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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[®]

November 19, 2018

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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	GDX	VanEck Vectors Gold Miners ETF	Basic Materials	Global	0.53%	4.24	6.40	57.50
2	SLVP	iShares MSCI Global Silver Miners ETF	Basic Materials	Global	0.39%	5.91	7.07	57.50
3	SIL	Global X Silver Miners ETF	Basic Materials	Global	0.65%	6.61	6.63	56.50
4	FMAT	Fidelity MSCI Materials Index ETF	Basic Materials	North America	0.08%	3.38	6.73	56.50
5	RING	iShares MSCI Global Gold Miners ETF	Basic Materials	Global	0.39%	4.08	6.07	54.90
1	ECON	Columbia Emerging Markets Consumer ETF	Consumer Discretionary	Emerging Markets	0.59%	6.93	8.13	63.30
2	XRT	SPDR S&P Retail ETF	Consumer Discretionary	North America	0.35%	4.69	6.92	60.00
3	PEJ	Invesco Dynamic Leisure and Entertainment ETF	Consumer Discretionary	North America	0.61%	5.08	7.00	58.10
4	PMR	Invesco Dynamic Retail ETF	Consumer Discretionary	North America	0.63%	5.50	6.63	57.00
5	IBUY	Amplify Online Retail ETF	Consumer Discretionary	Global	0.65%	6.71	6.63	53.90
1	KXI	iShares Global Consumer Staples ETF	Consumer Staples	Global	0.48%	5.62	7.84	65.30
2	JHMS	John Hancock Multifactor Consumer Staples ETF	Consumer Staples	North America	0.50%	3.85	7.65	63.10
3	XLP	Consumer Staples Select Sector SPDR Fund	Consumer Staples	North America	0.14%	2.11	6.69	61.30
4	PBJ	Invesco Dynamic Food & Beverage ETF	Consumer Staples	North America	0.58%	4.18	7.24	60.80
5	FSTA	Fidelity MSCI Consumer Staples Index ETF	Consumer Staples	North America	0.08%	1.56	7.18	60.80
1	PXI	Invesco DWA Energy Momentum ETF	Energy	North America	0.60%	6.72	6.81	61.50
2	OIH	VanEck Vectors Oil Service ETF	Energy	Global	0.35%	6.06	6.93	61.30
3	AMLP	Alerian MLP ETF	Energy	North America	0.85%	5.80	7.78	60.20
4	EMLP	First Trust North American Energy Infrastructure Fund	Energy	North America	0.95%	3.40	6.90	59.70
5	AMJ	JPMorgan Alerian MLP Index ETN	Energy	North America	0.85%	6.23	6.54	57.40
1	KIE	SPDR S&P Insurance ETF	Financials	North America	0.35%	6.72	7.52	62.60
2	CHIX	Global X China Financials ETF	Financials	Asia-Pacific	0.65%	4.62	7.05	56.30
3	DXJF	WisdomTree Japan Hedged Financials Fund	Financials	Asia-Pacific	0.48%	5.16	6.44	55.50
4	DFNL	Davis Select Financial ETF	Financials	Global	0.65%	5.47	6.86	54.40
5	FNCL	Fidelity MSCI Financials Index ETF	Financials	North America	0.08%	2.88	6.26	54.30
1	IXJ	iShares Global Healthcare ETF	Health Care	Global	0.48%	4.90	9.52	72.00
2	IBB	iShares Nasdaq Biotechnology ETF	Health Care	North America	0.47%	5.29	9.58	71.00
3	BBH	VanEck Vectors Biotech ETF	Health Care	Global	0.35%	6.63	8.64	66.90
4	XPH	SPDR S&P Pharmaceuticals ETF	Health Care	North America	0.35%	5.48	7.52	60.70
5	JHMH	John Hancock Multifactor Healthcare ETF	Health Care	North America	0.50%	4.18	7.30	58.70
1	CARZ	First Trust NASDAQ Global Auto Index Fund	Industrials	Global	0.70%	5.89	7.51	59.20
2	FLM	First Trust Global Engineering and Construction ETF	Industrials	Global	0.70%	6.63	6.31	58.20
3	FIDU	Fidelity MSCI Industrials Index ETF	Industrials	North America	0.08%	2.60	6.13	56.70

