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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 23, 2019

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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	XME	SPDR S&P Metals & Mining ETF	Basic Materials	North America	0.35%	5.98	6.67	59.20
2	GOAU	U.S. Global GO GOLD and Precious Metal Miners ETF	Basic Materials	Global	0.60%	6.31	7.40	58.40
3	GOEX	Global X Gold Explorers ETF	Basic Materials	Global	0.65%	7.65	6.96	56.40
4	SLVP	iShares MSCI Global Silver Miners ETF	Basic Materials	Global	0.39%	6.02	6.49	56.20
5	GDX	VanEck Vectors Gold Miners ETF	Basic Materials	Global	0.52%	5.26	5.97	55.20
1	XRT	SPDR S&P Retail ETF	Consumer Discretionary	North America	0.35%	6.01	7.49	62.20
2	EMTY	ProShares Decline of the Retail Store ETF	Consumer Discretionary	North America	0.65%	6.35	6.42	56.30
3	IEME	iShares Evolved U.S. Media and Entertainment ETF	Consumer Discretionary	North America	0.18%	4.87	6.97	55.80
4	PMR	Invesco Dynamic Retail ETF	Consumer Discretionary	North America	0.63%	5.52	6.14	54.80
5	IBUY	Amplify Online Retail ETF	Consumer Discretionary	Global	0.65%	6.86	6.89	54.70
1	KXI	iShares Global Consumer Staples ETF	Consumer Staples	Global	0.47%	5.58	8.93	71.20
2	CHIS	Global X MSCI China Consumer Staples ETF	Consumer Staples	Asia-Pacific	0.65%	5.70	7.56	61.80
3	PSCC	Invesco S&P SmallCap Consumer Staples ETF	Consumer Staples	North America	0.29%	4.58	6.57	60.20
4	JHMS	John Hancock Multifactor Consumer Staples ETF	Consumer Staples	North America	0.40%	3.52	6.74	57.30
5	IECS	iShares Evolved U.S. Consumer Staples ETF	Consumer Staples	North America	0.18%	2.50	6.34	54.30
1	OIH	VanEck Vectors Oil Service ETF	Energy	Global	0.35%	6.70	9.91	73.50
2	PSCE	Invesco S&P SmallCap Energy ETF	Energy	North America	0.29%	5.86	7.51	62.20
3	AMJ	JPMorgan Alerian MLP Index ETN	Energy	North America	0.85%	7.07	7.40	62.10
4	PXJ	Invesco Dynamic Oil & Gas Services ETF	Energy	North America	0.63%	6.71	7.56	61.90
5	PXI	Invesco DWA Energy Momentum ETF	Energy	North America	0.60%	7.36	7.29	61.80
1	KIE	SPDR S&P Insurance ETF	Financials	North America	0.35%	6.95	8.94	69.50
2	DFNL	Davis Select Financial ETF	Financials	Global	0.64%	5.90	7.49	59.70
3	FNCL	Fidelity MSCI Financials Index ETF	Financials	North America	0.08%	4.09	6.78	58.70
4	JHMF	John Hancock Multifactor Financials ETF	Financials	North America	0.40%	4.87	7.14	57.50
5	EUFN	iShares MSCI Europe Financials ETF	Financials	Europe	0.48%	5.30	6.79	57.40
1	IBB	iShares Nasdaq Biotechnology ETF	Health Care	North America	0.47%	5.60	9.88	71.60
2	XPH	SPDR S&P Pharmaceuticals ETF	Health Care	North America	0.35%	6.02	9.02	67.70
3	IXJ	iShares Global Healthcare ETF	Health Care	Global	0.47%	4.51	8.55	67.60
4	BBH	VanEck Vectors Biotech ETF	Health Care	Global	0.35%	6.32	8.41	65.50
5	FHLC	Fidelity MSCI Health Care Index ETF	Health Care	North America	0.08%	3.59	7.79	63.90
1	CARZ	First Trust NASDAQ Global Auto Index Fund	Industrials	Global	0.70%	5.89	7.15	60.10
2	JHMI	John Hancock Multifactor Industrials ETF	Industrials	North America	0.40%	4.47	6.43	55.90
3	HAIL	SPDR S&P Kensho Smart Mobility ETF	Industrials	Global	0.46%	6.83	6.45	55.60

