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# 1. Transaction Overview



# Introduction

### **Transaction Background**

	<ul> <li>On December 14, 2015, Trina Solar Limited ("Trina" or the "Company") announced that its Board of Directors received a preliminary non-binding proposal letter from a Buyer Consortium comprised of Mr. Jifan Gao (Chairman and CEO of Trina) and Shanghai Xingsheng Equity &amp; Investment Management Co., Ltd., a subsidiary of Industrial Bank Co., Ltd., that proposed to take Trina private at US\$11.60 per ADS</li> </ul>
Transaction Background	<ul> <li>On January 6, 2016, Citigroup Global Markets Inc. ("Citi") was appointed by the Special Committee of the Board of Directors of Trina (the "Special Committee") as its financial advisor to assist the Special Committee in reviewing and evaluating the proposal from the Buyer Consortium and any potential alternatives</li> </ul>
	<ul> <li>Citi's focus is to opine as to the fairness, from a financial point of view, of the Buyer Consortium's proposed offer based on various valuation methodologies</li> </ul>

#### Valuation Methodologies

Methodologies	Comments
Comparable Companies Analysis / Sum of the Parts ("SOTP") Analysis	<ul> <li>Valuation based on market trading multiples of publically comparable companies (primary valuation methodology)</li> </ul>
Discounted Cash Flow Analysis	<ul> <li>Present value of projected free cash flows (primary valuation methodology)</li> </ul>
Market Valuation	Historical trading range of Trina (for reference only)
Broker Research	Price target published by equity research analysts (for reference only)
Premia Analysis	Value based on analysis of premia paid in prior China take-private transactions (for reference only)





### **Key Transaction Metrics**

#### **Valuation Summary**

#### (US\$ in Millions)

At Offer Price		
Take-Private Offer Pri	ce per ADS (US\$)	\$11.60
Diluted ADS outstandi	96.1	
Implied Equity Value	8	\$1,114
	Less: Cash and Cash Equivalents	621
	Add: Total Debt <sup>2</sup>	1,900
	Less: Investments in Affiliates	33
	Add: Minority Interest	42
Implied Firm Value		\$2,402
Implied Valuation M	lultiples	
	FV / 2016E EBITDA <sup>3</sup>	5.8
	FV / 2017E EBITDA <sup>3</sup>	5.3>
At Current Price		
Current Price per ADS	G (US\$)	\$8.30
Diluted ADS outstandi	ng (mm) <sup>4</sup>	95.8
Equity Value		\$795
	Less: Cash and Cash Equivalents	621
	Add: Total Debt <sup>2</sup>	1,900
	Less: Investments in Affiliates	33
	Add: Minority Interest	42
Firm Value		\$2,083
Valuation Multiples		
	FV / 2016E EBITDA <sup>3</sup>	5.0x
	FV / 2017E EBITDA <sup>3</sup>	4.6>

#### Implied Premium

	Price	Premium
Offer Price	\$11.60	
Current Price	8.30	39.8%
Last Trading Day Prior to Announcement	9.55	21.5%
Last 30 Trading Day VWAP Prior to Announcement	9.85	17.7%
Last 60 Trading Day VWAP Prior to Announcement	9.92	17.0%
Last 180 Trading Day VWAP Prior to Announcement	10.64	9.0%
52-Week High Prior to Announcement	13.18	(12.0%)
52-Week Low Prior to Announcement	7.74	49.9%

Source: Factset, management forecast, market data as of July 28, 2016. Note: 1. ADS 93,565,307 (4,678,265,355 ordinary shares) outstanding plus 694.456 additional ADS comparing option exercise price to offer price, based on Treasury Stock Method and 1,800,712 restricted ADS shares under ESOP. 2. Including short-term debt and current portion of long-term debt of US\$933m, long-term debt of US\$584mm, and convertible senior notes of US\$282mm, capital lease of US\$102mm, as of 31 March 2016. 3. Management forecast. 4. ADS 93,565,307 (4,678,265,355 ordinary shares) outstanding plus 460,612 additional ADS comparing option exercise price to current price, based on Treasury Stock Method and 1,800,712 restricted ADS shares under ESOP.





