

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, 2016, the median 52-week share price return of the Biofuel Energy industry was -39.5%. Between December 31, 2015 and December 31, 2017, the median EV/EBITDA multiple increased from 10.9 to 11.8. Furthermore, the median price-to-earnings multiple increased from 16.5 to 21.3 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 0.0% and -68.4%, respectively.

Public Company Key Statistics

Median 52-Week
Return

-39.4%

Median 3-Year CAGR
Return

-23.9%

Median EV/Revenue
Multiple

1.6x

Median EV/EBITDA
Multiple

11.8x

Median Price/Earnings
Multiple

21.3x

Median EV/Gross CF
Multiple

20.2x

Comparable Public Company Market Price Returns as of December 31, 2017

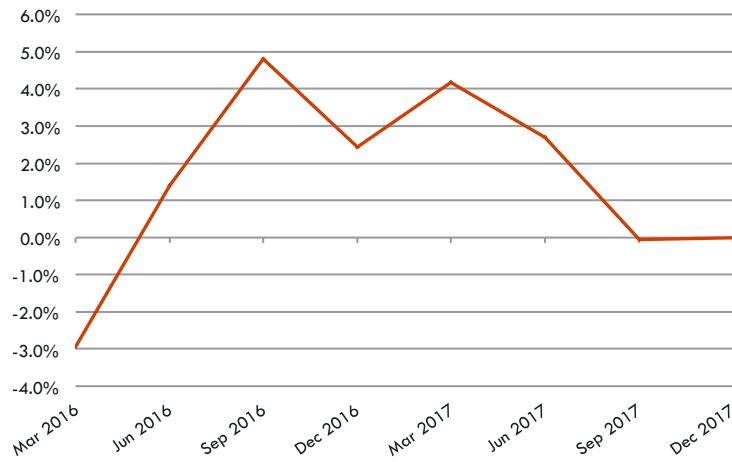
| | YTD | 3 Month | 1 Year | 2 Year | 3 Year | 2016 | 2015 | 2014 |
|--|---------------|--------------|--------------|---------------|--------------|---------------|--------------|---------------|
| Amyris, Inc. | -65.8% | 17.2% | -65.8% | -60.7% | -61.7% | -54.9% | -21.4% | -61.1% |
| Codexis, Inc. | 81.5% | 25.6% | 81.5% | 40.5% | 41.8% | 8.7% | 67.9% | 80.0% |
| Deinove SA | -13.4% | -9.5% | -13.4% | -31.9% | -39.2% | -46.4% | -45.4% | -56.8% |
| Gevo, Inc. | -82.9% | -5.4% | -82.9% | -78.2% | -81.8% | -72.1% | -87.1% | -77.6% |
| Green Plains Inc. | -39.5% | -16.4% | -39.5% | -14.2% | -18.6% | 21.6% | -7.6% | 27.9% |
| MGP Ingredients, Inc. | 53.8% | 26.8% | 53.8% | 72.1% | 66.8% | 92.6% | 63.6% | 205.6% |
| Pacific Ethanol, Inc. | -52.1% | -11.2% | -19.7% | -7.5% | -26.5% | 98.7% | -53.7% | 102.9% |
| Median of Industry Public Companies | -39.5% | -9.1% | 21.3% | -23.6% | -8.6% | -21.7% | -9.4% | -11.8% |

Multiple year periods are calculated as the average annual return.

