CMB International Securities | Equity Research | Company Update

Xinyi Solar (968 HK)

Price hike reflects strong PV glass demand

PV glass price is lifted by ~RMB4/sq m from Sep 2020. The price hike reflects ~15% increment to 3.2mm PV glass model. Both the price hike timing and the range exceed our expectations. According to our communication with XYS, the pricing adjustment mainly reflects tightened PV supply on the back of thrilling downstream demand from PV module manufacturers.

- PV glass price is lifted by RMB3-4/sq m from Sep. Main stream 3.2mm PV glass price now reaches RMB30/sq m, while price for thinner 2.5/2.0mm model is also lifted to RMB27/24/sq m respectively. The pricing adjustment reflects ~15% hike to 3.2mm model, which would be more than enough to cover 3-4.5% costs impact from soda ash price hike (Soda ash price surged 20-30% in Aug). We expect XYS will have significant margin expansion with pricing adjustment in the remaining four months of 2020.
- Pricing adjustment is demand driven. PV glass supply has continued to tighten from Aug. Downstream PV module demand was once uncertain due to fluctuated product pricing along the supply chain caused by supply disruption from Poly-Si material. In late Aug, stabilizing PV cell price has strengthened market confidence, and we think PV model price at around RMB1.5-1.6/watt is acceptable to downstream PV farm developers. We think market demand recovery will further tighten PV glass supply and trigger price hike. We expect PV glass price to stay strong in 2H20.
- 2021E supply to remain tight. XYS delayed releasing its 2x1k tonnes capacity to 2021, due to COVID-19 impacts and recent flood in Anhui province. According to our estimates, we expect PV demand to increase 33% in 2021E, while effective PV glass supply would be less than 20%, implying PV glass supply to remain tight in 2021E. We believe that will likely sustain current high price or even further price rise in 2021E.
- Raise TP by 17.0% to HK\$11.70; maintain BUY. We raise our PV glass ASP assumption up by 0.8%/2.2%/0.8% in 2020-22E. Our net profit projection is lifted by 3.7%/6.3%/2.2% to HK\$3,378/4,911/6,054mn respectively. We observed valuation expansion on China solar sector from Jun-Aug on improving earnings outlook and solid 1H20 earnings release. We think sector valuation experienced a re-rating from 15-20x forward P/E to 25-30x. Our DCF TP is raised by 17.0% to HK\$11.70, reflecting FY20/21E 28.1x/19.5x PER. In a sector up cycle, we believe XYS' valuation is still attractive. Maintain BUY.

Earnings	Summary
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(YE 31 Dec)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue (HK\$ mn)	7,672	9,096	10,906	13,873	18,006
YoY growth(%)	(19.5)	18.6	19.9	27.2	29.8
Net income (HK\$ mn)	1,863	2,416	3,378	4,911	6,054
EPS (HK\$)	0.25	0.30	0.42	0.60	0.74
YoY growth (%)	(24)	22	37	45	23
Consensus EPS (HK\$)	N/A	N/A	0.40	0.52	0.62
P/E (x)	40.2	33.0	24.1	16.6	13.5
P/B (x)	7.3	5.7	5.1	4.3	3.6
Yield (%)	1.2	1.4	2.0	2.9	3.6
ROE (%)	18.3	17.3	21.1	25.9	27.0
Net gearing (%)	76.5	40.3	41.9	28.1	17.7

Source: Company data, Bloomberg, CMBIS estimates



BUY (Maintain)

Target Price	HK\$11.70
(Previous TP	HK\$10.00)
Up/Downside	+17.0%
Current Price	HK\$10.00

China Solar Sector

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Stock Data

Slock Dala	
Mkt Cap (HK\$ mn)	68,382
Avg 3 mths t/o (HK\$ mn)	183
52w High/Low (HK\$)	8.88/3.72
Total Issued Shares (mn)	8,165
Source: Bloomberg	

Shareholding Structure

J	
Xinyi Group Glass Co Ltd	24.4%
Yin Yee Lee	32.1%
Free float	43.5%
Source: HKEx	

