



## How to Avoid the Worst Sector ETFs

Question: Why are there so many ETFs?

Answer: ETF issuance is profitable, so Wall Street keeps cranking out more products to sell.

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The large number of ETFs has little to do with serving your best interests as an investor. More [reliable](#) & [proprietary](#) fundamental data, proven in [The Journal of Financial Economics](#), drives our research and analysis of ETF holdings and provides investors with a [new source of alpha](#). We leverage this data to identify three red flags you can use to avoid the worst ETFs:

### 1. Inadequate Liquidity

This issue is the easiest to avoid, and our advice is simple. Avoid all ETFs with less than \$100 million in assets. Low levels of liquidity can lead to a discrepancy between the price of the ETF and the underlying value of the securities it holds. Small ETFs also generally have lower trading volume, which translates to higher trading costs via larger bid-ask spreads.

### 2. High Fees

ETFs should be cheap, but not all of them are. The first step here is to benchmark what cheap means.

To ensure you are paying average or below average fees, invest only in ETFs with [total annual costs](#) below 0.46% – the average total annual costs of the 403 U.S. equity Sector ETFs we cover. The weighted average of ETFs we have assets under management data for is lower at 0.14%, which highlights how investors tend to put their [money in ETFs with low fees](#).

Figure 1 shows ERShares Private Public Crossover ETF (XOVR) is the most expensive sector ETF and Gabelli Global Technology Leaders ETF (GGTL) is the WBI provides two of the most expensive ETFs while Gabelli ETFs are among the cheapest.

**Figure 1: 5 Most and Least Expensive Sector ETFs**

Ticker	Name	Sector	Total Annual Cost
<b>Most Expensive</b>			
XOVR	ERShares Private Public Crossover ETF	Technology	2.03%
AMZA	InfraCap MLP ETF 1.25x Shares	Energy	1.93%
WBIF	WBI BullBear Value 3000 ETF	Financials	1.85%
WBIL	WBI BullBear Quality 3000 ETF	Technology	1.73%
EATZ	AdvisorShares Restaurant ETF	Consumer Cyclical	1.11%
<b>Least Expensive</b>			
GGTL	Gabelli Global Technology Leaders ETF	Technology	0.00%
BKLC	BNY Mellon U.S. Large Cap Core Equity ETF	Technology	0.00%
GGRW	Gabelli Growth Innovators ETF	Technology	0.00%
BBUS	JPMorgan BetaBuilders U.S. Equity ETF	Technology	0.02%
SPTM	State Street SPDR S&P 1500 Composite Stock Market	Technology	0.03%

Sources: New Constructs, LLC and company filings



Investors need not pay high fees for quality holdings.<sup>1</sup> Invesco KBW Property & Casualty Insurance ETF (KBWP) is the best ranked sector ETF overall. KBWP’s Attractive [Portfolio Management rating](#) and 0.39% total annual cost earns it a Very Attractive rating<sup>2</sup>.

On the other hand, Schwab U.S. Reit ETF (SCHH) holds poor stocks and earns our Unattractive rating, despite having low total annual costs of 0.08%. No matter how cheap an ETF looks, if it holds bad stocks, its performance will be bad. The quality of an ETF’s holdings matters more than its management fee.

**3. Poor Holdings**

Avoiding poor holdings is by far the hardest part of avoiding bad ETFs, but it is also the most important because an ETF’s performance is determined more by its holdings than its costs. Figure 2 shows the ETFs within each sector with the worst holdings or [portfolio management ratings](#).

**Figure 2: Sector ETFs with the Worst Holdings**

Ticker	Name	Sector	Portfolio Management Rating
XME	State Street SPDR S&P Metals & Mining ETF	Basic Materials	Unattractive
ONLN	ProShares Online Retail ETF	Consumer Cyclical	Unattractive
PSL	Invesco Dorsey Wright Consumer Staples Momentum	Consumer Non-cyclical	Neutral
POWR	iShares U.S. Power Infrastructure ETF	Energy	Unattractive
ADPV	Adaptiv Select ETF	Financials	Unattractive
ARKG	ARK Genomic Revolution ETF	Healthcare	Unattractive
ROKT	State Street S&P Kensho Final Frontiers ETF	Industrials	Unattractive
REIT	ALPS Active REIT ETF	Real Estate	Unattractive
QCLN	First Trust Nasdaq Clean Edge Green Energy Index	Technology	Unattractive
XTL	State Street S&P Telecom ETF	Telecom Services	Unattractive
UTES	Virtus Reaves Utilities ETF	Utilities	Unattractive

Sources: New Constructs, LLC and company filings

State Street appears more often than any other providers in Figure 2, which means that they offer the most ETFs with the worst holdings.

