As of December 31, 2015 Industry: Biofuel Energy

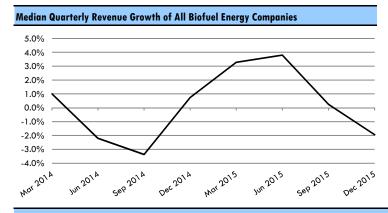


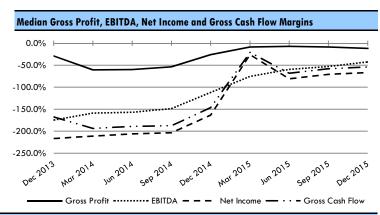
#### **Industry Summary**

Cogent Valuation identified Biofuel Energy publicly traded companies, IPOs, and recent M&A transactions within the Biofuel 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 December 31, 2014, the median 52-week share price return of the Biofuel Energy industry was -29.5%. Between December 31, 2013 and December 31, 2015, the median EV/EBITDA multiple decreased from 14.1 to 11.8. Furthermore, the median price-to-earnings multiple decreased from 17.0 to 15.9 over the same period.

Comparable Public Company Key Statistics													
Median 52-Week Return	-29.5%	M	edian EV/R	Revenue Mu	ıltiple	1.4x	М	Multiple	15.9x				
Median 3-Year CAGR Return	-9.7%	Median EV/EBITDA Multiple				11.8x	M	11.4x					
Comparable Public Company Market Price Returns (As of December 31, 2015)													
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011		
Amyris, Inc.	-21.4%	-19.4%	-21.4%	-44.7%	-19.6%	-42.9%	-21.4%	-61.1%	69.6%	-73.0%	-56.7%		
Codexis, Inc.	67.9%	24.8%	67.9%	73.8%	24.2%	-16.8%	67.9%	80.0%	-36.7%	-58.3%	-50.0%		
Deinove SA	-45.4%	-36.8%	-45.4%	-51.5%	-32.2%	-4.5%	-45.4%	-56.8%	32.1%	58.0%	61.5%		
Gevo, Inc.	-87.1%	-64.0%	-87.1%	-83.0%	-70.1%	N/A	-87.1%	-77.6%	-7.1%	-75.5%	N/A		
Green Plains Inc.	-7.6%	17.7%	-7.6%	8.7%	42.5%	15.3%	-7.6%	27.9%	145.0%	-19.0%	-13.3%		
Metabolix, Inc.	-37.6%	11.6%	-37.6%	-54.9%	-44.2%	-53.8%	-37.6%	-67.3%	-14.9%	-67.5%	-62.6%		
MGP Ingredients Inc.	63.6%	62.1%	63.6%	123.6%	96.5%	18.6%	63.6%	205.6%	51.8%	-32.1%	-54.3%		
Pacific Ethanol, Inc.	-53.7%	-26.3%	-53.7%	-3.1%	0.3%	-42.5%	-53.7%	102.9%	7.3%	-70.2%	-79.0%		
TerraVia	-3.9%	-4.6%	-3.9%	-52.3%	-31.9%	N/A	-3.9%	-76.3%	38.5%	-33.9%	N/A		
The Andersons, Inc.	-40.5%	-7.1%	-40.5%	-27.1%	3.4%	5.5%	-40.5%	-10.6%	107.9%	-1.7%	20.1%		
Median of Industry Public Companies	-29.5%	-5.9%	-29.5%	-35.9%	-9.7%	-10.6%	-29.5%	-33.7%	35.3%	-46.1%	-52.2%		

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





Aedian Public Company Multiples of the Biofuel Energy Industry												
Date:	12/31/2013	3/31/2014	6/30/2014	9/30/2014	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015			
EV/Revenues Multiple	0.4x	l.lx	0.9x	2.6x	2.5x	1.3x	1.4x	2.3x	1.4x			
EV/EBITDA Multiple	14.1x	11.9x	11. <b>3</b> x	11.0x	10.7x	10.2x	8.5x	7.3x	11.8x			
Price/Earnings Multiple	17.0x	19.8x	14.6x	25.4x	13.8x	10.9x	10.8x	11.4x	15.9x			
EV/Gross Cash Flows Multiple	15.8x	17.2x	14.7x	14.3x	8.6x	7.1x	8.0x	7.0x	11.4x			

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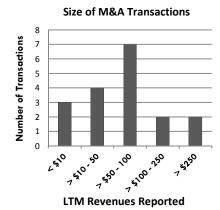
As of December 31, 2015 Industry: Biofuel Energy

