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About the ETFG ETP Weekly Select List

The ETF Global Weekly ETF Select List has been designed to support both Financial Professionals and Investors with their respective Exchange-Traded-Fund selection processes. Once the investor's risk tolerance, investment goals and resulting asset-allocation have been determined, the ETFG Weekly ETF Select List points to the highest-rated ETFs to fit the investment needs and goals of that specific portfolio.

Developed by the Research team at ETF Global, the ETFG Weekly ETF Select List features the 5 most highly rated ETFs by Sector, Geographic Region and Strategy as ranked by the ETFG Quant model. This weekly reference guide enables you to quickly and easily identify ETFs which meet your chosen criteria. Because the list highlights just five ETFs per category and the ETFG Quant model is cross-sectional in its rankings, each ETF on the list has earned its respective spot by achieving the highest relative scoring versus its eligible peer group. The universe of equity ETFs reviewed by ETFG Quant represents the broadest range of industry groups, sectors and geographic regions.

- The selection pool includes all U.S. listed, equity ETFs, excluding levered and inverse funds
- The ETFG Quant model assigns a daily ranking to all relevant products using proprietary algorithms and employing dozens of industry metrics.
- ETFG Quant has four primary drivers: Behavioral Finance (Technical Analysis & Sentiment), Fundamental Analysis, Global Themes and Quality
- Selection is performed prior to trading on Monday of each week

To best support the ETF selection process, ETF Global strongly encourages viewers to perform a more comprehensive review of the overall ETFG Quant rankings and to utilize the additional tools and resources available at www.etfg.com to further research and diligence exchange-traded-funds.

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Equity ETF Select List - Sectors

ETFGlobal[®]

December 31, 2018

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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	SLVP	iShares MSCI Global Silver Miners ETF	Basic Materials	Global	0.39%	5.21	7.89	57.90
2	GDJ	VanEck Vectors Gold Miners ETF	Basic Materials	Global	0.53%	4.37	6.88	56.40
3	PSAU	Invesco Global Gold and Precious Metals ETF	Basic Materials	Global	0.75%	5.35	7.27	56.40
4	XME	SPDR S&P Metals & Mining ETF	Basic Materials	North America	0.35%	4.55	6.73	56.20
5	GOEX	Global X Gold Explorers ETF	Basic Materials	Global	0.66%	6.83	7.50	55.60
1	PMR	Invesco Dynamic Retail ETF	Consumer Discretionary	North America	0.63%	6.40	9.38	66.60
2	XRT	SPDR S&P Retail ETF	Consumer Discretionary	North America	0.35%	5.60	8.63	65.00
3	PEJ	Invesco Dynamic Leisure and Entertainment ETF	Consumer Discretionary	North America	0.61%	4.95	7.34	56.30
4	ECON	Columbia Emerging Markets Consumer ETF	Consumer Discretionary	Emerging Markets	0.59%	5.61	7.27	55.70
5	FXD	First Trust Consumer Discretionary AlphaDEX Fund	Consumer Discretionary	North America	0.63%	4.59	6.90	54.90
1	XLP	Consumer Staples Select Sector SPDR Fund	Consumer Staples	North America	0.14%	3.00	7.63	62.40
2	PSCC	Invesco S&P SmallCap Consumer Staples ETF	Consumer Staples	North America	0.29%	3.86	7.80	62.00
3	KXI	iShares Global Consumer Staples ETF	Consumer Staples	Global	0.48%	6.18	7.66	61.00
4	PBJ	Invesco Dynamic Food & Beverage ETF	Consumer Staples	North America	0.58%	4.91	7.15	57.20
5	IYK	iShares US Consumer Goods ETF	Consumer Staples	North America	0.44%	4.14	6.85	56.70
1	OIH	VanEck Vectors Oil Service ETF	Energy	Global	0.35%	6.22	9.62	70.30
2	EMLP	First Trust North American Energy Infrastructure Fund	Energy	North America	0.95%	3.99	9.22	67.40
3	PXI	Invesco DWA Energy Momentum ETF	Energy	North America	0.60%	6.67	7.62	62.20
4	IEZ	iShares U.S. Oil Equipment & Services ETF	Energy	North America	0.44%	6.40	7.27	57.70
5	XLE	Energy Select Sector SPDR Fund	Energy	North America	0.14%	4.63	6.37	57.40
1	KIE	SPDR S&P Insurance ETF	Financials	North America	0.35%	6.45	8.04	61.70
2	KBWR	Invesco KBW Regional Banking ETF	Financials	North America	0.35%	5.90	7.65	58.90
3	KBWD	Invesco KBW High Dividend Yield Financial ETF	Financials	North America	2.40%	5.63	7.82	58.70
4	EUFN	iShares MSCI Europe Financials ETF	Financials	Europe	0.48%	4.79	6.97	55.30
5	XLF	Financial Select Sector SPDR Fund	Financials	North America	0.14%	3.42	6.58	54.40
1	IXJ	iShares Global Healthcare ETF	Health Care	Global	0.48%	4.98	9.78	69.50
2	IBB	iShares Nasdaq Biotechnology ETF	Health Care	North America	0.47%	5.31	10.00	69.30
3	BBH	VanEck Vectors Biotech ETF	Health Care	Global	0.35%	6.52	9.39	67.10
4	XPH	SPDR S&P Pharmaceuticals ETF	Health Care	North America	0.35%	5.93	8.83	63.40
5	PJP	Invesco Dynamic Pharmaceuticals ETF	Health Care	North America	0.56%	6.27	8.14	62.00
1	CARZ	First Trust NASDAQ Global Auto Index Fund	Industrials	Global	0.70%	5.63	8.99	63.00
2	FLM	First Trust Global Engineering and Construction ETF	Industrials	Global	0.70%	6.66	7.86	62.10
3	PKB	Invesco Dynamic Building & Construction ETF	Industrials	North America	0.63%	6.50	6.89	56.80

