	\$22			
O&G Properties	37,505	46,442	125,485	135,748	Corporate Costs	-\$5	-\$5	-\$5			
PPE + ROU Assets	711	~~~~	1,198	1,181	TOTAL	\$388	\$611	\$731	\$0.63	\$0.98	\$1.18
Total Assets	56,594		156,588	155,484							
Debt	9,251		7,826	7,104	Shares on Issue	620 m	n				
Total Liabilities	37,089	36,327	45,113	45,461							
Total Net Assets/Equity	19,505	30,236	111,475	110,023	RATIO ANALYSIS			2019	2020	2021E	2022E
Net Cash/(Debt)	4,855	6,322	21,201	10,816	Shares Outstanding	M		263	324	618	619
NET PRODUCTION	2019	2020	2021E	2022E	EPS (pre sig items) EPS	UScps Acps		(9.31)	(2.73)	(0.83)	(0.77)
	b 89		2021E	2022E 2	PER	Acps X		(3.31)	(2.73)	(U.83) na	(0.77) na
	nmcf 1,778	~~~~	1.679	1,729	OCFPS	Acps		0.69	(0.61)	(0.11)	(0.08)
	boe 385		282	290	CFR	Х			(0.01)	na	na
					BVPS		cps	7.5	13.4	18.0	17.8
Product Revenue A	.\$mn 7.8	6.5	6.4	6.6	Price/Book	X		4.6x	2.6x	1.9x	1.9x
	\$mn (6.0)		(4.7)	(4.9)	ROE	%			·	na	na
	\$/boe 20.16		22.64	22.64	ROA	%				na	na
	.\$/boe (15.65)	(19.26)	(16.78)	(16.86)	Gross Profit/share	Ad	cps	6.6	3.7	2.7	2.7
	4.51	4.38	5.86	5.78	EBITDAX	۸٥	\$M	2.7	2.9	2.5	2.6
Cash Margin	4.31	4.30	3.00	3.70	EBITUAN	A,	ועוק	2.7	2.3	Z.J	
Cash Margin	4.31	4.38			EBITDAX Ratio	% %		34.2%	44.6%	40.0%	39.3%

Source: RaaS Advisory



FINANCIAL SERVICES GUIDE

RaaS Advisory Pty Ltd ABN 99 614 783 363

Corporate Authorised Representative, number 1248415

of

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AFSL 456663

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