As of December 31, 2016 Industry: Biofuel Energy

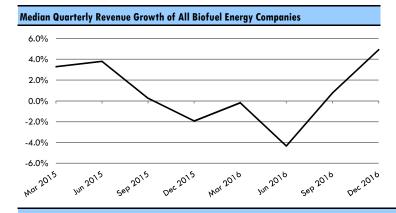


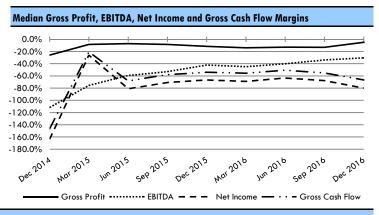
### **Industry Summary**

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, 2015, the median 52-week share price return of the Biofuel Energy industry was -18.8%. Between December 31, 2014 and December 31, 2016, the median EV/EBITDA multiple increased from 10.7 to 16.8. Furthermore, the median price-to-earnings multiple increased from 13.8 to 28.3 over the same period.

Comparable Public Company Key Statistics													
Median 52-Week Return Median 3-Year CAGR Return	-18.8% -28.7%	Median EV/Revenue Multiple Median EV/EBITDA Multiple				2.8x 16.8x	M	28.3x 25.9x					
Comparable Public Company Market Price Returns (As of December 31, 2016)													
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011		
Amyris, Inc.	-54.9%	25.9%	-54.9%	-40.5%	-48.3%	-42.4%	-21.4%	-61.1%	69.6%	-73.0%	-56.7%		
Codexis, Inc.	8.7%	3.6%	8.7%	35.1%	48.7%	-2.8%	67.9%	80.0%	-36.7%	-58.3%	-50.0%		
Deinove SA	-46.4%	-20.2%	-46.4%	-45.9%	-49.8%	-23.4%	-45.4%	-56.8%	32.1%	58.0%	61.5%		
Gevo, Inc.	-72.1%	-64.1%	-72.1%	-81.0%	-79.9%	-71.6%	-87.1%	-77.6%	-7.1%	-75.5%	N/A		
Green Plains Inc.	21.6%	6.3%	21.6%	6.0%	12.8%	23.3%	-7.6%	27.9%	145.0%	-19.0%	-13.3%		
MGP Ingredients, Inc.	92.6%	23.3%	92.6%	77.5%	112.8%	58.2%	63.6%	205.6%	51.8%	-32.1%	-54.3%		
Pacific Ethanol, Inc.	98.7%	37.5%	98.7%	-4.1%	23.1%	-9.8%	-53.7%	102.9%	7.3%	-70.2%	-79.0%		
TerraVia Holdings, Inc.	-53.6%	-58.2%	-53.6%	-33.2%	-52.7%	-37.3%	-3.9%	-76.3%	38.5%	-33.9%	N/A		
The Andersons, Inc.	41.3%	23.5%	41.3%	-8.3%	-9.1%	9.0%	-40.5%	-10.6%	107.9%	-1.7%	20.1%		
Yield10 Bioscience, Inc.	-77.3%	-22.2%	-77.3%	-62.4%	-64.1%	-58.2%	-37.6%	-67.3%	-14.9%	-67.5%	-62.6%		
Median of Industry Public Companies	-18.8%	5.0%	-18.8%	-20.8%	-28.7%	-16.6%	-29.5%	-33.7%	35.3%	-46.1%	-52.2%		

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





Aedian Public Company Multiples ot the Biotuel Energy Industry												
Date:	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016	12/31/2016			
EV/Revenues Multiple	2.5x	1.3x	1.4x	2.3x	1.4x	l.lx	2.1x	2.0x	2.8x			
EV/EBITDA Multiple	10.7x	10.2x	8.5x	6.7x	11.8x	10.4x	15.1x	16.5x	16.8x			
Price/Earnings Multiple	13.8x	10.9x	10.8x	11.4x	15.9x	50.5x	22.6x	25.4x	28.3x			
EV/Gross Cash Flows Multiple	8.6x	7.1x	8.0x	7.0x	11.4x	18.7x	20.9x	34.1x	25.9x			

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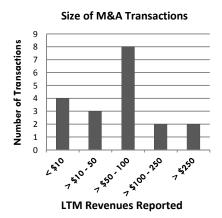
As of December 31, 2016 Industry: Biofuel Energy