4	JETS	U.S. Global Jets ETF	Industrials	Global	0.60%	6.00	7.29	56.70
5	XTN	SPDR S&P Transportation ETF	Industrials	North America	0.35%	4.54	5.68	53.60
1	NFRA	FlexShares STOXX Global Broad Infrastructure Index Fund	Natural Resources	Global	0.47%	3.39	7.13	57.30
2	PAGG	Invesco Global Agriculture ETF	Natural Resources	Global	0.77%	5.69	7.22	55.60
3	TBLU	Tortoise Water Fund	Natural Resources	North America	0.40%	5.65	6.85	52.20
4	PAVE	Global X U.S. Infrastructure Development ETF	Natural Resources	North America	0.47%	5.10	6.04	51.60
5	NANR	SPDR S&P North American Natural Resources ETF	Natural Resources	North America	0.35%	4.29	6.03	51.30
1	FTXL	First Trust Nasdaq Semiconductor ETF	Technology	North America	0.60%	5.79	7.96	61.40
2	SOXX	iShares PHLX Semiconductor ETF	Technology	North America	0.48%	5.04	7.07	58.30
3	IGN	iShares North American Tech-Multimedia Networking ETF	Technology	North America	0.48%	4.76	7.26	57.60
4	FINX	Global X FinTech Thematic ETF	Technology	Global	0.68%	5.15	7.39	55.90
5	CIBR	First Trust Nasdaq Cybersecurity ETF	Technology	Global	0.60%	4.60	6.76	55.30
1	VOX	Vanguard Communication Services ETF	Telecommunications	North America	0.10%	5.26	7.75	57.40
2	XTL	SPDR S&P Telecom ETF	Telecommunications	North America	0.35%	4.95	7.12	56.90
3	FCOM	Fidelity MSCI Telecommunication Services Index ETF	Telecommunications	North America	0.08%	4.10	7.88	55.60
4	IYZ	iShares US Telecommunications ETF	Telecommunications	North America	0.44%	4.55	6.43	54.00
5	IXP	iShares Global Telecom ETF	Telecommunications	Global	0.48%	5.90	6.90	53.20
1	FUTY	Fidelity MSCI Utilities Index ETF	Utilities	North America	0.08%	2.11	7.22	58.60
2	JHMU	John Hancock Multifactor Utilities ETF	Utilities	North America	0.50%	4.04	7.14	57.10
3	UTES	Reaves Utilities ETF	Utilities	North America	0.95%	6.05	7.34	53.50
4	XLU	Utilities Select Sector SPDR Fund	Utilities	North America	0.14%	2.84	5.72	53.20
5	RYU	Invesco S&P 500 Equal Weight Utilities ETF	Utilities	North America	0.40%	4.62	5.40	51.20

