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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



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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	GDX	VanEck Gold Miners ETF	Basic Materials	Global	0.51	5.18	7.01	63.50
2	SIL	Global X Silver Miners ETF	Basic Materials	Global	0.65	6.71	7.12	62.30
3	SLX	VanEck Steel ETF	Basic Materials	Global	0.56	6.53	6.72	61.30
4	JHMA	John Hancock Multifactor Materials ETF	Basic Materials	North America	0.40	5.86	6.47	57.70
5	GDXJ	VanEck Junior Gold Miners ETF	Basic Materials	Global	0.52	6.89	5.94	57.60
1	IYC	iShares U.S. Consumer Discretionary ETF	Consumer Discretionary	North America	0.39	5.90	9.71	75.60
2	PEJ	Invesco Dynamic Leisure and Entertainment ETF	Consumer Discretionary	North America	0.55	5.75	6.96	62.40
3	ECON	Columbia Emerging Markets Consumer ETF	Consumer Discretionary	Emerging Markets	0.49	5.59	7.15	59.70
4	FXD	First Trust Consumer Discretionary AlphaDEX Fund	Consumer Discretionary	North America	0.61	5.63	6.09	56.80
5	EMTY	ProShares Decline of the Retail Store ETF	Consumer Discretionary	North America	0.65	6.36	6.34	56.60
1	KXI	iShares Global Consumer Staples ETF	Consumer Staples	Global	0.43	4.71	7.79	68.20
2	FTXG	First Trust Nasdaq Food & Beverage ETF	Consumer Staples	North America	0.60	3.01	5.83	57.70
3	FSTA	Fidelity MSCI Consumer Staples Index ETF	Consumer Staples	North America	0.08	2.08	4.52	50.00
4	JHMS	John Hancock Multifactor Consumer Staples ETF	Consumer Staples	North America	0.40	3.66	4.70	50.00
5	XLP	Consumer Staples Select Sector SPDR Fund	Consumer Staples	North America	0.10	2.53	3.55	47.10
1	PSCE	Invesco S&P SmallCap Energy ETF	Energy	North America	0.29	4.16	8.57	72.20
2	PXJ	Invesco Dynamic Oil & Gas Services ETF	Energy	North America	0.63	5.98	8.47	70.80
3	IEZ	iShares U.S. Oil Equipment & Services ETF	Energy	North America	0.41	5.30	7.66	66.90
4	FENY	Fidelity MSCI Energy Index ETF	Energy	North America	0.08	3.16	7.30	65.70
5	PXI	Invesco DWA Energy Momentum ETF	Energy	North America	0.60	6.20	7.08	65.20
1	KIE	SPDR S&P Insurance ETF	Financials	North America	0.35	5.35	9.58	77.10
2	BIZD	VanEck BDC Income ETF	Financials	North America	10.92	5.71	8.04	66.70
3	KBWD	Invesco KBW High Dividend Yield Financial ETF	Financials	North America	1.24	6.91	7.60	64.90
4	EUFN	iShares MSCI Europe Financials ETF	Financials	Europe	0.48	5.27	7.30	63.30
5	IYF	iShares U.S. Financials ETF	Financials	North America	0.39	5.27	6.75	60.30
1	IBB	iShares Biotechnology ETF	Health Care	North America	0.45	4.24	9.23	74.00
2	IHI	iShares U.S. Medical Devices ETF	Health Care	North America	0.41	4.97	9.22	74.00
3	XPH	SPDR S&P Pharmaceuticals ETF	Health Care	North America	0.35	3.86	8.25	68.90
4	BTEC	Principal Healthcare Innovators ETF	Health Care	North America	0.42	4.91	7.22	64.70
5	PPH	VanEck Pharmaceutical ETF	Health Care	Global	0.35	3.53	6.58	60.80
1	ITA	iShares U.S. Aerospace & Defense ETF	Industrials	North America	0.42	5.03	7.43	67.50
2	IYJ	iShares U.S. Industrials ETF	Industrials	North America	0.39	5.70	7.29	64.70
3	JETS	U.S. Global Jets ETF	Industrials	Global	0.60	6.55	6.62	60.70