# 2. Valuation Analysis



### **Business Overview of Trina**

- Founded in 1997, Trina engages in the manufacture and sale of integrated solar-powered products and specializes in the manufacture of crystalline silicon photovoltaic modules and system integration
- Key Segments: Upstream and downstream
  - Upstream segment covers the manufacturing of ingots, wafers, PV cells and the PV module product portfolio
  - Downstream segment offers design, planning and execution for utility, residential and commercial distributed generation projects
    - Generates revenue from the sale of projects or by selling electricity to the grid companies
- Trina Solar has more than 20 production and sales centres around the world and employs 14,200 people
- Annualized manufacturing capacity reached 12.6 GM in 2015, consisting of

Modules: 5.0 GM

Cells: 3.5 GM

Wafers: 1.8 GM

Ingots: 2.3 GM

- Total module shipments during 2015 were 5.74 GW, consisting of
  - 4.83 GW external shipments
  - 912 MW internal shipments to the Company's downstream power projects
  - An increase of 56.8% from 3.66 GW in 2014, primarily driven by strong demand from China, Japan and the U.S.
- In 2015, Trina completed and connected 425.0 MW of build-to-own projects in China, completed and connected 210.9 MW of build-to-sell projects in China, and completed and sold 50.0MW of build-to-sell projects in Europe
- Headquarters: Changzhou, China

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Source: Company filings.

## Overview of Key Financials – Management Forecast

(US\$ in Millions)	2016E	2017E	2018E	2019E	2020E	2021E	2022E	2023E
Total Revenue	3,469	3,454	4,168	4,760	5,214	5,558	5,909	6,192
Growth	14.3%	(0.4%)	20.7%	14.2%	9.5%	6.6%	6.3%	4.8%
Gross Profit	583	567	657	722	788	836	891	930
% revenue	16.8%	16.4%	15.8%	15.2%	15.1%	15.0%	15.1%	15.0%
BIT	276	291	322	334	358	385	423	446
% revenue	8.0%	8.4%	7.7%	7.0%	6.9%	6.9%	7.2%	7.2%
EBITDA	416	456	502	529	569	609	660	697
% revenue	12.0%	13.2%	12.0%	11.1%	10.9%	10.9%	11.2%	11.3%
Net (loss) Income Atrributed to Trina Solar	119	127	155	168	188	209	241	261
% revenue	3.4%	3.7%	3.7%	3.5%	3.6%	3.8%	4.1%	4.2%
Manufacturing Capex	250	300	360	370	380	390	400	410
% revenue	7.2%	8.7%	8.6%	7.8%	7.3%	7.0%	6.8%	6.6%

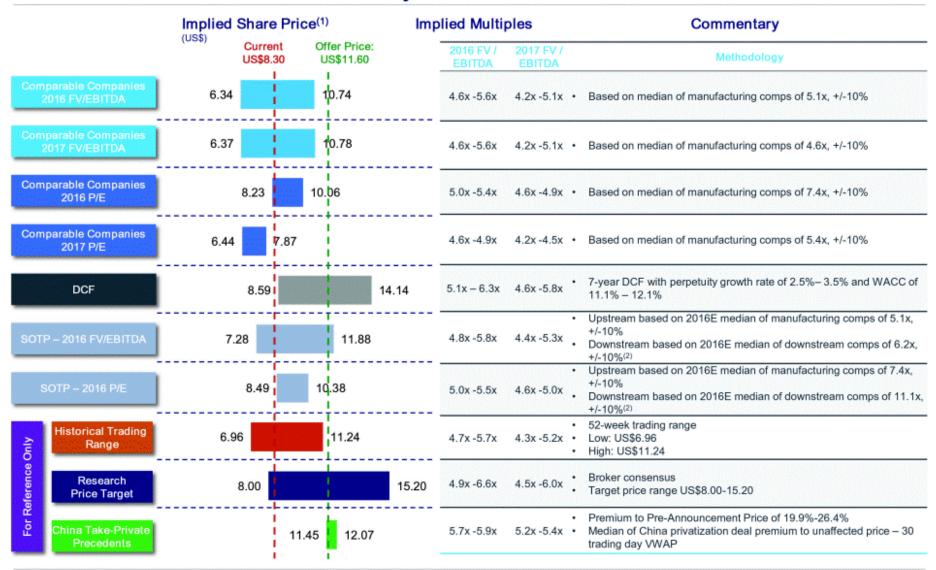
#### Commentary

- · Forecasts provided by Company management
- Eliminates intersegment transactions

Source: Company.