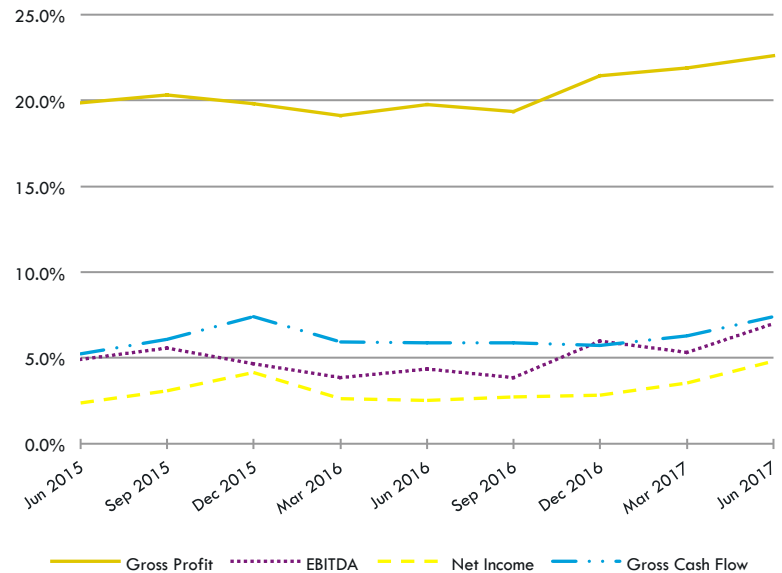
■ Highest Return
 ■ Lowest Return
 ■ Median Return

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

| | 12/31/17 | 9/30/17 | 6/30/17 | 3/31/17 | 12/31/16 | 9/30/16 | 6/30/16 | 3/31/16 |
|-------------------------------------|----------|---------|---------|---------|----------|---------|---------|---------|
| EV/Revenues Multiple | 1.6x | 1.8x | 1.6x | 1.7x | 2.3x | 2.3x | 2.1x | 1.2x |
| EV/EBITDA Multiple | 11.8x | 11.5x | 12.4x | 12.0x | 13.3x | 13.9x | 15.2x | 12.7x |
| Price/Earnings Multiple | 21.3x | 26.1x | 26.0x | 30.7x | 26.7x | 23.0x | 24.0x | 14.4x |
| EV/Gross Cash Flows Multiple | 20.2x | 18.2x | 18.7x | 17.2x | 20.1x | 22.9x | 29.1x | 18.3x |

 Highest Multiple

 Lowest Multiple

 Median Multiple

Industry Initial Public Offerings—Industry: 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 |
|---------------------------|------------------------------|-------------|----------------|---------------|---------------|---------------|---------------|--------------|----------------|----------------|
| 5/11/16 | Green & Smart Holdings PLC | \$3.25 | 0.5 | \$5.8 | \$13.2 | \$2.4 | \$79.6 | \$6.4 | \$2.9 | \$7.0 |
| 1/18/12 | Renewable Energy Group, Inc. | \$19.00 | 15.0 | \$72.0 | \$484.4 | \$85.6 | \$491.9 | \$142.0 | (\$26.1) | \$182.0 |
| 6/23/11 | KiOR, Inc. | \$7.00 | 3.0 | \$150.0 | \$82.2 | \$9.2 | \$89.3 | \$3.3 | \$1.4 | \$3.4 |
| 5/26/11 | TerraVia Holdings, Inc. | \$0.39 | 12.0 | \$197.6 | \$86.7 | \$0.2 | \$0.2 | (\$3.5) | (\$4.0) | (\$3.3) |
| 2/8/11 | Gevo, Inc. | \$12.00 | 7.0 | \$107.3 | \$51.6 | \$4.1 | N/A | N/A | N/A | N/A |
| 9/27/10 | Amyris, Inc. | \$17.00 | 8.0 | \$84.8 | \$23.3 | \$0.0 | \$3.4 | (\$15.4) | (\$18.8) | (\$14.7) |
| 4/21/10 | Codexis, Inc. | \$14.00 | 5.0 | \$70.0 | \$78.3 | \$39.5 | \$82.1 | \$15.7 | \$5.3 | \$18.0 |
| Median of all IPOs | | nm | nm | \$90.0 | \$83.0 | \$11.7 | \$80.8 | \$4.8 | (\$1.3) | \$5.2 |

Multiple year periods are calculated as the average annual return.

