



Xinyi Glass Holdings

Recovery To Continue

We resume coverage on Xinyi with a BUY and higher TP of HKD8.40 (from HKD5.20, 17% upside). We remain bullish on the stock due to:

- 1. Strong recurring net profit CAGR of 28% in FY15-17F, primarily driven by continued float glass GPM expansion and low-teen topline growth;
- Undemanding valuations TP implies 10x FY17F P/E, close to 10-year mean (ex-Xinyi Solar implied P/E of 11x vs 10-year mean of 13x).

This report marks the transfer of coverage to Cyrus Chong.

Recovery at float glass segment to sustain, premised on:

- i. Volume growth, stable pricing, market share gains from weaker competitors, Government supply-side reforms and industry rationalisation;
- ii. Improved demand from the property construction sector, a key user of float glass in China;
- iii. Declining natural gas import prices and potentially further domestic price cuts by China's National Development and Reform Commission (NDRC).

Our price checks indicate that industry float glass prices are up 10% YoY in 9M16 (1H16: 5.9%) while imported natural gas cost fell by c.31% YoY in 8M16 (2015: -26%). We expect float glass sales to grow by 6%/6% and GPM to expand to 22.4%/24.4% in FY16/17F respectively (1H16 GPM: 22.3%).

Automobile and construction glass are stable growth drivers, given:

- i. Strategic focus on high value-added low-emission (low-e) glass (for construction) and stable after-sales market (for automobile);
- ii. High level of vertical integration and economies of scale;
- iii. Rising demand for low-e glass on supportive Government policies.

We expect the automobile/construction glass segments to deliver revenue CAGR of 6%/10% respectively in FY15-18F on resilient gross margins.

Solar exposure via top-of-class platform. Xinyi Glass Holdings (Xinyi) has valuable solar sector exposure via c.27%-associate, Xinyi Solar Holdings (Xinyi Solar) (968 HK, NR), a well-run solar business platform with a dominant market position and experiencing explosive growth in downstream solar farm operations. Profit contributions from Xinyi Solar are expected to rise by 77%/37%/27% in FY16-18F, and account for c.17-22% of Xinyi's pre-tax profit. The stake in Xinyi Solar is worth c.HK\$5.8bn (c.21% of Xinyi's market cap).

BUY with higher HKD8.40 TP, pegged at 10x FY17F P/E, close to 10-year mean. Our new TP also implies 2.1x FY17F P/BV (1SD> LT-average), which we believe is fair as the company is in an earnings upcycle. Excluding Xinyi Solar, our TP implies 11x FY17F P/E for its non-solar glass businesses, below the historic average of 13x. Key risks include a rebound in production capacity in the float glass industry and sharp recovery in natural gas prices.

Forecasts and Valuations	Dec-14	Dec-15	Dec-16F	Dec-17F	Dec-18F
Total turnover (HKDm)	10,861	11,460	12,926	14,283	15,725
Reported net profit (HKDm)	1,364	2,113	2,852	3,293	3,813
Recurring net profit (HKDm)	1,146	1,819	2,852	3,293	3,813
Recurring net profit growth (%)	(45.9)	58.7	56.8	15.5	15.8
Recurring EPS (HKD)	0.30	0.46	0.73	0.84	0.97
DPS (HKD)	0.15	0.26	0.35	0.41	0.47
Recurring P/E (x)	23.9	15.3	9.7	8.4	7.3
P/B (x)	2.25	2.18	1.93	1.76	1.60
P/CF (x)	14.1	9.9	7.8	6.8	6.0
Dividend Yield (%)	2.1	3.7	5.0	5.8	6.7
EV/EBITDA (x)	15.3	11.4	8.0	7.2	6.5
Return on average equity (%)	11.1	16.9	21.0	21.8	23.1
Net debt to equity (%)	42.0	37.2	33.1	26.7	20.1
Our vs consensus EPS (adjusted) (%)			5.4	3.7	5.7

Source: Company data, RHB

See important disclosures at the end of this report



Industrial | Misc. Manufacturer

BUV (Maintained)

Target Price:	HKD8.40
Price:	HKD7.21
Market Cap:	USD3,543m
Bloomberg Ticker:	868 HK
Share Data	
Avg Daily Turnover (HKD/USD)	77.0m/9.93m
52-wk Price low/high (HKD)	3.23 - 7.08
Free Float (%)	53
Shares outstanding (m)	3,881
Estimated Return	17%
Shareholders (%)	
Chairman Lee Yin Yee	21.3

Chairman Lee Yin Yee	21.3
Other management staff	25.6

Share Performance (%)

	YTD	1m	3m	6m	12m
Absolute	64.8	6.5	31.9	66.3	121.1
Relative	56.3	(0.9)	18.8	48.4	107.0
Source: Bloomberg					



Source: Bloomberg

Analyst Cyrus Chong +852 2103 9424 cyrus.chong@rhbgroup.com







Financial Exhibits

Financial model updated on: 2016-09-07.

Asia	Financial summary	Dec-14	Dec-15
Hong Kong	Recurring EPS (HKD)	0.30	0.46
Industrial	EPS (HKD)	0.35	0.40
Xinyi Glass Holdings	DPS (HKD)	0.15	0.26
Bloomberg 868 HK	BVPS (HKD)	3.15	3.24
Buy	Weighted avg adjusted shares (m)	3,877	3,922
			,
Valuation basis	Valuation metrics	Dec-14	Dec-15
Long-term average P/E.	Recurring P/E (x)	23.9	15.3
	P/E (x)	20.1	13.1
Key drivers	P/B (x)	2.25	2.18
i. Float glass price;ii. Natural gas costs.	FCF Yield (%)	0.8	3.0
	Dividend Yield (%)	2.1	3.7
Key risks	EV/EBITDA (x)	15.3	11.4
i. Weaker-than-expected glass demand and sharp	EV/EBIT (x)	23.8	17.1
rebound in raw material costs (in particular	Income statement (HKDm)	Dec-14	Dec-15
natural gas cost).	Total turnover	10,861	11,460
Company Profile	Gross profit	2,733	3,133
Founded in 1988 and listed in 2005, Xinyi Glass	EBITDA	1,707	2,282
(Xinyi) is one of the largest glass producers in China.	Depreciation and amortisation	(612)	(763)
It has six major production bases - in Dongguan,	Operating profit	1,095	1,518
Shenzhen, Jiangmen, Wuhu, Tianjin and Yingkou. It is	Net interest	(38)	(50)
also a one-stop maker of float glass, solar glass, auto glass and construction glass. The company's three	Income from associates & JVs	138	317
major business segments – float glass, low-e	Exceptional income - net	254	331
construction glass and auto glass - accounted for	Pre-tax profit	1,593	2,380
44%, 23% and 33% of total revenue in FY15. Xinyi spun off its solar business arm, Xinyi Solar (968 HK,	Taxation	(228)	(266)
NR), in late 2013, and now holds a 26.6% stake in the	Minority interests	(1)	(0)
latter. The company also has an overseas production	Recurring net profit	1,146	1,819
hass in Malassa, Malaysia			
base in Malacca, Malaysia.			
	Cash flow (HKDm)	Dec-14	Dec-15
Xinyi's 1-year forward P/E	Cash flow from operations	1,944	2,806
	Cash flow from operations Capex	1,944 (1,729)	2,806 (1,967)
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities	1,944 (1,729) (1,729)	2,806 (1,967) (1,967)
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares	1,944 (1,729) (1,729) (165)	2,806 (1,967) (1,967) 0
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid	1,944 (1,729) (1,729) (165) (902)	2,806 (1,967) (1,967) 0 (608)
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares	1,944 (1,729) (1,729) (165)	2,806 (1,967) (1,967) 0
Xinyi's 1-year forward P/E (x) 25 - 20 - +2sd: 17.64x	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid	1,944 (1,729) (1,729) (165) (902)	2,806 (1,967) (1,967) 0 (608)
Xinyi's 1-year forward P/E (x) 25 - 20 - 15 - +2sd: 17.64x +15d: 14.1x	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities	1,944 (1,729) (1,729) (165) (902) (72)	2,806 (1,967) (1,967) 0 (608) (625)
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm)	1,944 (1,729) (1,729) (165) (902) (72) Dec-14	2,806 (1,967) (1,967) 0 (608) (625) Dec-15
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total assets	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total assets Short-term debt	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total assets Short-term debt Other liabilities	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total assets Short-term debt Other liabilities Total liabilities	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 2,55 8,699	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible fixed assets Intangible assets Total other assets Total other assets Short-term debt Other liabilities Total liabilities Shareholders' equity	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible fixed assets Intangible assets Total other assets Total other assets Short-term debt Other liabilities Total liabilities Shareholders' equity Minority interests	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total other assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2 12,335	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total other assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity Net debt	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726 4,729
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total other assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2 12,335 5,181	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total other assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity Net debt	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2 12,335 5,181	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726 4,729
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total other assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity Net debt Total liabilities & equity Met debt Total liabilities & equity Key metrics Revenue growth (%)	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 2,55 8,699 12,333 2 12,335 5,181 21,034	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726 4,729 21,422
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total other assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity Net debt Total liabilities & equity Key metrics	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2 12,335 5,181 21,034 Dec-14	2,806 (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726 4,729 21,422 Dec-15
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity Net debt Total liabilities & equity Net debt Total liabilities & equity Key metrics Revenue growth (%) Recurrent EPS growth (%)	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2 12,335 5,181 21,034 Dec-14 9,3 (47.1) 25.2	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726 4,729 21,422 Dec-15 5.5 5.5
Xinyi's 1-year forward P/E	Cash flow from operations Capex Cash flow from investing activities Proceeds from issue of shares Dividends paid Cash flow from financing activities Balance sheet (HKDm) Total cash and equivalents Tangible fixed assets Intangible assets Total investments Total other assets Total other assets Short-term debt Other liabilities Shareholders' equity Minority interests Total equity Net debt Total liabilities & equity Minority interests Total equity Net debt Total liabilities & equity Key metrics Revenue growth (%) Recurrent EPS growth (%)	1,944 (1,729) (1,729) (165) (902) (72) Dec-14 832 13,205 79 2,912 34 21,034 2,529 255 8,699 12,333 2 12,335 5,181 21,034 Dec-14 9,3 (47.1)	2,806 (1,967) (1,967) 0 (608) (625) Dec-15 1,300 13,350 75 2,972 29 21,422 2,514 63 8,696 12,718 7 12,726 4,729 21,422 Dec-15 5.5 5.5