4	FITE	SPDR S&P Kensho Future Security ETF	Industrials	Global	0.46%	5.91	5.95	54.50
5	FLM	First Trust Global Engineering and Construction ETF	Industrials	Global	0.70%	6.86	5.94	53.90
1	NFRA	FlexShares STOXX Global Broad Infrastructure Index Fund	Natural Resources	Global	0.47%	3.55	7.05	60.30
2	TOLZ	DJ Brookfield Global Infrastructure ETF	Natural Resources	Global	0.46%	4.07	7.07	60.00
3	FTRI	First Trust Indxx Global Natural Resources Income ETF	Natural Resources	Global	0.70%	4.37	6.43	56.30
4	PAVE	Global X U.S. Infrastructure Development ETF	Natural Resources	North America	0.47%	4.65	6.79	54.60
5	TBLU	Tortoise Water Fund	Natural Resources	North America	0.40%	5.67	6.47	54.50
1	FTXL	First Trust Nasdaq Semiconductor ETF	Technology	North America	0.60%	5.72	7.88	64.30
2	CHIK	Global X MSCI China Information Technology ETF	Technology	Asia-Pacific	0.65%	7.35	7.86	63.00
3	DTEC	ALPS Disruptive Technologies ETF	Technology	Global	0.50%	5.03	7.16	61.80
4	FDNI	First Trust Dow Jones International Internet ETF	Technology	Global Ex-U.S.	0.65%	6.56	7.49	61.60
5	EBIZ	Global X E-Commerce ETF	Technology	Global	0.68%	5.84	7.34	60.50
1	XLC	Communication Services Select Sector SPDR Fund	Telecommunications	North America	0.13%	4.89	7.72	61.90
2	EWCO	Invesco S&P 500 Equal Weight Communication Services ETF	Telecommunications	North America	0.40%	5.08	7.06	59.30
3	IYZ	iShares US Telecommunications ETF	Telecommunications	North America	0.43%	3.59	6.33	56.40
4	FCOM	Fidelity MSCI Telecommunication Services Index ETF	Telecommunications	North America	0.08%	3.44	6.31	56.30
5	XTL	SPDR S&P Telecom ETF	Telecommunications	North America	0.35%	5.54	5.33	50.90
1	CHIU	Global X MSCI China Utilities ETF	Utilities	Asia-Pacific	0.65%	5.58	7.98	63.40
2	JHMU	John Hancock Multifactor Utilities ETF	Utilities	North America	0.40%	3.99	6.91	58.10
3	FUTY	Fidelity MSCI Utilities Index ETF	Utilities	North America	0.08%	2.80	6.61	58.00
4	UTES	Virtus Reaves Utilities ETF	Utilities	North America	0.49%	5.09	6.79	55.80
5	XLU	Utilities Select Sector SPDR Fund	Utilities	North America	0.13%	3.40	4.19	47.40

