

Quarterly Industry Update

As of December 31, 2014

Industry: Solar

Industry Summary

Cogent Valuation identified publicly traded companies, IPOs, and recent M&A transactions within the Solar industry, which provides a basis for market and transaction pricing that can be used by your firm in estimating market sentiment and its impact on your firm's value. Since December 31, 2013, the median 52-week share price return of the Solar industry has decreased by -18.4%. In the last quarter, the median price-to-earnings multiple remained unchanged.

Comparable Public Company Key Statistics

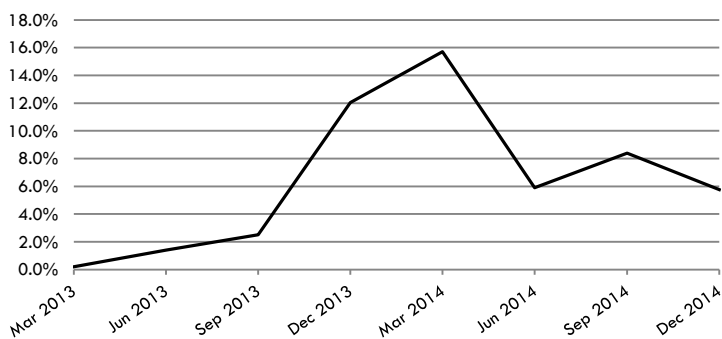
Median 52-Week Return	-18.4%	Median EV/Revenue Multiple	1.1x	Median Price/Earnings Multiple	11.3x
Median 3-Year CAGR Return	9.7%	Median EV/EBITDA Multiple	6.7x	Median EV/Gross CF Multiple	9.2x

Comparable Public Company Market Price Returns (As of December 31, 2014)

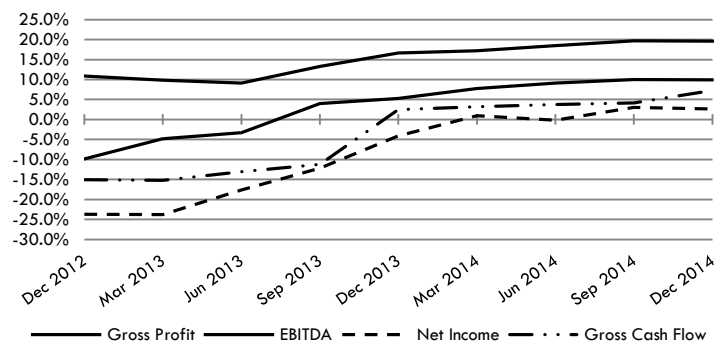
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2014	2013	2012	2011	2010
First Solar, Inc.	-18.4%	-32.2%	-18.4%	20.2%	9.7%	-19.9%	-18.4%	77.1%	-8.6%	-74.1%	-3.9%
SunPower Corporation	-13.4%	-23.8%	-13.4%	114.4%	60.6%	N/A	-13.4%	430.4%	-9.8%	N/A	N/A
JA Solar Holdings Co., Ltd.	-10.7%	-11.5%	-10.7%	38.5%	6.9%	-22.1%	-10.7%	114.8%	-36.3%	-80.6%	21.4%
Trina Solar Limited	-32.3%	-23.3%	-32.3%	46.1%	11.5%	-19.3%	-32.3%	215.0%	-35.0%	-71.5%	-13.2%
Yingli Green Energy Holding Co. Ltd.	-53.5%	-24.4%	-53.5%	0.0%	-14.8%	-31.7%	-53.5%	114.9%	-38.2%	-61.5%	-37.5%
China Sunergy Co. Ltd.	-79.8%	-57.3%	-79.8%	-7.3%	2.9%	-38.5%	-79.8%	324.6%	26.8%	-91.1%	-9.5%
Ascent Solar Technologies, Inc.	-84.8%	-51.6%	-84.8%	-58.5%	-35.0%	-54.2%	-84.8%	13.7%	59.0%	-88.4%	-36.6%
Canadian Solar Inc.	-18.9%	-32.4%	-18.9%	166.7%	108.7%	-3.4%	-18.9%	777.1%	27.8%	-78.5%	-57.0%
JinkoSolar Holding Co., Ltd.	-32.7%	-28.3%	-32.7%	78.2%	58.0%	N/A	-32.7%	371.8%	24.2%	-75.1%	N/A
Song Da Industry Trade Jsc	8.9%	2.4%	8.9%	0.8%	3.2%	-27.3%	8.9%	-6.6%	8.1%	-75.2%	-25.3%
Ellomay Capital Ltd.	-0.4%	-1.9%	-0.4%	27.4%	20.1%	9.2%	-0.4%	62.9%	6.8%	-25.3%	20.0%
Enphase Energy, Inc.	125.4%	-4.7%	125.4%	97.9%	N/A	N/A	125.4%	73.7%	N/A	N/A	N/A
SolarCity Corporation	-5.9%	-10.3%	-5.9%	111.7%	N/A	N/A	-5.9%	376.3%	N/A	N/A	N/A
Median of Industry Public Companies	-18.4%	-23.8%	-18.4%	38.5%	9.7%	-22.1%	-18.4%	114.9%	6.8%	-75.2%	-13.2%

(Multiple year periods are calculated as the average annual return.)