■ Highest Return
 ■ Lowest Return
 ■ Median Return

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

| Transaction Date | Target | Acquirer | Transaction Size | % Bought |
|------------------|--|--|------------------|----------|
| 4/18/17 | Bioverda Limited | Nurendale Limited | \$13.0 | 100% |
| 2/2/17 | Syngip BV | Global Bioenergies | \$1.1 | 100% |
| 1/31/17 | Thegra Tracomex Hldg. | Cefetra BV | \$14.9 | 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 | 45% |
| 4/18/17 | COFCO | Samsung SDI Co. Ltd. | \$120.0 | 100% |

■ USA
 ■ International
 ■ Highest
 ■ Lowest
 ■ Median

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

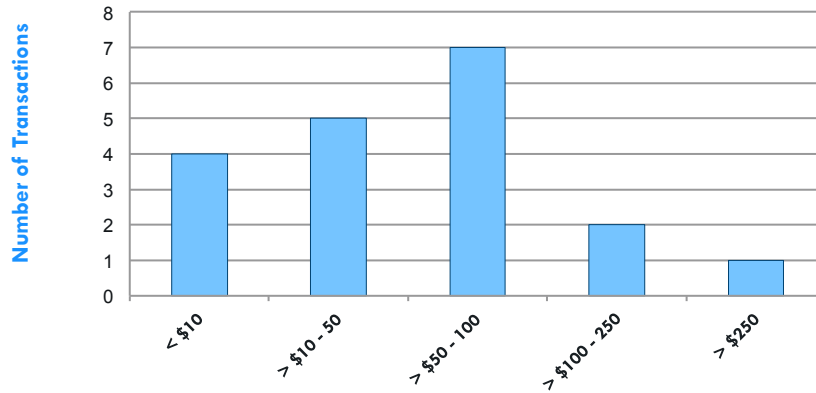
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| Transaction Date | Target | Acquirer | Transaction Size | % Bought |
|--|------------------------------|-------------------------|------------------|----------|
| 12/30/14 | SK Continental E-motion | SK Innovation Co., Ltd. | \$14.9 | 100% |
| 11/24/14 | Ener-tek International, Inc. | OM Group Inc. | \$24.0 | 100% |
| 5/16/14 | A123 Energy Solutions | NEC Corporation | \$100.0 | 100% |
| 12/27/13 | Shenzhen Eyang Energy | 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 28 M&A Transaction Targets | | | \$14.9 | 100% |

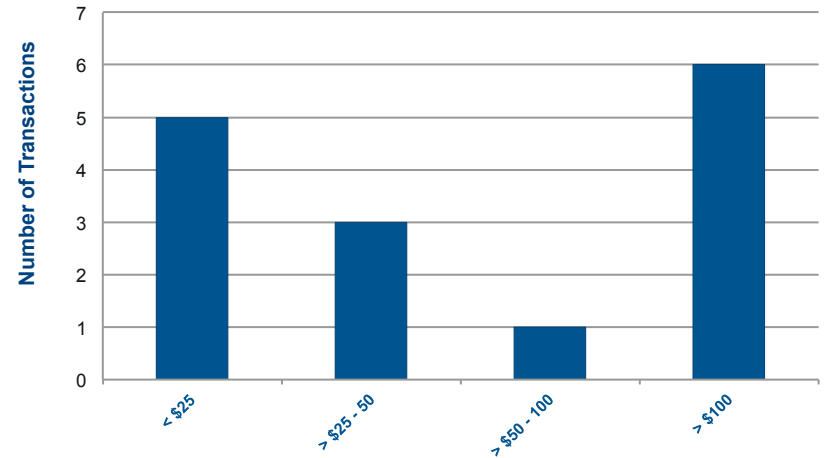
USA
 International
 Highest
 Lowest
 Median

Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of December 31, 2017

Size of M&A Transactions



LTM Revenues Reported from M&A Transactions



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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.

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