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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	0.59%	5.22	9.02	69.90
2	EWM	iShares MSCI Malaysia ETF	Asia-Pacific	Broad Equity	0.47%	4.51	8.22	67.80
3	EWY	iShares MSCI South Korea ETF	Asia-Pacific	Broad Equity	0.59%	5.21	8.14	67.20
4	EWS	iShares MSCI Singapore ETF	Asia-Pacific	Broad Equity	0.47%	3.88	7.62	64.70
5	EWT	iShares MSCI Taiwan ETF	Asia-Pacific	Broad Equity	0.59%	4.92	7.67	64.30
1	TUR	iShares MSCI Turkey ETF	Europe	Broad Equity	0.59%	6.43	8.34	66.10
2	FPXE	First Trust IPOX Europe Equity Opportunities ETF	Europe	Broad Equity	0.70%	5.53	7.92	63.60
3	EWI	iShares MSCI Italy ETF	Europe	Broad Equity	0.47%	5.86	7.58	62.30
4	EWU	iShares MSCI United Kingdom ETF	Europe	Broad Equity	0.47%	4.09	7.23	61.90
5	BBEU	JPMorgan BetaBuilders Europe ETF	Europe	Broad Equity	0.09%	4.37	7.30	61.40
1	OIH	VanEck Vectors Oil Service ETF	Global	Energy	0.35%	6.70	9.91	73.50
2	KXI	iShares Global Consumer Staples ETF	Global	Consumer Staples	0.47%	5.58	8.93	71.20
3	IXJ	iShares Global Healthcare ETF	Global	Health Care	0.47%	4.51	8.55	67.60
4	BBH	VanEck Vectors Biotech ETF	Global	Health Care	0.35%	6.32	8.41	65.50
5	IRBO	iShares Robotics and Artificial Intelligence ETF	Global	Theme	0.47%	6.14	8.02	65.30
1	AADR	AdvisorShares Dorsey Wright ADR ETF	Global Ex-U.S.	Broad Equity	0.88%	7.17	10.00	72.90
2	IQDY	FlexShares International Quality Dividend Dynamic Index Fund	Global Ex-U.S.	High Dividend Yield	0.47%	4.78	7.41	62.40
3	FPXI	First Trust International Equity Opportunities ETF	Global Ex-U.S.	Alpha-Seeking	0.70%	4.27	7.43	61.90
4	GSIE	Goldman Sachs ActiveBeta International Equity ETF	Global Ex-U.S.	Broad Equity	0.25%	2.83	7.39	61.80
5	FDNI	First Trust Dow Jones International Internet ETF	Global Ex-U.S.	Technology	0.65%	6.56	7.49	61.60
1	ECH	iShares MSCI Chile ETF	Latin America	Broad Equity	0.59%	6.74	8.81	69.20
2	EWW	iShares MSCI Mexico ETF	Latin America	Broad Equity	0.47%	5.99	7.96	63.40
3	ILF	iShares Latin America 40 ETF	Latin America	Large Cap	0.48%	6.38	6.82	58.60
4	PACA	Xtrackers MSCI Latin America Pacific Alliance ETF	Latin America	Broad Equity	0.45%	7.30	7.18	56.80
5	EWZ	iShares MSCI Brazil ETF	Latin America	Broad Equity	0.59%	6.47	6.49	56.70
1	EZA	iShares MSCI South Africa ETF	Middle East & Africa	Broad Equity	0.59%	7.16	7.31	60.30
2	QAT	iShares MSCI Qatar Capped ETF	Middle East & Africa	Broad Equity	0.59%	5.32	7.13	59.30
3	UAE	iShares MSCI UAE Capped ETF	Middle East & Africa	Broad Equity	0.59%	5.29	7.14	58.20
4	ITEQ	BlueStar Israel Technology ETF	Middle East & Africa	Technology	0.75%	5.41	7.47	56.00
5	FLZA	Franklin FTSE South Africa ETF	Middle East & Africa	Broad Equity	0.19%	7.32	7.35	54.90
1	IWR	iShares Russell Mid-Cap ETF	North America	Mid Cap	0.20%	4.91	9.55	73.10
2	IBB	iShares Nasdaq Biotechnology ETF	North America	Health Care	0.47%	5.60	9.88	71.60

