

Q2: Quarterly Industry Update

AS OF June 30, 2020



Biofuel Energy

INDUSTRY SUMMARY

COGENT VALUATION identified Biofuel 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 June 30, 2019, the median 52-week share price return of the Biofuel Energy industry was 9.9%. Between June 30, 2019 and June 30, 2020, the median EV/EBITDA multiple increased from 13.9 to 20.0. Furthermore, the median price-to-earnings multiple increased from 23.0 to 34.9 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 0.7% and -13.2%, respectively.

Public Company Key Statistics

Median 52-Week
Return

9.9%

Median 3-Year CAGR
Return

-26.7%

Median EV/Revenue
Multiple

4.2x

Median EV/EBITDA
Multiple

20x

Median Price/Earnings
Multiple

34.9x

Median EV/Gross CF
Multiple

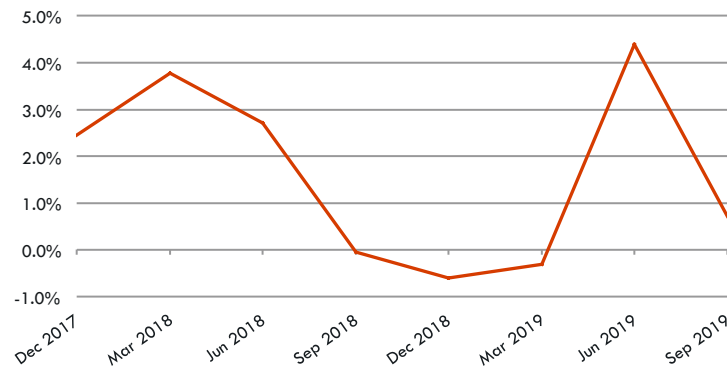
16.8x

Comparable Public Company Market Price Returns as of June 30, 2020

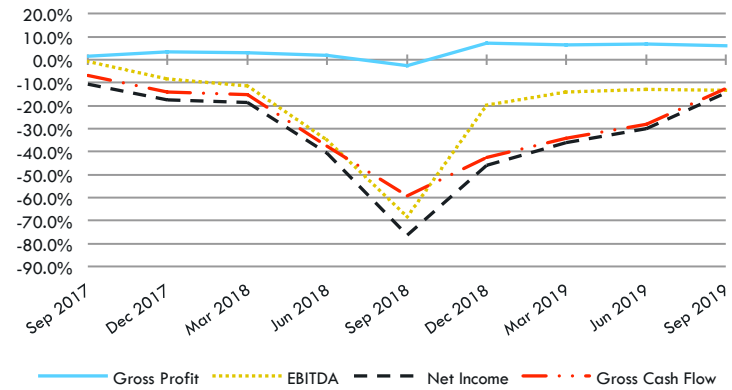
	2020	3 Month	1 Year	2 Year	3 Year	2018	2017	2016
Amyris, Inc.	70.4%	70.4%	-15.8%	-36.6%	-42.9%	-10.9%	-21.4%	-61.1%
Codexis, Inc.	72.5%	72.5%	129.2%	88.1%	34.1%	100.0%	67.9%	80.0%
Deinove SA	50.5%	50.5%	97.9%	1.0%	-19.0%	-20.6%	-45.4%	-56.8%
Gevo, Inc.	-67.8%	-67.8%	-59.6%	-70.8%	-80.3%	-83.4%	-87.1%	-77.6%
Green Plains Inc.	8.6%	8.6%	-32.1%	2.6%	-16.2%	-22.2%	-7.6%	27.9%
MGP Ingredients, Inc.	15.5%	15.5%	65.2%	92.2%	88.1%	92.6%	63.6%	205.6%
Pacific Ethanol, Inc.	-42.9%	-42.9%	-56.2%	-19.9%	-34.7%	98.7%	-53.7%	102.9%
Median of Industry Public Companies	15.5%	15.5%	-15.8%	1.0%	-19.0%	-10.9%	-21.4%	27.9%

Industry Revenue Growth and Profit Margins for the Past Two Years

Median Quarterly Revenue Growth of All Biofuel Energy Companies



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



Public Company Median Multiples by Quarter

	6/30/20	3/31/20	12/31/19	9/30/19	6/30/19	3/31/19	12/31/18	9/30/18
EV/Revenues Multiple	4.2x	3.2x	2.9x	1.3x	1.8x	1.6x	1.7x	1.7x
EV/EBITDA Multiple	20.0x	15.2x	15.5x	18.1x	11.2x	12.1x	11.1x	12.8x
Price/Earnings Multiple	34.9x	13.6x	21.3x	20.6x	26.1x	26.0x	30.7x	26.7x
EV/Gross Cash Flows Multiple	16.8x	19.7x	22.6x	12.3x	18.2x	18.6x	17.1x	20.1x