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Equity ETF Select List - Geography



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	Ticker	Name	Region	Focus	TER	Risk*	Reward*	Quant*
1	EWY	iShares MSCI South Korea ETF	Asia-Pacific	Broad Equity	0.62%	3.27	9.49	70.20
2	EWH	iShares MSCI Hong Kong ETF	Asia-Pacific	Broad Equity	0.49%	1.75	8.80	65.00
3	FNI	First Trust Chindia ETF	Asia-Pacific	Broad Equity	0.60%	5.14	9.41	64.40
4	EPP	iShares MSCI Pacific ex Japan ETF	Asia-Pacific	Broad Equity	0.49%	3.68	8.54	64.30
5	EWM	iShares MSCI Malaysia ETF	Asia-Pacific	Broad Equity	0.49%	3.62	8.34	64.10
1	TUR	iShares MSCI Turkey ETF	Europe	Broad Equity	0.62%	5.85	9.78	69.30
2	EWU	iShares MSCI United Kingdom ETF	Europe	Broad Equity	0.49%	3.31	9.27	68.00
3	EWD	iShares MSCI Sweden ETF	Europe	Broad Equity	0.49%	4.53	9.16	66.40
4	FEZ	SPDR EURO STOXX 50 ETF	Europe	Large Cap	0.29%	4.43	8.24	63.50
5	FEU	SPDR STOXX Europe 50 ETF	Europe	Large Cap	0.29%	4.57	8.21	63.10
1	OIH	VanEck Vectors Oil Service ETF	Global	Energy	0.35%	6.22	9.62	70.30
2	IXJ	iShares Global Healthcare ETF	Global	Health Care	0.48%	4.98	9.78	69.50
3	IOO	iShares Global 100 ETF	Global	Large Cap	0.40%	5.91	9.28	67.90
4	BBH	VanEck Vectors Biotech ETF	Global	Health Care	0.35%	6.52	9.39	67.10
5	CARZ	First Trust NASDAQ Global Auto Index Fund	Global	Industrials	0.70%	5.63	8.99	63.00
1	AADR	AdvisorShares Dorsey Wright ADR ETF	Global Ex-U.S.	Broad Equity	0.89%	7.19	9.92	68.60
2	TLTD	FlexShares Morningstar Developed Markets ex-US Factor Tilt Index F	Global Ex-U.S.	Broad Equity	0.39%	4.09	8.29	61.50
3	VYMI	Vanguard International High Dividend Yield ETF	Global Ex-U.S.	High Dividend Yield	0.32%	3.31	7.72	59.40
4	HDMV	First Trust Horizon Managed Volatility Developed International ETF	Global Ex-U.S.	Broad Equity	0.80%	4.07	7.51	58.60
5	GSIE	Goldman Sachs ActiveBeta International Equity ETF	Global Ex-U.S.	Broad Equity	0.25%	2.91	7.48	58.40
1	EWW	iShares MSCI Mexico ETF	Latin America	Broad Equity	0.49%	4.13	9.93	70.40
2	EWZ	iShares MSCI Brazil ETF	Latin America	Broad Equity	0.63%	4.58	7.95	60.80
3	FLN	First Trust Latin America AlphaDEX Fund	Latin America	Broad Equity	0.80%	5.20	7.70	57.80
4	ECH	iShares MSCI Chile ETF	Latin America	Broad Equity	0.62%	4.25	6.98	57.30
5	EPU	iShares MSCI Peru ETF	Latin America	Broad Equity	0.63%	4.04	7.29	56.20
1	EZA	iShares MSCI South Africa ETF	Middle East & Africa	Broad Equity	0.62%	5.98	8.78	63.00
2	ITEQ	BlueStar Israel Technology ETF	Middle East & Africa	Technology	0.75%	5.48	7.71	54.70
3	EIS	iShares MSCI Israel ETF	Middle East & Africa	Broad Equity	0.62%	5.83	7.03	53.50
4	ISRA	VanEck Vectors Israel ETF	Middle East & Africa	Broad Equity	0.60%	5.58	6.78	51.40
5	QAT	iShares MSCI Qatar Capped ETF	Middle East & Africa	Broad Equity	0.62%	4.46	6.45	51.10
1	IWR	iShares Russell Mid-Cap ETF	North America	Mid Cap	0.20%	5.29	9.56	69.70
2	IBB	iShares Nasdaq Biotechnology ETF	North America	Health Care	0.47%	5.31	10.00	69.30