3	MDYV	SPDR S&P 400 Mid Cap Value ETF	North America	Mid Cap	0.15%	5.25	8.94	70.30
4	SPYG	SPDR Portfolio S&P 500 Growth ETF	North America	Large Cap	0.04%	4.43	9.12	69.90
5	SLYV	SPDR S&P 600 Small CapValue ETF	North America	Small Cap	0.15%	5.62	8.87	69.60
1	EMIF	iShares Emerging Markets Infrastructure ETF	Emerging Markets	Theme	0.75%	6.29	7.57	63.50
2	MFEM	PIMCO RAFI Dynamic Multi-Factor Emerging Markets Equity ETF	Emerging Markets	Broad Equity	0.49%	4.51	7.24	60.60
3	KMED	KraneShares Emerging Markets Healthcare Index ETF	Emerging Markets	Health Care	0.79%	7.08	7.45	60.00
4	JHEM	John Hancock Multifactor Emerging Markets ETF	Emerging Markets	Broad Equity	0.55%	6.05	7.56	59.20
5	KGRN	KraneShares MSCI China Environment Index ETF	Emerging Markets	Theme	0.79%	6.69	7.23	59.10
1	IQIN	IQ 500 International ETF	Developed Markets	Broad Equity	0.25%	4.34	7.20	60.50
2	KLDW	Knowledge Leaders Developed World ETF	Developed Markets	Broad Equity	0.75%	4.67	7.35	59.60
3	DMDV	AAM S&P Developed Markets High Dividend Value ETF	Developed Markets	Broad Equity	0.39%	6.56	7.57	58.90
4	AIQ	Global X Future Analytics Tech ETF	Developed Markets	Theme	0.68%	5.30	6.74	57.70
5	EASG	Xtrackers MSCI EAFE ESG Leaders Equity ETF	Developed Markets	Theme	0.14%	5.76	7.33	57.70

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Equity ETF Select List - Strategies



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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	FPXI	First Trust International Equity Opportunities ETF	Alpha-Seeking	Global Ex-U.S.	0.70%	4.27	7.43	61.90
2	FVL	First Trust Value Line 100 Exchange-Traded Fund	Alpha-Seeking	North America	0.70%	3.73	7.37	61.20
3	IFV	First Trust Dorsey Wright International Focus 5 ETF	Alpha-Seeking	Global Ex-U.S.	1.03%	4.38	7.19	60.90
4	DWAQ	Invesco DWA NASDAQ Momentum ETF	Alpha-Seeking	North America	0.60%	7.11	7.30	60.40
5	DBLV	AdvisorShares DoubleLine Value Equity ETF	Alpha-Seeking	North America	0.90%	6.73	7.52	60.10
1	AADR	AdvisorShares Dorsey Wright ADR ETF	Broad Equity	Global Ex-U.S.	0.88%	7.17	10.00	72.90
2	FNI	First Trust Chindia ETF	Broad Equity	Asia-Pacific	0.59%	5.22	9.02	69.90
3	ECH	iShares MSCI Chile ETF	Broad Equity	Latin America	0.59%	6.74	8.81	69.20
4	EWM	iShares MSCI Malaysia ETF	Broad Equity	Asia-Pacific	0.47%	4.51	8.22	67.80
5	EWY	iShares MSCI South Korea ETF	Broad Equity	Asia-Pacific	0.59%	5.21	8.14	67.20
1	FDVV	Fidelity Core Dividend ETF	High Dividend Yield	Global	0.29%	2.55	7.59	62.90
2	IQDY	FlexShares International Quality Dividend Dynamic Index Fund	High Dividend Yield	Global Ex-U.S.	0.47%	4.78	7.41	62.40
3	VYMI	Vanguard International High Dividend Yield ETF	High Dividend Yield	Global Ex-U.S.	0.32%	4.44	7.37	59.40
4	FDD	First Trust Stoxx European Select Dividend Index Fund	High Dividend Yield	Europe	0.57%	3.43	6.71	58.40
5	DIVC	C-Tracks Exchange-Traded Notes Miller/Howard Strategic Dividend Re	High Dividend Yield	North America	0.70%	5.95	7.06	57.90
1	CHEP	AGFiQ US Market Neutral Value Fund	Long/Short	North America	1.12%	7.36	7.18	56.90
2	MOM	AGFiQ US Market Neutral Momentum Fund	Long/Short	North America	1.88%	7.76	6.53	53.70
3	CLIX	ProShares Long Online/Short Stores ETF	Long/Short	North America	0.65%	5.99	5.60	52.40
4	FTLS	First Trust Long/Short Equity ETF	Long/Short	Global	1.59%	4.69	6.04	51.40
5	HTUS	Hull Tactical US ETF	Long/Short	North America	0.91%	4.90	5.26	49.60
1	PFXF	VanEck Vectors Preferred Securities ex Financials ETF	Preferred Stock	Global	0.41%	2.53	6.61	56.10
2	PFF	iShares US Preferred Stock ETF	Preferred Stock	North America	0.46%	3.28	6.28	55.40
3	PFFD	Global X US Preferred ETF	Preferred Stock	North America	0.23%	2.91	6.59	53.10
4	IPFF	iShares International Preferred Stock ETF	Preferred Stock	Developed Markets	0.55%	4.23	5.28	48.60
5	PSK	SPDR Wells Fargo Preferred Stock ETF	Preferred Stock	North America	0.45%	4.05	5.42	48.20
1	IRBO	iShares Robotics and Artificial Intelligence ETF	Theme	Global	0.47%	6.14	8.02	65.30
2	EMIF	iShares Emerging Markets Infrastructure ETF	Theme	Emerging Markets	0.75%	6.29	7.57	63.50
3	ACES	ALPS Clean Energy ETF	Theme	North America	0.65%	6.22	7.79	63.20
4	IFRA	iShares U.S. Infrastructure ETF	Theme	North America	0.40%	5.25	7.26	62.60
5	ARKW	ARK Web x.0 ETF	Theme	Global	0.75%	7.19	8.45	62.50
1	SPYG	SPDR Portfolio S&P 500 Growth ETF	Large Cap	North America	0.04%	4.43	9.12	69.90
2	EPS	WisdomTree U.S. Earnings 500 Fund	Large Cap	North America	0.08%	4.64	8.95	68.80