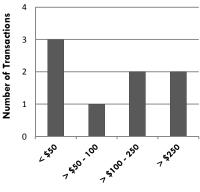


Industry Initi	al Public Offerings (dollars in millions, ex	ccept share pri	ices)							
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Offer Date 5/11/2016	Company Name Green & Smart Holdings PLC	Offer Price \$0.13	Shares Offered 44.4	Amount Raised \$5.8	Total Assets \$9.1	<u>Debt</u> \$2.1	LTM Revenues \$4.4	LTM EBITDA \$1.0	LTM Net Income \$1.0	LTM Cash Flows \$1.0
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
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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)
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
Median of All	IPOs .	nm	nm	\$90.0	\$86.7	\$7.9	\$10.3	(\$11.1)	(\$15.9)	(\$7.1)

nm: not meaningful

<u>Transaction Date</u>	<u>Target</u>	<u>Acquirer</u>	<u>Transaction Size</u>	% Bought	LTM Revenues	EV/Revenues
11/28/2016	Sun Green Power Energy	Sun Capital Management	\$7.8	81%	\$0.6	16.8x
8/31/2016	Bio-Oils Huelva, S.L.U.	Verdant Palms sl	\$50.1	68%	N/A	N/A
6/25/2015	H2 Logic A/S	NEL ASA	\$38.7	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	1.6x
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
Median of the	19 M&A Transaction Targe	\$62.0	100%	\$87.9	1.5x	





#### 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, 2016 Clean Energy Industry Aggregates



Comparable Public Company Key Statisti	cs										
Median 52-Week Return	-43.8%	Median EV/Revenue Multiple Median EV/EBITDA Multiple				0.9x	M	9.8x			
Median Year-to-Date Return	-43.8%					14.0x	, -				
Comparable Public Company Market Pric	e Returns (As c	of December	31, 2016)								
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011
Ameresco, Inc.	-12.0%	4.6%	-12.0%	-11.4%	-17.1%	-16.7%	-10.7%	-27.5%	-1.5%	-28.5%	-4.5%
Amyris, Inc.	-54.9%	25.9%	-54.9%	-40.5%	-48.3%	-42.4%	-21.4%	-61.1%	69.6%	-73.0%	-56.7%
Ascent Solar Technologies, Inc.	-99.9%	-87.1%	-99.9%	-98.8%	-97.3%	-87.0%	-86.4%	-84.8%	13.7%	59.0%	-88.4%
Azure Power Global Limited	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Canadian Solar Inc.	-57.9%	-11.4%	-57.9%	-29.0%	-25.8%	35.6%	19.7%	-18.9%	777.1%	27.8%	-78.5%
Codexis, Inc.	8.7%	3.6%	8.7%	35.1%	48.7%	-2.8%	67.9%	80.0%	-36.7%	-58.3%	-50.0%
Deinove SA	-46.4%	-20.2%	-46.4%	-45.9%	-49.8%	-23.4%	-45.4%	-56.8%	32.1%	58.0%	61.5%
Ellomay Capital Ltd.	-6.0%	-11.0%	-6.0%	-8.7%	-6.0%	7.6%	-11.2%	-0.4%	62.9%	6.8%	-25.3%
Enphase Energy, Inc.	-71.2%	-14.4%	-71.2%	-73.4%	-45.8%	N/A	-75.4%	125.4%	73.7%	N/A	N/A
First Solar, Inc.	-51.4%	-18.7%	-51.4%	-15.2%	-16.3%	-1.0%	48.0%	-18.4%	77.1%	-8.6%	-74.1%
Gevo, Inc.	-72.1%	-64.1%	-72.1%	-81.0%	-79.9%	-71.6%	-87.1%	-77.6%	-7.1%	-75.5%	N/A
Green Plains Inc.	21.6%	6.3%	21.6%	6.0%	12.8%	23.3%	-7.6%	27.9%	145.0%	-19.0%	-13.3%
JA Solar Holdings Co., Ltd.	-50.9%	-20.8%	-50.9%	-23.7%	-19.6%	-6.6%	18.5%	-10.7%	114.8%	-36.3%	-80.6%
JinkoSolar Holding Co., Ltd.	-45.0%	-3.6%	-45.0%	-12.1%	-19.6%	25.0%	40.4%	-32.7%	371.8%	24.2%	-75.1%
MGP Ingredients, Inc.	92.6%	23.3%	92.6%	77.5%	112.8%	58.2%	63.6%	205.6%	51.8%	-32.1%	-54.3%
NextEra Energy Partners, LP	-14.4%	-8.7%	-14.4%	-13.0%	N/A	N/A	-11.6%	N/A	N/A	N/A	N/A
Pacific Ethanol, Inc.	98.7%	37.5%	98.7%	-4.1%	23.1%	-9.8%	-53.7%	102.9%	7.3%	-70.2%	-79.0%
SolarCity Corporation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Song Da Industry Trade Joint Stock Company	0.6%	7.5%	0.6%	-9.3%	-3.6%	-2.0%	-18.1%	8.9%	-6.6%	8.1%	-75.2%
SunPower Corporation	-78.0%	-25.9%	-78.0%	-49.4%	-39.5%	1.2%	16.2%	-13.4%	430.4%	-9.8%	N/A
TerraForm Power, Inc.	1.8%	-7.9%	1.8%	-35.6%	N/A	N/A	-59.3%	N/A	N/A	N/A	N/A
TerraVia Holdings, Inc.	-53.6%	-58.2%	-53.6%	-33.2%	-52.7%	-37.3%	-3.9%	-76.3%	38.5%	-33.9%	N/A
The Andersons, Inc.	41.3%	23.5%	41.3%	-8.3%	-9.1%	9.0%	-40.5%	-10.6%	107.9%	-1.7%	20.1%
Trina Solar Limited	-15.6%	-9.2%	-15.6%	0.2%	-12.0%	6.8%	19.0%	-32.3%	215.0%	-35.0%	-71.5%
Yield10 Bioscience, Inc.	-77.3%	-22.2%	-77.3%	-62.4%	-64.1%	-58.2%	-37.6%	-67.3%	-14.9%	-67.5%	-62.6%
Yingli Green Energy Holding Company Limited	-42.6%	-32.8%	-42.6%	-66.7%	-62.8%	-41.5%	-80.7%	-53.5%	114.9%	-38.2%	-61.5%
Median of Industry Public Companies	-43.8%	-10.1%	-43.8%	-19.5%	-19.6%	-2.8%	-11.4%	-18.6%	66.2%	-28.5%	-62.1%