3	QQQE	Direxion NASDAQ 100 Equal Weighted Index Shares	North America	Large Cap	0.35%	5.15	9.38	68.10
4	EMLP	First Trust North American Energy Infrastructure Fund	North America	Energy	0.95%	3.99	9.22	67.40
5	SLY	SPDR S&P 600 Small CapETF	North America	Small Cap	0.15%	5.45	9.07	66.70
1	EMIF	iShares Emerging Markets Infrastructure ETF	Emerging Markets	Theme	0.75%	5.84	9.04	65.30
2	EEM	iShares MSCI Emerging Markets ETF	Emerging Markets	Broad Equity	0.69%	4.15	8.15	61.60
3	VWO	Vanguard FTSE Emerging Markets ETF	Emerging Markets	Broad Equity	0.14%	3.26	8.41	61.40
4	EEMV	iShares Edge MSCI Min Vol Emerging Markets ETF	Emerging Markets	Broad Equity	0.25%	2.77	7.50	58.80
5	PXR	Invesco Emerging Markets Infrastructure ETF	Emerging Markets	Theme	0.75%	5.88	7.72	57.90
1	HEDJ	WisdomTree Europe Hedged Equity Fund	Developed Markets	Broad Equity	0.58%	4.13	8.54	64.00
2	EFA	iShares MSCI EAFE ETF	Developed Markets	Broad Equity	0.32%	4.05	8.05	62.60
3	IDLV	Invesco S&P International Developed Low Volatility ETF	Developed Markets	Broad Equity	0.25%	3.14	7.97	60.40
4	BFIT	Global X Health & Wellness Thematic ETF	Developed Markets	Theme	0.50%	3.60	8.15	58.70
5	IEFA	iShares Core MSCI EAFE ETF	Developed Markets	Broad Equity	0.08%	2.92	7.17	57.80

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Equity ETF Select List - Strategies



