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Xinyi Solar (968 HK)

Shining 1H20 from PV glass sales

XYS delivered outstanding 1H20 results. Net profit surged 47.6% YoY to HK\$1,406mn mainly on 1) PV glass sales volume growth; 2) costs saving from favorable soda ash and natural gas price; and more importantly 3) thinner PV glass with higher GPM accounted for higher proportion in product mix. We think XYS' stunning performance will continue in 2H20, supported by China and overseas PV installation release, stable costs structure, and continuing improving product mix with increasing bifacial module penetration. We raised our FY20-22E earnings by 8.9%/3.0%/10.0%. Our DCF valuation rolls over to FY21E with TP lifted 58.5% to HK\$10.0. Maintain BUY.

- Stunning 1H20 results. Revenue grew 15.7% YoY to HK\$4,623mn, led by PV glass sales surge of 19.3% YoY to HK\$3,488mn. Gross profit was up 43.8% to HK\$2,189mn. Major expense remained in well control, as key items such as administrative/finance expense exhibited YoY decline of 5.3% /25.3% respectively. Net profit/EPS was HK\$1,406mn/HK\$17.4 cents, up 47.6%/44.1% YoY. XYS declared interim dividend of HK\$8.5 cents, representing 48.9% dividend payout based on 1H20 earnings.
- PV glass sales was the key growth driver. XYS realized outstanding PV glass sales despite the impacts caused by COVID-19. Mgmt. attributed the good results to 1) ~10% costs saving from both soda ash and natural gas costs; 2) higher ASP realized; and 3) product mix shift towards 2.0mm PV glass as bifacial module becomes popular. GPM of the segment expanded 11.6ppt YoY to 38.9%, as a result. We estimate material and energy saving brought around 4.5% costs saving, and product mix change led to majority of remaining margin expansion. We expect XYS to maintain its momentum in 2H20 on the back of thin glass sales mix to increase from ~25% to 35%.
- Postponing Wuhu capacity to 2021. In Guangxi Beihai, XYS had 1k tonne melting capacity commenced operation in Jun, and planned to have another to commence in Aug. For Wuhu capacity, the Company postponed releasing new production lines to 2021 due to changing production line design to coop with larger size module, and flood in Anhui also caused construction delay. In 2021-22, XYS plans to add 1k melting tonne in each guarter to accelerate expansion pace to meet surging downstream demand.
- Raise TP by 58.5%; maintain BUY. We trim revenue forecast by 10.1% in FY20E but raise earnings estimates due to improving GPM outlook. We lift FY20-22E earnings forecast by 8.9%/3.0%/10.0% to reflect XYS' outstanding PV glass profitability with product mix change. Our DCF TP is raised by 58.5% to HK\$10.00, reflecting FY20/21E 24.2x/17.6x PER. In a sector up cycle with booming demand, we think our valuation is justified. Maintain BUY rating on XYS.

Earnings Summary

(YE 31 Dec)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue (HK\$ mn)	7,672	9,096	10,840	13,626	17,891
Net income (HK\$ mn)	1,863	2,416	3,257	4,622	5,924
EPS (HK\$)	0.25	0.30	0.40	0.57	0.72
YoY growth (%)	(24)	22	32	41	28
Consensus EPS (HK\$)	N/A	N/A	0.38	0.50	0.63
P/E (x)	33.7	27.6	20.9	14.8	11.5
P/B (x)	6.1	4.8	4.3	3.7	3.1
Yield (%)	1.5	1.7	2.3	3.2	4.2
ROE (%)	18.3	17.3	20.5	24.7	26.8
Net gearing (%)	76.5	35.9	38.6	26.3	16.0

Source: Company data, Bloomberg, CMBIS estimates



visibility is still low" - 19 May 2020 "Xinyi Solar (968 HK) - FY19 2 earnings in line; new capacity delay by 1Q" -17 Mar 2020

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BUY (Maintain)

Target Price	HK\$10.00
(Previous TP	HK\$6.31)
Up/Downside	+19.5%
Current Price	HK\$8.37