Source: Company data, RHB

Hong Kong Initiating Coverage

Dec-16F

0.73

0.73

0.35

3.67

3,922

Dec-16F

9.7

9.7

1.93

6.8

Industrial | Misc. Manufacturer

Dec-17F

0.84

0.84

0.41

4.02

3,922

Dec-17F

8.4

8.4

1.76

9.3

Dec-18F

0.97

0.97

0.47

4.41

3,922

Dec-18F

7.3

7.3

1.60

11.3

FCF Yield (%)	0.8	3.0	6.8	9.3	11.3
Dividend Yield (%)	2.1	3.7	5.0	5.8	6.7
EV/EBITDA (x)	15.3	11.4	8.0	7.2	6.5
EV/EBIT (x)	23.8	17.1	10.6	9.5	8.3
Income statement (HKDm)	Dec-14	Dec-15	Dec-16F	Dec-17F	Dec-18F
Total turnover	10,861	11,460	12,926	14,283	15,725
Gross profit	2,733	3,133	4,451	4,943	5,473
EBITDA	1,707	2,282	3,344	3,709	4,100
Depreciation and amortisation	(612)	(763)	(820)	(880)	(922)
	1,095	1,518	2,525	2,829	3,177
Operating profit Net interest					
	(38)	(50)	(51)	(52)	(33)
Income from associates & JVs Exceptional income - net	138	317	560	767	975
1	254	331	0	0	0
Pre-tax profit	1,593	2,380	3,279	3,830	4,434
Taxation	(228)	(266)	(426)	(536)	(621)
Minority interests	(1)	(0)	(0)	(0)	(0)
Recurring net profit	1,146	1,819	2,852	3,293	3,813
Cash flow (HKDm)	Dec-14	Dec-15	Dec-16F	Dec-17F	Dec-18F
Cash flow from operations	1,944	2,806	3,576	4,077	4,639
Сарех	(1,729)	(1,967)	(1,700)	(1,500)	(1,500)
Cash flow from investing activities	(1,729)	(1,967)	(1,700)	(1,500)	(1,500)
Proceeds from issue of shares	(165)	0	0	0	0
Dividends paid	(902)	(608)	(1,284)	(1,482)	(1,716)
Cash flow from financing activities	(72)	(625)	(1,284)	(1,482)	(1,716)
	Dec 14	Dec 45	Dec 465		Dec 195
Balance sheet (HKDm)	Dec-14	Dec-15	Dec-16F	Dec-17F	Dec-18F
Total cash and equivalents	832	1,300	1,264	1,813	2,553
Tangible fixed assets	13,205	13,350	14,741	15,373	15,961
Intangible assets	79	75	75	75	75
Total investments	2,912	2,972	2,972	2,972	2,972
Total other assets	34	29	29	29	29
Total assets	21,034	21,422	22,837	24,408	26,149
Short-term debt	2,529	2,514	2,514	2,514	2,514
Other liabilities	255	63	63	63	63
Total liabilities	8,699	8,696	8,441	8,631	8,830
Shareholders' equity	12,333	12,718	14,388	15,770	17,311
Minority interests	2	7	7	7	7
Total equity	12,335	12,726	14,396	15,777	17,318
Net debt	5,181	4,729	4,764	4,215	3,475
Total liabilities & equity	21,034	21,422	22,837	24,408	26,149
Key metrics	Dec-14	Dec-15	Dec-16F	Dec-17F	Dec-18F
Revenue growth (%)	9.3	5.5	12.8	10.5	10.1
Recurrent EPS growth (%)	(47.1)	56.9	56.8	15.5	15.8
Gross margin (%)	25.2	27.3	34.4	34.6	34.8
	15.7	19.9	25.9	26.0	26.1
Operating EBITDA margin (%)					24.2
	12.6	18.4	22.1	23.1	24.2
Operating EBITDA margin (%) Net profit margin (%) Dividend payout ratio (%)			22.1 48.7	23.1 48.7	
Net profit margin (%)	12.6 43.1 15.9	18.4 48.7 17.2	22.1 48.7 13.2	48.7 10.5	48.7



Head-To-Head Comparison Of Listed Peers

	Xinyi Glass Recovery Play	Flat Glass PV Glass Manufacturing Play	China Glass Victim of Industry Consolidation	Fuyao Glass Best-in-Class Auto Glass in OEM	Luoyang Glass A High-Cost Producer	CSG (南玻集团) Expensive Recovery Play	Kibing (株洲旗 滨) Over-Diversification
Company Background							
Ticker	868 HK	6865 HK	3300 HK	3606 HK, 600660 CH	1108 HK	000012 CH	601636 CH
Rating	BUY	NR	NR	NR	NR	NR	NR
Year est.	1988	1998	2004	1987	1994	1984	2005
Major shareholder	Lee Yin Yee	Ruan Hongliang	Cao Zhijiang	Cho Tak Wong	State-ow ned	Qianhai Insurance	Kibing Group
Operation Background							
# of employees	12,746	~3,000	4,078	21,833	~4,000	~10,000	~6,000
# of production lines	n/a	~60	17	n/a	n/a	~15	23
o/w: float	n/a	2	14	n/a	n/a	10	n/a
Daily float glass melting capacity (tpd)	~13,800	~1,200	7,630	n/a	~2,000	~7,000-8,000	14,600
Export as % of sales	~30%	~40%	~29%	~50%	Limited	~10%	~3%
Foothold markets	Anhui, Tianjin, Guangdong		Jiangsu, Shandong	Fujian, Shanghai, Chongqing	Henan		Fujian, Guangdong, Hunan
Key products	Float, Low-E, Auto glass	PV, float, Low-E	Float, PV, Low-E	Auto glass, float	Ultra-thin float, silica sand	Flat, Low-E, PV, electronic glass	Float, Low-E, PV
Key COGS items (our estimates)	Natural gas (30%), Electricity (12), Soda ash (10), PVB (9)	Fuel (24%), Electricity (13), Soda ash (13), Packaging materials and coating liquid (12), Silica sand (11)	Energy (45), Soda ash (15)	Float glass (28%), Energy (16), PVB (11)	Energy (45%), Soda ash (10)	Natural gas (30%), Soda ash (10)	Natural gas (30%), Soda ash (10)
Float glass capacity growth (2015)	+9.6%	Flat	Flat	n/a	n/a	n/a	n/a
Float glass capacity growth (2016e)	+15.8%	Flattish	Flattish	n/a	n/a	n/a	n/a
Customer/Product Mix							
Automotive glass	33%	0%		~97%	0%	n/a	
Construction glass	23%	~12%		0%	0%	~36%	
Float glass	44%	~10%	Primarily construction glass	~100% for internal use	~100%	~44%	Primarily construction glass
PV glass	Thru' 26%-owned XYS	~75%					
Others	0%	~3%		~3%	0	~20%	
Financial data - 1H16							
Revenue (Rmb mn)	5,885	1,522	918	7,584	137	4,228	3,013
% y/y	11%	1.6%	-3%	15%	-63%	27%	30%
Net profit (Rmb mn)	1,369	331	-94	1,440	-26	467	125
% y/y	45%	71%	n/a	18%	n/a	127%	100%
GPM (%)	34.7%	36.8%	10.5%	42.2%	5.9%	n/a	20.5%
NPM (%)	23.3%	21.8%	-10.3%	19.0%	-18.8%	11.0%	4.1%
Financial data - FY15							
Revenue (Rmb mn)	11,460	2,914	1,969	13,573	662	7,430	5,169
% y/y	6%	3%	-21%	5%	0%	5%	4%
Net profit (Rmb mn)	2,113	434	-426	2,605	144	300	171
% y/y	55%	10%	n/a	17%	583%	-32%	-45%
GPM (%)	27.3%	29.3%	4.0%	41.5%	2.4%	21.6%	18.0%
NPM (%)	18.4%	14.9%	-21.7%	19.2%	Core NPM: -0.1%	8.4%	3.3%
Staff costs as % of sales	8.5%	6.9%	13.7%	15.0%	7.6%	3.7%	2.2%
R&D as % of sales	n/a	3.5%	0.1%	4.4%	2.1%	3.2%	n/a
Net debt to equity	38%	5%	47%	-7%	221%	65%	82%



