As of September 30, 2016 Industry: Solar Energy

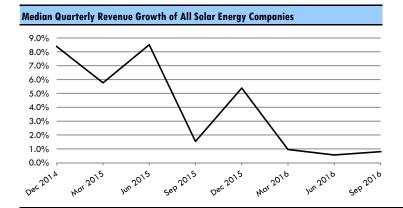


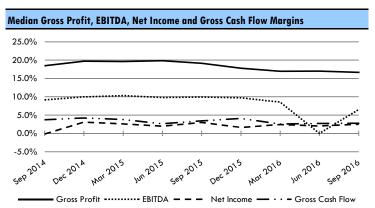
Industry Summary

Cogent Valuation identified Solar Energy publicly traded companies, IPOs, and recent M&A transactions within the Solar Energy 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. Over the last year since September 30, 2015, the median 52-week share price return of the Solar Energy industry was -22.9%. Between September 30, 2014 and September 30, 2016, the median EV/EBITDA multiple decreased from 9.6 to 5.7. Furthermore, the median price-to-earnings multiple decreased from 16.7 to 5.8 over the same period.

Comparable Public Company Key Statist	tics												
Median 52-Week Return	-22.9%	M	edian EV/R	evenue Mu	ıltiple	1.2x	2x Median Price/Earnings Multiple						
Median 3-Year CAGR Return	-16.1%	Median EV/EBITDA Multiple				5.7x	Median EV/Gross CF Multiple				14.7x		
Comparable Public Company Market Price Returns (As of September 30, 2016)													
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011		
Ascent Solar Technologies, Inc.	-84.5%	-69.1%	-99.4%	-97.7%	-95.0%	-82.8%	-86.4%	-84.8%	13.7%	59.0%	-88.4%		
Canadian Solar Inc.	-52.6%	-9.1%	-17.3%	-38.0%	-6.8%	30.1%	19.7%	-18.9%	777.1%	27.8%	-78.5%		
China Sunergy Co. Ltd.	-93.2%	-34.8%	-93.5%	-83.8%	-76.8%	-55.1%	-9.8%	-79.8%	324.6%	26.8%	-91.1%		
Ellomay Capital Ltd.	5.6%	20.4%	8.7%	-4.1%	0.4%	8.6%	-11.2%	-0.4%	62.9%	6.8%	-25.3%		
Enphase Energy, Inc.	-66.4%	-40.7%	-68.1%	-71.9%	-47.4%	N/A	-75.4%	125.4%	73.7%	N/A	N/A		
First Solar, Inc.	-40.2%	-18.5%	-7.6%	-22.5%	-0.6%	-9.0%	48.0%	-18.4%	77.1%	-8.6%	-74.1%		
JA Solar Holdings Co., Ltd.	-38.0%	-12.3%	-22.9%	-19.4%	-16.1%	-7.6%	18.5%	-10.7%	114.8%	-36.3%	-80.6%		
JinkoSolar Holding Co., Ltd.	-42.9%	-22.5%	-28.0%	-24.2%	-11.2%	26.6%	40.4%	-32.7%	371.8%	24.2%	-75.1%		
SolarCity Corporation	-61.7%	-18.3%	-54.2%	-42.7%	-17.3%	N/A	-4.6%	-5.9%	376.3%	N/A	N/A		
Song Da Industry Trade Jsc	-18.6%	-14.4%	-15.8%	-11.4%	-0.1%	-13.9%	-18.1%	8.9%	-6.6%	8.1%	-75.2%		
SunPower Corporation	-70.3%	-42.4%	-55.5%	-48.7%	-30.1%	N/A	16.2%	-13.4%	430.4%	-9.8%	N/A		
Trina Solar Limited	-7.1%	32.3%	14.2%	-7.9%	-12.8%	11.0%	19.0%	-32.3%	215.0%	-35.0%	-71.5%		
Yingli Green Energy Holding Co. Ltd.	-14.6%	-4.7%	-5.2%	-64.7%	-61.8%	-34.0%	-80.7%	-53.5%	114.9%	-38.2%	-61.5%		
Median of Industry Public Companies	-42.9%	-18.3%	-22.9%	-38.0%	-16.1%	-8.3%	-4.6%	-18.4%	114.9%	6.8%	-75.2%		