4	AIRR	First Trust RBA American Industrial Renaissance ETF	Industrials	North America	0.70	5.15	6.41	60.40
5	JHMI	John Hancock Multifactor Industrials ETF	Industrials	North America	0.40	5.58	6.42	58.40
1	FTRI	First Trust Indxx Global Natural Resources Income ETF	Natural Resources	Global	0.70	4.03	7.60	65.50
2	NANR	SPDR S&P North American Natural Resources ETF	Natural Resources	North America	0.35	4.86	6.42	61.00
3	IGE	iShares North American Natural Resources ETF	Natural Resources	Global	0.43	4.20	5.99	59.50
4	PAVE	Global X U.S. Infrastructure Development ETF	Natural Resources	North America	0.47	3.79	6.03	58.70
5	FTAG	First Trust Indxx Global Agriculture ETF	Natural Resources	Global	0.70	4.42	5.97	55.50
1	IYW	iShares U.S. Technology ETF	Technology	North America	0.39	5.32	8.30	67.80
2	IXN	iShares Global Tech ETF	Technology	Global	0.43	6.20	7.89	65.40
3	KWEB	KraneShares CSI China Internet ETF	Technology	Asia-Pacific	0.70	7.38	7.47	60.20
4	OGIG	ALPS O'Shares Global Internet Giants ETF	Technology	Global	0.48	6.67	6.90	58.50
5	LOUP	Innovator Loup Frontier Tech ETF	Technology	Global	0.70	8.18	6.74	56.50
1	EWCO	Invesco S&P 500 Equal Weight Communication Services ETF	Telecommunications	North America	0.40	5.34	6.73	58.80
2	IYZ	iShares US Telecommunications ETF	Telecommunications	North America	0.42	4.61	6.44	58.70
3	XLC	Communication Services Select Sector SPDR Fund	Telecommunications	North America	0.10	4.30	6.08	57.00
4	VOX	Vanguard Communication Services ETF	Telecommunications	North America	0.10	4.79	6.07	55.50
5	IXP	iShares Global Comm Services ETF	Telecommunications	Global	0.43	5.82	5.20	49.80
1	IDU	iShares U.S. Utilities ETF	Utilities	North America	0.39	6.16	8.93	75.00
2	JHMU	John Hancock Multifactor Utilities ETF	Utilities	North America	0.40	5.93	5.23	52.40
3	UTES	Virtus Reaves Utilities ETF	Utilities	North America	0.49	7.34	4.81	48.00
4	JXI	iShares Global Utilities ETF	Utilities	Global	0.43	6.23	3.95	46.80
5	FUTY	Fidelity MSCI Utilities Index ETF	Utilities	North America	0.08	3.95	3.77	46.20