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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	KNOW	Direxion All Cap Insider Sentiment Shares	Alpha-Seeking	North America	0.59%	5.26	7.92	60.80
2	FVL	First Trust Value Line 100 Exchange-Traded Fund	Alpha-Seeking	North America	0.70%	5.08	7.46	58.60
3	WMW	ELEMENTS Linked to the Morningstar Wide Moat Focus Total Return In	Alpha-Seeking	North America	0.75%	6.56	7.63	56.00
4	DWAQ	Invesco DWA NASDAQ Momentum ETF	Alpha-Seeking	North America	0.60%	6.97	7.51	55.90
5	DVP	Deep Value ETF	Alpha-Seeking	North America	0.59%	6.06	6.85	54.90
1	EWW	iShares MSCI Mexico ETF	Broad Equity	Latin America	0.49%	4.13	9.93	70.40
2	EWY	iShares MSCI South Korea ETF	Broad Equity	Asia-Pacific	0.62%	3.27	9.49	70.20
3	TUR	iShares MSCI Turkey ETF	Broad Equity	Europe	0.62%	5.85	9.78	69.30
4	AADR	AdvisorShares Dorsey Wright ADR ETF	Broad Equity	Global Ex-U.S.	0.89%	7.19	9.92	68.60
5	EWM	iShares MSCI United Kingdom ETF	Broad Equity	Europe	0.49%	3.31	9.27	68.00
1	SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	High Dividend Yield	North America	0.30%	2.95	7.26	60.20
2	VYMI	Vanguard International High Dividend Yield ETF	High Dividend Yield	Global Ex-U.S.	0.32%	3.31	7.72	59.40
3	FGD	First Trust DJ Global Select Dividend Index Fund	High Dividend Yield	Global	0.58%	5.21	7.21	58.20
4	DVYE	iShares Emerging Markets Dividend ETF	High Dividend Yield	Emerging Markets	0.49%	3.73	6.90	56.10
5	DGRW	WisdomTree U.S. Quality Dividend Growth Fund	High Dividend Yield	North America	0.28%	2.59	6.74	55.70
1	MNA	IQ Merger Arbitrage ETF	Long/Short	Global	0.77%	1.87	7.54	56.50
2	CLIX	ProShares Long Online/Short Stores ETF	Long/Short	North America	0.65%	6.29	7.19	55.40
3	FTLS	First Trust Long/Short Equity ETF	Long/Short	Global	1.48%	4.73	6.96	55.30
4	MOM	AGFiQ US Market Neutral Momentum Fund	Long/Short	North America	0.75%	8.31	7.95	54.60
5	CHEP	AGFiQ US Market Neutral Value Fund	Long/Short	North America	0.75%	6.81	5.71	42.40
1	PFXF	VanEck Vectors Preferred Securities ex Financials ETF	Preferred Stock	Global	0.41%	3.25	6.23	52.00
2	IPFF	iShares International Preferred Stock ETF	Preferred Stock	Developed Markets	0.55%	4.76	5.18	42.90
3	PGF	Invesco Financial Preferred ETF	Preferred Stock	North America	0.63%	3.72	4.63	41.90
4	PFF	iShares US Preferred Stock ETF	Preferred Stock	North America	0.47%	3.53	4.38	41.30
5	PFFD	Global X US Preferred ETF	Preferred Stock	North America	0.23%	3.90	4.71	39.10
1	EMIF	iShares Emerging Markets Infrastructure ETF	Theme	Emerging Markets	0.75%	5.84	9.04	65.30
2	SEA	Invesco Shipping ETF	Theme	Global	0.65%	6.58	8.29	62.40
3	BFIT	Global X Health & Wellness Thematic ETF	Theme	Developed Markets	0.50%	3.60	8.15	58.70
4	PXR	Invesco Emerging Markets Infrastructure ETF	Theme	Emerging Markets	0.75%	5.88	7.72	57.90
5	BOTZ	Global X Robotics & Artificial Intelligence Thematic ETF	Theme	Global	0.68%	4.18	6.90	57.30
1	QQQE	Direxion NASDAQ 100 Equal Weighted Index Shares	Large Cap	North America	0.35%	5.15	9.38	68.10
2	IOO	iShares Global 100 ETF	Large Cap	Global	0.40%	5.91	9.28	67.90

