

Yancoal Australia (3668 HK)

Higher coal price assumptions after the fire incident at Grosvenor coal mine

We believe the suspension of Grosvenor metallurgical coal mine (owned by Anglo American [AAL LN, NR]) in Queensland, Australia, following the underground fire in late Jun, would last for several months. We estimate the suspension will result in ~0.8% reduction of global metallurgical coal export volume, which will likely translate into higher met coal price and serve as a positive catalyst for Yancoal (YAL). We expect higher spot prices will boost YAL's ASP in both 2H24E and 1H25E when some contracts are to be repriced over the coming months. We revise up our 2024E/25E earnings forecast by 7%/9% after revising up our ASP forecast. Our NPV-based TP is revised up to HK\$45 from HK\$40. Trading at 6.5x 2024E P/E and 7.7% yield, we believe the stock is attractive for investors who seek margin of safety and high dividend. Maintain BUY.

- Incident. A fire broke out underground at Grosvenor met coal mine as a result of methane gas ignition on 29 Jun. Given a serious damage made, it's likely to take several months before the mine operation can be resumed. Grosvenor mine has an annual capacity of 5mt. The mine produced 2.8mt of met coal in 2023, which was equivalent to 0.8% of the global met coal export in 2023 (349mt).
- Coal price stabilising. The benchmark semi-soft coking coal price (SSCC) price dropped ~28%/~9% YoY to US\$152/US\$140 per tonne in 1Q/2Q24. We expect the pricing to stabilize following the incident. We revise up our 2024E/25E met coal price assumptions by 11%/8% for Yancoal (pricing impact generally lags behind by a couple of months).
- **Key risks:** (1) further decline in coal price; (2) rebound of unit cost; (3) unfavourable weather that affects production

Earnings Summary

,					
(YE 31 Dec)	FY22A	FY23A	FY24E	FY25E	FY26E
Revenue (AUD mn)	10,548	7,778	7,133	6,890	6,876
YoY growth (%)	95.2	(26.3)	(8.3)	(3.4)	(0.2)
Net profit (AUD mn)	3,587.0	1,818.7	1,477.1	1,323.6	1,331.4
EPS (Reported) (AUD)	2.72	1.38	1.12	1.00	1.01
YoY growth (%)	355.0	(49.3)	(18.8)	(10.4)	0.6
Consensus EPS (AUD)	na	na	1.14	1.14	1.16
P/E (x)	2.7	5.3	6.5	7.3	7.2
P/B (x)	1.2	1.1	1.1	1.0	0.9
Yield (%)	16.8	9.5	7.7	6.9	6.9
ROE (%)	50.6	22.1	16.8	14.0	13.2
Net gearing (%)	(25.2)	(14.8)	(25.5)	(31.7)	(39.9)
Source: Company data, Bloomb	oerg, CMBIGM es	stimates			

BUY (Maintain)

Target Price	HK\$45.00
(Previous TP	HK\$40)
Up/Downside	17.3%
Current Price	HK\$38.35

China Energy

Wayne FUNG, CFA (852) 3900 0826 waynefung@cmbi.com.hk

Stock Data

Mkt Cap (HK\$ mn)	50,638.9
Avg 3 mths t/o (HK\$ mn)	69.9
52w High/Low (HK\$)	38.35/23.50
Total Issued Shares (mn)	1320.4
Source: FactSet	

Shareholding Structure

62.3%
7.7%

Source: HKEx

Share Performance

	Absolute	Relative
1-mth	18.0%	22.1%
3-mth	42.8%	34.2%
6-mth	36.7%	27.0%

Source: FactSet

12-mth Price Performance



Source: FactSet

Auditor: ShineWing Australia

Related Reports

- Yancoal Australia (3668 HK) Decline in 2023 net profit largely expected; Valuation to be supported by attractive yield – 26 Feb 2024
- Yancoal Australia (3668 HK) 1H23E preview: Expect profit decline on weak coal price – 14 Jul 2023



