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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.

continued on next page

Equity ETF Select List - Sectors

ETFGlobal[®]

December 9, 2019

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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	GOAU	U.S. Global GO GOLD and Precious Metal Miners ETF	Basic Materials	Global	0.60%	6.59	7.14	60.20
2	XME	SPDR S&P Metals & Mining ETF	Basic Materials	North America	0.35%	5.36	5.94	59.50
3	JHMA	John Hancock Multifactor Materials ETF	Basic Materials	North America	0.40%	4.76	6.25	58.30
4	GOEX	Global X Gold Explorers ETF	Basic Materials	Global	0.65%	7.83	6.64	57.90
5	SLVP	iShares MSCI Global Silver Miners ETF	Basic Materials	Global	0.39%	6.12	6.04	57.30
1	XRT	SPDR S&P Retail ETF	Consumer Discretionary	North America	0.35%	5.93	7.11	64.10
2	EMTY	ProShares Decline of the Retail Store ETF	Consumer Discretionary	North America	0.65%	6.26	6.09	58.60
3	PMR	Invesco Dynamic Retail ETF	Consumer Discretionary	North America	0.63%	6.00	5.97	57.20
4	XHB	SPDR S&P Homebuilders ETF	Consumer Discretionary	North America	0.35%	3.88	5.52	56.60
5	JHMC	John Hancock Multifactor Consumer Discretionary ETF	Consumer Discretionary	North America	0.40%	4.25	6.00	55.20
1	KXI	iShares Global Consumer Staples ETF	Consumer Staples	Global	0.47%	5.47	8.39	71.70
2	PSCC	Invesco S&P SmallCap Consumer Staples ETF	Consumer Staples	North America	0.29%	4.24	6.34	62.20
3	JHMS	John Hancock Multifactor Consumer Staples ETF	Consumer Staples	North America	0.40%	3.43	6.72	61.00
4	IECS	iShares Evolved U.S. Consumer Staples ETF	Consumer Staples	North America	0.18%	2.74	6.36	58.00
5	FSTA	Fidelity MSCI Consumer Staples Index ETF	Consumer Staples	North America	0.08%	2.15	5.50	56.30
1	OIH	VanEck Vectors Oil Service ETF	Energy	Global	0.35%	6.30	9.68	75.50
2	PSCE	Invesco S&P SmallCap Energy ETF	Energy	North America	0.29%	5.71	7.94	67.30
3	PXJ	Invesco Dynamic Oil & Gas Services ETF	Energy	North America	0.63%	6.60	7.22	63.20
4	PXI	Invesco DWA Energy Momentum ETF	Energy	North America	0.60%	7.23	6.71	62.30
5	BUYN	USCF SummerHaven SHPEN Index Fund	Energy	North America	0.95%	7.16	6.73	60.30
1	KIE	SPDR S&P Insurance ETF	Financials	North America	0.35%	6.48	8.42	70.40
2	DFNL	Davis Select Financial ETF	Financials	Global	0.64%	5.42	7.34	62.10
3	FNCL	Fidelity MSCI Financials Index ETF	Financials	North America	0.08%	3.57	6.45	61.00
4	EUFN	iShares MSCI Europe Financials ETF	Financials	Europe	0.48%	4.91	6.64	60.50
5	JHMF	John Hancock Multifactor Financials ETF	Financials	North America	0.40%	4.56	6.79	59.10
1	IBB	iShares Nasdaq Biotechnology ETF	Health Care	North America	0.47%	5.45	10.00	75.50
2	IXJ	iShares Global Healthcare ETF	Health Care	Global	0.47%	4.76	8.59	71.10
3	XPH	SPDR S&P Pharmaceuticals ETF	Health Care	North America	0.35%	5.86	8.48	68.40
4	BBH	VanEck Vectors Biotech ETF	Health Care	Global	0.35%	6.12	8.26	68.10
5	FHLC	Fidelity MSCI Health Care Index ETF	Health Care	North America	0.08%	3.62	7.03	63.80
1	CARZ	First Trust NASDAQ Global Auto Index Fund	Industrials	Global	0.70%	6.50	7.32	64.00
2	JHMI	John Hancock Multifactor Industrials ETF	Industrials	North America	0.40%	4.61	6.13	58.00
3	FLM	First Trust Global Engineering and Construction ETF	Industrials	Global	0.70%	7.21	6.01	57.70