3	SPYG	SPDR Portfolio S&P 500 Growth ETF	Large Cap	North America	0.04%	4.89	8.89	66.00
4	SPYV	SPDR Portfolio S&P 500 Value ETF	Large Cap	North America	0.04%	4.99	8.85	65.90
5	FEZ	SPDR EURO STOXX 50 ETF	Large Cap	Europe	0.29%	4.43	8.24	63.50
1	IWR	iShares Russell Mid-Cap ETF	Mid Cap	North America	0.20%	5.29	9.56	69.70
2	MDYG	SPDR S&P 400 Mid CapGrowth ETF	Mid Cap	North America	0.15%	5.59	8.46	63.80
3	MDYV	SPDR S&P 400 Mid Cap Value ETF	Mid Cap	North America	0.15%	5.31	8.15	62.80
4	DON	WisdomTree U.S. MidCap Dividend Fund	Mid Cap	North America	0.38%	5.97	7.45	58.80
5	PXMV	Invesco Russell MidCap Pure Value ETF	Mid Cap	North America	0.39%	3.87	7.44	56.60
1	SLY	SPDR S&P 600 Small CapETF	Small Cap	North America	0.15%	5.45	9.07	66.70
2	RZV	Invesco S&P SmallCap 600 Pure Value ETF	Small Cap	North America	0.35%	5.21	8.83	64.40
3	SLYV	SPDR S&P 600 Small CapValue ETF	Small Cap	North America	0.15%	5.32	8.38	63.90
4	SLYG	SPDR S&P 600 Small Cap Growth ETF	Small Cap	North America	0.15%	5.38	8.48	63.80
5	DES	WisdomTree U.S. SmallCap Dividend Fund	Small Cap	North America	0.38%	5.91	8.07	61.00
1	PZI	Invesco Zacks Micro Cap ETF	Micro Cap	North America	1.24%	5.38	8.12	59.10
2	FDM	First Trust Dow Jones Select Microcap Index Fund	Micro Cap	North America	0.60%	4.61	6.34	51.90
3	WMCR	Invesco Wilshire Micro-Cap ETF	Micro Cap	North America	0.58%	5.84	5.60	45.10
4	IWC	iShares Micro-Cap ETF	Micro Cap	North America	0.60%	5.41	4.34	41.60

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*Key

***ETF Global 10 Red Diamond Risk Rating:** An ETFG 10 Red Diamond Risk Rating represents the ETFs with the highest risk rating. A 1 Red Diamond Risk Rating represents the ETFs with the lowest risk ratings. ETFG's Risk Rating measures two primary risk categories: Price Risk and Integrity Risk. Price and Integrity risk are equally weighted in the overall risk rating with Price Risk calculating 7 equally weighted underlying measurements covering such aspects as volatility and deviation. Integrity Risk calculates 8 equally weighted underlying measurements regarding the structure and trading characteristics of the security and its sponsor. The Overall Risk Rating Score is aggregated and carried to two decimal places to generate the ETFG Red Diamond Risk Rating. ◆◆◆◆◆◆◆◆◆◆

***ETF Global 10 Green Diamond Reward Rating:** An ETF Global 10 Green Diamond Reward Rating reflects an ETF with the most attractive reward rating and a Green Diamond Reward Rating of 1 reflects an individual ETF carrying the least attractive reward rating. ETFG's Green Diamond Reward Rating System is calculated utilizing the ETFG proprietary Model measuring two primary reward categories: Fundamental and Behavioral. Fundamental and Behavioral are equally weighted and driven by ETFG's proprietary algorithms in 25 underlying fields. The Overall Rating Score is aggregated and carried to two decimal places to generate the Reward Rating. ◆◆◆◆◆◆◆◆◆◆

***About the ETFGSM Quant Model:** The universe of equity ETFs reviewed by ETFGSM Quant represents the broadest range of industry groups, sectors and geographic regions. The ETFGSM Quant model assigns a daily ranking to all relevant products using proprietary algorithms and employing dozens of industry metrics to gauge how likely an equity ETF will outperform the market in the foreseeable future. ETFGSM Quant evaluates four primary categories that drive the results of the model: Behavioral Finance (Technical Analysis & Sentiment), Fundamental Analysis, Global Themes and Quality. For detailed information

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