Industrial | Misc. Manufacturer

Float Glass Business Recovery Intact

Float glass business recovery momentum to sustain

We expect the float glass business of Xinyi (c.44%/18% of total revenue/GP respectively in FY15 and historically a key swing factor to Xinyi's overall profitability) to report decent profit growth and continued margin recovery in 2H16 and FY17.

In our view, the recovery is premised on:

- i. Mid-single digit to low-teen volume growth and stable pricing, as Xinyi gains market share from weaker competitors on Government's supply-side reform initiatives and rationalisation of industry supply;
- ii. Improved demand from the property construction sector, a key user of float glass in China;
- iii. Declining natural gas import prices into China and further potential domestic price cuts by China's National Development and Reform Commission in 2016/2017.

Accelerated float glass price rebound since May

Float glass market prices across major cities in China have rebounded since Jun-2015. Following a 5.9% YoY increase in 1H16, industry float glass prices continued to rise c.12% since end-1H16.

In our view, this recovery trend should continue into 2H16 and FY17F on the back of improved industry supply dynamics. We reckon that many high-cost regional producers with substandard production lines have exited the market following years of cost pressures as a result of high raw material costs (including heavy oil and natural gas). We estimate that every 1% change in float glass average selling prices (ASPs) will lead to a 1.5% change in Xinyi's net profit.

In fact, effective capacity (ie capacity operating on a regular basis) of the flat glass industry (of which float glass represented c.80% in 2015) declined by c.3% YoY in 2015, according to Xinyi.

As at August, there were 352 float glass production lines in China, of which 239 were effective. The number of suspended lines accounted for c.32% of total production lines in China. While we believe that some idle lines have been put back to operation on improved margin outlook – given that suspended lines fell from 38% in April – we believe the rebound in effective capacity will be manageable, as many remain unprofitable even at the current price/cost levels.

In addition, as private enterprises represent some 80% of the float glass market, chances of having poor performing state-owned players are lower. For instance, the collapse of the Jiangsu Farun (the largest glass manufacturer for over a decade until 2010) in 2015 due to over expansion and substandard pollution control, shows inefficient players will not be bailed out.

Overall, we are projecting flattish effective industry capacity growth in 2016/17, as smaller players exit the market on low efficiency, and the Government pushes supply-side reform initiatives.



14 September 2016

Industrial | Misc. Manufacturer



Figure 2: Number of float glass production lines in China



Figure 3: Percentage of production lines in suspension



Source: Wind, RHB

Although we saw a modest rebound in effective daily capacity in recent months as some idle production lines have been put back to operation, we are of the view that the modest supply increase has been largely absorbed by the market given stable industry inventory levels.

Inventory levels have actually declined from c.35m weight cases to c.32m weight cases since March. Inventory levels as a percentage of effective capacity has been stable at c.3-4% for the past one year, implying healthy supply/demand dynamics.



Hong Kong Reinitiating Coverage

Industrial | Misc. Manufacturer

14 September 2016



Jan-10 Jan-11 Jan-12 Jan-13 Jan-14 Jan-15 Jan-16 Source: Wind, RHB

Figure 6: Float glass industry utilisation rates in China









Source: Wind, RHB

End-market demand stabilises

According to the China Architectural and Industrial Glass Industry Association, around 60% of float glass produced in China is used in construction and related industries (eg windows and walls), while automobile-related demand accounts for c.20% (a typical passenger vehicle uses 5-6 pieces of glass as wind shield, windows and display boards).

The turnaround in accumulated property new starts since February (c.13.7% YoY growth during 7M16) shows that demand from the property sector is picking up following two years of sluggishness.

The automobile market data also paints an encouraging picture. According to China Association of Automobile Manufacturers (CAAM), accumulated auto sales during 7M16 were up 9.8% YoY. The robust growth in new-energy vehicles (+98.1% YoY to 207,000 units during 7M16) and rising middle class in China should continue to drive auto-glass demand for both the new car and replacement markets.

According to CAAM, auto sales in China are expected to rise 6.1% YoY in 2016, which implies a healthy growth pace for the rest of 2016. CAAM also forecasts new-energy car sales to reach 700,000 in 2016.



Source: Wind, RHB

Hong Kong Reinitiating Coverage

14 September 2016

Figure 8: Property new start gross floor area (GFA) in China



Source: Wind, RHB

Source: Wind, RHB

Jul-11 Oct-11

Apr-1

60 50

40

30

20

10

0

(10) an-1

(20)

(30)(40)

Figure 9: Auto sales growth in China

Jan-13⁻ Apr-13⁻ Jul-13 Oct-13 Jan-14

Jul-12 Oct-12

Natural gas price decline, stable soda ash price – additional margin drivers

Based on information disclosed by peer companies - including Flat Glass Group (FGG) (6865 HK, NR) and Fuyao Glass Industry Group (Fuyao) (3606 HK, NR) - we estimate that natural gas cost accounts for c.30% of Xinyi's total cost of goods sold (COGS), followed by electricity (c.12%), soda ash (c.10%) and polyvinyl butyral (PVB) (c.9%). According to Xinyi's management, imported natural gas accounts for c.40% of total gas usage (mainly for its production plants in Guangdong) while domestic gas sources account for the remaining c.60%.

Energy costs, 45.0%

Figure 10: Estimated float glass COGS breakdown

Others, 11.0%

Soda ash, 14.9%

D&A. 12.6%

Other raw materials 12 7%

Source: Company data, RHB

Wages, 3.8%



Figure 11: Estimated automobile glass COGS breakdown

The imported natural gas price is closely tied to international gas prices, which have plummeted c.50% since 2014 as the shale gas boom in US ignited an oversupply situation. For instance, imported gas price (in USD terms) has declined by c.31% YoY during 8M16, after falling c.26% YoY in 2015.

Domestic gas prices are regulated by the NDRC with price adjustments on an irregular basis. In Nov 2017, NDRC initiated a price cut of CNY0.7/cubic meter (c.28% cut on average) for non-residential city-gate gas. The market is generally expecting another price cut in late-2016 or 2017, given weak downstream industrial demand on elevated domestic prices.

Soda ash, another key cost component, has seen stable price movements in the range of c.CNY1,200-1,500/tonne in the past few years. Given the balanced supply and demand situation in China and globally, we expect the stable price trend for soda ash to continue into 2H16F and FY17F.



Industrial | Misc. Manufacturer

Oct-14⁻ Jan-15

Apr-14 Jul-14

Cumulative Auto Sales Growth (% y/y)

Oct-15⁻

15 Jul-15

Apr-

Jan-16

Jul-16

16

Apr-

Industrial | Misc. Manufacturer

14 September 2016

Figure 12: Liquefied natural gas import price in China



Figure 13: Soda ash price in China



Respectable market share gains over the past decade

The float glass industry in China is highly fragmented with the top 10 players accounting for c.34% of total capacity. According to our estimates, Xinyi is the largest player with c.6.6% market share by capacity as at August.

Our calculations show that Xinyi has gained market share from competitors since the financial crisis in 2008, by leveraging on its solid balance sheet and ready access to international funding sources supported by its HK listing status. We highlight that Xinyi's float glass capacity has jumped from c.2,600 tonnes/day at end-2006 to c.13,800 tonnes/day at the end of August, whilst its market share has increased from an estimated 2% to 6.6% over the same period.

Figure 14: Xinyi's market share in China by capacity



Figure 15: Float glass market share by capacity (August)



Source: Wind RHB



Industrial | Misc. Manufacturer

Stable Auto Glass Business

Xinyi focuses on after-sales replacement market

The automotive glass market is typically divided into two segments:

- i. Original equipment manufacturers (OEM) market for glass products that are sold to automobile manufacturers for installation on new vehicles;
- ii. After sales replacement glass (ARG) market for products sold to aftermarket suppliers for replacement purposes.