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%

Source: Bloomberg

12-mth Price Performance



Source: Bloomberg

Auditor: PwC

Related Reports

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Figure 1: 1H20 earnings summary

			1H19/			1H20/	1H20
(HK\$ mn)	1H19	FY19A	FY19%	1H20A	FY20E	FY20E%	YoY%
Revenue	3,997	9,096	43.9%	4,623	10,840	42.6%	15.7%
Solar glass manufacturing	2,925	6,767	43.2%	3,488	8,589	40.6%	19.3%
Solar power generation	1,025	2,228	46.0%	1,101	2,120	52.0%	7.5%
EPC services	48	101	47.1%	34	131	25.7%	-29.0%
Cost of Sales	(2,425)	(5,185)	46.8%	(2,434)	(5,846)	41.6%	0.4%
Gross profit	1,572	3,912	40.2%	2,189	4,994	43.8%	39.2%
Gross profit margin	39.3%	43.0%	n/a	47.3%	46.1%	n/a	8.0ppt
Other income	64	131	48.8%	71	139	50.9%	11.1%
Other(losses)/gains, net	1	(5)	-25.9%	(1)	(5)	27.8%	-198.9%
Selling and marketing expenses	(126)	(282)	44.7%	(136)	(389)	35.0%	8.3%
Administrative expenses	(220)	(427)	51.5%	(208)	(477)	43.7%	-5.3%
Operating profit	1,291	3,328	38.8%	1,914	4,263	44.9%	48.2%
Finance income	10	49	20.9%	22	15	145.7%	114.0%
Finance costs	(156)	(304)	51.4%	(116)	(223)	52.2%	-25.3%
Share profits	15	33	43.3%	19	33	55.9%	29.1%
Profit before income Tax	1,160	3,108	37.3%	1,838	4,088	45.0%	58.4%
Income tax expense	(92)	(294)	31.1%	(225)	(429)	52.5%	146.1%
Effective tax rate	7.9%	9.5%	n/a	12.3%	10.5%	n/a	4.4ppt
Profit after tax	1 060	2 700	20 20/	1 613	2 659	44 40/	50.9%
	1,069	2,799 382	38.2%	1,613	3,658 401	44.1% 51.4%	
Less: Minority interests Net income	116		30.3%	206	-		77.9%
	953 23.8%	2,416	39.4%	1,406	3,257 30.0%	43.2%	47.6%
Net margin	23.0%	26.6%	n/a	30.4%	30.0%	n/a	6.6ppt

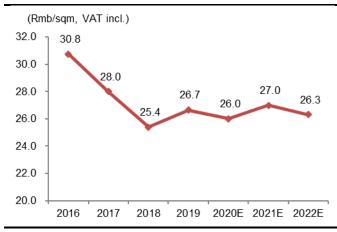
Source: Company data, CMBIS estimates

Figure 2: 1H20 segment GP & GPM

(HK\$ mn)	1H19	1H20A	1H20 YoY%
GP			
PV glass	799	1,356	70%
Solar farm	764	820	7%
EPC	10	13	31%
GPM			
PV glass	27.3%	38.9%	11.6ppt
Solar farm	74.5%	74.5%	0.0ppt
EPC	20.1%	37.0%	16.9ppt
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Source: Company data, CMBIS

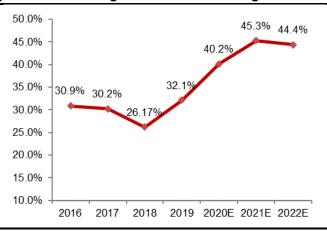
Figure 3: Solar glass ASP estimates and projection



Source: CMBIS estimates

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

Figure 4: We expect solar glass GPM to surge with product mix change towards 2.0mm PV glass