Share Performance

	Absolute	Relative
1-mth	4.9%	8.8%
3-mth	71.5%	72.8%
6-mth	51.4%	63.1%
12-mth	96.9%	116.8%
0 0 1		

Source: Bloomberg

12-mth Price Performance



Source: Bloomberg

Auditor: PwC

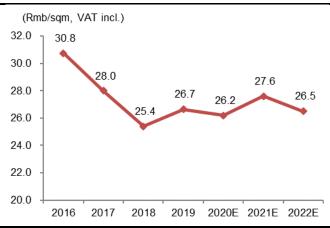
Related Reports

- 1. Xinyi Solar (968 HK) Shining 1H20 from PV glass sales" –4 Aug 2020
- "China Solar Sector Supply chain updates: overseas demand visibility is still low" – 19 May 2020
- "Xinyi Solar (968 HK) FY19 earnings in line; new capacity delay by 1Q" –17 Mar 2020



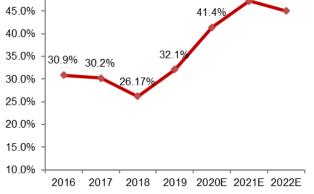
47.2%

Figure 1: Solar glass ASP estimates and projection



50.0% 45.0%

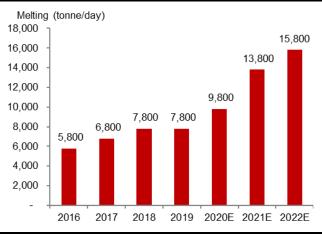
Figure 2: We expect solar glass GPM to surge with product mix change towards 2.0mm PV glass



Source: CMBIS estimates

Note: 2016 - 19 ASP is estimated based on sales over shipment projection

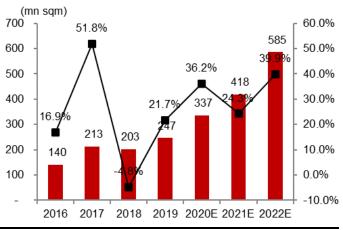
Figure 3: Solar glass melting capacity



Source: Company data, CMBIS estimates

Source: Company data, CMBIS estimates

Figure 4: PV glass sales projection



Source: Company data, CMBIS estimates

Figure 5: Earnings revision

	Old			New			Change%			
	2020	2021	2022	2020	2021	2022	2020	2021	2022	
PV processed glass ASP (RMB/sqm)	26.0	27.0	26.3	26.2	27.6	26.5	0.8%	2.2%	0.8%	
PV glass sales volume (mn sqm)	337	418	585	337	418	585	0.0%	0.0%	0.0%	
Revenue (HK\$, mn)	10,840	13,626	17,891	10,906	13,873	18,006	0.6%	1.8%	0.6%	
Net income(HK\$, mn)	3,257	4,622	5,924	3,378	4,911	6,054	3.7%	6.3%	2.2%	
EPS(HK\$)	0.40	0.57	0.72	0.42	0.60	0.74	3.7%	6.3%	2.2%	
Consensus earnings							Our est.	vs. consen	sus	
Net profit (HK\$, mn)				3,205	4,271	5,044	5.4%	15.0%	20.0%	
EPS(HK\$)				0.40	0.52	0.62	4.7%	14.7%	19.1%	
Source: CMBIS estimates					-					