■ Highest Multiple
 ■ Lowest Multiple
 ■ Median Multiple

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

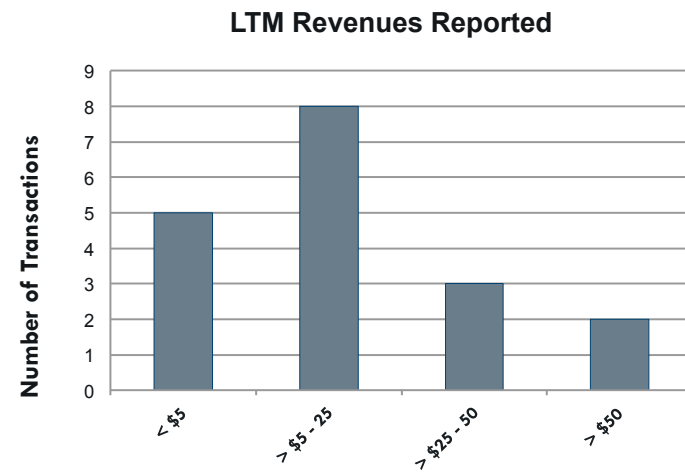
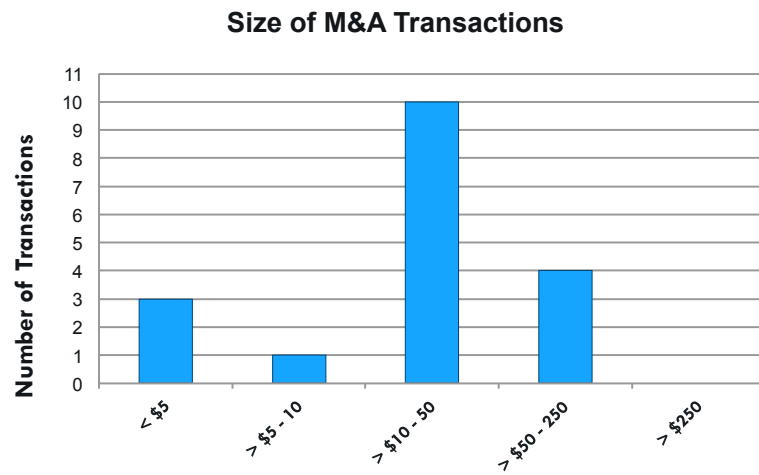
Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	Total Assets	Debt	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
6/11/20	Green & Smart Holdings plc	\$0.13	44.4	\$5.8	\$13.2	\$2.4	\$10.4	\$2.3	\$2.9	\$7.0
5/8/20	Renewable Energy Group, Inc.	\$10.00	7.2	\$72.0	\$484.4	\$85.6	\$824.0	\$102.2	(\$26.1)	\$182.0
12/23/19	KiOR, Inc.	\$15.00	10.0	\$150.0	\$82.2	\$9.2	\$0.0	(\$36.0)	\$1.4	\$3.4
10/26/19	TerraVia Holdings, Inc.	\$18.00	11.0	\$197.6	\$86.7	\$0.2	\$40.0	(\$16.7)	(\$4.0)	(\$3.3)
2/8/18	Gevo, Inc.	\$15.00	7.2	\$107.3	\$51.6	\$4.1	\$16.4	(\$32.3)	N/A	N/A
9/27/16	Amyris, Inc.	\$16.00	5.3	\$84.8	\$23.3	\$0.0	\$3.4	(\$62.7)	(\$18.8)	(\$14.7)
4/21/10	Codexis, Inc.	\$13.00	6.0	\$70.0	\$78.3	\$39.5	\$82.1	(\$11.1)	\$5.3	\$18.0
	Median of all IPOs	nm	nm	\$90.0	\$83.0	\$11.7	\$10.3	\$4.8	(\$1.3)	\$5.2

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

Transaction Date	Target	Acquirer	Transaction Size	% Bought
6/18/20	Bioverda Limited	Nurendale Limited	\$13.0	100%
5/2/20	Syngip BV	Global Bioenergies	\$1.1	100%
10/31/19	Thegra Tracomex Hldg.	Cefetra BV	\$14.9	100%
4/18/17	COFCO	Samsung SDI Co. Ltd.	\$120.0	100%
11/28/16	Sun Green Power Energy	Sun Capital Management	\$7.8	51%
8/31/16	Bio-Oils Huelva, S.L.U.	Verdant Palms sl	\$50.1	100%
6/25/15	H2 Logic A/S	Nel ASA	\$38.7	100%
6/16/15	Biomethanol Chemie	OCI N.V.	\$16.9	100%
12/5/14	Red Shield Acquisition LLC	Nurendale Limited	\$2.2	100%
10/24/14	Biofuel Energy Research Pte. Ltd.	Shenzhen Selen Science	\$86.4	100%
10/14/14	Nidera B.V.	Oakridge Global Energy Solutions, Inc.	\$46.1	51%
12/30/14	SK Continental E-motion	SK Innovation Co., Ltd.	\$14.9	100%
11/24/14	LS9, Inc.	OM Group Inc.	\$24.0	100%
5/16/14	Verenium Corporation	NEC Corporation	\$100.0	100%
12/27/13	Energy Park Sutton Bridge	N/A	\$1.7	100%
11/1/13	Quallion LLC	EnerSys	\$30.0	100%
9/30/13	Eltek Electric Vehicles	Valeo SA	\$20.3	100%
8/23/13	Millennium Power Solutions	Blue Earth Inc.	\$15.2	100%
Median of the 18 M&A Transaction Targets			\$18.6	100%

■ USA ■ International

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



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): 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.

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