4	IYT	iShares Transportation Average ETF	Industrials	North America	0.44%	5.31	5.38	55.90
5	AIRR	First Trust RBA American Industrial Renaissance ETF	Industrials	North America	0.70%	4.48	5.73	54.80
1	PAVE	Global X U.S. Infrastructure Development ETF	Natural Resources	North America	0.47%	4.00	7.40	61.80
2	FTRI	First Trust Indxx Global Natural Resources Income ETF	Natural Resources	Global	0.70%	3.70	6.72	57.50
3	NANR	SPDR S&P North American Natural Resources ETF	Natural Resources	North America	0.35%	4.10	6.35	56.50
4	NFRU	FlexShares STOXX Global Broad Infrastructure Index Fund	Natural Resources	Global	0.47%	3.08	6.14	55.90
5	TOLZ	DJ Brookfield Global Infrastructure ETF	Natural Resources	Global	0.46%	4.09	5.71	51.80
1	FTXL	First Trust Nasdaq Semiconductor ETF	Technology	North America	0.60%	5.84	7.87	64.80
2	FINX	Global X FinTech Thematic ETF	Technology	Global	0.68%	5.12	7.13	58.10
3	ITEQ	BlueStar Israel Technology ETF	Technology	Middle East & Africa	0.75%	5.08	7.53	57.40
4	SOXX	iShares PHLX Semiconductor ETF	Technology	North America	0.48%	5.11	6.04	56.70
5	IGN	iShares North American Tech-Multimedia Networking ETF	Technology	North America	0.48%	4.93	6.31	56.60
1	IYZ	iShares US Telecommunications ETF	Telecommunications	North America	0.44%	4.30	6.45	57.60
2	FCOM	Fidelity MSCI Telecommunication Services Index ETF	Telecommunications	North America	0.08%	3.61	6.45	55.80
3	VOX	Vanguard Communication Services ETF	Telecommunications	North America	0.10%	4.95	6.50	55.30
4	XTL	SPDR S&P Telecom ETF	Telecommunications	North America	0.35%	4.58	5.68	53.70
5	IXP	iShares Global Telecom ETF	Telecommunications	Global	0.48%	5.72	6.14	53.20
1	FUTY	Fidelity MSCI Utilities Index ETF	Utilities	North America	0.08%	2.11	7.53	63.60
2	JHMU	John Hancock Multifactor Utilities ETF	Utilities	North America	0.50%	3.80	7.41	61.90
3	XLU	Utilities Select Sector SPDR Fund	Utilities	North America	0.14%	2.95	6.02	57.90
4	UTES	Reaves Utilities ETF	Utilities	North America	0.95%	5.78	7.10	55.90
5	RYU	Invesco S&P 500 Equal Weight Utilities ETF	Utilities	North America	0.40%	4.77	5.29	53.80

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Equity ETF Select List - Geography