4	FIDU	Fidelity MSCI Industrials Index ETF	Industrials	North America	0.08%	3.70	5.84	57.70
5	FTXR	First Trust Nasdaq Transportation ETF	Industrials	North America	0.60%	5.99	5.56	55.50
1	NFRA	FlexShares STOXX Global Broad Infrastructure Index Fund	Natural Resources	Global	0.47%	3.08	6.27	60.20
2	PAVE	Global X U.S. Infrastructure Development ETF	Natural Resources	North America	0.47%	4.85	6.74	57.60
3	FTRI	First Trust Indxx Global Natural Resources Income ETF	Natural Resources	Global	0.70%	4.26	5.90	57.00
4	TBLU	Tortoise Water Fund	Natural Resources	North America	0.40%	5.63	6.28	56.70
5	TOLZ	DJ Brookfield Global Infrastructure ETF	Natural Resources	Global	0.46%	3.19	5.33	55.00
1	FTXL	First Trust Nasdaq Semiconductor ETF	Technology	North America	0.60%	5.74	7.18	63.80
2	EBIZ	Global X E-Commerce ETF	Technology	Global	0.68%	6.27	6.86	61.40
3	DTEC	ALPS Disruptive Technologies ETF	Technology	Global	0.50%	5.30	6.40	61.30
4	FDNI	First Trust Dow Jones International Internet ETF	Technology	Global Ex-U.S.	0.65%	6.37	6.64	60.40
5	KWEB	KraneShares CSI China Internet ETF	Technology	Asia-Pacific	0.70%	6.61	6.16	58.90
1	EWCO	Invesco S&P 500 Equal Weight Communication Services ETF	Telecommunications	North America	0.40%	4.98	6.68	60.70
2	XLC	Communication Services Select Sector SPDR Fund	Telecommunications	North America	0.13%	4.56	6.45	59.50
3	FCOM	Fidelity MSCI Telecommunication Services Index ETF	Telecommunications	North America	0.08%	3.14	6.05	58.60
4	IYZ	iShares US Telecommunications ETF	Telecommunications	North America	0.43%	3.59	5.82	57.90
5	VOX	Vanguard Communication Services ETF	Telecommunications	North America	0.10%	4.60	4.36	48.00
1	JHMU	John Hancock Multifactor Utilities ETF	Utilities	North America	0.40%	3.44	5.25	53.60
2	FUTY	Fidelity MSCI Utilities Index ETF	Utilities	North America	0.08%	2.54	4.41	51.20
3	UTES	Virtus Reaves Utilities ETF	Utilities	North America	0.49%	4.79	4.84	50.00
4	JXI	iShares Global Utilities ETF	Utilities	Global	0.47%	4.21	2.87	44.90
5	XLU	Utilities Select Sector SPDR Fund	Utilities	North America	0.13%	3.10	2.70	44.60