While the overall automotive glass market is dominated by Fuyao given its strong foothold in the OEM market segment (c.90% of industry volume), we believe Xinyi has carved a niche for itself by focusing on the ARG market (c.10% of total automotive glass market volume). Auto glass sales accounted for c.33%/54% of Xinyi's sales/GP in FY15.

Xinyi has a long history of supplying laminated windshields to overseas customers. According to Xinyi, its automobile glass accounts for over 20% of the world's aftermarket automobile glass production and is exported to over 130 countries.

By export volume, Xinyi is the largest exporter in the automobile aftermarket sector. North America (primarily US and Canada) and Europe are key export markets for Xinyi's automobile business.

According to the International Organisation of Motor Vehicle Manufacturers (OICA), the number of vehicles in use globally has been growing steadily at low-to-mid single digit per year since 2005-2014. Despite the global financial crisis in 2009, the total number of vehicles in use still managed to grow by 2.8% YoY.

The North American and European markets also showed resilient growth. Based on the estimates done by the Automotive Aftermarket Industry Association (AAIA), vehicles on average have a windshield replacement rate of 3.39% every year. Driven by steady replacement demand, we believe that the after-sales market is a smaller but more stable market compared to the OEM market.



Source: Fuyao Glass prospectus, RHB







Industrial | Misc. Manufacturer

14 September 2016





Industry supply-demand dynamics

Float glass is a major type of raw flat glass, generally used for further processing into other glass products (eg curtail walls, household glass, automobile glass) and accounted for over 90% of all flat glass production in China. Therefore, flat glass industry data is highly representative of the float glass industry.

The flat glass industry has long been a target for the NDRC to impose out-dated capacity elimination and tighter environmental controls on new capacity. According to the Ministry of Industry and Information Technology (MIIT) in China, flat glass capacity of c.173m weight cases per year has been eliminated by the Chinese Government since 2010-2014.

We estimate a further c.51.8m/53.8m of capacity to be eliminated by the Government in 2015/2016. Together with some out-dated capacity eliminated (to be eliminated) by market forces, we estimate that effective capacity has declined by c.11% in 2015, and will only grow by a modest 4%/3% in 2016/2017.

			2040	2044	2042	2042	2044	2045	20405	20475
(m weight case/year)	2008	2009	2010	2011	2012	2013	2014	2015	2016F	2017F
New addition		88.0	106.0	117.0	84.0	82.0	87.0	-46.0	46.0	40.0
Total capacity	603.0	691.0	797.0	914.0	998.0	1080.0	1167.0	1121.0	1167.0	1207.0
Capacity phased out by Gov't			18.4	30.4	58.6	28.0	37.6	51.8^	53.8	55.8
Idle/Phased-out capacity	104.0	107.0	90.0	174.0	169.0	190.0	196.0	259.0	269.0	279.0
Effective capacity	499.0	584.0	707.0	740.0	829.0	890.0	971.0	862.0	898.0	928.0
% YoY		17%	21%	5%	12%	7%	9%	-11%	4%	3%
Production	598.9	585.7	663.3	791.1	750.5	792.9	831.3	738.6	769.5	795.2

Figure 20: Flat glass industry supply and demand

Source: Wind, MIIT, RHB. ^Our estimates



Industrial | Misc. Manufacturer

Leader In Energy-Saving Construction Glass

Largest low-e glass manufacturer in China

Xinyi is the largest manufacturer of energy-saving low-e construction glass in China, with a market share of c.18% in terms of sales volume (2014).

Low-e glass is a type of glass that is coated with a thin film to reduce the emission of radiant infrared energy. Low-e glass is generally used in the real estate industry to improve the energy efficiency of buildings via reducing thermal exchange between the building and the outside environment.

Low-e glass is a major product within the architectural glass product type. The low-e glass segment is rather consolidated with the top four players accounting for c.57% of the total market.

According to Frost & Sullivan, the sales volume for low-e glass in China is expected to reach 280.9m square meter in 2020 from 158.2m sqm in 2014, translating to c.10% CAGR over the same period. We believe the strong growth is primarily driven by rising standards on the energy efficiency of buildings in China.

The penetration rate of low-e glass in China is still very low at c.11%, compared to >80% in developed countries such as Germany and the US. Construction glass (primarily low-e glass) accounted for c.23%/29% of Xinyi's sales/GP in FY15.



Figure 22: China's low-e glass industry market share by volume (2014)



Source: ASKCI, RHB

Source: Flat Glass. RHB





Industrial | Misc. Manufacturer

Xinyi Solar: China's Largest Solar Glass Maker

Solar glass exposure via c.27%-owned Xinyi Solar

Xinyi Solar used to be a fully-owned subsidiary of Xinyi before the former's spin-off in Dec 2013 on the main board. Xinyi held a 31.2% stake in Xinyi Solar immediately after the spin-off.

After three rounds of placements in Aug 2014, Mar 2015 and Oct 2015, Xinyi's shareholding in Xinyi Solar was reduced to 26.54%. The contribution from Xinyi Solar is reflected under "share in profit/loss of associates" at Xinyi.

There is very strong market demand for solar glass currently as the Chinese Government pushes forward its aggressive photovoltaic (PV) installation target for 2020. Xinyi Solar is the largest solar glass manufacturer in China with a dominant market share of c.30-35%.

Leveraging on its solar glass manufacturing capabilities and EPC experience, Xinyi Solar is rapidly expanding into the downstream solar farming business, which should display explosive growth over the next two years, in our view.

At end-1H16, Xinyi Solar had around 1,074MW grid-connected solar farm projects, which included 20MW wholly-owned projects, 954MW projects held by 75%-owned subsidiaries (Xinyi Energy), and a 100MW project held by a joint-venture (JV). Xinyi Solar has set an installation target of 1.7GW cumulative installed capacity by end-2016.

Based on an installation scale of c.1,000MW per year during FY16-18F, we estimate solar farms' contribution to Xinyi Solar's GP to rise to 23%, 34% and 40% for the three-year period, from 13% in FY15.

Net profits at Xinyi Solar are projected to reach c.HKD2.1bn, 2.9bn and 3.7bn in FY1-18, translating to associate profit contributions of c.HKD560m, HKD767m HKD975m respectively for Xinyi (or c.17-23% of Xinyi's pre-tax profit).

Our net profit estimates for Xinyi Solar is c.4%/10%/20% higher than consensus estimates mainly due to higher margin assumptions. Our assumptions for solar farm projects include:

- i. Utilisation hours of c.1,100 per year;
- ii. Tariff of c.CNY0.86-0.9 per kWh;
- iii. GPM of 71%, 68% and 68% for FY16F-18F.

Figure 23: Xinyi Solar's solar farm projects

Project Location	Capacity (MW)	Grid-Connection Start
Jinzhai, Lu'an, Anhui	150	4Q14
Sanshan, Wuhu, Anhui	100	1Q15
Nanping, Fujian	30	1Q15
Lixin, Bozhou, Anhui - Phase 1	40	3Q15
Lixin, Bozhou, Anhui - Phase 2	100	1Q16
Wuwei, Wuhu, Anhui	100	4Q15
Hongan, Hubei - Phase 1	50	4Q15
Hongan, Hubei - Phase 2	50	1Q16
Fanchang, Anhui - Phase 1	40	4Q15
Fanchang, Anhui - Phase 2	20	2Q16
Shou, Lu'an, Anhui	100	4Q15
Tianjin Binhai	174	1Q16
Huainan, Anhui	20	1Q16
Total (end-1H16):	974	
2H16 Addition	380	
FY17 Addition	1,000	
FY18 Addition	1,000	



Figure 24: Xinyi Solar's raw PV glass capacity

Hong Kong Reinitiating Coverage

Industrial | Misc. Manufacturer

14 September 2016

8,000 (tpd) 6,800 7,000 5,800 6,000 5.000 3.800 3,900 4,000 3,000 2,000 2,000 2,000 1,000 0 FY12 **FY13 FY14** FY15 FY16F FY17F Source: Company data, RHB

Figure 25: Xinyi Solar's solar farm cumulative installed capacity 4,000 3,500 3,000



Earnings Forecasts And Financials

Changes to our estimates

We have raised our earnings estimates for Xinyi after factoring in:

- Higher ASP and margin estimates for the float glass segment following the strong 1H16 results, and sustained ASP and cost trends into 2H16F. We expect continued gross margin recovery for the float glass segment to 22.4%/24.2% in FY17F/FY18F due to the pick-up in property new start activities and more controlled industry capacity expansion;
- ii. Stronger earnings contributions from Xinyi Solar, as we believe the solar farm expansion will accelerate into FY16F/FY17F. We have also introduced estimates for FY18 post the release of 1H16 results.