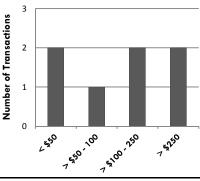


Industry Init	ial Public Offerings (dollars in mill	ions, except share pr	ices)							
Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	<u>Total Assets</u>	<u>Debt</u>	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
1/18/2012	Renewable Energy Group, Inc.	\$10.00	7.2	\$72.0	\$472.6	\$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	Solazyme, 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)
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)
11/13/2006	Metabolix, Inc.	\$14.00	6.8	\$95.2	\$22.0	\$0.0	\$5.1	(\$7.7)	(\$8.6)	(\$7.1)
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
2/15/2000	BASF Enzymes LLC	\$24.00	7.3	\$174.0	\$29.5	\$3.3	\$10.3	(\$6.0)	(\$10.4)	(\$4.5)
Median of Al	l IPOs	nm	nm	\$95.2	\$92.9	\$8.6	\$25.1	(\$11.7)	(\$17.7)	(\$9.6)

nm: not meaningful

<u>Transaction Date</u>	<u>Target</u>	<u>Acquirer</u>	<u>Transaction Size</u>	<u>% Bought</u>	LTM Revenues	EV/Revenue:
6/25/2015	H2 Logic A/S	NEL ASA	\$38.5	100%	\$5.4	7.2x
6/16/2015	Biomethanol Chemie	OCI N.V.	\$16.9	100%	N/A	N/A
12/5/2014	Red Shield Acquisition LLC	Expera Specialty Solutions	\$10.5	100%	N/A	N/A
10/24/2014	Biofuel Research Pte. Ltd.	Unionmet (Singapore)	\$2.4	51%	\$1.3	3.6x
10/14/2014	Nidera B.V.	COFCO Corporation	\$1,300.0	51%	N/A	N/A
6/22/2014	Virdia Inc.	Stora Enso Oyj	\$62.0	100%	N/A	N/A
1/22/2014	LS9, Inc.	Renewable Energy Group	\$61.9	100%	N/A	N/A
10/31/2013	Verenium Corporation	BASF Corporation	\$96.4	100%	\$53.4	1.4x
5/15/2013	Energy Park Sutton Bridge	Pacific Green	\$68.8	100%	N/A	N/A
10/25/2012	SIA BIOIL	Montague International	\$0.2	90%	N/A	N/A
9/27/2012	A2A Coriance	Kohlberg Kravis Roberts	\$196.0	100%	\$122.5	1. <b>6</b> x
5/7/2012	Pure Biofuels	Pegasus Capital Advisors	\$72.2	100%	N/A	N/A
1/17/2012	GTL Resources	North Atlantic Value	\$140.1	52%	\$333.1	0.4x
1/4/2012	Blue Flint Ethanol	Great River Energy	\$64.4	51%	\$171.7	0.4x
1/3/2012	Range Fuels	Lanzatech NZ	\$5.1	100%	N/A	N/A
12/12/2011	Eco2 Limited	BNP Paribas Investment	\$265.4	100%	N/A	N/A
11/1/2011	NuGen Energy	REX American Resources	\$95.7	51%	\$336.6	0.3x
10/31/2011	Huaneng Jilin Biological	Huaneng Jilin Power	\$16.4	100%	N/A	N/A
Median of the	18 M&A Transaction Targe	ets	\$63.2	100%	\$122.5	1.4x