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





Median Public Company Multiples of the Solar Energy Industry												
Date:	9/30/2014	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016			
EV/Revenues Multiple	1.5x	1.2x	1.2x	1.2x	1.0x	1.1x	1.1x	0.9x	1.2x			
EV/EBITDA Multiple	9.6x	6.6x	8.1x	7.7x	8.1x	9.1x	7.1x	6.5x	5.7x			
Price/Earnings Multiple	16.7x	14.2x	13.4x	8.8x	9.0x	9.8x	9.4x	6.5x	5.8x			
EV/Gross Cash Flows Multiple	15.2x	13.5x	12.2x	12.0x	16.2x	23.3x	12.2x	17.0x	14.7x			

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.

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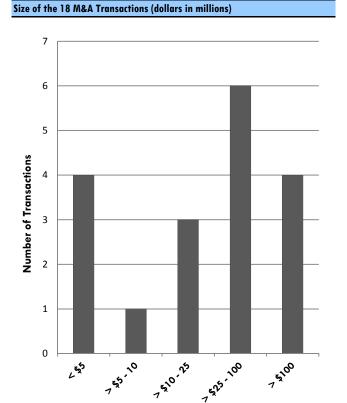
As of September 30, 2016 **Industry: Solar Energy**



Industry Init	ial Public Offerings (dollars in millions	, except share pri	ces)							
Offer Date 8/5/2015	Company Name Sunrun Inc.	Offer Price \$14.00	Shares Offered	Amount Raised \$250.6	<u>Total Assets</u> \$2,016.4	<u>Debt</u> \$447.1	LTM Revenues \$217.8	<u>LTM EBITDA</u> (\$105.0)	LTM Net Income (\$77.1)	LTM Cash Flows (\$57.5)
3/26/2015	SolarEdge Technologies, Inc.	\$18.00	7.0	\$126.0	\$133.3	\$4.7	\$217.0	\$1.7	(\$2.4)	\$3.9
9/30/2014	Vivint Solar, Inc.	\$16.00	20.6	\$329.6	\$566.3	\$140.5	\$14.3	(\$75.1)	\$38.6	(\$70.8)
12/12/2012	SolarCity Corporation	\$8.00	11.5	\$92.0	\$1,151.2	\$299.3	\$124.1	(\$40.7)	(\$47.1)	(\$22.3)
3/29/2012	Enphase Energy, Inc.	\$6.00	6.5	\$53.8	\$106.2	\$34.1	\$149.5	(\$26.3)	(\$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	\$17.0	\$11.8	\$18.7
2/6/2007	JA Solar Holdings Co., Ltd.	\$15.00	15.0	\$225.0	\$7.3	\$0.0	\$0.0	(\$0.5)	(\$0.7)	(\$0.5)
12/18/2006	Trina Solar Limited	\$18.50	5.3	\$98.1	\$112.5	\$39.1	\$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	\$57.5	\$23.2	\$37.4	\$8.3	(\$2.6)	\$8.5
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
12/13/2005	Suntech Power Holdings Co. Ltd.	\$15.00	26.4	\$395.7	\$135.2	\$51.3	\$174.7	\$49.9	\$34.0	\$52.6
11/16/2005	SunPower Corporation	\$18.00	7.7	\$138.6	\$164.8	\$0.0	\$54.1	(\$10.2)	(\$25.6)	(\$0.9)
Median of Al	l IPOs	nm	nm	\$126.0	\$164.8	\$51.3	\$124.1	\$0.0	(\$2.4)	\$2.4