continued on next page

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%	5.33	9.54	75.60
2	EWY	iShares MSCI South Korea ETF	Asia-Pacific	Broad Equity	0.59%	4.92	8.20	71.10
3	EWM	iShares MSCI Malaysia ETF	Asia-Pacific	Broad Equity	0.47%	4.37	7.28	66.80
4	EWT	iShares MSCI Taiwan ETF	Asia-Pacific	Broad Equity	0.59%	3.98	7.37	66.60
5	DXJ	WisdomTree Japan Hedged Equity Fund	Asia-Pacific	Broad Equity	0.48%	4.21	7.07	64.70
1	TUR	iShares MSCI Turkey ETF	Europe	Broad Equity	0.59%	6.91	8.35	69.60
2	IEUR	iShares Core MSCI Europe ETF	Europe	Broad Equity	0.09%	2.75	6.98	63.40
3	EWU	iShares MSCI United Kingdom ETF	Europe	Broad Equity	0.47%	3.59	6.66	62.90
4	EWP	iShares MSCI Spain ETF	Europe	Broad Equity	0.47%	5.38	7.09	62.90
5	EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	Europe	Small Cap	0.58%	3.54	6.97	62.70
1	OIH	VanEck Vectors Oil Service ETF	Global	Energy	0.35%	6.30	9.68	75.50
2	KXI	iShares Global Consumer Staples ETF	Global	Consumer Staples	0.47%	5.47	8.39	71.70
3	IXJ	iShares Global Healthcare ETF	Global	Health Care	0.47%	4.76	8.59	71.10
4	IOO	iShares Global 100 ETF	Global	Large Cap	0.40%	5.64	8.25	70.20
5	BBH	VanEck Vectors Biotech ETF	Global	Health Care	0.35%	6.12	8.26	68.10
1	AADR	AdvisorShares Dorsey Wright ADR ETF	Global Ex-U.S.	Broad Equity	0.88%	6.62	9.27	71.90
2	IVAL	Alpha Architect International Quantitative Value ETF	Global Ex-U.S.	Broad Equity	0.59%	5.22	7.06	62.60
3	IFV	First Trust Dorsey Wright International Focus 5 ETF	Global Ex-U.S.	Alpha-Seeking	1.03%	4.16	6.83	62.30
4	VIGI	Vanguard International Dividend Appreciation ETF	Global Ex-U.S.	Broad Equity	0.25%	3.30	7.13	62.10
5	FIDI	Fidelity International High Dividend ETF	Global Ex-U.S.	High Dividend Yield	0.39%	3.89	6.90	61.80
1	ECH	iShares MSCI Chile ETF	Latin America	Broad Equity	0.59%	6.69	8.41	70.50
2	EWW	iShares MSCI Mexico ETF	Latin America	Broad Equity	0.47%	5.69	6.42	59.60
3	ILF	iShares Latin America 40 ETF	Latin America	Large Cap	0.48%	6.05	6.23	59.50
4	EWZ	iShares MSCI Brazil ETF	Latin America	Broad Equity	0.59%	6.05	6.09	58.80
5	GXG	Global X MSCI Colombia ETF	Latin America	Broad Equity	0.61%	6.35	6.54	56.40
1	QAT	iShares MSCI Qatar Capped ETF	Middle East & Africa	Broad Equity	0.59%	5.29	7.03	62.00
2	EZA	iShares MSCI South Africa ETF	Middle East & Africa	Broad Equity	0.59%	6.66	6.40	59.50
3	UAE	iShares MSCI UAE Capped ETF	Middle East & Africa	Broad Equity	0.59%	5.24	6.77	59.50
4	IZRL	ARK Israel Innovative Technology ETF	Middle East & Africa	Technology	0.49%	6.35	6.64	55.80
5	EIS	iShares MSCI Israel ETF	Middle East & Africa	Broad Equity	0.59%	5.09	5.51	53.70
1	IWR	iShares Russell Mid-Cap ETF	North America	Mid Cap	0.20%	5.02	9.73	77.30
2	IBB	iShares Nasdaq Biotechnology ETF	North America	Health Care	0.47%	5.45	10.00	75.50