Overall, we have revised up our recurring net profit estimates by 38%/34% in FY16F/17F and are projecting growth of 57%/16%/16% in FY16-18F. The growth is primarily driven by:

- i. Steady auto glass and construction glass businesses;
- ii. Continued margin recovery at the float glass business;
- iii. Rising contributions from solar power associate, Xinyi Solar.

Our net profit estimates for Xinyi are 4.3%/3.0%/4.2% higher than consensus estimates in FY16-18F.



Industrial | Misc. Manufacturer

Figure 26: Changes to our Xinyi earnings estimates and turnover mix

		FY16F			FY17F		FY18F
(HKDm)	New	Old	Chg	New	Old	Chg	New
Turnover							
Auto glass	4,014	4,211	-4.7%	4,255	4,378	-2.8%	4,510
Construction glass	2,946	3,412	-13.7%	3,213	3,829	-16.1%	3,505
Float glass	5,936	5,930	0.1%	6,714	6,554	2.4%	7,595
Total	12,895	13,553	-4.9%	14,182	14,761	-3.9%	15,610
GPM							
Auto glass	49.0%	43.7%	5.3 ppt	48.0%	43.7%	4.3 ppt	48.0%
Construction glass	39.0%	31.0%	8.0 ppt	39.0%	31.0%	8.0 ppt	39.0%
Float glass	22.4%	11.9%	10.5 ppt	24.2%	13.8%	10.4 ppt	25.2%
Blended	34.4%	26.6%	7.8 ppt	34.6%	27.1%	7.5 ppt	34.8%
Revenue	12,926	13,553	-4.6%	14,283	14,761	-3.2%	15,725
Gross profit	4,451	3,605	23.5%	4,943	4,005	23.4%	5,473
Operating profit	2,770	2,005	38.2%	3,115	2,307	35.0%	3,492
Share of profit of an associate	560	439	27.6%	767	607	26.4%	975
Profit before tax	3,279	2,407	36.2%	3,830	2,876	33.2%	4,434
Reported net profit	2,852	2,061	38.4%	3,293	2,463	33.7%	3,813
Recurring net profit	2,852	2,061	38.4%	3,293	2,463	33.7%	3,813
Gross margin	34.4%	26.6%	7.8 ppt	34.6%	27.1%	7.5 ppt	34.8%
Operating margin	21.4%	14.8%	6.6 ppt	21.8%	15.6%	6.2 ppt	22.2%
Net margin	22.1%	15.2%	6.9 ppt	23.1%	16.7%	6.4 ppt	24.2%
Recurring profit margin	22.1%	15.2%	6.9 ppt	23.1%	16.7%	6.4 ppt	24.2%

Source: Company data, RHB

Figure 27: Xinyi's net profit estimates vs consensus

(HKD m)	2016F	2017F	2018F
RHB	2,852	3,293	3,813
Consensus	2,734	3,198	3,658
% Difference	4.3%	3.0%	4.2%

Source: Bloomberg, Company data, RHB



14 September 2016

Industrial | Misc. Manufacturer

Figure 28: Xinyi's detailed Pa (HKDm)	1H15	2H15	1H16	2H16F	FY14	FY15	FY16F	FY17F	FY18F
Revenue									
Auto glass	1,897	1,890	1,990	2,024	3,593	3,787	4,014	4,255	4,510
Construction glass	1,206	1,445	1,220	1,711	2,556	2,651	2,931	3,197	3,488
Float glass	2,180	2,843	2,675	3,306	4,712	5,022	5,981	6,831	7,728
Total	5,283	6,177	5,885	7,040	10,861	11,460	12,926	14,283	15,725
% YoY									
Auto glass	6.5%	4.2%	4.9%	7.1%	9.3%	5.4%	6.0%	6.0%	6.0%
Construction glass	11.8%	-2.1%	1.1%	18.4%	18.6%	3.8%	10.6%	9.1%	9.1%
Float glass	0.2%	12.0%	22.7%	16.3%	4.9%	6.6%	19.1%	14.2%	13.1%
Total	4.9%	6.0%	11.4%	14.0%	9.3%	5.5%	12.8%	10.5%	10.1%
% Mix									
Auto glass	35.9%	30.6%	33.8%	28.7%	33.1%	33.0%	31.1%	29.8%	28.7%
Construction glass	22.8%	23.4%	20.7%	24.3%	23.5%	23.1%	22.7%	22.4%	22.2%
Float glass	41.3%	46.0%	45.5%	47.0%	43.4%	43.8%	46.3%	47.8%	49.1%
GPM									
Auto glass	44.1%	44.6%	48.7%	49.3%	41.8%	44.3%	49.0%	48.0%	48.0%
Construction glass	31.7%	35.6%	39.0%	39.0%	35.3%	33.9%	39.0%	39.0%	39.0%
Float glass	8.7%	12.9%	22.3%	22.5%	7.0%	11.1%	22.4%	24.2%	25.2%
Blended	26.7%	27.9%	34.7%	34.2%	25.2%	27.3%	34.4%	34.6%	34.8%
Revenue	5,283	6,177	5,885	7,040	10,861	11,460	12,926	14,283	15,725
% YoY	4.9%	6.0%	11.4%	14.0%	9.3%	5.5%	12.8%	10.5%	10.1%
COGS	(3,873)	(4,455)	(3,844)	(4,631)	(8,128)	(8,328)	(8,475)	(9,340)	(10,252)
Gross profit	1,410	1,723	2,041	2,409	2,733	3,133	4,451	4,943	5,473
GPM	26.7%	27.9%	34.7%	34.2%	25.2%	27.3%	34.4%	34.6%	34.8%
Other income	112	103	104	51	178	215	155	186	204
Selling and marketing costs	(312)	(367)	(351)	(411)	(608)	(680)	(763)	(843)	(912)
Administrative expenses	(441)	(494)	(533)	(630)	(1,030)	(935)	(1,163)	(1,271)	(1,384)
Opex% sales	(14.2%)	(14.0%)	(15.0%)	(14.8%)	(15.1%)	(14.1%)	(14.9%)	(14.8%)	(14.6%)
Gain on spin off									
Operating profit	944	1,168	1,304	1,467	1,494	2,113	2,770	3,115	3,492
OPM	17.9%	18.9%	22.2%	20.8%	13.8%	18.4%	21.4%	21.8%	22.2%
% YoY	11.9%	79.7%	38.1%	25.5%	(59.2%)	41.4%	31.1%	12.4%	12.1%
Non-recurring items	156				254	331			
Finance costs	(46)	(44)	(60)	(36)	(91)	(90)	(96)	(96)	(96)
Share of profit of an associate	161	157	312	248	138	317	560	767	975
PBT	1,085	1,295	1,572	1,707	1,593	2,380	3,279	3,830	4,434
Тах	(138)	(128)	(202)	(224)	(228)	(266)	(426)	(536)	(621)
Tax rate	(12.7%)	(9.9%)	(12.9%)	(13.1%)	14.3%	11.2%	13.0%	14.0%	14.0%
Minority interests	(2)	1	0	(0)	(1)	(0)	(0)	(0)	(0)
Reported NP	945	1,168	1,370	1,483	1,364	2,113	2,852	3,293	3,813
NPM	17.9%	18.9%	23.3%	21.1%	12.6%	18.4%	22.1%	23.1%	24.2%
% YoY	24.0%	94.1%	45.0%	26.9%	(61.3%)	55.0%	35.0%	15.5%	15.8%
Recurring NP	789	1,168	1,370	1,483	1,146	1,819	2,852	3,293	3,813
NPM	14.9%	18.9%	23.3%	21.1%	10.6%	15.9%	22.1%	23.1%	24.2%
% ҮоҮ	39.1%	130.1%	73.7%	26.9%	(45.9%)	58.7%	56.8%	15.5%	15.8%



Figure 29: Xinvi's key assumptions

Hong Kong Reinitiating Coverage

Industrial | Misc. Manufacturer

	2013	2014	2015	2016F	2017F	2018F
Sales (HK\$ m)						
Auto glass	3,287	3,593	3,787	4,014	4,255	4,510
Construction glass	2,155	2,556	2,651	2,931	3,197	3,488
Float glass	4,494	4,712	5,022	5,981	6,831	7,728
Total	9,936	10,861	11,460	12,926	14,283	15,725
Sales Mix (%)						
Auto glass	33.1%	33.1%	33.0%	31.1%	29.8%	28.7%
Construction glass	21.7%	23.5%	23.1%	22.7%	22.4%	22.2%
Float glass	45.2%	43.4%	43.8%	46.3%	47.8%	49.1%
Revenue growth (%)						
Auto glass	6.8%	9.3%	5.4%	6.0%	6.0%	6.0%
Construction glass	36.8%	18.6%	3.8%	10.6%	9.1%	9.1%
Float glass	18.9%	4.9%	6.6%	19.1%	14.2%	13.19
Total	17.8%	9.3%	5.5%	12.8%	10.5%	10.1%
Capacity growth (%)						
Auto glass	14%	10%	1%	5%	3%	2%
Construction glass	8%	40%	32%	19%	5%	4%
Float glass	5%	8%	10%	16%	7%	5%
Volume growth (%)						
Auto glass	3%	6%	5%	6%	6%	6%
Construction glass	10%	18%	4%	10%	8%	8%
Float glass	n/a	20%	10%	12%	11%	119
ASP growth (%)						
Auto glass	3%	3%	0%	0%	0%	0%
Construction glass	24%	0%	0%	1%	1%	19
Float glass	n/a	-13%	-3%	7%	3%	29
Cost growth (%)						
Per-unit natural gas cost	n/a	4%	-25%	-25%	4%	49
Gross margin (%)						
Auto glass	43.3%	41.8%	44.3%	49.0%	48.0%	48.0%
Construction glass	39.9%	35.3%	33.9%	39.0%	39.0%	39.0%
Float glass	19.0%	7.0%	11.1%	22.4%	24.2%	25.2%
Total	31.6%	25.2%	27.3%	34.4%	34.6%	34.8%