Figure 1: Changes in key operating assumptions and earnings forecast

		Old			New			Change	
	2024E	2025E	2026E	2024E	2025E	2026E	2024E	2025E	2026E
Marketable coal production (mn tonnes)									
(100 % equity basis)									
Consolidated mines									
HVO	13.0	14.0	15.0	13.0	14.0	15.0	0.0%	0.0%	0.0%
Mount Thorley Warkworth (MTW)	13.0	13.5	13.8	13.0	13.5	13.8	0.0%	0.0%	0.0%
Moolarben	18.5	19.0	19.5	18.5	19.0	19.5	0.0%	0.0%	0.0%
Stratford Duralie	0.0	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a
Yarrabee	2.0	2.0	2.0	2.0	2.0	2.0	0.0%	0.0%	0.0%
Middlemount	2.7	3.0	3.3	2.7	3.0	3.3	0.0%	0.0%	0.0%
Ashton	0.3	0.3	0.3	0.3	0.3	0.3	0.0%	0.0%	0.0%
Total	49.5	51.8	53.9	49.5	51.8	53.9	0.0%	0.0%	0.0%
Sales volume (mn tonnes)									
Thermal	32.1	33.3	33.9	32.1	33.3	33.9	0.0%	0.0%	0.0%
Metallurgical	5.2	5.4	6.0	5.2	5.4	6.0	0.0%	0.0%	0.0%
Total	37.3	38.7	39.9	37.3	38.7	39.9	0.0%	0.0%	0.0%
ASP (A\$/t)									
Thermal	170	155	150	170	157	152	0.0%	1.3%	1.3%
Metallurgical	270	260	260	300	280	260	11.1%	7.7%	0.0%
Blended	184	170	167	188	174	168	2.3%	2.7%	1.0%
Cash operating cost breakdown (A\$/tonne)									
Unit cash operating cost	-106	-103	-101	-107	-104	-101	0.3%	0.4%	0.2%
Unit cash operating cost (excluding government royalities)	-90	-88	-86	-90	-88	-86	0.0%	0.0%	0.0%
Unit cash margin (excluding government royalities)	94	82	80	99	86	82	4.5%	5.5%	2.1%
Net profit (A\$ mn)	1,381	1,215	1,287	1,477	1,324	1,331	6.9%	8.9%	3.4%

Source: Company data, CMBIGM estimates

Figure 2: YAL's quarterly operating statistics

	1Q23	1Q24	Chg (YoY)	2Q22	2Q23	Chg (YoY)	3Q22	3Q23	Chg (YoY)	4Q22	4Q23	Chg (YoY)
Marketable coal production (mn tonnes)												
(100 % equity basis)												
Mines												
HVO	1.8	2.8	56%	2.9	2.4	-17%	2.4	3.0	25%	1.6	3.3	106%
Mount Thorley Warkworth (MTW)	2.0	2.2	10%	1.7	2.6	53%	2.1	3.3	57%	2.3	3.4	48%
Moolarben	2.6	5.0	92%	4.1	4.8	17%	3.4	4.5	32%	3.1	4.8	55%
Stratford Duralie	0.1	0.1	0%	0.1	0.1	0%	0.2	0.2	0%	0.2	0.2	0%
Yarrabee	0.4	0.4	0%	0.5	0.5	0%	0.5	0.5	0%	0.6	0.5	-17%
Middlemount	0.5	0.5	0%	0.6	0.5	-17%	0.7	0.6	-14%	0.5	0.6	20%
Ashton	0.3	0.3	0%	0.2	0	-100%	0.3	0.0	-100%	0.2	0.1	-50%
Total	7.7	11.3	47%	10.1	10.9	8%	9.6	12.1	26%	8.5	12.9	52%
Marketable coal production (mn tonnes)												
(Attributable basis)			4007			450/			070/			470/
Total	5.9	8.8	49%	7.4	8.5	15%	7.3	9.3	27%	6.6	9.7	47%
Attributable sales volume (mn tonnes)												
Thermal	4.7	7.3	55%	6.6	7.3	11%	5.8	7.7	33%	5.5	8.7	58%
Metallurgical	1.2	1.0	-17%	1.3	1.2	-8%	0.9	0.9	0%	1.4	1.4	-2%
Total	5.9	8.3	41%	7.9	8.5	8%	6.7	8.6	28%	6.9	10.1	46%
ASP (A\$/tonne)												
Thermal	338	159	-53%	353	197	-44%	489	178	-64%	430	180	-58%
Metallurgical	383	334	-13%	446	403	-10%	434	360	-17%	389	292	-25%
Blended	347	180	-48%	368	226	-39%	481	197	-59%	422	196	-54%
Revenue (A\$ mn)												
Thermal	1,589	1,161	-27%	2,330	1,438	-38%	2,836	1,371	-52%	2,369	1,566	-34%
Metallurgical	460	334	-27%	580	484	-17%	391	324	-17%	556	409	-27%
Total ex-mine coal revenue	2.048	1.495	-27%	2,910	1.922	-34%	3,227	1.695	-47%	2,926	1,975	-32%