### Trina Solar Valuation Summary



Source: Company information, broker research, FactSet as of July 28, 2016. Note: 1. Firm value adjustment of US\$1,288mm as of 31 March 2016. 2. Assumes no adjustment to multiple for China solar farm companies (which have greater uncertainty due to annual government allocation process) and US solar farm companies.

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# **Comparable Companies Analysis**

#### Valuation Analysis

(US\$ in Millions, Except Multiples and Per Share Data)

	Share	Equity	Firm	FV / EBITI	OA (x)	Price / Earnings (x)		
Company	Price	Value	Value	2016E	2017E	2016E	2017E	
Trina (estimates based on management forecast)	8.30	795	2,083	5.0 x	4.6 x	6.7 x	6.3 x	
Manufacturing								
Canadian Solar Inc.	14.39	860	2,026	5.7	4.6	7.4	5.4	
Jinko Solar	18.37	609	2,070	5.1	4.5	3.7	3.4	
Motech Industries, Inc.	32.85	504	580	4.6	5.8	9.5	14.6	
Median				5.1	4.6	7.4	5.4	
Downstream								
First Solar, Inc.	47.13	4,959	3,056	5.2	5.8	11.6	16.9	
SunPow er Corporation	14.92	2,135	3,352	7.1	6.3	10.7	8.2	
Median				6.2	6.0	11.1	12.6	
Total Median	-	-		5.2	5.8	9.5	8.2	

Source: Company Forecast, Factset. Market data as of July 28, 2016.





### **DCF Valuation**

#### **Key Assumptions**

Valuation date: September 30, 2016

 Effective tax rate: 2016E tax rate of 18%, and 2017-2022E tax rate of ~14%-16% per management guidance

Firm value adjustment<sup>(1)</sup>: US\$1,288mm

Cash: US\$621mm<sup>(2)</sup>

Total Debt: US\$1,900mm

Investment in Affiliates: US\$33mm

Minority interest: US\$42mm

WACC of 11.6%

Final projection year: December 31, 2022

 Terminal value based on terminal adjusted free cash flow and perpetuity growth rate of 3.0%

 Terminal value represents 70% – 76% of firm value

 Implied exit multiple of between 4.6x – 5.8x, based on 2022E EBITDA of US\$660mm

Adjusted for mid-year convention

#### **DCF Projections**

US\$mm	Dec-16	Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22
EBITDA	416.2	456.2	501.8	528.6	568.8	608.5	660.2
Less: depreciation and amortisation	(140.0)	(165.0)	(180.0)	(195.0)	(211.0)	(224.0)	(237.3)
BIT	276.2	291.2	321.8	333.6	357.8	384.5	422.8
Unlevered cash tax	50.4	42.4	48.5	50.8	55.5	60.8	66.6
Effective tax rate	18.2%	14.6%	15.1%	15.2%	15.5%	15.8%	15.8%
Earnings before interest, after tax	225.9	248.8	273.3	282.7	302.4	323.7	356.2
Add back: depreciation and amortisation	140.0	165.0	180.0	195.0	211.0	224.0	237.3
Change in NWC	(533.0) <sup>(4</sup>	60.7	68.7	4.3	9.8	6.9	(37.7)(5)
Total Capex	(249.5)	(187.5)	(297.4)	(349.3)	(417.1)	(458.1)	(434.7)
Manufacturing capex	(250.0)	(300.0)	(360.0)	(370.0)	(380.0)	(390.0)	(400.0)
Net Capex of power projects	0.5	112.5	62.6	20.7	(37.1)	(68.1)	(34.7)
New investment into solar projects	(517.4)	(491.4)	(559.6)	(619.0)	(670.6)	(721.0)	(772.8)
Proceeds from sales of solar projects <sup>(6)</sup>	517.9	603.9	622.2	645.7	639.6	659.4	745.1
Unlevered FCF	(416.6)	287.1	224.5	132.8	106.1	96.5	121.1
UFCF Growth %		NM	(21.8%)	(40.8%)	(20.1%)	(9.0%)	25.5%
Terminal Adjusted Unlevered FCF							283.8
Terminal Value							3,396.6
Discounted Cash Flow (8)	(103.6)	264.3	185.2	98.2	70.3	57.3	1,904.0
Firm Value	2,345.7						