Source: Company data, RHB

Figure 30: Xinyi's sensitivity analysis summary

% Impact on 2017F net profit
1.5%
(1.3%)
1.8%



Industrial | Misc. Manufacturer

Valuations

We have lifted our TP to HKD8.40 on our refreshed earnings forecasts. Our new TP offers a 17% upside from the current price level, and is pegged at 10x FY17F P/E (previously 10x FY16F P/E), which is in line with the stock's 10-year average forward P/E multiple.

By comparison, HK-listed peers are trading at FY17F P/E of 8.8x, whilst China A-shares peers are trading at a substantially higher FY17F P/E of 25.9x.

We have also cross-checked against the stock's implied forward P/BV multiple, which stands at 2.1x or 2.1SD above the 10-year average. We believe the P/BV premium above its long-term average is fair, given that Xinyi is experiencing an earnings up-cycle.

As Xinyi Solar was spun off from Xinyi in Dec 2013, we also highlight the valuations by stripping out Xinyi Solar. Based on the current market capitalisation and valuations of Xinyi and Xinyi Solar, the market is currently implying a FY17F P/E of 8.7x for Xinyi's non-solar business, which is well-below the 10-year average 1-year forward P/E of 13.1x, or 1.1SD below the mean.

Key risks to our call include an abrupt rebound in production capacity in the float glass industry, and a sharp rebound in imported natural gas costs. Key catalysts are a faster-than-expected float glass price rebound and further decline in natural gas costs.

Figure 31: Xinyi's valuations excluding Xinyi Solar

(HKDm)	FY17F	Notes
Recurring net profit	3,293	
Target multiple (x)	10x	
Target price (HKD)	8.40	
Recurring net profit	3,293	
(-) share of interests from Xinyi Solar	(767)	
Core glass profit	2,526	
Current mkt cap of Xinyi Glass	27,757	(a)
Current mkt cap of Xinyi Solar	21,934	(b)
Implied core glass mkt cap	21,923	(c)=(a)-(b)*26.6%
Implied P/E for core glass business	8.7x	

Source: Company data, RHB

Figure 32: Xinyi's TP sensitivity to target P/E and recurring EPS

				Target P/E		
		8x	9x	10x	11x	12x
	+25%	8.4	9.4	10.5	11.5	12.6
	+20%	8.1	9.1	10.1	11.1	12.1
	+15%	7.7	8.7	9.7	10.6	11.6
	+10%	7.4	8.3	9.2	10.2	11.1
FY17F	+5%	7.1	7.9	8.8	9.7	10.6
Recurring	Base case	6.7	7.6	8.4	9.2	10.1
EPS	-5%	6.4	7.2	8	8.8	9.6
	-10%	6	6.8	7.6	8.3	9.1
	-15%	5.7	6.4	7.1	7.9	8.6
	-20%	5.4	6	6.7	7.4	8.1
	-25%	5	5.7	6.3	6.9	7.6





Industrial | Misc. Manufacturer

14 September 2016

Figure 33: Xinyi's past 10-year forward P/E (x) 25 20 +2sd: 17.64x +1sd: 14.1x 15 Mean: 10.5x 10 -1sd: 7.0x 5 -2sd: 3.4x 0 Jan-16 -Jul-16 -| Jul-06 -Jul-15 ⁻ Jan-06 Jul-12 Jan-13 Jul-13 Jan-15 Jan-07 Jul-07 Jan-08 Jul-08 Jan-09 Jul-09 Jan-10 Jul-10 Jul-11 Jan-12 Jan-14 Jul-14 Jan-11

Figure 34: Xinyi's past 10-year forward P/BV



Source: Bloomberg, Company data, RHB

(x) 4.0

Source: Bloomberg, Company data, RHB

Figure 35: Xinyi's (excl. Xinyi Solar) past 10-year forward P/E



Source: Bloomberg, Company data, RHB

Figure 36: Peer comparison I

Company	Ticker	Price	Mkt cap	3-mth	P/E Hist	P/E FY1	P/E FY2	EPS	EPS	3-Yr EPS	PEG (x)	Div yld	Div yld	P/B Hist	P/B FY1
		(USDm)	avg t/o (USDm)	(x)	(x)	(x)	FY1 YoY%	FY2 YoY%	Cagr (%)		Hist (%)	FY1 (%)	(x)	(x)	
Xinyi Glass	868 HK	7.21	3,613	11.2	13.4	9.9	8.6	35.0	15.5	28.0	0.5	4.7	4.5	2.1	1.8
HK-listed peers															
Fuyao Glass In-H	3606 HK	20.10	6,165	4.8	15.7	14.5	12.7	8.6	13.9	11.0	1.3	4.4	4.5	2.6	2.4
Xinyi Solar Hlds	968 HK	3.28	2,853	9.2	17.7	11.1	8.6	59.7	28.7	33.5	0.3	5.1	3.8	3.4	2.9
Flat Glass Group	6865 HK	1.79	415	0.4	5.0	5.3	5.0	(6.8)	6.9	7.8	0.7	4.7	N/A	1.1	0.8
Average					12.8	10.3	8.8	20.5	16.5	17.5	0.8	4.7	4.1	2.4	2.0
China A-shares pee	<u>rs</u>														
Fuyao Glass-A	600660 CH	16.19	6,165	25.8	14.7	13.8	12.1	6.5	14.5	10.2	1.4	4.6	4.7	2.5	2.2
Csg Holding Co-A	000012 CH	11.40	2,896	44.8	38.0	28.3	22.5	34.3	25.8	27.2	1.0	2.6	2.6	N/A	2.7
Changzhou Alma-A	002623 CH	34.00	814	15.1	100.0	91.9	54.0	8.8	70.3	42.3	2.2	0.1	N/A	2.5	2.5
Zhuzhou Kibing-A	601636 CH	3.69	1,383	35.9	53.1	14.6	15.2	264.0	(4.0)	60.4	0.2	1.1	N/A	1.7	1.6
Average					51.5	37.1	25.9	78.4	26.7	35.0	1.2	2.1	3.7	2.3	2.3

Note: Share price related data as at 13 Sep 2016. Source: RHB, Bloomberg



14 September 2016

Industrial | Misc. Manufacturer

Figure 37: Peer comparison II

Company	Rev Hist	Rev FY1	NP Hist	NP FY1	Net		Unlev beta	Gross margin	Net margin	Net ROE Hist ROE FY			1 Shpx	Sh px
	(USDm)	(USDm)	(USDm)	(USDm)						margin	(%)	(%)	1-mth %	3-mth %
					Hist (%)	FY1 (%)		Hist (%)	Hist (%)	FY1 (%)				
Xinyi Glass	1,477	1,657	272	366	38.3	33.1	0.7	27.3	18.4	22.1	19.5	21.0	5.3	41.9
HK-listed peers														
Fuyao Glass In-H	2,032	2,375	390	450	0.0	1.8	N.A	41.5	19.2	19.0	20.6	17.4	(2.0)	14.9
Xinyi Solar Hlds	612	846	155	260	10.5	45.6	0.8	36.0	25.4	30.8	30.4	29.9	1.5	13.0
Flat Glass Group	436	455	65	78	5.4	N/A	N.A	29.3	14.9	17.1	20.5	19.1	10.5	19.3
Average					5.3	23.7	0.8	35.6	19.8	22.3	23.9	22.1	3.4	15.7
China A-shares peers														
Fuyao Glass-A	2,032	2,349	390	440	0.0	2.4	0.6	41.5	19.2	18.7	18.3	16.7	(1.1)	18.7
Csg Holding Co-A	1,107	1,364	94	125	64.5	N/A	0.6	21.2	8.5	9.2	N/A	9.8	(4.8)	4.4
Changzhou Alma-A	163	234	8	9	0.0	N/A	1.3	15.7	5.0	3.7	1.7	2.7	2.8	11.5
Zhuzhou Kibing-A	770	1,051	26	95	81.6	N/A	0.6	17.6	3.3	9.1	4.4	11.1	(1.1)	18.6
Average					36.5	2.4	0.7	24.0	9.0	10.2	8.1	10.1	(1.0)	13.3