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

As of December 31, 2016 Clean Energy Industry Aggregates



Date:	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016	12/31/2016
EV/Revenues Multiple	1.4x	1.3x	1.2x	1.1x	1.3x	1.2x	1.3x	1.9x	0.9x
EV/EBITDA Multiple	7.7x	8.1x	8.5x	8.5x	10.2x	8.5x	12.5x	13.7x	14.0x
Price/Earnings Multiple	12.7x	22.4x	23.4x	15.2x	19.4x	11.6x	11.6x	9.4x	9.8x
EV/Gross Cash Flows Multiple	9.9x	10.6x	19.5x	22.2x	13.0x	29.2x	18.4x	9.0x	27.6x

Industry Initi	ial Public Offerings - Clean Energy Industry	Aggregates	(dollars in milli	ons, except sha	re prices)					
Offer Date 10/12/2016	<u>Company Name</u> Azure Power Global Limited	Offer Price \$18.00	Shares Offered 3.4	Amount Raised \$61.4	Total Assets \$485.6	<u>Debt</u> \$364.4	LTM Revenues \$45.6	LTM EBITDA \$31.7	LTM Net Income (\$42.8)	LTM Cash Flows
5/11/2016	Green & Smart Holdings PLC	\$0.13	44.4	\$5.8	\$9.1	\$2.1	\$4.4	\$1.0	\$1.0	\$1.0
8/5/2015	Sunrun Inc.	\$14.00	17.9	\$250.6	\$2,016.4	\$447.1	\$217.8	(\$105.0)	(\$77.1)	(\$57.4)
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 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)
6/25/2009	Alterra Power Corp.	\$1.29	66.7	\$86.2	\$12.9	\$0.5	\$0.0	(\$1.6)	(\$1.6)	(\$1.6)
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 Company Limited	\$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	Yield10 Bioscience, 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
Median of Al	l IPOs	nm	nm	\$94.4	\$127.4	\$28.7	\$75.5	(\$3.4)	(\$5.9)	(\$1.0)

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