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	Ticker	Name	Region	Focus	TER	Risk*	Reward*	Quant*
1	FNI	First Trust Chindia ETF	Asia-Pacific	Broad Equity	0.60%	5.67	10.00	71.40
2	EWY	iShares MSCI South Korea ETF	Asia-Pacific	Broad Equity	0.62%	4.41	8.76	70.30
3	EIDO	iShares MSCI Indonesia ETF	Asia-Pacific	Broad Equity	0.63%	4.35	9.24	69.60
4	FXI	iShares China Large-Cap ETF	Asia-Pacific	Large Cap	0.74%	5.25	8.84	68.30
5	EWH	iShares MSCI Hong Kong ETF	Asia-Pacific	Broad Equity	0.49%	2.85	8.38	66.60
1	TUR	iShares MSCI Turkey ETF	Europe	Broad Equity	0.62%	6.91	9.32	70.70
2	EWU	iShares MSCI United Kingdom ETF	Europe	Broad Equity	0.49%	3.16	7.44	62.70
3	EWP	iShares MSCI Spain ETF	Europe	Broad Equity	0.49%	5.47	7.43	61.80
4	FEZ	SPDR EURO STOXX 50 ETF	Europe	Large Cap	0.29%	4.43	7.17	61.70
5	FEU	SPDR STOXX Europe 50 ETF	Europe	Large Cap	0.29%	4.62	7.03	60.70
1	IXJ	iShares Global Healthcare ETF	Global	Health Care	0.48%	4.90	9.52	72.00
2	BBH	VanEck Vectors Biotech ETF	Global	Health Care	0.35%	6.63	8.64	66.90
3	IOO	iShares Global 100 ETF	Global	Large Cap	0.40%	5.97	8.20	65.90
4	KXI	iShares Global Consumer Staples ETF	Global	Consumer Staples	0.48%	5.62	7.84	65.30
5	OIH	VanEck Vectors Oil Service ETF	Global	Energy	0.35%	6.06	6.93	61.30
1	AADR	AdvisorShares Dorsey Wright ADR ETF	Global Ex-U.S.	Broad Equity	0.89%	7.43	9.41	68.30
2	HDMV	First Trust Horizon Managed Volatility Developed International ETF	Global Ex-U.S.	Broad Equity	0.80%	3.77	7.39	61.40
3	IDOG	ALPS International Sector Dividend Dogs ETF	Global Ex-U.S.	Large Cap	0.50%	4.49	6.37	57.40
4	VYMI	Vanguard International High Dividend Yield ETF	Global Ex-U.S.	High Dividend Yield	0.32%	3.22	6.47	56.90
5	ICOW	Pacer Developed Markets International Cash Cows 100 ETF	Global Ex-U.S.	Broad Equity	0.65%	5.20	6.81	56.90
1	EWW	iShares MSCI Mexico ETF	Latin America	Broad Equity	0.49%	6.07	8.71	68.30
2	EWZ	iShares MSCI Brazil ETF	Latin America	Broad Equity	0.63%	5.68	7.93	64.30
3	EPU	iShares MSCI Peru ETF	Latin America	Broad Equity	0.63%	4.81	7.96	63.10
4	ILF	iShares Latin America 40 ETF	Latin America	Large Cap	0.49%	5.54	6.93	59.50
5	FLN	First Trust Latin America AlphaDEX Fund	Latin America	Broad Equity	0.80%	6.04	6.98	58.30
1	EZA	iShares MSCI South Africa ETF	Middle East & Africa	Broad Equity	0.62%	6.98	8.24	64.00
2	ITEQ	BlueStar Israel Technology ETF	Middle East & Africa	Technology	0.75%	5.08	7.53	57.40
3	EIS	iShares MSCI Israel ETF	Middle East & Africa	Broad Equity	0.62%	5.35	7.02	57.30
4	QAT	iShares MSCI Qatar Capped ETF	Middle East & Africa	Broad Equity	0.62%	5.36	6.38	54.30
5	ISRA	VanEck Vectors Israel ETF	Middle East & Africa	Broad Equity	0.60%	4.86	6.54	53.60
1	IWR	iShares Russell Mid-Cap ETF	North America	Mid Cap	0.20%	5.06	9.51	73.00
2	IBB	iShares Nasdaq Biotechnology ETF	North America	Health Care	0.47%	5.29	9.58	71.00