Source: Company data, CMBIS estimates





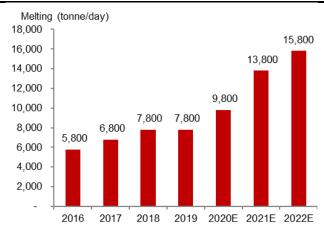
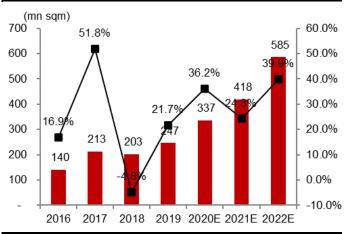


Figure 5: Solar glass melting capacity





Source: Company data, CMBIS estimates

Source: Company data, CMBIS estimates

Figure 7: Earnings revision

	Old			New			Change%			
	2020	2021	2022	2020	2021	2022	2020	2021	2022	
PV processed glass ASP (RMB/sqm)	28.0	27.5	27.0	26.0	27.0	26.3	-7.1%	-1.8%	-2.6%	
PV glass sales volume (mn sqm)	343	475	606	337	418	585	-2.0%	-11.9%	-3.5%	
Revenue (HK\$, mn)	12,054	16,024	19,994	10,840	13,626	17,891	-10.1%	-15.0%	-10.5%	
Net income(HK\$, mn)	2,992	4,487	5,383	3,257	4,622	5,924	8.9%	3.0%	10.0%	
EPS(HK\$)	0.37	0.56	0.67	0.40	0.57	0.72	8.9%	3.0%	10.0%	
Consensus earnings							Our est.	. vs. consen	sus	
Net profit (HK\$, mn)				3,062	4,061	5,170	6.4%	13.8%	14.6%	
EPS(HK\$)				0.38	0.50	0.63	5.5%	13.6%	15.2%	
Source: CMPIS entimotes										

Source: CMBIS estimates



Figure 8: Our DCF valuation

DCF Valuation	2022	2023	2024	2025	2026	2027	2028	2029	2030
Turnover (HK\$ mn)	17,891	21,105	22,222	23,332	24,438	25,539	26,638	27,737	28,838
Solar glass	15,109	17,870	18,762	19,632	20,480	21,305	22,109	22,892	23,654
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	31.3%	18.0%	5.3%	5.0%	4.7%	4.5%	4.3%	4.1%	4.0%
EBIT (HK\$ mn)	5,845	7,067	7,451	7,836	8,223	8,613	9,006	9,403	9,805
EBIT margin(%)	32.7%	33.5%	33.5%	33.6%	33.6%	33.7%	33.8%	33.9%	34.0%
Tax rate (%)	15.3%	15.6%	15.8%	15.8%	15.9%	15.9%	15.9%	15.9%	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	(2,132)	(1,125)	(391)	(222)	(177)	(176)	(176)	(176)	(176)
CAPEX (HKD mn)	(2,088)	(2,188)	(2,296)	(2,446)	(2,611)	(2,792)	(2,991)	(3,210)	(3,451)
Free cash flow	1,811	3,865	4,876	5,295	5,583	5,816	6,036	6,243	6,436
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	1,673	3,295	3,839	3,849	3,748	3,605	3,455	3,299	3,141
Terminal value	125,109								
Terminal EV/EBITDA	10.76								
Discounted terminal value	61,050								

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%

3%

Terminal perpetual growth

Valuations (HK\$ mn)	
Discounted Terminal Value	61,050
Terminal perpetual growth(%)	3.0%
Terminal EV/EBITDA	10.76
Total discount FCF	29,902
Enterprise Value	90,952
Discount FCF(% of total)	32.9%
Terminal value (% of total)	67.1%
Add: Cash & cash equivalent	3,225
Less: Total debt	(8,135)
Non-controlling interest	(5,219)
Equity Value (HKD mn)	80,822
Fair value per share(HK\$)	10.00