3	SLY	SPDR S&P 600 Small CapETF	North America	Small Cap	0.15%	5.50	9.05	73.80
4	EPS	WisdomTree U.S. Earnings 500 Fund	North America	Large Cap	0.08%	4.61	9.24	73.30
5	MDYG	SPDR S&P 400 Mid CapGrowth ETF	North America	Mid Cap	0.15%	5.36	8.86	72.80
1	EMIF	iShares Emerging Markets Infrastructure ETF	Emerging Markets	Theme	0.75%	6.36	6.38	60.70
2	KGRN	KraneShares MSCI China Environment Index ETF	Emerging Markets	Theme	0.79%	6.21	6.67	59.40
3	XCEM	Columbia EM Core ex-China ETF	Emerging Markets	Broad Equity	0.16%	4.96	6.92	58.50
4	KMED	KraneShares Emerging Markets Healthcare Index ETF	Emerging Markets	Health Care	0.79%	7.34	6.41	57.90
5	BICK	First Trust BICK Index Fund	Emerging Markets	Broad Equity	0.64%	5.60	5.92	57.50
1	KLDW	Knowledge Leaders Developed World ETF	Developed Markets	Broad Equity	0.75%	4.47	7.26	62.60
2	IDV	iShares International Select Dividend ETF	Developed Markets	High Dividend Yield	0.50%	4.10	6.23	60.60
3	AIQ	Global X Future Analytics Tech ETF	Developed Markets	Theme	0.68%	5.83	6.50	59.60
4	HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	Developed Markets	Large Cap	0.43%	3.71	6.18	59.30
5	AIQ	AI Powered International Equity ETF	Developed Markets	Broad Equity	0.79%	5.53	6.64	58.90

continued on next page

Equity ETF Select List - Strategies



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	Ticker	Name	Focus	Region	TER	Risk*	Reward*	Quant*
1	IFV	First Trust Dorsey Wright International Focus 5 ETF	Alpha-Seeking	Global Ex-U.S.	1.03%	4.16	6.83	62.30
2	FVL	First Trust Value Line 100 Exchange-Traded Fund	Alpha-Seeking	North America	0.70%	3.54	6.79	61.70
3	AUSF	Global X Adaptive US Factor ETF	Alpha-Seeking	North America	0.27%	3.79	6.77	61.30
4	DBLV	AdvisorShares DoubleLine Value Equity ETF	Alpha-Seeking	North America	0.90%	6.83	7.14	61.20
5	FPXI	First Trust International Equity Opportunities ETF	Alpha-Seeking	Global Ex-U.S.	0.70%	4.37	6.65	61.10
1	FNI	First Trust Chindia ETF	Broad Equity	Asia-Pacific	0.59%	5.33	9.54	75.60
2	AADR	AdvisorShares Dorsey Wright ADR ETF	Broad Equity	Global Ex-U.S.	0.88%	6.62	9.27	71.90
3	EWY	iShares MSCI South Korea ETF	Broad Equity	Asia-Pacific	0.59%	4.92	8.20	71.10
4	ECH	iShares MSCI Chile ETF	Broad Equity	Latin America	0.59%	6.69	8.41	70.50
5	TUR	iShares MSCI Turkey ETF	Broad Equity	Europe	0.59%	6.91	8.35	69.60
1	FDVV	Fidelity Core Dividend ETF	High Dividend Yield	Global	0.29%	2.00	6.90	62.90
2	FIDI	Fidelity International High Dividend ETF	High Dividend Yield	Global Ex-U.S.	0.39%	3.89	6.90	61.80
3	IQDY	FlexShares International Quality Dividend Dynamic Index Fund	High Dividend Yield	Global Ex-U.S.	0.47%	4.08	6.52	61.40
4	IDV	iShares International Select Dividend ETF	High Dividend Yield	Developed Markets	0.50%	4.10	6.23	60.60
5	IHDG	WisdomTree International Hedged Quality Dividend Growth Fund	High Dividend Yield	Global Ex-U.S.	0.58%	3.33	6.22	59.90
1	CHEP	AGFiQ US Market Neutral Value Fund	Long/Short	North America	1.12%	7.54	6.71	57.50
2	FTLS	First Trust Long/Short Equity ETF	Long/Short	Global	1.59%	4.52	5.84	54.20
3	MOM	AGFiQ US Market Neutral Momentum Fund	Long/Short	North America	1.88%	7.68	5.72	52.90
4	CLIX	ProShares Long Online/Short Stores ETF	Long/Short	North America	0.65%	6.16	4.75	52.10
5	HTUS	Hull Tactical US ETF	Long/Short	North America	0.91%	4.78	4.92	51.70
1	PFF	iShares US Preferred Stock ETF	Preferred Stock	North America	0.46%	3.18	4.89	52.70
2	PFXE	VanEck Vectors Preferred Securities ex Financials ETF	Preferred Stock	Global	0.41%	2.46	4.69	50.60
3	PFFD	Global X US Preferred ETF	Preferred Stock	North America	0.23%	2.67	5.04	49.40
4	IPFF	iShares International Preferred Stock ETF	Preferred Stock	Developed Markets	0.55%	4.54	4.58	48.50
5	PREF	Principal Spectrum Preferred Securities Active ETF	Preferred Stock	Global	0.55%	3.85	4.77	47.70
1	IRBO	iShares Robotics and Artificial Intelligence ETF	Theme	Global	0.47%	5.72	7.17	64.40
2	ESPO	VanEck Vectors Video Gaming and eSports ETF	Theme	Global	0.55%	6.30	7.28	64.40
3	SUSA	iShares MSCI USA ESG Select ETF	Theme	North America	0.25%	4.46	7.03	64.20
4	NLR	VanEck Vectors Uranium+Nuclear Energy ETF	Theme	Global	0.60%	6.64	7.14	63.20
5	ACES	ALPS Clean Energy ETF	Theme	North America	0.65%	6.08	7.03	62.80
1	EPS	WisdomTree U.S. Earnings 500 Fund	Large Cap	North America	0.08%	4.61	9.24	73.30
2	IOO	iShares Global 100 ETF	Large Cap	Global	0.40%	5.64	8.25	70.20