3	MDYV	SPDR S&P 400 Mid Cap Value ETF	North America	Mid Cap	0.15%	4.96	9.03	70.90
4	QQQE	Direxion NASDAQ 100 Equal Weighted Index Shares	North America	Large Cap	0.35%	4.97	9.10	69.90
5	SLY	SPDR S&P 600 Small CapETF	North America	Small Cap	0.15%	5.16	8.81	69.20
1	VWO	Vanguard FTSE Emerging Markets ETF	Emerging Markets	Broad Equity	0.14%	4.47	8.82	67.10
2	PXR	Invesco Emerging Markets Infrastructure ETF	Emerging Markets	Theme	0.75%	7.09	8.47	65.50
3	EMIF	iShares Emerging Markets Infrastructure ETF	Emerging Markets	Theme	0.75%	6.62	8.14	64.40
4	EEM	iShares MSCI Emerging Markets ETF	Emerging Markets	Broad Equity	0.69%	5.28	7.94	64.10
5	ECON	Columbia Emerging Markets Consumer ETF	Emerging Markets	Consumer Discretionary	0.59%	6.93	8.13	63.30
1	HEDJ	WisdomTree Europe Hedged Equity Fund	Developed Markets	Broad Equity	0.58%	4.46	7.11	60.40
2	EFA	iShares MSCI EAFE ETF	Developed Markets	Broad Equity	0.32%	4.03	6.77	60.00
3	BFIT	Global X Health & Wellness Thematic ETF	Developed Markets	Theme	0.50%	3.45	7.47	58.90
4	INTF	iShares Edge MSCI Multifactor Intl ETF	Developed Markets	Broad Equity	0.30%	2.66	5.93	55.40
5	PID	Invesco International Dividend Achievers ETF	Developed Markets	High Dividend Yield	0.56%	3.96	5.98	54.00

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Equity ETF Select List - Strategies



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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	FVL	First Trust Value Line 100 Exchange-Traded Fund	Alpha-Seeking	North America	0.70%	4.61	7.15	60.20
2	WMW	ELEMENTS Linked to the Morningstar Wide Moat Focus Total Return Ir	Alpha-Seeking	North America	0.75%	6.72	7.69	59.70
3	DVP	Deep Value ETF	Alpha-Seeking	North America	0.59%	5.67	6.77	57.40
4	KNOW	Direxion All Cap Insider Sentiment Shares	Alpha-Seeking	North America	0.59%	4.42	6.25	55.80
5	DWAQ	Invesco DWA NASDAQ Momentum ETF	Alpha-Seeking	North America	0.60%	6.88	6.45	54.80
1	FNI	First Trust Chindia ETF	Broad Equity	Asia-Pacific	0.60%	5.67	10.00	71.40
2	TUR	iShares MSCI Turkey ETF	Broad Equity	Europe	0.62%	6.91	9.32	70.70
3	EWY	iShares MSCI South Korea ETF	Broad Equity	Asia-Pacific	0.62%	4.41	8.76	70.30
4	EIDO	iShares MSCI Indonesia ETF	Broad Equity	Asia-Pacific	0.63%	4.35	9.24	69.60
5	EWW	iShares MSCI Mexico ETF	Broad Equity	Latin America	0.49%	6.07	8.71	68.30
1	DGRO	iShares Core Dividend Growth ETF	High Dividend Yield	North America	0.08%	1.39	7.44	62.70
2	SPYD	SPDR Portfolio S&P 500 High Dividend ETF	High Dividend Yield	North America	0.07%	2.32	7.06	62.20
3	FDRR	Fidelity Dividend ETF for Rising Rates	High Dividend Yield	Global	0.29%	3.02	7.24	59.70
4	SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	High Dividend Yield	North America	0.30%	2.44	6.37	59.20
5	FDVV	Fidelity Core Dividend ETF	High Dividend Yield	Global	0.29%	2.69	7.20	59.00
1	MNA	IQ Merger Arbitrage ETF	Long/Short	Global	0.77%	1.69	6.84	57.10
2	CLIX	ProShares Long Online/Short Stores ETF	Long/Short	North America	0.65%	6.48	6.50	56.30
3	FTLS	First Trust Long/Short Equity ETF	Long/Short	Global	1.48%	4.31	5.95	54.60
4	MOM	AGFiQ US Market Neutral Momentum Fund	Long/Short	North America	0.75%	6.57	5.55	46.30
5	HTUS	Hull Tactical US ETF	Long/Short	North America	0.91%	4.92	5.33	45.20
1	PFXF	VanEck Vectors Preferred Securities ex Financials ETF	Preferred Stock	Global	0.41%	2.78	4.65	47.80
2	PFF	iShares US Preferred Stock ETF	Preferred Stock	North America	0.47%	3.21	4.49	45.20
3	PSK	SPDR Wells Fargo Preferred Stock ETF	Preferred Stock	North America	0.45%	3.85	3.73	40.70
4	PFFD	Global X US Preferred ETF	Preferred Stock	North America	0.23%	3.48	4.02	39.40
5	IPFF	iShares International Preferred Stock ETF	Preferred Stock	Developed Markets	0.55%	4.51	3.62	38.80
1	PXR	Invesco Emerging Markets Infrastructure ETF	Theme	Emerging Markets	0.75%	7.09	8.47	65.50
2	EMIF	iShares Emerging Markets Infrastructure ETF	Theme	Emerging Markets	0.75%	6.62	8.14	64.40
3	SUSA	iShares MSCI USA ESG Select ETF	Theme	North America	0.25%	4.65	7.74	63.80
4	NLR	VanEck Vectors Uranium+Nuclear Energy ETF	Theme	Global	0.61%	6.05	7.07	61.10
5	KRMA	Global X Conscious Companies ETF	Theme	North America	0.43%	3.45	7.13	60.30
1	QQQE	Direxion NASDAQ 100 Equal Weighted Index Shares	Large Cap	North America	0.35%	4.97	9.10	69.90
2	SPYG	SPDR Portfolio S&P 500 Growth ETF	Large Cap	North America	0.04%	4.59	8.66	68.50