#### **Sensitivity Analysis**

			Arm Value	as of Valu	ation Date				Squity Válue	as of Valu	ation Date	
			Perpet	ulty growt	h rate				Perpet	uity grow t	h rate	
		2.0%	2.5%	3.0%	3.5%	4.0%		2.0%	2.5%	3.0%	3.5%	4.0%
	10.6%	2,443	2,562	2,698	2,852	3,031	10.6%	1,155	1,274	1,410	1,565	1,743
	11.1%	2,289	2,393	2,510	2,643	2,794	11.1%	1,001	1,106	1,223	1,355	1,506
	11.6%	2,153	2,244	2,346	2,460	2,589	11.6%	865	956	1,058	1,172	1,301
\$	12.1%	2,031	2,111	2,200	2,299	2,411	12.1%	743	823	912	1,011	1,123
	12.6%	1,921	1,992	2,070	2,157	2,254	12.6%	633	704	782	869	966
			Implie	ed Egit Mul	tiple				PV of Term	inal Value	as % of FV	
			Perpet	uity grow t	h rate				Perpet	uity grow t	h rate	
		2.0%	2.5%	3.0%	3.5%	4.0%	9	2.0%	2.5%	3.0%	3.5%	4.0%
	10.6%	5.1 x	5.4 x	5.8 x	6.3 x	6.8 x	10.6%	73.3%	74.6%	75.8%	77.2%	78.5%
ŏ	11.1%	4.8 x	5.1 x	5.5 x	5.8 x	6.3 x	9 11.1%	71.9%	73.1%	74.4%	75.6%	77.0%
2	11.6%	4.6 x	4.8 x	5.1 x	5.5 x	5.9 x	11.6%	70.5%	71.7%	72.9%	74.1%	75.4%
	12.1%	4.3 x	4.6 x	4.9 x	5.2 x	5.5 x	12.1%	69.0%	70.2%	71.4%	72.7%	73.9%
	12.6%	4.1 x	4.4 x	4.6 x	4.9 x	5.2 x	12.6%	67.6%	68.8%	70.0%	71.2%	72.4%

Note: (1) Firm value adjustment numbers as of 31 March 2016. (2) Including restricted cash of US\$169mm. (3) Pro-rate discounted cash flow from remaining days in 2016. (4) This change is large as there is a US\$199mm third party payable relating to the downstream business which is paid down in 2016, and account receivable and prepaid interest are increasing, as downstream business grows significantly in 2016. (5) Due to lower accrued expense in 2022. (6) Includes sales of projects and in 2016 also includes other inventory adjustment.



### DCF Valuation – WACC Calculation

			Capital Structure		
	Value of Net Debt	Market Value of Equity	Net Debt / Total Capital Ratio	Statutory Marginal Tax Rate	Long Term Yield
Canadian Solar Inc.	\$1,334	\$877	60.3%	25.0%	Tiend
JinkoSolar Holding	1,218	870	58.3	25.0%	
Motech Industries, Inc.	70	511	12.1	17.0%	
First Solar, Inc.	(1,536)	4,959	(44.9)	40.0%	
SunPow er Corporation	1,263	2,267	35.8	40.0%	
Trina Solar	1,279 (1)	837 <sup>(2)</sup>	60.4	25.0%	13.0
High	\$1,334	\$4,959	60.4%		13.0%
Median	1,240	874	47.0		13.0
Mean	605	1,720	30.4		13.0
Low	(1,536)	511	(44.9)		13.0

Cost of Equity-Related Metrics				
	Adjusted Equity Beta (Bloomberg)	High Yield Issuer	Debt Beta	Unlevered Asset Beta
Canadian Solar Inc.	2.00	Υ	0.30	1.094
JinkoSolar Holding	2.13	Υ	0.30	1.192
Motech Industries, Inc.	1.12	Υ	0.30	1.038
First Solar, Inc.	1.58	Υ	0.30	1.870
SunPow er Corporation	1.94	Υ	0.30	1.528
Trina Solar	1.81 (3)	Y	0.30	0.898
High	2.13			1.87
Median	1.87			1.14
Mean	1.76			1.27
Low	1.12			0.90