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	10,840	13,626	17,891	EBIT	2,443	3,314	4,262	5,828	7,308
Solar glass sales	5,562	6,767	8,589	11,085	15,109	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)	(611)	415	(789)
EPC services	189	101	131	171	222	Taxation	(237)	(281)	(422)	(590)	(745)
Cost of sales	(4,711)	(5,185)	(5,846)	(6,877)	(9,334)	Others	(348)	(427)	(606)	(638)	(662)
Gross profit	2,960	3,912	4,994	6,750	8,557	Net cash from operating	2,310	1,583	3,567	6,155	6,487
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	(2,210)	23	(1,212)	(0,100)	(0,020)
Selling & marketing exps	(271)	(282)	(389)	(478)	(657)	Others	(805)	(904)	_	_	_
Admin and other exps	(413)	(427)	(477)	(578)	(727)	Net cash from investment	(3,035)	(2,262)	(4,212)	(3,435)	(3,020)
EBIT	2,443	3,314	4,262	5,828	7,308	Net cash nom investment	(3,033)	(2,202)	(4,212)	(3,433)	(3,020)
LDII	2,443	5,514	4,202	5,020	7,500	Equity raised	(456)	2.087	-	-	-
Financial income	10	49	15	19	36	Change of Debts	837	(2,086)	805	647	562
Financial cost	(256)	(304)	(223)	(245)	(264)	Dividend paid	(1,095)	(761)	(1,460)	(1,891)	(2,531)
Exceptional	-	-	-	-	-	Others	888	2,887	401	421	442
Pre-tax profit	2,246	3,093	4,088	5,635	7,113	Net cash from financing	174	2,127	(254)	(823)	(1,527)
Income tax	(205)	(294)	(429)	(592)	(747)	Net change in cash	(551)	1,447	(899)	1,897	1,940
Minority interests	(179)	(382)	(401)	(421)	(442)	Cash at the beginning	1,381	, 784	2,221	1,322	3,220
Net profit	1,863	2,416	3,257	4,622	5.924	Exchange difference	(46)	(10)	-	-	-, -
• • •	,	,	-,	,	-,	Cash at the end of the year	784	2,221	1,322	3,220	5,160

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	79.2	81.3	84.5
Land use rights	320	-	-	-	-	Solar power generation	25.0	24.5	19.6	17.4	14.3
Inv. in JV and Associate	433	404	404	404	404	EPC services	2.5	1.1	1.2	1.3	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	9,914	12,361	16,558	Profit & loss ratios (%)					
Cash	784	2,221	1,322	3,220	5,160	Gross margin	38.6	43.0	46.1	49.5	47.8
Account receivable	4,154	5,437	6,058	6,222	7,991	Pre-tax margin	29.3	34.0	37.7	41.4	39.8
Inventory	430	410	558	721	982	Net margin	24.3	26.6	30.0	33.9	33.1
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	6,898	8,083	9,776	Current ratio (x)	1.0	1.6	1.4	1.5	1.7
Trade and other payable	2,780	2,220	3,052	3,939	5,366	Quick ratio (x)	0.9	1.6	1.4	1.4	1.6
Amount due	102	91	91	91	91	Cash ratio (x)	0.1	0.4	0.2	0.4	0.5
Current income tax liabilities	48	102	104	106	109	Debtors turnover days	197.9	192.4	193.5	164.5	145.0
Borrowings	3,773	3,389	3,616	3,912	4,176	Inventory turnover days	31.1	29.6	30.2	33.9	33.3
Others	34	32	35	35	35	Creditors turnover days	221.6	176.0	164.6	185.5	181.9
						Total debt / equity ratio (%)	72.7	39.4	36.0	34.0	31.3
Non-current liabilities	5,096	3,989	4,608	4,999	5,338	Net debt / equity ratio (%)	76.5	35.9	38.6	26.3	16.0
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	20.4	24.7	26.8
						ROA	7.8	8.5	10.1	12.5	13.8
Total net assets	12,059	18,573	20,771	23,924	27,759						
						Per share					
Minority Interest	1,625	4,396	4,798	5,219	5,661	EPS (HK\$)	0.25	0.30	0.41	0.57	0.72
Shareholders' equity	10,434	14,177	15,974	18,705	22,098	DPS (HK\$)	0.12	0.14	0.20	0.27	0.35
						BVPS (HK\$)	1.36	1.85	1.98	2.29	2.70

Source: Company data, CMBIS estimates



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