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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	0.57	4.62	9.10	74.00
2	EWM	iShares MSCI Malaysia ETF	Asia-Pacific	Broad Equity	0.50	3.76	7.97	68.10
3	EPHE	iShares MSCI Philippines ETF	Asia-Pacific	Broad Equity	0.57	4.86	8.01	66.00
4	EPP	iShares MSCI Pacific ex Japan ETF	Asia-Pacific	Broad Equity	0.47	4.05	7.54	65.70
5	FXI	iShares China Large-Cap ETF	Asia-Pacific	Large Cap	0.74	5.58	7.93	64.80
1	TUR	iShares MSCI Turkey ETF	Europe	Broad Equity	0.57	6.86	9.42	74.50
2	EWG	iShares MSCI Germany ETF	Europe	Broad Equity	0.50	4.62	9.02	73.60
3	EWP	iShares MSCI Spain ETF	Europe	Broad Equity	0.50	5.75	7.84	66.90
4	EPOL	iShares MSCI Poland ETF	Europe	Broad Equity	0.57	6.92	7.86	65.90
5	EWI	iShares MSCI Italy ETF	Europe	Broad Equity	0.50	5.88	7.52	65.50
1	IOO	iShares Global 100 ETF	Global	Large Cap	0.40	5.15	7.35	63.40
2	FGD	First Trust DJ Global Select Dividend Index Fund	Global	High Dividend Yield	0.57	6.02	7.02	62.70
3	SYLD	Cambria Shareholder Yield ETF	Global	Alpha-Seeking	0.59	6.24	7.22	62.60
4	PFXF	VanEck Preferred Securities ex Financials ETF	Global	Preferred Stock	0.40	3.51	7.25	62.50
5	SDIV	Global X SuperDividend ETF	Global	High Dividend Yield	0.59	6.31	7.19	62.30
1	AADR	AdvisorShares Dorsey Wright ADR ETF	Global Ex-U.S.	Broad Equity	1.10	7.46	9.61	74.20
2	TLTD	FlexShares Morningstar Developed Markets ex-US Factor Tilt Index F	Global Ex-U.S.	Broad Equity	0.39	4.70	8.20	67.20
3	TLTE	FlexShares Morningstar Emerging Markets Factor Tilt Index Fund	Global Ex-U.S.	Broad Equity	0.59	5.17	8.24	66.50
4	CWI	SPDR MSCI ACWI ex-US ETF	Global Ex-U.S.	Broad Equity	0.30	3.88	7.71	65.80
5	DNL	WisdomTree Global ex U.S. Quality Dividend Growth Fund	Global Ex-U.S.	Broad Equity	0.42	6.54	7.26	61.60
1	ECH	iShares MSCI Chile ETF	Latin America	Broad Equity	0.59	6.15	9.96	79.60
2	ILF	iShares Latin America 40 ETF	Latin America	Large Cap	0.48	5.94	9.64	77.50
3	EPU	iShares MSCI Peru ETF	Latin America	Broad Equity	0.57	6.23	9.59	74.30
4	EWW	iShares MSCI Mexico ETF	Latin America	Broad Equity	0.50	4.23	8.57	71.80
5	EWZ	iShares MSCI Brazil ETF	Latin America	Broad Equity	0.57	6.26	8.53	71.10
1	EZA	iShares MSCI South Africa ETF	Middle East & Africa	Broad Equity	0.57	6.54	7.97	65.90
2	EGPT	VanEck Egypt Index ETF	Middle East & Africa	Broad Equity	0.98	7.20	6.91	58.60
3	KSA	iShares MSCI Saudi Arabia Capped ETF	Middle East & Africa	Broad Equity	0.74	3.41	6.33	57.60
4	FLSA	Franklin FTSE Saudi Arabia ETF	Middle East & Africa	Broad Equity	0.39	4.25	6.45	54.80
5	AFK	VanEck Africa Index ETF	Middle East & Africa	Broad Equity	0.79	6.31	6.05	53.70
1	MDYG	SPDR S&P 400 Mid CapGrowth ETF	North America	Mid Cap	0.15	4.87	10.00	79.30
2	IWR	iShares Russell Mid-Cap ETF	North America	Mid Cap	0.19	4.66	9.90	79.20