Target Capital Structure (Net Debt / Tota	50	70	%	
After-Tax Cost of Debt:			9.8	%
Expected Long-Term Yield:			13.0	%
- Statutory Marginal Tax Rate:			25.0	%
Cost of Equity:	5.5% Equity Market Risk Premium	12.3 -	15.7	%
	6.7% Equity Market Risk Premium	13.9 –	18.0	%
Risk Free Rate (30-Year Treasury Bond):			2.3	%
Assumed Equity Market Risk Premium - low:			5.5	
Assumed Equity Market Risk Premium - high:			6.7	%
Relevered Equity Beta:		1.36 -	1.97	
- Unlevered Asset Beta:			0.90	
<ul> <li>Implied Net Debt / Equity Ratio:</li> </ul>		101.7 -	238.2	%
Small Cap Risk Premium:			2.2	%
High Yield Issuer? (Y / N)			Y	
Political Risk Premium			0.4	%
Weighted Average Cost of Capital:		11.0 -	12.2	%
5.5% Equity Market Risk Premi	um	11.5 -	11.0	%
6.7% Equity Market Risk Premi	um	11.8 -	12.2	%

- 30-year US treasury bond yield used as the risk free rate for WACC calculations given the Company's exposure to global markets and that it consolidates all regional revenues to US\$ for reporting purposes
- Small cap risk premium of 2.15 % applied based on current market cap of US\$795mn, according to Ibbotson SBBI Valuation Yearbook
- · Weighted average PRP based on the geographical allocation of sales
- High yield bonds defined as corporate bonds rated below BBB- or Baa3
- · The statutory marginal tax rate based on KPMG's Corporate and Indirect Tax Survey

Source: Bloomberg, FactSet., ElU, Citi WACC guideline, Citi estimate, KPMG's Corporate and Indirect Tax Survey, Ibbotson SBBI Valuation Yearbook.

Note: 1. Total debt of US\$1,900mm minus total cash and redistricted cash of US\$621mm. 2. Market cap of US\$795mm plus minority interest of US\$42mm. 3. Trina's adjusted beta calculated based on 5 year up to December 11, 2015, before the announcement of take-private proposal.