Source: RHB





SWOT Analysis



Recommendation Chart



Recommendation	Target Price	Price
Buy	5.20	3.87
Buy	5.50	3.62
Buy	5.80	4.40
Neutral	4.60	4.04
Neutral	5.70	4.48
Buy	8.95	6.44
Buy	8.78	6.74
Buy	9.33	6.47
Buy	8.19	5.91
Buy	7.13	4.75
	Buy Buy Buy Neutral Neutral Buy Buy Buy Buy	Buy 5.20 Buy 5.50 Buy 5.80 Neutral 4.60 Neutral 5.70 Buy 8.95 Buy 8.78 Buy 9.33 Buy 8.19

Source: RHB, Bloomberg

Source: RHB, Bloomberg



Industrial | Misc. Manufacturer

RHB Guide to Investment Ratings

Buy: Share price may exceed 10% over the next 12 months Trading Buy: Share price may exceed 15% over the next 3 months, however longer-term outlook remains uncertain Neutral: Share price may fall within the range of +/- 10% over the next 12 months Take Profit: Target price has been attained. Look to accumulate at lower levels Sell: Share price may fall by more than 10% over the next 12 months Not Rated: Stock is not within regular research coverage

Investment Research Disclaimers

RHB has issued this report for information purposes only. This report is intended for circulation amongst RHB and its affiliates' clients generally or such persons as may be deemed eligible by RHB to receive this report and does not have regard to the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. This report is not intended, and should not under any circumstances be construed as, an offer or a solicitation of an offer to buy or sell the securities referred to herein or any related financial instruments.

This report may further consist of, whether in whole or in part, summaries, research, compilations, extracts or analysis that has been prepared by RHB's strategic, joint venture and/or business partners. No representation or warranty (express or implied) is given as to the accuracy or completeness of such information and accordingly investors should make their own informed decisions before relying on the same.

This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to the applicable laws or regulations. By accepting this report, the recipient hereof (i) represents and warrants that it is lawfully able to receive this document under the laws and regulations of the jurisdiction in which it is located or other applicable laws and (ii) acknowledges and agrees to be bound by the limitations contained herein. Any failure to comply with these limitations may constitute a violation of applicable laws.

All the information contained herein is based upon publicly available information and has been obtained from sources that RHB believes to be reliable and correct at the time of issue of this report. However, such sources have not been independently verified by RHB and/or its affiliates and this report does not purport to contain all information that a prospective investor may require. The opinions expressed herein are RHB's present opinions only and are subject to change without prior notice. RHB is not under any obligation to update or keep current the information and opinions expressed herein or to provide the recipient with access to any additional information. Consequently, RHB does not guarantee, represent or warrant, expressly or impliedly, as to the adequacy, accuracy, reliability, fairness or completeness of the information and opinion contained in this report. Neither RHB (including its officers, directors, associates, connected parties, and/or employees) nor does any of its agents accept any liability for any direct, indirect or consequential losses, loss of profits and/or damages that may arise from the use or reliance of this research report and/or further communications given in relation to this report. Any such responsibility or liability is hereby expressly disclaimed.

Whilst every effort is made to ensure that statement of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable and must not be construed as a representation that the matters referred to therein will occur. Different assumptions by RHB or any other source may yield substantially different results and recommendations contained on one type of research product may differ from recommendations contained in other types of research. The performance of currencies may affect the value of, or income from, the securities or any other financial instruments referenced in this report. Holders of depositary receipts backed by the securities discussed in this report assume currency risk. Past performance is not a guide to future performance. Income from investments may fluctuate. The price or value of the investments to which this report relates, either directly or indirectly, may fall or rise against the interest of investors.

This report does not purport to be comprehensive or to contain all the information that a prospective investor may need in order to make an investment decision. The recipient of this report is making its own independent assessment and decisions regarding any securities or financial instruments referenced herein. Any investment discussed or recommended in this report may be unsuitable for an investor depending on the investor's specific investment objectives and financial position. The material in this report is general information intended for recipients who understand the risks of investing in financial instruments. This report does not take into account whether an investment or course of action and any associated risks are suitable for the recipient. Any recommendations contained in this report must therefore not be relied upon as investment advice based on the recipient's personal circumstances. Investors should make their own independent evaluation of the information contained herein, consider their own investment objective, financial situation and particular needs and seek their own financial, business, legal, tax and other advice regarding the appropriateness of investing in any securities or the investment strategies discussed or recommended in this report.

This report may contain forward-looking statements which are often but not always identified by the use of words such as "believe", "estimate", "intend" and "expect" and statements that an event or result "may", "will" or "might" occur or be achieved and other similar expressions. Such forward-looking statements are based on assumptions made and information currently available to RHB and are subject to known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievement to be materially different from any future results, performance or achievement, expressed or implied by such forward-looking statements. Caution should be taken with respect to such statements and recipients of this



Industrial | Misc. Manufacturer

report should not place undue reliance on any such forward-looking statements. RHB expressly disclaims any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or circumstances after the date of this publication or to reflect the occurrence of unanticipated events.

The use of any website to access this report electronically is done at the recipient's own risk, and it is the recipient's sole responsibility to take precautions to ensure that it is free from viruses or other items of a destructive nature. This report may also provide the addresses of, or contain hyperlinks to, websites. RHB takes no responsibility for the content contained therein. Such addresses or hyperlinks (including addresses or hyperlinks to RHB own website material) are provided solely for the recipient's convenience. The information and the content of the linked site do not in any way form part of this report. Accessing such website or following such link through the report or RHB website shall be at the recipient's own risk.

This report may contain information obtained from third parties. Third party content providers do not guarantee the accuracy, completeness, timeliness or availability of any information and are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use of such content. Third party content providers give no express or implied warranties, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use. Third party content providers shall not be liable for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use of their content.

The research analysts responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously. The research analysts that authored this report are precluded by RHB in all circumstances from trading in the securities or other financial instruments referenced in the report, or from having an interest in the company(ies) that they cover.

RHB and/or its affiliates and/or their directors, officers, associates, connected parties and/or employees, may have, or have had, interests in the securities or qualified holdings, in subject company(ies) mentioned in this report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities. Further, RHB and/or its affiliates may have, or have had, business relationships with the subject company(ies) mentioned in this report to time seek to provide investment banking or other services to the subject company(ies) referred to in this research report. As a result, investors should be aware that a conflict of interest may exist.

The contents of this report is strictly confidential and may not be copied, reproduced, published, distributed, transmitted or passed, in whole or in part, to any other person without the prior express written consent of RHB and/or its affiliates. This report has been delivered to RHB and its affiliates' clients for information purposes only and upon the express understanding that such parties will use it only for the purposes set forth above. By electing to view or accepting a copy of this report, the recipients have agreed that they will not print, copy, videotape, record, hyperlink, download, or otherwise attempt to reproduce or re-transmit (in any form including hard copy or electronic distribution format) the contents of this report. RHB and/or its affiliates accepts no liability whatsoever for the actions of third parties in this respect.

The contents of this report are subject to copyright. Please refer to Restrictions on Distribution below for information regarding the distributors of this report. Recipients must not reproduce or disseminate any content or findings of this report without the express permission of RHB and the distributors.

The securities mentioned in this publication may not be eligible for sale in some states or countries or certain categories of investors. The recipient of this report should have regard to the laws of the recipient's place of domicile when contemplating transactions in the securities or other financial instruments referred to herein. The securities discussed in this report may not have been registered in such jurisdiction. Without prejudice to the foregoing, the recipient is to note that additional disclaimers, warnings or qualifications may apply based on geographical location of the person or entity receiving this report.

RESTRICTIONS ON DISTRIBUTION

Malaysia

This report is issued and distributed in Malaysia by RHB Research Institute Sdn Bhd. The views and opinions in this report are our own as of the date hereof and is subject to change. If the Financial Services and Markets Act of the United Kingdom or the rules of the Financial Conduct Authority apply to a recipient, our obligations owed to such recipient therein are unaffected. RHB Research Institute Sdn Bhd has no obligation to update its opinion or the information in this report.

Thailand

This report is issued and distributed in the Kingdom of Thailand by RHB Securities (Thailand) PCL, a licensed securities company that is authorised by the Ministry of Finance, regulated by the Securities and Exchange Commission of Thailand and is a member of the Stock Exchange of Thailand. The Thai Institute of Directors Association has disclosed the Corporate Governance Report of Thai Listed Companies made pursuant to the policy of the Securities and Exchange Commission of Thailand) PCL does not endorse, confirm nor certify the result of the Corporate Governance Report of Thai Listed Companies.



