



# **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 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)	4.3				
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)	(0.08)	(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 GR	OUBLED	EEG				nm - nat maaningful						
YEAR END	OUP LID	Dec				nm = not meaningful na = not applicable						
NAV	A\$mn	611				na = not applicable						
SHARE PRICE	A\$IIIII A\$cps		riced as of cl	aca trading	28-Jun							
MARKET CAP	A\$cps A\$mn	202	iliceu as oi ci	ose traumg	Zo-Juli							
ORDINARY SHARES	M	620										
OPTIONS	M	57										
PROFIT & LOSS	A\$000s	2019	2020	2021E	2022E	COMMODITY ASSUM			2019	2020	2021E	2022E
Revenue		7,763	6,464	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		s:US\$	0.6958	0.6989	0.7644 sumed post	0.7623
Other revenue Other income		224	1.039	262	262		ent Resou	reac	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				10		
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)							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	A\$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 Cashflo	w	(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 Net Investing Cashflov		27,698			(10,000)	<b>EQUITY VALUATION</b>						
Dividends Paid	<u> </u>	25,040	(12,841)	(18,388)	(10,000)	EQUITY VALUATION	Low	Mid	High	Low	Mid	High
Net Debt Drawdown		(26,943)	(1,845)	(1,170)	(1,222)	NT	LOW	IVIIU	111511	LOW	IVIIU	111511
Equity Issues/(Buyback)		11,562	17,640	35,240	153	Contingent	\$149	\$186	\$214	\$0.24	\$0.30	\$0.34
Other		11,502	17,010	33,210		Prospective	\$218	\$398	\$485	\$0.35	\$0.64	\$0.78
Net Financing Cashflor		(15,381)	15,795	33,320	(1,069)	US Onshore	<del></del>		<u> </u>		<del></del>	<del></del>
Net Change in Cash		8,575	29	14,881	(11,107)	Appalachian	\$5	\$10	\$15	\$0.01	\$0.02	\$0.02
BALANCE SHEET	A\$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	1,716	1,198	1,181	TOTAL	\$388	\$611	\$731	\$0.63	\$0.98	\$1.18
Total Assets		56,594	66,563	156,588	155,484							
Debt		9,251	7,824	7,826	7,104	Shares on Issue	620 m	n				
Total Liabilities		37,089	36,327	45,113	45,461							
Total Net Assets/Equit	у	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)		Scps	(9.31)	(2.73)	(0.83)	(0.77)
Crude Oil	kb	2019 89	<b>2020</b> 2	<b>2021E</b> 2	2022E	EPS PER	Acps x		(9.31)	(2./3)	(0.83) na	(0.77) na
Nat Gas	mmcf	1,778	1.630	1.679	1,729	OCFPS	Acps		0.69	(0.61)	(0.11)	(0.08)
TOTAL	kboe	385	273	282	290	CFR	Х		0.03	(0.01)	na	(0.08) na
	~~~~					BVPS		ps	7.5	13.4	18.0	17.8
Product Revenue	A\$mn	7.8	6.5	6.4	6.6	Price/Book	Х		4.3x	2.4x	1.8x	1.8x
Cash Costs	A\$mn	(6.0)	(5.3)	(4.7)	(4.9)	ROE	× %				na	na
Ave Price Realised	A\$/boe	20.16	23.64	22.64	22.64	ROA	% %				na	na
Cash Costs	A\$/boe	(15.65)	(19.26)	(16.78)	(16.86)	Gross Profit/share		ps	6.6	3.7	2.7	2.7
Cash Margin		4.51	4.38	5.86	5.78	EBITDAX		\$M	2.7	2.9	2.5	2.6
						EBITDAX Ratio	%		34.2%	44.6%	40.0%	39.3%
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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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- who we are
- our services
- how we transact with you
- how we are paid, and
- complaint processes

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authorised to

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  - Securities
- deal on behalf of retail and wholesale clients in relation to
  - Securities

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In writing to: Australian Financial Complaints Authority, GPO Box 3, Melbourne, VIC, 3001.

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