3	IJT	iShares S&P Small-Cap 600 Growth ETF	North America	Small Cap	0.18	5.56	9.84	77.70
4	IJS	iShares S&P Small-Cap 600 Value ETF	North America	Small Cap	0.18	5.38	9.48	77.00
5	SCHA	Schwab US Small-Cap ETF	North America	Small Cap	0.04	4.85	9.62	76.90
1	EMIF	iShares Emerging Markets Infrastructure ETF	Emerging Markets	Theme	0.60	6.75	7.58	66.00
2	DVYE	iShares Emerging Markets Dividend ETF	Emerging Markets	High Dividend Yield	0.49	5.75	7.63	65.90
3	FEM	First Trust Emerging Markets AlphaDEX Fund	Emerging Markets	Broad Equity	0.80	6.37	7.74	65.80
4	DGS	WisdomTree Emerging Markets SmallCap Dividend Fund	Emerging Markets	Small Cap	0.58	4.95	7.43	64.00
5	PXH	Invesco FTSE RAFI Emerging Markets ETF	Emerging Markets	Broad Equity	0.50	4.98	7.31	62.90
1	EFA	iShares MSCI EAFE ETF	Developed Markets	Broad Equity	0.32	4.45	7.64	66.80
2	IDLV	Invesco S&P International Developed Low Volatility ETF	Developed Markets	Broad Equity	0.25	4.18	7.44	65.40
3	IDV	iShares International Select Dividend ETF	Developed Markets	High Dividend Yield	0.49	5.43	7.36	65.20
4	IEFA	iShares Core MSCI EAFE ETF	Developed Markets	Broad Equity	0.07	3.34	7.35	64.80
5	EFAV	iShares Edge MSCI Min Vol EAFE ETF	Developed Markets	Broad Equity	0.20	4.04	6.77	62.50

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Equity ETF Select List - Strategies



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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	SYLD	Cambria Shareholder Yield ETF	Alpha-Seeking	Global	0.59	6.24	7.22	62.60
2	FVC	First Trust Dorsey Wright Dynamic Focus 5 ETF	Alpha-Seeking	Global	0.89	4.19	7.22	61.80
3	FV	First Trust Dorsey Wright Focus 5 ETF	Alpha-Seeking	Global	0.89	5.51	6.10	57.50
4	DALI	First Trust DorseyWright DALI 1 ETF	Alpha-Seeking	Global	0.81	4.36	6.21	57.10
5	DWCR	Arrow DWA Tactical International ETF	Alpha-Seeking	Global Ex-U.S.	1.11	7.35	6.23	54.40
1	ECH	iShares MSCI Chile ETF	Broad Equity	Latin America	0.59	6.15	9.96	79.60
2	TUR	iShares MSCI Turkey ETF	Broad Equity	Europe	0.57	6.86	9.42	74.50
3	EPU	iShares MSCI Peru ETF	Broad Equity	Latin America	0.57	6.23	9.59	74.30
4	AADR	AdvisorShares Dorsey Wright ADR ETF	Broad Equity	Global Ex-U.S.	1.10	7.46	9.61	74.20
5	EWY	iShares MSCI South Korea ETF	Broad Equity	Asia-Pacific	0.57	4.62	9.10	74.00
1	QYLD	Global X Nasdaq 100 Covered Call ETF	Buywrite	North America	0.60	3.91	6.03	55.60
2	SLVO	Credit Suisse X-Links Silver Shares Covered Call ETN	Buywrite	Global	0.65	6.59	5.66	52.50
3	GLDI	Credit Suisse X-Links Gold Shares Covered Call ETN	Buywrite	Global	0.65	6.47	3.66	41.80
4	VEGA	AdvisorShares STAR Global Buy-Write ETF	Buywrite	Global	2.02	5.01	1.94	30.90
1	DVYE	iShares Emerging Markets Dividend ETF	High Dividend Yield	Emerging Markets	0.49	5.75	7.63	65.90
2	IDV	iShares International Select Dividend ETF	High Dividend Yield	Developed Markets	0.49	5.43	7.36	65.20
3	DVYA	iShares Asia/Pacific Dividend ETF	High Dividend Yield	Asia-Pacific	0.49	5.70	7.41	64.20
4	FGD	First Trust DJ Global Select Dividend Index Fund	High Dividend Yield	Global	0.57	6.02	7.02	62.70
5	SDIV	Global X SuperDividend ETF	High Dividend Yield	Global	0.59	6.31	7.19	62.30
1	MNA	IQ Merger Arbitrage ETF	Long/Short	Global	0.77	2.42	6.79	59.20
2	CLIX	ProShares Long Online/Short Stores ETF	Long/Short	North America	0.65	7.19	6.46	55.50
3	HTUS	Hull Tactical US ETF	Long/Short	North America	1.00	6.84	6.36	51.90
4	FTLS	First Trust Long/Short Equity ETF	Long/Short	Global	1.36	4.90	5.38	51.00
5	BTAL	AGFiQ U.S. Market Neutral Anti-Beta Fund	Long/Short	North America	2.53	7.00	4.88	42.80
1	PFXF	VanEck Preferred Securities ex Financials ETF	Preferred Stock	Global	0.40	3.51	7.25	62.50
2	VRP	Invesco Variable Rate Preferred ETF	Preferred Stock	North America	0.50	3.39	4.84	50.00
3	PSK	SPDR ICE Preferred Securities ETF	Preferred Stock	North America	0.45	3.64	4.55	48.70
4	PFF	iShares Preferred and Income Securities ETF	Preferred Stock	North America	0.46	3.06	4.27	47.40
5	PREF	Principal Spectrum Preferred Securities Active ETF	Preferred Stock	Global	0.55	5.87	4.48	45.90
1	EMIF	iShares Emerging Markets Infrastructure ETF	Theme	Emerging Markets	0.60	6.75	7.58	66.00
2	IFRA	iShares U.S. Infrastructure ETF	Theme	North America	0.40	4.64	6.56	62.90
3	EQRR	Proshares Equities For Rising Rates ETF	Theme	North America	0.35	6.07	6.76	61.20