urce: CMBIS estimates



Figure 6: Our DCF valuation

Figure 6. Our DCF valuation									
DCF Valuation	2022	2023	2024	2025	2026	2027	2028	2029	2030
Turnover (HK\$ mn)	18,006	21,212	22,305	23,389	24,464	25,533	26,598	27,659	28,721
Solar glass	15,224	17,977	18,846	19,689	20,506	21,299	22,068	22,814	23,536
Solar Farm	2,560	2,990	3,191	3,405	3,633	3,876	4,136	4,413	4,708
EPC	222	244	269	296	325	358	394	433	476
Turnover growth	29.8%	17.8%	5.2%	4.9%	4.6%	4.4%	4.2%	4.0%	3.8%
EBIT (HK\$ mn)	7,451	8,458	8,805	9,142	9,470	9,790	10,103	10,412	10,716
EBIT margin(%)	41.4%	39.9%	39.5%	39.1%	38.7%	38.3%	38.0%	37.6%	37.3%
Tax rate (%)	15.3%	15.5%	15.7%	15.7%	15.8%	15.8%	15.8%	15.8%	15.9%
Depreciation -HKD mn	1,082	1,210	1,288	1,368	1,451	1,538	1,628	1,722	1,821
Change in working capital	(2,066)	(1,122)	(383)	(217)	(172)	(171)	(170)	(170)	(170)
CAPEX (HKD mn)	(2,088)	(2,188)	(2,296)	(2,446)	(2,611)	(2,792)	(2,991)	(3,210)	(3,451)
Free cash flow	3,240	5,048	6,034	6,408	6,646	6,820	6,973	7,104	7,214
Years	1	2	3	4	5	6	7	8	9
Discount factor	0.92	0.85	0.79	0.73	0.67	0.62	0.57	0.53	0.49
Discount free cash flow	2,992	4,304	4,750	4,659	4,461	4,227	3,991	3,754	3,520
Terminal value	140,242								
Terminal EV/EBITDA	11.19								
Discounted terminal value	68,434								
Terminal perpetual growth	3%								

WACC Calculations	
Cost of debt	4.0%
Tax rate	15.0%
After tax cost of debt	3.4%
Cost of equity	12.3%
Adjusted beta	1.10
Market risk premium	9.6%
Risk free rate	1.8%
% of debt financing	45.0%
WACC	8.3%

Valuations (HK\$ mn)	
Discounted Terminal Value	68,434
Terminal perpetual growth(%)	3.0%
Terminal EV/EBITDA	11.19
Total discount FCF	36,658
Enterprise Value	105,092
Discount FCF(% of total)	34.9%
Terminal value (% of total)	65.1%
Add: Cash & cash equivalent	3,511
Less: Total debt	(8,839)
Non-controlling interest	(5,219)
Equity Value (HKD mn)	94,545
Fair value per share(HK\$)	11.70

Source: CMBIS estimates



Financial Summary

Income statement						Cash flow summary					
YE 31 Dec (HK\$ mn)	FY18A	FY19A	FY20E	FY21E	FY22E	YE 31 Dec (HK\$ mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue	7,672	9,096	10,906	13,873	18,006	EBIT	2,443	3,314	4,397	6,149	7,451
Solar glass sales	5,562	6,767	8,655	11,331	15,224	Depreciation and amortization	707	795	944	1,140	1,376
Solar power generation	1,920	2,228	2,120	2,371	2,560	Change in working capital	(255)	(1,818)	(610)	418	(791)
EPC services	189	101	131	171	222	Taxation	(237)	(281)	(436)	(624)	(760)
Cost of sales	(4,711)	(5,185)	(5,775)	(6,793)	(9,302)	Others	(348)	(427)	(606)	(637)	(660)
Gross profit	2,960	3,912	5,131	7,080	8,704	Net cash from operating	2,310	1,583	3,689	6,446	6,616
				100		<u> </u>	(0.0.40)	((((0. (0.7)	
Other Income	176	131	139	139	139	Capex	(2,248)	(1,382)	(4,212)	(3,435)	(3,020)
Other gain/(losses),net	(8)	(5)	(5)	(5)	(5)	Joint ventures investments	17	23	-	-	-
Selling & marketing exps	(271)	(282)	(389)	(478)	(657)	Others	(805)	(904)	-	-	-
Admin and other exps	(413)	(427)	(479)	(587)	(730)	Net cash from investment	(3,035)	(2,262)	(4,212)	(3,435)	(3,020)
EBIT	2,443	3,314	4,397	6,149	7,451						
						Equity raised	(456)	2,087	-	-	0
Financial income	10	49	15	21	38	Change of Debts	837	(2,086)	805	647	562
Financial cost	(256)	(304)	(223)	(245)	(264)	Dividend paid	(1,095)	(761)	(1,489)	(1,989)	(2,632)
Exceptional	-	-	-	-	-	Others	888	2,887	401	421	442
Pre-tax profit	2,246	3,093	4,223	5,958	7,258	Net cash from financing	174	2,127	(283)	(921)	(1,627)
Income tax	(205)	(294)	(443)	(626)	(762)	Net change in cash	(551)	1,447	(806)	2,090	1,968
Minority interests	(179)	(382)	(401)	(421)	(442)	Cash at the beginning	1,381	784	2,221	1,415	3,506
Net profit	1,863	2,416	3,378	4,911	6,054	Exchange difference	(46)	(10)	-	-	-
-						Cash at the end of the year	784	2,221	1,415	3,506	5,473