nm: not meaningful

Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)									
<u>Transaction Date</u>	<u>Target</u>	<u>Acquirer</u>	Transaction Size	<u>% Bought</u>					
5/4/2016	Global Resource Options	EDF Renewable Energy	\$34.8	100%					
4/29/2016	Desri Portal Ridge	Firstar Development, LLC	\$37.8	100%					
3/24/2016	Caithness Energy	Global Infrastructure Partners	\$20.0	100%					
2/11/2016	Gestamp Asetym Solar	KKR & Co. L.P.	\$800.0	80%					
11/2/2015	Aaron Services Ltd.	Lakehouse plc	\$15.4	100%					
10/15/2015	Suniva Inc.	Shunfeng International	\$45.0	63%					
8/5/2015	Energy Source Partners	Revolution Lighting Tech	\$30.1	100%					
7/30/2015	Solairedirect SA	ENGIE SA	\$275.4	95%					
6/25/2015	Solar Alliance of Amer.	Finavera Wind Energy	\$5.0	100%					
5/28/2015	Solar Juice Pty Ltd.	SPI China (HK) Limited	\$28.0	80%					
5/13/2015	REC Solar ASA	Bluestar Elkem Investment	\$634.4	100%					
3/30/2015	Recurrent Energy, LLC	Canadian Solar Inc.	\$265.0	100%					
12/31/2014	Next Phase Solar, Inc.	Enphase Energy, Inc.	\$2.5	100%					
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%					
Median of the	18 M&A Transaction Targe	\$29.0	100%						



Definitions of Financial Terms Used in this Quarterly Industry Update:

Enterprise Value (EV): Market Value of Equity + Market Value of Debt - Cash

Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA): Profitability metric sometimes also referred to as operating profit or operating earnings.

Gross Cash Flows: Net Income + Depreciation and Amortization Expense

Latest Twelve Months (LTM): Financial information is as of the latest twelve months through the date of this Quarterly Industry Update.