4	SUSA	iShares MSCI USA ESG Select ETF	Theme	North America	0.25	5.57	6.51	60.10
5	ESGU	iShares MSCI USA ESG Optimized ETF	Theme	North America	0.15	4.06	6.24	59.00
1	ILF	iShares Latin America 40 ETF	Large Cap	Latin America	0.48	5.94	9.64	77.50
2	VONV	Vanguard Russell 1000 Value	Large Cap	North America	0.08	4.47	9.68	76.90
3	VONG	Vanguard Russell 1000 Growth ETF	Large Cap	North America	0.08	4.55	9.78	76.50
4	SPYG	SPDR Portfolio S&P 500 Growth ETF	Large Cap	North America	0.04	3.57	9.50	75.20
5	IVW	iShares S&P 500 Growth ETF	Large Cap	North America	0.18	4.89	8.48	69.70
1	MDYG	SPDR S&P 400 Mid CapGrowth ETF	Mid Cap	North America	0.15	4.87	10.00	79.30
2	IWR	iShares Russell Mid-Cap ETF	Mid Cap	North America	0.19	4.66	9.90	79.20
3	IJJ	iShares S&P Mid-Cap 400 Value ETF	Mid Cap	North America	0.18	5.65	8.99	74.60
4	IJK	iShares S&P Mid-Cap 400 Growth ETF	Mid Cap	North America	0.17	5.81	9.05	74.60
5	MDYV	SPDR S&P 400 Mid Cap Value ETF	Mid Cap	North America	0.15	4.35	8.47	71.30
1	IJT	iShares S&P Small-Cap 600 Growth ETF	Small Cap	North America	0.18	5.56	9.84	77.70
2	IJS	iShares S&P Small-Cap 600 Value ETF	Small Cap	North America	0.18	5.38	9.48	77.00
3	SCHA	Schwab US Small-Cap ETF	Small Cap	North America	0.04	4.85	9.62	76.90
4	SLY	SPDR S&P 600 Small Cap ETF	Small Cap	North America	0.15	4.69	9.13	74.30
5	VTWO	Vanguard Russell 2000 ETF	Small Cap	North America	0.10	5.04	8.55	71.30
1	DWMC	AdvisorShares Dorsey Wright Micro-Cap ETF	Micro Cap	North America	1.27	6.40	6.66	58.50
2	FDM	First Trust Dow Jones Select Microcap Index Fund	Micro Cap	North America	0.60	5.08	5.38	53.10
3	IWC	iShares Micro-Cap ETF	Micro Cap	North America	0.60	5.79	3.97	44.70

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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 ETFG® 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

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