### Sum of the Parts Analysis

#### SOTP - 2016E FV / EBITDA

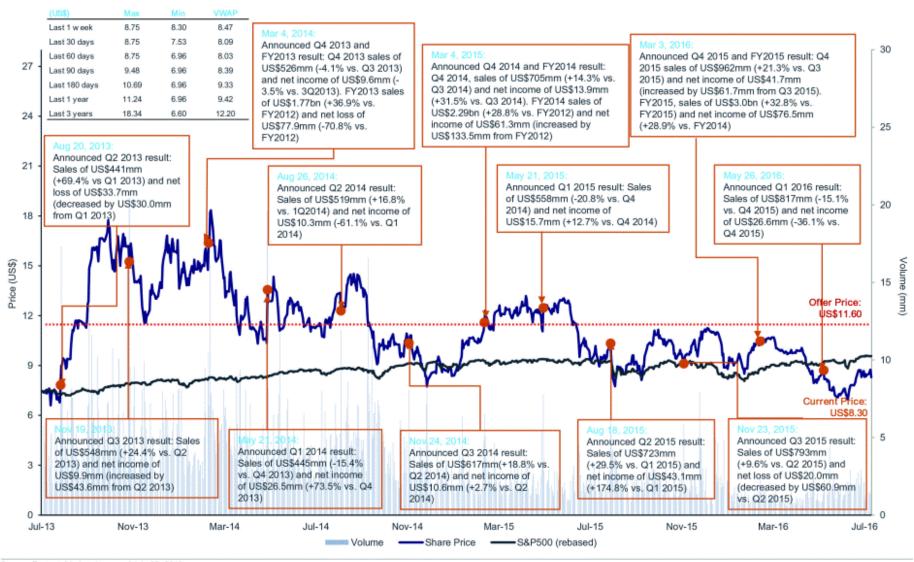
#### SOTP - 2016E P / E

Manufacturing Segment	<ul> <li>2016E manufacturing EBITDA of US\$319mm</li> <li>Applied multiples based on 2016E median of manufacturing comps of 5.1x, +/-10%</li> <li>Implied manufacturing segment firm value of US\$1.5bn-1.8bn</li> </ul>	<ul> <li>2016E manufacturing net income of US\$103mm<sup>(1)</sup></li> <li>Applied multiples based on 2016E median of manufacturing comps 7.4x P / E, +/-10%</li> <li>Implied manufacturing segment equity value of US\$680mm-831mm</li> </ul>
Solar Projects Segment	<ul> <li>2016E solar projects EBITDA of US\$86mm</li> <li>Applied multiples based on 2016E median of downstream comps 6.2x FV / EBITDA, +/-10%, assuming no difference in Chinese downstream market vs. the US downstream market</li> <li>Implied solar projects segment firm value of US\$481mm-587mm</li> </ul>	<ul> <li>2016E solar projects net income of US\$7mm<sup>(1)</sup></li> <li>Applied multiples based on 2016E median of downstream comps 11.1x P / E, +/-10%, assuming no difference in Chinese downstream market vs. the US downstream market</li> <li>Implied projects segment equity value of US\$67mm–82mm</li> </ul>
Intersegment Adjustment <sup>(2)</sup>	<ul> <li>2016E EBITDA intersegment adjustment of US\$11mm</li> <li>Applied multiples based on weighted average of manufacturing and solar projects multiple, 5.3x +/- 10%</li> <li>Implied intersegment adjustment firm value of US\$51mm-62mm</li> </ul>	<ul> <li>2016E net income intersegment adjustment of US\$10mm</li> <li>Applied multiples based on weighted average of manufacturing and solar projects multiple, 7.6x +/- 10%</li> <li>Implied intersegment adjustment equity value of US\$66mm-81mm</li> </ul>
Combined Firm Value	Combined firm value of US\$2.0bn–2.4bn	Combined firm value of US\$2.1bn-2.3bn

Note: (1) Tax adjustment of US\$6mm at combined level for each segment, with US\$4mm attributed to manufacturing segment and US\$2mm attributed to solar projects segment. (2) When the Company internally provides modules from the upstream business to the downstream solar farm business, intercompany sales and related figures are eliminated. When the Company eventually sells solar projects to a third party, the corresponding sales and profits are realized and can result in a positive adjustment. 10



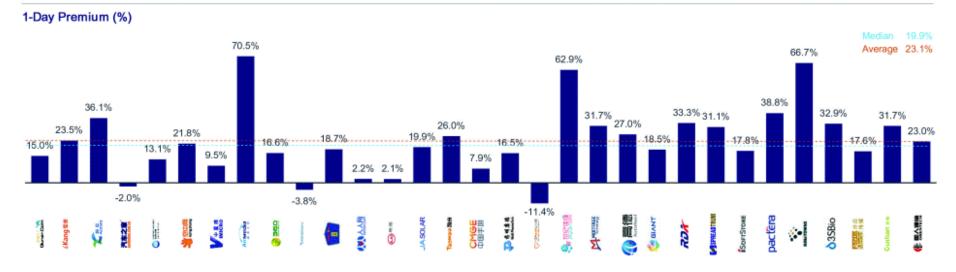
### Trina Solar's Share Last 3 Years Price Performance

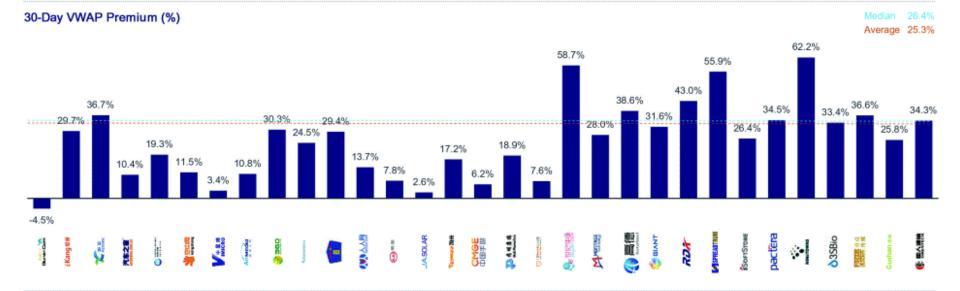


Source: Factset. Market data as of July 28, 2016.



### Precedent US-listed Chinese Take Private Transactions<sup>1</sup>





Includes transactions where the buyer group owns less than 50% voting right before launching the privatisation offer.
 Note: NBO = non-binding proposal submitted; Signed = merger agreement executed. Deal value sourced from Dealogic and represents the amount paid by the acquiror for the % of the target acquired, including net debt.