ARK Genomic Revolution ETF (ARKG) is the worst rated ETF in Figure 2 based on our [predictive overall rating](#). State Street SPDR S&P Metals & Mining ETF (XME), State Street S&P Kensho Final Frontiers ETF (ROKT), ALPS Active REIT ETF (REIT), Virtus Reaves Utilities ETF (UTES), First Trust Nasdaq Clean Edge Green Energy Index (QCLN), and Adaptiv Select ETF (ADPV) also earn a Very Unattractive predictive overall rating, which means not only do they hold poor stocks, they charge high total annual costs.

Our [overall ratings on ETFs](#) are on our [stock ratings](#) of their holdings and the total annual costs of investing in the ETF.

**The Danger Within**

Buying an ETF without analyzing its holdings is like buying a stock without analyzing its business and finances. Put another way, research on ETF holdings is necessary due diligence because an ETF’s performance is only as good as its holdings. Don’t just take our word for it, [see what Barron’s says](#) on this matter.

$$\text{PERFORMANCE OF ETFs HOLDINGS} - \text{FEES} = \text{PERFORMANCE OF ETF}$$

<sup>1</sup> Three independent studies from respected institutions prove the superiority of our data, models, and ratings. Learn more [here](#).

<sup>2</sup> Harvard Business School features the powerful impact of our research automation technology in the case [New Constructs: Disrupting Fundamental Analysis with Robo-Analysts](#).



Analyzing each holding within funds is no small task. Our [Robo-Analyst technology](#) enables us to perform this diligence with scale and provide the [research needed](#) to [fulfill the fiduciary duty of care](#). More of the biggest names in the financial industry (see [At BlackRock, Machines Are Rising Over Managers to Pick Stocks](#)) are now embracing technology to leverage machines in the investment research process. Technology may be the only solution to the dual mandate for research: cut costs and fulfill the fiduciary duty of care. Investors, clients, advisors and analysts deserve the latest technology to get the diligence required to make prudent investment decisions.

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Many firms claim their research is superior, but none of them can prove it with independent studies from highly-respected institutions as we can. Three different papers from both the public and private sectors show:

1. The stock market is missing footnotes – and only we have that critical data.
2. Legacy fundamental datasets suffer from significant inaccuracies, omissions, and biases.
3. Our proprietary drives novel alpha. Our measures of [Core Earnings](#) and [Earnings Distortion](#) materially improve stock picking and forecasting of profits.

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In [The Journal of Financial Economics](#), a top peer-reviewed journal, [Core Earnings: New Data & Evidence](#) proves our Robo-Analyst technology overcomes material shortcomings in legacy firms' data collection processes to provide superior [fundamental data](#), [earnings](#) models, and [research](#). More [details](#).

Key quotes from the paper:

- “[New Constructs’] *Total Adjustments* differs significantly from the items identified and excluded from Compustat’s adjusted earnings measures. For example... 50% to 70% of the variation in *Total Adjustments* is not explained by S&P Global’s (*SPGI*) *Adjustments* individually.” – pp. 14, 1<sup>st</sup> para.
- “A final source of differences [between New Constructs’ and S&P Global’s data] is due to data collection oversights...we identified cases where Compustat did not collect information relating to firms’ income that is useful in assessing core earnings.” – pp. 16, 2<sup>nd</sup> para.

### **Superior Models**

Ernst & Young features the superiority of our ROIC, NOPAT and Invested Capital research to Capital IQ & Bloomberg’s in [Getting ROIC Right](#). See the [Appendix](#) for direct comparison details.

Key quotes from the paper:

- “...an accurate calculation of ROIC requires more diligence than often occurs in some of the common, off-the-shelf ROIC calculations. Only by scouring the footnotes and the MD&A [ as New Constructs does] can investors get an accurate calculation of ROIC.” – pp. 8, 5<sup>th</sup> para.
- “The majority of the difference...comes from New Constructs’ machine learning approach, which leverages technology to calculate ROIC by applying accounting adjustments that may be buried deeply in the footnotes across thousands of companies.” – pp. 4, 2<sup>nd</sup> para.

### **Superior Stock Ratings**

Robo-Analysts’ stock ratings outperform those from human analysts as shown in this [paper](#) from Harvard Business School. Bloomberg features the paper [here](#).

Key quotes from the paper:

- “the portfolios formed following the buy recommendations of Robo-Analysts earn abnormal returns that are statistically and economically significant.” – pp. 6, 3<sup>rd</sup> para.
- “Our results ultimately suggest that Robo-Analysts are a valuable, alternative information intermediary to traditional sell-side analysts.” – pp. 20, 3<sup>rd</sup> para.

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