3	FXI	iShares China Large-Cap ETF	Large Cap	Asia-Pacific	0.74%	5.25	8.84	68.30
4	DJD	Invesco Dow Jones Industrial Average Dividend ETF	Large Cap	North America	0.07%	4.56	8.29	66.80
5	IOO	iShares Global 100 ETF	Large Cap	Global	0.40%	5.97	8.20	65.90
1	IWR	iShares Russell Mid-Cap ETF	Mid Cap	North America	0.20%	5.06	9.51	73.00
2	MDYV	SPDR S&P 400 Mid Cap Value ETF	Mid Cap	North America	0.15%	4.96	9.03	70.90
3	MDYG	SPDR S&P 400 Mid Cap Growth ETF	Mid Cap	North America	0.15%	5.26	7.93	64.70
4	DON	WisdomTree U.S. MidCap Dividend Fund	Mid Cap	North America	0.38%	5.30	7.66	63.50
5	NUMG	NuShares ESG Mid-Cap Growth ETF	Mid Cap	North America	0.40%	4.98	7.69	61.50
1	SLY	SPDR S&P 600 Small CapETF	Small Cap	North America	0.15%	5.16	8.81	69.20
2	SLYV	SPDR S&P 600 Small CapValue ETF	Small Cap	North America	0.15%	5.04	8.56	68.30
3	HAO	Invesco China Small Cap ETF	Small Cap	Asia-Pacific	0.75%	6.09	8.40	65.60
4	SLYG	SPDR S&P 600 Small Cap Growth ETF	Small Cap	North America	0.15%	5.21	7.84	64.50
5	SMDV	ProShares Russell 2000 Dividend Growers ETF	Small Cap	North America	0.40%	3.86	7.49	64.30
1	PZI	Invesco Zacks Micro Cap ETF	Micro Cap	North America	1.24%	4.33	7.07	57.70
2	FDM	First Trust Dow Jones Select Microcap Index Fund	Micro Cap	North America	0.60%	3.99	4.43	46.00
3	WMCR	Invesco Wilshire Micro-Cap ETF	Micro Cap	North America	0.58%	5.70	4.58	43.60
4	IWC	iShares Micro-Cap ETF	Micro Cap	North America	0.60%	5.33	2.96	38.20

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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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