Source: Company data, CMBIGM estimates



Figure 3: Key operating assumptions

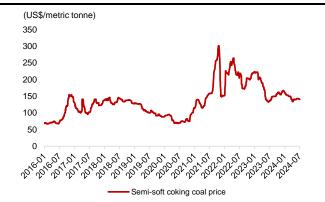
	2018	2019	2020	2021	2022	2023	2024E	2025E	2026E
Marketable coal production (mn tonnes)									
(100 % equity basis)									
Mines									
HVO	13.3	13.7	12.0	10.6	9.6	10.5	13.0	14.0	15.0
Mount Thorley Warkworth (MTW)	12.1	12.1	11.9	11.2	8.1	11.3	13.0	13.5	13.8
Moolarben	16.5	17.8	19.7	18.4	14.9	16.7	18.5	19.0	19.5
Stratford Duralie	0.5	0.8	0.5	0.8	0.7	0.6	0.0	0.0	0.0
Yarrabee	2.6	2.8	3.0	2.6	2.1	1.9	2.0	2.0	2.0
Middlemount	3.8	2.7	2.9	3.7	2.6	2.2	2.7	3.0	3.3
Ashton	1.1	2.2	1.8	1.2	0.9	0.4	0.3	0.3	0.3
Total	49.9	52.1	51.8	48.5	38.9	43.6	49.5	51.8	53.9
Attributable sales volume (mn tonnes)									
Thermal	28.4	30.1	33.2	31.7	24.6	28.4	32.1	33.3	33.9
Metallurgical	5.1	5.5	4.2	5.8	4.7	4.7	5.2	5.4	6.0
Total	33.5	35.6	37.4	37.5	29.3	33.1	37.3	38.7	39.9
Growth (YoY)									
Thermal	83.2%	6.0%	10.3%	-4.5%	-22.4%	15.4%	12.9%	3.8%	2.0%
Metallurgical	34.2%	7.8%	-23.6%	38.1%	-19.0%	0.0%	11.1%	3.8%	10.6%
Average	73.6%	6.3%	5.1%	0.3%	-21.9%	13.0%	12.6%	3.8%	3.2%
ASP (A\$/tonne)									
Thermal	123	100	76	134	372	211	170	157	152
Metallurgical	183	167	123	180	405	356	300	280	260
Blended	132	110	82	141	377	232	188	174	168
ASP growth (YoY)									
Thermal	20.0%	-18.3%	-23.8%	75.4%	177.4%	-43.3%	-19.3%	-7.6%	-3.2%
Metallurgical	12.2%	-8.8%	-26.3%	46.5%	125.0%	-12.1%	-15.7%	-6.7%	-7.1%
Blended	15.4%	-16.2%	-26.1%	72.9%	167.3%	-38.5%	-18.8%	-7.4%	-3.5%
Cash operating cost breakdown (A\$/tonne)									
Unit cash operating cost	-73	-73	-67	-77	-131	-121	-107	-104	-101
Change (YoY)	2.6%	-0.9%	-8.2%	16.2%	69.6%	-8.0%	-11.7%	-2.8%	-2.2%
Unit cash operating cost (excluding government royalties)	-63	-64	-60	-66	-98	-100	-90	-88	-86
Change (YoY)	0.7%	1.6%	-5.4%	9.5%	48.5%	1.9%	-10.3%	-2.0%	-2.0%