Indonesia

This report is issued and distributed in Indonesia by PT RHB Securities Indonesia. This research does not constitute an offering document and it should not be construed as an offer of securities in Indonesia. Any securities offered or sold, directly or indirectly, in Indonesia or to any Indonesian citizen or corporation (wherever located) or to any Indonesian resident in a manner which constitutes a public offering under Indonesian laws and regulations must comply with the prevailing Indonesian laws and regulations.

Singapore

This report is issued and distributed in Singapore by RHB Research Institute Singapore Pte Ltd and it may only be distributed in Singapore to accredited investors, expert investors and institutional investors as defined in the Financial Advisers Regulations and the Securities and Futures Act (Chapter 289), as amended from time to time. By virtue of distribution to these categories of investors, RHB Research Institute Singapore Pte Ltd and its representatives are not required to comply with Section 36 of the Financial Advisers Act (Chapter 110) (Section 36 relates to disclosure of RHB Research Institute Singapore Pte Ltd 's interest and/or its representative's interest in securities). Recipients of this report in Singapore may contact RHB Research Institute Singapore Pte Ltd in respect of any matter arising from or in connection with the report.

Hong Kong

This report is issued and distributed in Hong Kong by RHB Securities Hong Kong Limited (興業金融證券有限公司) (CE No.: ADU220) ("RHBSHK") which is licensed in Hong Kong by the Securities and Futures Commission for Type 1 (dealing in securities) and Type 4 (advising on securities) regulated activities. Any investors wishing to purchase or otherwise deal in the securities covered in this report should contact RHB Securities Hong Kong Limited.

United States

This report was prepared by RHB and is being distributed solely and directly to "major" U.S. institutional investors as defined under, and pursuant to, the requirements of Rule 15a-6 under the U.S. Securities and Exchange Act of 1934, as amended (the "Exchange Act"). RHB is not registered as a broker-dealer in the United States and does not offer brokerage services to U.S. persons. Any order for the purchase or sale of the securities discussed herein that are listed on Bursa Malaysia Securities Berhad must be placed with and through Auerbach Grayson ("AG"). Any order for the purchase or sale of all other securities discussed herein must be placed with and through such other registered U.S. broker-dealer as appointed by RHB from time to time as required by the Exchange Act Rule 15a-6.

This report is confidential and not intended for distribution to, or use by, persons other than the recipient and its employees, agents and advisors, as applicable.

Additionally, where research is distributed via Electronic Service Provider, the analysts whose names appear in this report are not registered or qualified as research analysts in the United States and are not associated persons of Auerbach Grayson AG or such other registered U.S. broker-dealer as appointed by RHB from time to time and therefore may not be subject to any applicable restrictions under Financial Industry Regulatory Authority ("FINRA") rules on communications with a subject company, public appearances and personal trading.

Investing in any non-U.S. securities or related financial instruments discussed in this research report may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the U.S. Securities and Exchange Commission. Information on non-U.S. securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in the United States.

The financial instruments discussed in this report may not be suitable for all investors.

Transactions in foreign markets may be subject to regulations that differ from or offer less protection than those in the United States.

OWNERSHIP AND MATERIAL CONFLICTS OF INTEREST

Malaysia

RHB does not have qualified shareholding (1% or more) in the subject company (ies) covered in this report except for: a) -

RHB and/or its subsidiaries are not liquidity providers or market makers for the subject company (ies) covered in this report except for: a) -

RHB and/or its subsidiaries have not participated as a syndicate member in share offerings and/or bond issues in securities covered in this report in the last 12 months except for:

a)

-

RHB has not provided investment banking services to the company/companies covered in this report in the last 12 months except for: a) -



Hong Kong Reinitiating Coverage

Industrial | Misc. Manufacturer

Thailand

RHB Securities (Thailand) PCL and/or its directors, officers, associates, connected parties and/or employees, may have, or have had, interests and/or commitments in the securities in subject company(ies) mentioned in this report or any securities related thereto. Further, RHB Securities (Thailand) PCL may have, or have had, business relationships with the subject company(ies) mentioned in this report. As a result, investors should exercise their own judgment carefully before making any investment decisions.

Indonesia

PT RHB Securities Indonesia is not affiliated with the subject company(ies) covered in this report both directly or indirectly as per the definitions of affiliation above.

Pursuant to the Capital Market Law (Law Number 8 Year 1995) and the supporting regulations thereof, what constitutes as affiliated parties are as follows:

- 1. Familial relationship due to marriage or blood up to the second degree, both horizontally or vertically;
- 2. Affiliation between parties to the employees, Directors or Commissioners of the parties concerned;
- 3. Affiliation between 2 companies whereby one or more member of the Board of Directors or the Commissioners are the same;
- 4. Affiliation between the Company and the parties, both directly or indirectly, controlling or being controlled by the Company;
- 5. Affiliation between 2 companies which are controlled, directly or indirectly, by the same party; or
- 6. Affiliation between the Company and the main Shareholders.

PT RHB Securities Indonesia is not an insider as defined in the Capital Market Law and the information contained in this report is not considered as insider information prohibited by law.

Insider means:

- a. a commissioner, director or employee of an Issuer or Public Company;
- b. a substantial shareholder of an Issuer or Public Company;
- c. an individual, who because of his position or profession, or because of a business relationship with an Issuer or Public Company, has access to inside information; and
- d. an individual who within the last six months was a Person defined in letters a, b or c, above.

Singapore

RHB Research Institute Singapore Pte Ltd and/or its subsidiaries and/or associated companies do not make a market in any securities covered in this report, except for:

(a)

The staff of RHB Research Institute Singapore Pte Ltd and its subsidiaries and/or its associated companies do not serve on any board or trustee positions of any issuer whose securities are covered in this report, except for: (a) -

RHB Research Institute Singapore Pte Ltd and/or its subsidiaries and/or its associated companies do not have and have not within the last 12 months had any corporate finance advisory relationship with the issuer of the securities covered in this report or any other relationship (including a shareholding of 1% or more in the securities covered in this report) that may create a potential conflict of interest, except for: (a) -

Hong Kong

RHBSHK or any of its group companies may have financial interests in in relation to an issuer or a new listing applicant (as the case may be) the securities in respect of which are reviewed in the report, and such interests aggregate to an amount equal to or more than (a) 1% of the subject company's market capitalization (in the case of an issuer as defined under paragraph 16 of the Code of Conduct for Persons Licensed by or Registered with the Securities and Futures Commission (the "Code of Conduct"); and/or (b) an amount equal to or more than 1% of the subject company's issued share capital, or issued units, as applicable (in the case of a new listing applicant as defined in the Code of Conduct). Further, the analysts named in this report or their associates may have financial interests in relation to an issuer or a new listing applicant (as the case may be) in the securities which are reviewed in the report.



Hong Kong Reinitiating Coverage

Industrial | Misc. Manufacturer

RHBSHK or any of its group companies may make a market in the securities covered by this report.

RHBSHK or any of its group companies may have analysts or their associates, individual(s) employed by or associated with RHBSHK or any of its group companies serving as an officer of the company or any of the companies covered by this report.

RHBSHK or any of its group companies may have received compensation or a mandate for investment banking services to the company or any of the companies covered by this report within the past 12 months.

Note: The reference to "group companies" above refers to a group company of RHBSHK that carries on a business in Hong Kong in (a) investment banking; (b) proprietary trading or market making; or (c) agency broking, in relation to securities listed or traded on The Stock Exchange of Hong Kong Limited.

Kuala Lumpur

RHB Research Institute Sdn Bhd Level 11, Tower One, RHB Centre Jalan Tun Razak Kuala Lumpur Malaysia Tel : +(60) 3 9280 2185 Fax : +(60) 3 9284 8693

Jakarta

PT RHB Securities Indonesia Wisma Mulia, 20th Floor JI. Jenderal Gatot Subroto No. 42 Jakarta 12710, Indonesia Tel: +(6221) 2783 0888 Fax: +(6221) 2783 0777 RHB Securities Hong Kong Ltd. 12th Floor World-Wide House 19 Des Voeux Road Central, Hong Kong Tel: +(852) 2525 1118 Fax: +(852) 2810 0908

Hong Kong

Shanghai

RHB (China) Investment Advisory Co. Ltd. Suite 4005, CITIC Square 1168 Nanjing West Road Shanghai 20041 China Tel : +(8621) 6288 9611 Fax : +(8621) 6288 9633 RHB Research Institute Singapore Pte Ltd. 10 Collyer Quay #09-08 Ocean Financial Centre Singapore 049315 Tel: +(65) 6533 1818 Fax: +(65) 6532 6211

Singapore

Bangkok

RHB Securities (Thailand) PCL 10th Floor, Sathorn Square Office Tower 98, North Sathorn Road, Silom Bangrak, Bangkok 10500 Thailand Tel: +(66) 2 862 9999 Fax : +(66) 2 862 9799