As of September 30, 2016 Clean Energy Industry Aggregates



Comparable Public Company Key Statist	tics										
Median 52-Week Return	-10.5%	Median EV/Revenue Multiple				1.9x	M	Multiple	8.0x		
Median Year-to-Date Return	-18.6%	Median EV/EBITDA Multiple				13.7x	Median EV/Gross CF Multiple				9.0x
Comparable Public Company Market Pri	ce Returns (As o	of September	30, 2016)								
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011
Ameresco, Inc.	-15.8%	20.4%	-10.5%	-12.4%	-19.3%	-12.3%	-10.7%	-27.5%	-1.5%	-28.5%	-4.5%
Amyris, Inc.	-64.2%	28.7%	-71.1%	-60.9%	-36.9%	-50.9%	-21.4%	-61.1%	69.6%	-73.0%	-56.7%
Ascent Solar Technologies, Inc.	-84.5%	-69.1%	-99.4%	-97.7%	-95.0%	-82.8%	-86.4%	-84.8%	13.7%	59.0%	-88.4%
Canadian Solar Inc.	-52.6%	-9.1%	-17.3%	-38.0%	-6.8%	30.1%	19.7%	-18.9%	777.1%	27.8%	-78.5%
Codexis, Inc.	5.0%	10.2%	31.0%	38.0%	36.1%	-0.6%	67.9%	80.0%	-36.7%	-58.3%	-50.0%
Deinove SA	-32.9%	-20.8%	-57.5%	-45.7%	-43.4%	-23.3%	-45.4%	-56.8%	32.1%	58.0%	61.5%
Ellomay Capital Ltd.	5.6%	20.4%	8.7%	-4.1%	0.4%	8.6%	-11.2%	-0.4%	62.9%	6.8%	-25.3%
Enphase Energy, Inc.	-66.4%	-40.7%	-68.1%	-71.9%	-47.4%	N/A	-75.4%	125.4%	73.7%	N/A	N/A
First Solar, Inc.	-40.2%	-18.5%	-7.6%	-22.5%	-0.6%	-9.0%	48.0%	-18.4%	77.1%	-8.6%	-74.1%
Gevo, Inc.	-22.3%	-18.3%	-72.0%	-69.4%	-74.4%	-64.3%	-87.1%	-77.6%	-7.1%	-75.5%	N/A
Green Plains Inc.	14.4%	32.9%	34.6%	-16.3%	17.7%	22.9%	-7.6%	27.9%	145.0%	-19.0%	-13.3%
JA Solar Holdings Co., Ltd.	-38.0%	-12.3%	-22.9%	-19.4%	-16.1%	-7.6%	18.5%	-10.7%	114.8%	-36.3%	-80.6%
JinkoSolar Holding Co., Ltd.	-42.9%	-22.5%	-28.0%	-24.2%	-11.2%	26.6%	40.4%	-32.7%	371.8%	24.2%	-75.1%
Metabolix, Inc.	-70.8%	-45.8%	-67.4%	-71.3%	-61.0%	-55.7%	-37.6%	-67.3%	-14.9%	-67.5%	-62.6%
MGP Ingredients Inc.	56.1%	6.0%	153.1%	76.1%	97.7%	51.5%	63.6%	205.6%	51.8%	-32.1%	-54.3%
NextEra Energy Partners, LP	-6.3%	-7.9%	28.3%	-10.2%	N/A	N/A	-11.6%	N/A	N/A	N/A	N/A
Pacific Ethanol, Inc.	44.6%	26.8%	6.5%	-29.6%	25.3%	9.8%	-53.7%	102.9%	7.3%	-70.2%	-79.0%
SolarCity Corporation	-61.7%	-18.3%	-54.2%	-42.7%	-17.3%	N/A	-4.6%	-5.9%	376.3%	N/A	N/A
TerraVia Holdings, Inc.	10.9%	5.0%	5.8%	-39.3%	-36.6%	-22.1%	-3.9%	-76.3%	38.5%	-33.9%	N/A
Song Da Industry Trade Jsc	-18.6%	-14.4%	-15.8%	-11.4%	-0.1%	-13.9%	-18.1%	8.9%	-6.6%	8.1%	-75.2%
SunPower Corporation	-70.3%	-42.4%	-55.5%	-48.7%	-30.1%	N/A	16.2%	-13.4%	430.4%	-9.8%	N/A
TerraForm Power, Inc.	10.6%	27.6%	-2.2%	-30.6%	N/A	N/A	-59.3%	N/A	N/A	N/A	N/A
The Andersons, Inc.	14.4%	1.8%	6.2%	-24.1%	-8.1%	10.0%	-40.5%	-10.6%	107.9%	-1.7%	20.1%
Trina Solar Limited	-7.1%	32.3%	14.2%	-7.9%	-12.8%	11.0%	19.0%	-32.3%	215.0%	-35.0%	-71.5%
Yingli Green Energy Holding Co. Ltd.	-14.6%	-4.7%	-5.2%	-64.7%	-61.8%	-34.0%	-80.7%	-53.5%	114.9%	-38.2%	-61.5%
Median of Industry Public Companies	-18.6%	-7.9%	-10.5%	-29.6%	-16.1%	-8.3%	-11.2%	-18.4%	69.6%	-28.5%	-62.1%

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

As of September 30, 2016 Clean Energy Industry Aggregates



Date:	9/30/2014	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016
EV/Revenues Multiple	1.5x	1.4x	1.3x	1.2x	1.1x	1.3x	1.2x	1.3x	1.9x
EV/EBITDA Multiple	10.2x	7.7x	8.1x	8.5x	8.5x	10.2x	8.5x	12.5x	13.7x
Price/Earnings Multiple	21.2x	14.5x	22.5x	23.8x	15.7x	20.6x	11.6x	10.9x	8.0x
EV/Gross Cash Flows Multiple	15.6x	9.9x	10.6x	19.5x	22.2x	13.0x	29.2x	18.0x	9.0x