Balance sheet						Key ratios					
YE 31 Dec (HK\$ mn)	FY18A	FY19A	FY20E	FY21E	FY22E	YE 31 Dec	FY18A	FY19A	FY20E	FY21E	FY22E
Non-current assets	17,089	18,930	22,363	24,645	26,316	Sales mix (%)					
Fixed assets	15,804	16,711	19,979	22,274	23,919	Solar glass sales	72.5	74.4	79.4	81.7	84.6
Land use rights	320	-	-	-	-	Solar power generation	25.0	24.5	19.4	17.1	14.2
Inv. in JV and Associate	433	404	404	404	404	EPC services	2.5	1.1	1.2	1.2	1.2
Others	532	1,815	1,979	1,966	1,993	Total	100.0	100.0	100.0	100.0	100.0
Current assets	6,803	9,467	10,029	12,730	16,910	Profit & loss ratios (%)					
Cash	784	2,221	1,415	3,506	5,473	Gross margin	38.6	43.0	47.0	51.0	48.3
Account receivable	4,154	5,437	6,076	6,289	8,022	Pre-tax margin	29.3	34.0	38.7	42.9	40.3
Inventory	430	410	563	737	990	Net margin	24.3	26.6	31.0	35.4	33.6
Amount due from	4	6	-	-	-	Effective tax rate	9.1	9.5	10.5	10.5	10.5
Others	1,432	1,394	1,976	2,200	2,426						
						Balance sheet ratios					
Current liabilities	6,737	5,834	6,921	8,170	9,817	Current ratio (x)	1.0	1.6	1.4	1.6	1.7
Trade and other payable	2,780	2,220	3,075	4,026	5,406	Quick ratio (x)	0.9	1.6	1.4	1.5	1.6
Amount due	102	91	91	91	91	Cash ratio (x)	0.1	0.4	0.2	0.4	0.6
Current income tax liabilities	48	102	104	106	109	Debtors turnover days	197.9	192.4	192.6	162.7	145.0
Borrowings	3,773	3,389	3,616	3,912	4,176	Inventory turnover days	31.1	29.6	30.7	34.9	33.9
Others	34	32	35	35	35	Creditors turnover days	221.6	176.0	167.3	190.8	185.0
						Total debt / equity ratio (%)	72.7	42.7	39.1	36.5	33.6
Non-current liabilities	5,096	3,989	4,608	4,999	5,338	Net debt / equity ratio (%)	76.5	40.3	41.9	28.1	17.7
Borrowings	4,997	3,921	4,536	4,927	5,267						
Other payables	89	57	54	54	54	Returns (%)					
Deferred tax liabilities	11	12	17	17	17	ROE	17.9	17.0	21.0	25.9	27.0
						ROA	7.8	8.5	10.4	13.1	14.0
Total net assets	12,059	18,573	20,863	24,206	28,071						
						Per share					
Minority Interest	1,625	4,396	4,798	5,219	5,661	EPS (HK\$)	0.25	0.30	0.42	0.60	0.74
Shareholders' equity	10,434	14,177	16,066	18,988	22,410	DPS (HK\$)	0.12	0.14	0.20	0.29	0.36
						BVPS (HK\$)	1.36	1.85	1.99	2.32	2.74

Source: Company data, CMBIS estimates



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