Median Quarterly Revenue Growth of All Solar Companies



Median Gross Profit, EBITDA, Net Income and Gross Cash Flow Margins



Median Public Company Multiples of the Solar Industry

Date:	12/31/2012	3/31/2013	6/30/2013	9/30/2013	12/31/2013	3/31/2014	6/30/2014	9/30/2014	12/31/2014
EV/Revenues Multiple	0.8x	1.0x	1.1x	1.3x	1.4x	1.3x	1.3x	1.8x	1.1x
EV/EBITDA Multiple	3.2x	19.5x	15.6x	15.7x	10.2x	11.2x	9.3x	8.2x	6.7x
Price/Earnings Multiple	6.0x	9.7x	13.1x	9.0x	20.4x	18.5x	16.4x	17.2x	11.3x
EV/Gross Cash Flows Multiple	nm	4.1x	5.9x	4.2x	18.9x	13.5x	18.2x	14.8x	9.2x

This industry research is provided at no charge to Cogent Valuation's clients. Research or detailed information not covered in this report can be obtained for a fee. Contact [Steven Kam](#) at 415-392-0888 for additional information or questions in connection with this research report.

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As of December 31, 2014

Industry: Solar

Industry Initial Public Offerings (dollars in millions, except share prices)

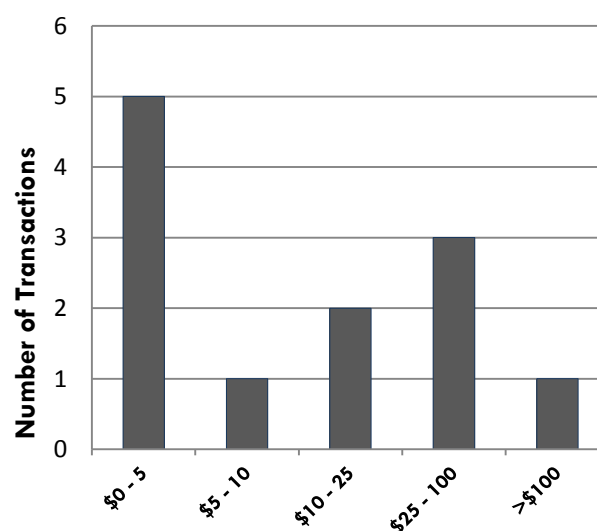
Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	Total Assets	Debt	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
12/12/2012	SolarCity Corporation	\$8.00	11.5	\$92.0	\$1,151.2	\$299.3	\$124.1	(\$40.7)	(\$47.1)	N/A
3/29/2012	Enphase Energy, Inc.	\$6.00	9.0	\$53.8	\$106.2	\$33.9	\$149.5	(\$26.4)	(\$32.3)	(\$24.0)
5/13/2010	JinkoSolar Holding Co., Ltd.	\$11.00	5.8	\$64.2	\$378.8	\$167.4	\$274.7	\$37.3	\$24.1	\$37.3
6/7/2007	Yingli Green Energy Holding Co. Ltd.	\$11.00	29.0	\$319.0	\$435.4	\$182.9	\$241.3	\$55.3	\$25.8	\$62.2
5/17/2007	China Sunergy Co. Ltd.	\$11.00	8.5	\$93.5	\$176.3	\$77.9	\$149.5	\$16.9	\$11.8	\$18.7
2/6/2007	JA Solar Holdings Co., Ltd.	\$15.00	15.0	\$225.0	\$63.1	\$19.2	\$89.2	\$18.2	\$16.4	\$19.5
12/18/2006	Trina Solar Limited	\$18.50	5.3	\$98.1	\$112.5	\$44.3	\$91.6	\$14.8	\$10.0	\$15.8
11/16/2006	First Solar, Inc.	\$20.00	20.0	\$400.0	\$255.1	\$71.0	\$95.9	(\$5.1)	(\$11.3)	\$2.4
11/8/2006	Canadian Solar Inc.	\$15.00	7.7	\$115.5	\$66.3	\$23.2	\$50.7	\$7.8	(\$3.6)	\$7.8
7/10/2006	Ascent Solar Technologies, Inc.	\$5.50	3.0	\$16.5	\$0.2	\$0.2	\$0.0	\$0.0	(\$7.2)	\$0.0
Median of All IPOs		nm	nm	\$106.8	\$144.4	\$44.3	\$95.9	\$3.9	(\$1.8)	\$7.8

nm: not meaningful

Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

Transaction Date	Target	Acquirer	Transaction Size	% Bought
11/18/2014	Avacos Solar	ONEnergy Inc.	\$1.4	100%
11/4/2014	Hudson Energy Solar Corp.	SunEdison, Inc.; TerraForm	\$56.0	100%
9/22/2014	Tripod Energy AB	Innotech Solar AS	\$6.4	100%
5/15/2014	Golmud TBEA	Shenzhen CLOU Energy	\$1.7	100%
3/12/2014	FCC Energia, SA	Plenium Partners	\$11.1	51%
1/7/2014	Changzhou Dinghui New Energy	United Photovoltaics	\$2.5	100%
12/3/2013	Mia Sol Solar	Aspen Group Ltd.	\$4.0	100%
10/1/2013	Wafering Technology Corp.	Gigastorage Corporation	\$3.7	100%
5/31/2013	DeSolar Co.	Neo Solar Power	\$241.6	85%
4/18/2013	Yunnan Tianda Photovoltaic	Xi'an North Photoelectric	\$14.0	88%
2/20/2013	Photovoltaech	Solartec S.A.	\$63.1	100%
1/9/2013	MiaSolé	Hanergy Holdings Group	\$30.0	100%
Median of All Transaction Targets			\$8.7	100%

Size of Merger and Acquisition Transactions (dollars in millions)



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