Industry Initi	al Public Offerings - Clean Energy Indu	ıstry Aggregates	(dollars in milli	ons, except sha	re prices)					
Offer Date	Company Name	Offer Price \$0.13	Shares Offered	Amount Raised \$5.8	Total Assets \$9.1	<u>Debt</u> \$2.1	LTM Revenues \$4.4	LTM EBITDA	LTM Net Income	LTM Cash Flows
5/11/2016 8/5/2015	Green & Smart Holdings PLC Sunrun Inc.	\$14.00	17.9	\$250.6	\$2,016.4	\$447.1	\$4.4	\$1.0 (\$105.0)	\$1.0	\$1.0
3/26/2015	SolarEdge Technologies, Inc.	\$14.00	7.0	\$126.0	\$133.3	\$4.7	\$217.6	\$1.7	(\$77.1)	(\$57.5) \$3.9
	Vivint Solar, Inc.	\$16.00		\$329.6	\$566.3	\$140.5	\$14.3		(\$2.4)	
9/30/2014	•		20.6					(\$75.1)	\$38.6	(\$70.8)
12/12/2012	SolarCity Corporation	\$8.00	11.5	\$92.0	\$1,151.2	\$299.3	\$124.1	(\$40.7)	(\$47.1)	(\$22.3)
3/29/2012	Enphase Energy, Inc.	\$6.00	6.5	\$53.8	\$106.2	\$34.1	\$149.5	(\$26.3)	(\$32.3)	(\$24.0)
1/18/2012	Renewable Energy Group, Inc.	\$10.00	7.2	\$72.0	\$472.6	\$109.5	\$626.8	\$78.6	(\$15.9)	\$85.5
6/23/2011	KiOR, Inc.	\$15.00	10.0	\$150.0	\$82.2	\$9.2	\$0.0	(\$36.0)	(\$53.1)	(\$34.3)
5/26/2011	TerraVia Holdings, Inc.	\$18.00	11.0	\$197.6	\$86.7	\$0.2	\$40.0	(\$16.7)	(\$19.6)	(\$15.8)
2/8/2011	Gevo, Inc.	\$15.00	7.2	\$107.3	\$57.9	\$20.3	\$2.4	(\$32.0)	(\$40.8)	(\$29.2)
9/27/2010	Amyris, Inc.	\$16.00	5.3	\$84.8	\$305.0	\$12.8	\$68.1	(\$62.8)	(\$76.0)	(\$56.4)
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
4/21/2010	Codexis, Inc.	\$13.00	6.0	\$78.0	\$99.0	\$7.9	\$82.9	(\$11.1)	(\$20.3)	(\$6.0)
6/14/2007	BioFuels Energy Corp.	\$10.50	5.3	\$55.1	\$121.5	\$0.0	\$0.0	(\$12.2)	(\$3.1)	(\$12.2)
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	\$17.0	\$11.8	\$18.7
2/6/2007	JA Solar Holdings Co., Ltd.	\$15.00	15.0	\$225.0	\$7.3	\$0.0	\$0.0	(\$0.5)	(\$0.7)	(\$0.5)
12/18/2006	Trina Solar Limited	\$18.50	5.3	\$98.1	\$112.5	\$39.1	\$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
11/13/2006	Metabolix, Inc.	\$14.00	6.8	\$95.2	\$22.0	\$0.0	\$5.1	(\$7.7)	(\$8.6)	(\$7.1)
11/8/2006	Canadian Solar Inc.	\$15.00	7.7	\$115.5	\$57.5	\$23.2	\$37.4	\$8.3	(\$2.6)	\$8.5
8/22/2006	The Andersons, Inc.	\$37.00	2.3	\$83.3	\$600.7	\$248.8	\$1,331.6	\$68.9	\$28.9	\$90.8
7/12/2006	FutureFuel Corp.	\$8.00	22.5	\$180.0	N/A	N/A	N/A	N/A	N/A	N/A
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	I IPOs	nm	nm	\$96.6	\$121.5	\$23.2	\$82.9	(\$5.1)	(\$7.2)	(\$0.5)

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