Source: Company data, CMBIGM estimates

Note: Our unit cost figures are slightly different from the company's due to the difference in transportation cost calculation

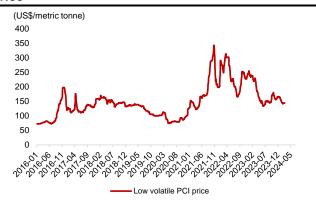


Figure 4: Seaborne semi-soft coking coal (SSCC) price



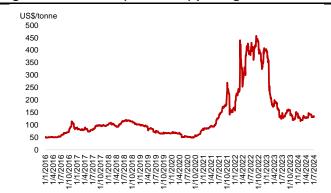
Source: Wind, CMBIGM

Figure 5: Seaborne pulverised coal injection (PCI) price



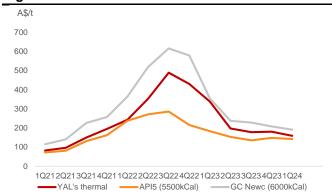
Source: Wind, CMBIGM

Figure 6: GC Newc (6000/kCal) pricing



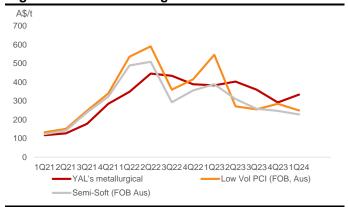
Source: Company data, Argus/McCloskey, GlobalCOAL, CMBIGM

Figure 7: YAL's thermal ASP vs benchmarks



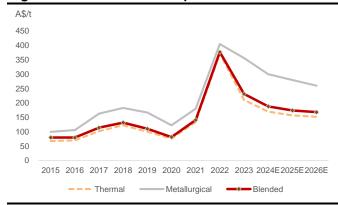
Source: Company data, Argus/McCloskey, GlobalCOAL, CMBIGM

Figure 8: YAL's metallurgical ASP vs benchmarks



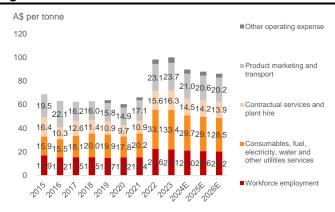
Source: Company data, Argus/McCloskey, GlobalCOAL, CMBIGM

Figure 9: YAL's ASP assumptions



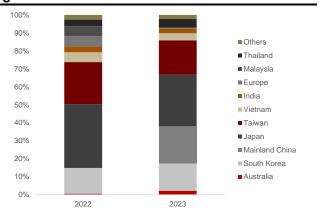
Source: Company data, CMBIGM estimates

Figure 10: YAL's unit cash cost breakdown



Source: Company data, CMBIGM estimates Note: Excluding government royalties

Figure 11: YAL's revenue breakdown



Source: Company data, CMBIGM



Valuation

Maintain BUY with a new TP of HK\$45 (previous HK\$40). We value YAL by net present value (NPV), calculated by the future cash flow of all the reserves based on their effective mine life.