3	SPYG	SPDR Portfolio S&P 500 Growth ETF	Large Cap	North America	0.04%	4.37	8.44	70.10
4	QQQE	Direxion NASDAQ 100 Equal Weighted Index Shares	Large Cap	North America	0.35%	4.39	7.18	65.80
5	FXI	iShares China Large-Cap ETF	Large Cap	Asia-Pacific	0.74%	5.30	7.28	64.10
1	IWR	iShares Russell Mid-Cap ETF	Mid Cap	North America	0.20%	5.02	9.73	77.30
2	MDYG	SPDR S&P 400 Mid CapGrowth ETF	Mid Cap	North America	0.15%	5.36	8.86	72.80
3	MDYV	SPDR S&P 400 Mid Cap Value ETF	Mid Cap	North America	0.15%	4.93	8.70	72.40
4	DON	WisdomTree U.S. MidCap Dividend Fund	Mid Cap	North America	0.38%	5.37	7.65	66.20
5	SPMD	SPDR Portfolio Mid Cap ETF	Mid Cap	North America	0.05%	3.63	6.49	61.20
1	SLY	SPDR S&P 600 Small CapETF	Small Cap	North America	0.15%	5.50	9.05	73.80
2	SLYV	SPDR S&P 600 Small CapValue ETF	Small Cap	North America	0.15%	5.52	8.62	71.70
3	SLYG	SPDR S&P 600 Small Cap Growth ETF	Small Cap	North America	0.15%	5.47	7.25	65.20
4	IUSS	Invesco RAFI Strategic US Small Co ETF	Small Cap	North America	0.23%	5.21	7.48	64.30
5	CSML	IQ Chaikin U.S. Small Cap ETF	Small Cap	North America	0.35%	5.13	7.23	63.60
1	DWMC	AdvisorShares Dorsey Wright Micro-Cap ETF	Micro Cap	North America	0.99%	7.35	7.20	62.30
2	FDM	First Trust Dow Jones Select Microcap Index Fund	Micro Cap	North America	0.60%	5.08	4.88	53.00
3	IWC	iShares Micro-Cap ETF	Micro Cap	North America	0.60%	5.87	3.31	44.20

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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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