

Firsthand Alternative Energy Fund

Total Returns as of 12/31/18

	Firsthand Alternative Energy Fund	WilderHill Clean Energy Index	S&P 500 Index
Since inception (10/29/07)	-5.23%	-14.13%	6.70%
10-Year	-0.35%	-5.73%	13.10%
5-Year	-3.25%	-7.10%	8.48%
3-Year	-2.01%	-2.41%	9.24%
1-Year	-18.57%	-14.60%	-4.39%
Q4 '18	-13.68%	-13.27%	-13.52%

The performance data quoted represent past performance. Past performance cannot guarantee future results, and current performance may be lower or higher than the performance quoted. Performance information does not reflect the impact of taxes. Both the return from and the principal value of an investment in the Funds will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. To obtain performance as of the most recent month-end, please contact Firsthand Funds by calling 1.888.884.2675 or go to www.firsthandfunds.com.

Fund Facts as of 12/31/18

Portfolio Manager	Kevin Landis	2018 Gross Expense Ratio	2.15%
Manager Tenure	Since inception	2018 Net Expense Ratio	1.98%
Inception	10/29/07	Redemption Fee	None
Ticker	ALTEX	Number of Companies	34
Cusip	337941827	Sales Load	None
Net Assets	\$4.4M	2017 Portfolio Turnover	7%

The Fund's total gross operating expenses are 2.15%. The Fund's total net operating expenses are 1.98%. Under the Investment Advisory Agreement, the Investment Adviser has agreed to reduce its fees and/or make expense reimbursements so that the Fund's total annual operating expenses (excluding independent trustees' compensation, brokerage and commission expenses, short sale expenses, litigation costs and any extraordinary and non-recurring expenses) are limited to 1.98% of the Fund's average daily net assets up to \$200 million, 1.93% of such assets from \$200 million to \$500 million, 1.88% of such assets from \$500 million to \$1 billion, and 1.83% of such assets in excess of \$1 billion. The Investment Adviser has also agreed to donate a portion of its management fees collected, amounting to 0.20% of the Fund's average daily net assets, to various non-profit organizations as elected by Fund shareholders. The current expense waiver is in effect until 8/31/19.

Holdings as of 12/31/18

Top 10

Power Integrations, Inc.	8.0%
Cree, Inc.	7.7%
Itron, Inc.	5.9%
SolarEdge Technologies, Inc.	5.5%
Vestas Wind Systems A.S.	5.1%
First Solar, Inc.	4.8%
Honeywell Int'l, Inc.	4.7%
Philips Electronics	4.6%
Corning, Inc.	4.4%
3M Co.	4.3%
% of Net Assets	55.0%

By Industry

Renewable Energy	29.0%
Other Electronics	13.0%
Energy Efficiency	10.8%
Semiconductors	8.0%
Industrials	7.9%
Materials	4.8%
Advanced Materials	4.4%
Engineering Service	3.4%
Electrical Equipment	3.0%
Waste & Environment Service	3.0%
Biotech	2.2%
Environmental Services	1.6%
Net Cash	8.9%

The top 10 holdings are current as of December 31, 2018, and may not be representative of current or future investments. Portfolio assets such as cash, treasuries, options, and warrants are not presented in the top 10 list. The holdings by industry are presented to illustrate examples of the industries in which the Fund has bought securities and may not be representative of the Fund's current or future industry investments.

Portfolio Commentary Q4 '18

Contributors

Firsthand Alternative Energy Fund underperformed its primary benchmarks in the fourth quarter, declining 13.68%, compared with a 13.27% loss for the WilderHill Clean Energy Index and a 13.52% loss for the S&P 500 Index.

Cree (CREE) was the top contributor to the Fund's performance in the fourth quarter. The manufacturer of LEDs, lighting products, and silicon carbide semiconductors topped analysts' expectations for its first fiscal quarter of 2019.

Another top contributor to the Fund's Q4 performance was Vestas Wind Systems (VWSYF). Although Vestas profits declined in Q3, the company reported a strong order book and indicated that turbine prices had begun to stabilize after period of decline. Iberdrola (no U.S. symbol) posted strong revenue growth in the first nine months of 2018 and was among the top contributors to fund performance in Q4.

Detractors

Itron (ITRI) was the largest detractor from the Fund's performance during Q4. The manufacturer of power and water meters experienced revenue growth for the first nine months of 2018 but reported in November that supply chain problems would impact its revenue guidance for the full year 2018.

Another negative contributor to fund performance in Q4 was Aspen Aerogels (ASPN). The company's stock declined sharply in Q4, particularly after the company announced in early November that Q3 revenues and earnings had declined on a year-over-year basis.

The stock of U.K. biopharmaceutical company GW Pharmaceuticals plc (GWPH) dropped in Q4 and was one of the Fund's largest negative performers during the quarter. The company received a dose of good news in September when the U.S. Drug Enforcement Administration classified its epilepsy drug Epidiolex as a Schedule V drug, which is the least restrictive prescribing category of controlled substances.

Firsthand Alternative Energy Fund is subject to greater risk than more diversified funds because of its investments in fewer securities and because of its concentration of investments in the alternative energy and energy technology sectors. Specific risks associated with these investments could cause the Fund's share price to fluctuate dramatically. The Fund's investments in small-cap companies present greater risk than investments in larger companies. The Fund invests in several industries within the alternative energy and energy technology sectors and the relative weightings of these industries in the Fund's portfolio may change at any time. The Fund's performance information assumes reinvestment of all dividends and includes all Fund expenses, but does not reflect the impact of taxes

Equity investing involves risks, including the potential loss of the principal amount invested. Firsthand Funds are subject to greater risk than more diversified funds.

As of 12/31/18: CREE (7.71% of ALTEX), VWSYF (5.11% of ALTEX), Iberdrola (3.90% of ALTEX), ITRI (5.93% of ALTEX), ASPN (1.68% of ALTEX), GWPH (2.19% of ALTEX). A complete list of portfolio holdings for Firsthand Funds is available on www.firsthandfunds.com and is updated 45 days after the end of the every calendar quarter. The portfolio holdings discussed are subject to change. Please visit www.firsthandfunds.com for a complete list of holdings.

The Standard & Poor's 500 Index (S&P 500) represents an unmanaged, broad-based basket of stocks and is typically used as a benchmarks for overall market performance. The WilderHill Clean Energy Index is a market-weighted index of 53 companies in the cleaner fuel, energy conversion, energy storage, greener utilities, power delivery and conservation, and renewable energy harvesting sectors. The indices' performance figures assume the reinvestment of all dividends (except where noted), but do not reflect the impact of taxes. Additionally, because an investor cannot invest in an index directly, indices' performance figures do not reflect the expenses associated with the management of an actual mutual fund portfolio.

The information provided should not be considered a recommendation to purchase or sell a particular security and there is no assurance that, as of the date of publication, the securities purchased remain in a Fund's portfolio or that securities sold have not been repurchased. Also, you should note that the securities discussed, even if they have been purchased by a Fund, do not represent a Fund's entire portfolio and, in the aggregate, may represent only a small percentage of that Fund's holdings. There can be no assurance that any Firsthand Funds will buy, sell, or hold any particular security after the date referred to in the discussion.

An investor should consider investment objectives, risks, charges, and expenses of the Funds carefully before investing. To obtain a prospectus, which contains this and other information, please call 1.888.884.2675 or visit www.firsthandfunds.com. Read the prospectus carefully before investing or sending money.