Our key assumptions include:

- Long-term thermal and metallurgical coal price (starting 2027E) of A\$130/t and A\$200/t respectively;
- Long-term unit cash cost inflation of 1% p.a.;
- WACC of 6.9%, based on risk-free rate of 4.2% (10-year Australian government bond yield), risk premium of 6%, 0.5x beta, and 10% debt/capital ratio;
- AUD/HKD rate of HK\$5.27.

Figure 12: TP sensitivity to coal price

<u> </u>					
WACC	LT (coal therma	I coal price	(A\$/t)	
	90	110	130	150	170
4.9%	25	38	51	64	78
5.9%	24	36	48	59	71
6.9%	24	34	45	55	65
7.9%	23	33	42	51	60
8.9%	23	31	40	48	56

Note: Assuming LT thermal coal price = A\$130/t

WACC	LT metallurgical coal price (A\$/t)								
	160	180	200	220	240				
4.9%	46	49	51	54	56				
5.9%	43	45	48	50	52				
6.9%	41	43	45	46	48				
7.9%	39	40	42	44	45				
8.9%	37	38	40	41	43				

Note: Assuming LT metallurgical coal price = A\$200/t

Source: Company data, CMBIGM estimates

Figure 13: Peers comp

Ticker	Company	Price	Market cap	PE	(x)	PB (x)	EV/EBI1	TDA (x)	Div yield (%)
		(local currency)	(US\$ m)	FY24E	FY25E	FY24E	FY25E	FY24E	FY25E	FY24E
Overseas listed										
YAL AU Equity	YANCOAL AUSTRALIA	7.33	6,532	6.5	7.3	1.0	1.0	2.9	3.2	7.7
WHC AU Equity	WHITEHAVEN COAL	8.97	5,065	9.0	5.4	1.3	1.1	4.0	2.2	2.0
NHC AU Equity	NEW HOPE CORPORATION	5.02	2,864	8.0	7.6	1.6	1.5	4.6	4.4	7.6
BTU US Equity	PEABODY ENERGY	23.29	2,930	9.7	9.5	n/a	n/a	3.0	3.0	1.8
GLEN LN Equity	GLENCORE PLC	483.05	75,526	14.4	11.3	1.7	1.6	6.1	5.5	2.5
BHP AU Equity	BHP BILLITON	44.39	151,937	11.1	11.2	3.4	3.0	5.9	5.7	4.9
AAL LN Equity	ANGLO AMERICAN	2,444.00	38,376	15.0	12.6	1.4	1.4	5.6	5.3	2.7
BANPU TB Equity	BANPU PUBLIC	5.20	1,424	12.7	7.7	0.4	0.4	7.2	6.9	7.0
ADRO IJ Equity	ADARO ENERGY TBK	2,910.00	5,718	5.0	5.8	0.8	0.7	2.5	2.8	8.9
	Average			10.2	8.7	1.5	1.3	4.6	4.3	5.0
Hong Kong listed										
3668 HK Equity	YANCOAL AUSTRALIA	38.35	6,482	6.5	7.3	1.0	1.0	2.9	3.2	7.7
1088 HK Equity	CHINA SHENHUA-H	37.35	118,478	11.5	12.0	1.7	1.5	7.4	7.7	6.5
1171 HK Equity	YANKUANG ENERGY-H	11.42	20,672	6.0	5.9	1.3	1.1	6.4	6.5	9.5
1898 HK Equity	CHINA COAL ENE-H	8.88	20,572	5.7	5.7	0.8	0.6	4.0	4.0	5.4
639 HK Equity	SHOUGANG FUSHAN	3.28	2,068	8.6	8.6	0.9	0.9	3.2	3.1	8.0
	Average			7.7	7.9	1.1	1.0	4.8	4.9	7.4
	Average (total)			9.3	8.4	1.3	1.2	4.7	4.5	5.9

Source: Bloomberg, company data, CMBIGM estimates (for Yancoal)