3	QQQE	Direxion NASDAQ 100 Equal Weighted Index Shares	Large Cap	North America	0.35%	4.63	7.79	65.30
4	FXI	iShares China Large-Cap ETF	Large Cap	Asia-Pacific	0.74%	5.56	8.04	64.20
5	IOO	iShares Global 100 ETF	Large Cap	Global	0.40%	5.56	7.62	63.90
1	IWR	iShares Russell Mid-Cap ETF	Mid Cap	North America	0.20%	4.91	9.55	73.10
2	MDYV	SPDR S&P 400 Mid Cap Value ETF	Mid Cap	North America	0.15%	5.25	8.94	70.30
3	MDYG	SPDR S&P 400 Mid Cap Growth ETF	Mid Cap	North America	0.15%	5.22	8.44	67.40
4	DON	WisdomTree U.S. MidCap Dividend Fund	Mid Cap	North America	0.38%	5.52	8.51	67.00
5	RNMC	Mid Cap US Equity Select ETF	Mid Cap	North America	0.60%	4.00	6.98	59.30
1	SLYV	SPDR S&P 600 Small Cap Value ETF	Small Cap	North America	0.15%	5.62	8.87	69.60
2	SLY	SPDR S&P 600 Small Cap ETF	Small Cap	North America	0.15%	5.46	8.69	68.70
3	SLYG	SPDR S&P 600 Small Cap Growth ETF	Small Cap	North America	0.15%	5.30	7.48	62.70
4	IUSS	Invesco RAFI Strategic US Small Co ETF	Small Cap	North America	0.23%	5.02	7.58	61.70
5	CSML	IQ Chaikin U.S. Small Cap ETF	Small Cap	North America	0.35%	5.11	7.45	61.30
1	DWMC	AdvisorShares Dorsey Wright Micro-Cap ETF	Micro Cap	North America	0.99%	6.47	6.97	58.10
2	FDM	First Trust Dow Jones Select Microcap Index Fund	Micro Cap	North America	0.60%	5.30	5.60	52.60
3	IWC	iShares Micro-Cap ETF	Micro Cap	North America	0.60%	5.54	3.45	40.90

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*Key

***ETF Global 10 Red Diamond Risk Rating:** An ETF Global 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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