#### 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 December 31, 2015 Clean Energy Industry Aggregates



Comparable Public Company Key Statis	tics										
Median 52-Week Return	-11.2%	Μ	edian EV/R	evenue Mu	ıltiple	1.3x	Median Price/Earnings Multiple				
Median Year-to-Date Return	-11.2%	Μ	edian EV/E	BITDA Mult	tiple	10.2x	Me	ultiple	15.7x		
Comparable Public Company Market Pri	ice Returns (As o	f December	31, 2015)								
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011
Ameresco, Inc.	-10.7%	6.3%	-10.7%	-19.6%	-14.0%	-15.3%	-10.7%	-27.5%	-1.5%	-28.5%	-4.5%
Amyris, Inc.	-21.4%	-19.4%	-21.4%	-44.7%	-19.6%	-42.9%	-21.4%	-61.1%	69.6%	-73.0%	-56.7%
Ascent Solar Technologies, Inc.	-86.4%	-20.0%	-86.4%	-85.7%	-71.4%	-66.3%	-86.4%	-84.8%	13.7%	59.0%	-88.4%
Canadian Solar Inc.	19.7%	74.2%	19.7%	-1.5%	104.2%	18.5%	19.7%	-18.9%	777.1%	27.8%	-78.5%
Codexis, Inc.	67.9%	24.8%	67.9%	73.8%	24.2%	-16.8%	67.9%	80.0%	-36.7%	-58.3%	-50.0%
Deinove SA	-45.4%	-36.8%	-45.4%	-51.5%	-32.2%	-4.5%	-45.4%	-56.8%	32.1%	58.0%	61.5%
Ellomay Capital Ltd.	-11.2%	3.0%	-11.2%	-6.0%	12.9%	2.8%	-11.2%	-0.4%	62.9%	6.8%	-25.3%
Enphase Energy, Inc.	-75.4%	-5.1%	-75.4%	-25.6%	-1.3%	N/A	-75.4%	125.4%	73.7%	N/A	N/A
First Solar, Inc.	48.0%	54.4%	48.0%	9.9%	28.8%	-12.7%	48.0%	-18.4%	77.1%	-8.6%	-74.1%
Gevo, Inc.	-87.1%	-64.0%	-87.1%	-83.0%	-70.1%	N/A	-87.1%	-77.6%	-7.1%	-75.5%	N/A
Green Plains Inc.	-7.6%	17.7%	-7.6%	8.7%	42.5%	15.3%	-7.6%	27.9%	145.0%	-19.0%	-13.3%
JA Solar Holdings Co., Ltd.	18.5%	24.4%	18.5%	2.8%	31.5%	-22.5%	18.5%	-10.7%	114.8%	-36.3%	-80.6%
JinkoSolar Holding Co., Ltd.	40.4%	26.1%	40.4%	-2.8%	64.6%	6.6%	40.4%	-32.7%	371.8%	24.2%	-75.1%
Metabolix, Inc.	-37.6%	11.6%	-37.6%	-54.9%	-44.2%	-53.8%	-37.6%	-67.3%	-14.9%	-67.5%	-62.6%
MGP Ingredients Inc.	63.6%	62.1%	63.6%	123.6%	96.5%	18.6%	63.6%	205.6%	51.8%	-32.1%	-54.3%
NextEra Energy Partners, LP	-11.6%	36.9%	-11.6%	N/A	N/A	N/A	-11.6%	N/A	N/A	N/A	N/A
Pacific Ethanol, Inc.	-53.7%	-26.3%	-53.7%	-3.1%	0.3%	-42.5%	-53.7%	102.9%	7.3%	-70.2%	-79.0%
SolarCity Corporation	-4.6%	19.5%	-4.6%	-5.2%	62.3%	N/A	-4.6%	-5.9%	376.3%	N/A	N/A
TerraVia	-3.9%	-4.6%	-3.9%	-52.3%	-31.9%	N/A	-3.9%	-76.3%	38.5%	-33.9%	N/A
Song Da Industry Trade Jsc	-18.1%	-10.0%	-18.1%	-5.6%	-5.9%	-25.9%	-18.1%	8.9%	-6.6%	8.1%	-75.2%
SunPower Corporation	16.2%	49.8%	16.2%	0.3%	74.8%	N/A	16.2%	-13.4%	430.4%	-9.8%	N/A
TerraForm Power, Inc.	-59.3%	-11.5%	-59.3%	N/A	N/A	N/A	-59.3%	N/A	N/A	N/A	N/A
The Andersons, Inc.	-40.5%	-7.1%	-40.5%	-27.1%	3.4%	5.5%	-40.5%	-10.6%	107.9%	-1.7%	20.1%
Trina Solar Limited	19.0%	22.9%	19.0%	-10.2%	36.4%	-14.0%	19.0%	-32.3%	215.0%	-35.0%	-71.5%
Yingli Green Energy Holding Co. Ltd.	-80.7%	10.9%	-80.7%	-70.0%	-42.2%	-46.0%	-80.7%	-53.5%	114.9%	-38.2%	-61.5%
Median of Industry Public Companies	-11.2%	10.9%	-11.2%	-6.0%	3.4%	-14.7%	-11.2%	-18.4%	69.6%	-28.5%	-62.1%

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

As of December 31, 2015

**Clean Energy Industry Aggregates** 



Date:	12/31/2013	3/31/2014	6/30/2014	9/30/2014	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015
EV/Revenues Multiple	1.1x	1.3x	1.3x	1.5x	1.4x	1.3x	1.2x	1.1x	1.3x
EV/EBITDA Multiple	18.3x	11.8x	11.5x	10.2x	7.7x	8.0x	8.5x	9.5x	10.2x
Price/Earnings Multiple	24.2x	22.9x	18.8x	21.2x	14.5x	22.5x	23.8x	16.9x	20.6x
EV/Gross Cash Flows Multiple	7.0x	10.6x	20.6x	15.6x	10.6x	10.1x	21.3x	22.2x	15.7x

Industry Initi	ial Public Offerings - Clean Energy Ind	ustry Aggregates	(dollars in milli	ons, except sho	re prices)					
Offer Date 8/5/2015	Company Name Sunrun Inc.	Offer Price \$14.00	Shares Offered	Amount Raised \$250.6	Total Assets \$2,016.4	<u>Debt</u> \$447.1	LTM Revenues \$217.8	LTM EBITDA (\$105.0)	LTM Net Income (\$77.1)	LTM Cash Flows
		·		·	• •		·			` '
3/26/2015	SolarEdge Technologies, Inc.	\$18.00	7.0	\$126.0	\$133.3	\$4.7	\$215.4	\$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)
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	\$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
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
Median of Al	l IPOs	nm	nm	\$102.7	\$133.3	\$34.1	\$91.6	(\$5.1)	(\$7.2)	(\$0.5)

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