Financial Summary

Total equity and liabilities

INCOME STATEMENT	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec (AUD mn)						
Revenue	5,403	10,548	7,778	7,133	6,890	6,876
Royalties and other related payments	(421)	(967)	(685)	(628)	(607)	(606)
Staff costs	(578)	(662)	(730)	(783)	(796)	(805)
Others	(2,232)	(2,548)	(2,901)	(2,819)	(2,856)	(2,864)
Other income	(36)	(132)	26	36	34	34
EBITDA	2,136	6,239	3,488	2,938	2,665	2,635
Depreciation	(831)	(834)	(881)	(859)	(800)	(750)
EBIT	1,305	5,405	2,607	2,079	1,865	1,885
Interest expense	(259)	(459)	(53)	(8)	(8)	(8)
Others	57	146	29	26	22	14
Pre-tax profit	1,103	5,092	2,583	2,098	1,880	1,891
Income tax	(312)	(1,505)	(764)	(620)	(556)	(559)
After tax profit	791	3,587	1,819	1,477	1,324	1,331
Minority interest	0	0	0	0	0	0
Net profit	791	3,587	1,819	1,477	1,324	1,331
BALANCE SHEET	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec (AUD mn)						
Current assets	2,531	3,810	2,533	3,492	4,328	5,329
Cash & equivalents	1,495	2,699	1,397	2,484	3,245	4,316
Account receivables	707	736	662	647	598	645
Inventories	264	330	416	307	427	315
Other current assets	65	45	58	53	57	53
Non-current assets	9,269	8,991	8,721	8,575	8,287	8,043
PP&E	3,232	3,486	3,582	3,774	3,761	3,744
Right-of-use assets	5,149	4,642	4,278	3,930	3,646	3,416
Deferred income tax	0	0	0	0,000	0,010	0,110
Investment in JVs & assos	303	413	431	444	455	462
Intangibles	138	133	131	128	125	122
Other non-current assets	447	317	299	299	299	299
Total assets	11,800	12,801	11,254	12,067	12,614	13,372
Current liabilities	826	2,532	1,048	1,145	1,073	1,163
Short-term borrowings	66	48	44	44	44	44
Account payables	743	863	734	831	759	849
Other current liabilities	17	1,621	270	270	270	270
Non-current liabilities	4,828	2,239	1,764	1,764	1,764	1,764
Long-term borrowings	3,369	625	102	102	102	102
Other non-current liabilities	1,459	1,614	1,662	1,662	1,662	1,662
Total liabilities	5,654	4,771	2,812	2,909	2,837	2,927
Total shareholders equity	6,144	8,028	8,440	9,156	9,775	10,443
Minority interest	2	2	2	2	2	2
Total aquity and liabilities	11 000	12 901	44.254	42.067	40.644	42 272

12,801

11,800

11,254

12,067

12,614

13,372



CASH FLOW	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec (AUD mn)						
Operating						
Profit before taxation	1,103	5,092	2,583	2,098	1,880	1,891
Depreciation & amortization	831	834	881	859	800	750
Tax paid	0	0	(2,123)	(620)	(556)	(559)
Change in working capital Others	(193) 332	80 759	(129) (10)	226 (102)	(147) (131)	159 (133)
Net cash from operations	2, 073	6,765	1,2 02	2,460	1,846	2,108
Investing						
Capital expenditure	(268)	(544)	(611)	(700)	(500)	(500)
Acquisition of subsidiaries/ investments	(100)	0	0	0	0	0
Others	69	287	97	96	128	134
Net cash from investing	(299)	(257)	(514)	(604)	(372)	(366)
Financing						
Dividend paid	0	(1,626)	(1,413)	(761)	(704)	(664)
Net borrowings	(494)	(1,320)	(496)	0	0	0
Proceeds from share issues	0	0	0	0	0	0
Others	(447)	(2,465)	(95)	(8)	(8)	(8)
Net cash from financing	(941)	(5,411)	(2,004)	(769)	(712)	(671)
Net change in cash						
Cash at the beginning of the year	637	1,495	2,699	1,397	2,484	3,245
Exchange difference	25	107	14	0	0	0
Cash at the end of the year	1,495	2,699	1,397	2,484	3,245	4,316
GROWTH	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec	55.00/	05.00/	(00.00()	(0.00()	(0.40()	(0.00()
Revenue	55.6%	95.2%	(26.3%)	(8.3%)	(3.4%)	(0.2%)
EBITDA EBIT	na na	192.1% 314.3%	(44.1%) (51.8%)	(15.8%) (20.2%)	(9.3%) (10.3%)	(1.1%) 1.1%
Net profit	na	353.7%	(49.3%)	(18.8%)	(10.4%)	0.6%
PROFITABILITY	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec	202171	LULLIN	LOLON	202-12	10101	20202
EBITDA margin	39.5%	59.1%	44.8%	41.2%	38.7%	38.3%
Return on equity (ROE)	13.9%	50.6%	22.1%	16.8%	14.0%	13.2%
GEARING/LIQUIDITY/ACTIVITIES	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec						
Net debt to equity (x)	0.3	(0.3)	(0.1)	(0.3)	(0.3)	(0.4)
Current ratio (x)	3.1	1.5	2.4	3.0	4.0	4.6
Receivable turnover days	35.5	25.0	32.8	33.5	33.0	33.0
Inventory turnover days	53.3	47.4	52.2	52.0	52.0	52.0
Payable turnover days	100.8	99.4	87.3	86.0	86.0	86.0
VALUATION	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec						
P/E	12.2	2.7	5.3	6.5	7.3	7.2
P/B	1.6	1.2	1.1	1.1	1.0	0.9
Div yield (%)	9.6	16.8	9.5	7.7	6.9	6.9

Source: Company data, CMBIGM estimates. Note: The calculation of net cash includes financial assets.



Disclosures & Disclaimers

Analyst Certification

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report.

Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report.

CMBIGM Ratings

BUY : Stock with potential return of over 15% over next 12 months HOLD : Stock with potential return of +15% to -10% over next 12 months Stock with potential loss of over 10% over next 12 months SELL

NOT RATED : Stock is not rated by CMBIGM

OUTPERFORM : Industry expected to outperform the relevant broad market benchmark over next 12 months MARKET-PERFORM : Industry expected to perform in-line with the relevant broad market benchmark over next 12 months : Industry expected to underperform the relevant broad market benchmark over next 12 months **UNDERPERFORM**

CMB International Global Markets Limited

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Global Markets Limited ("CMBIGM") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned) subsidiary of China Merchants Bank)

Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIGM does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIGM recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIGM, solely for the purpose of supplying information to the clients of CMBIGM or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIGM nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIGM has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIGM provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIGM may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIGM may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIGM may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIGM does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIGM may have a conflict of interest that could affect the objectivity of this report and CMBIGM will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIGM. Additional information on recommended securities is available upon request.

For recipients of this document in the United Kingdom

This report has been provided only to persons (I)falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time) ("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc.,) of the Order, and may not be provided to any other person without the prior written consent of CMBIGM.

For recipients of this document in the United States

CMBIGM is not a registered broker-dealer in the United States. As a result, CMBIGM is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. The research analyst who is primary responsible for the content of this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA"). The analyst is not subject to applicable restrictions under FINRA Rules intended to ensure that the analyst is not affected by potential conflicts of interest that could bear upon the reliability of the research report. This report is intended for distribution in the United States solely to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, as amended, and may not be furnished to any other person in the United States. Each major US institutional investor that receives a copy of this report by its acceptance hereof represents and agrees that it shall not distribute or provide this report to any other person. Any U.S. recipient of this report wishing to effect any transaction to buy or sell securities based on the information provided in this report should do so only through a U.S.-registered broker-dealer.

For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.