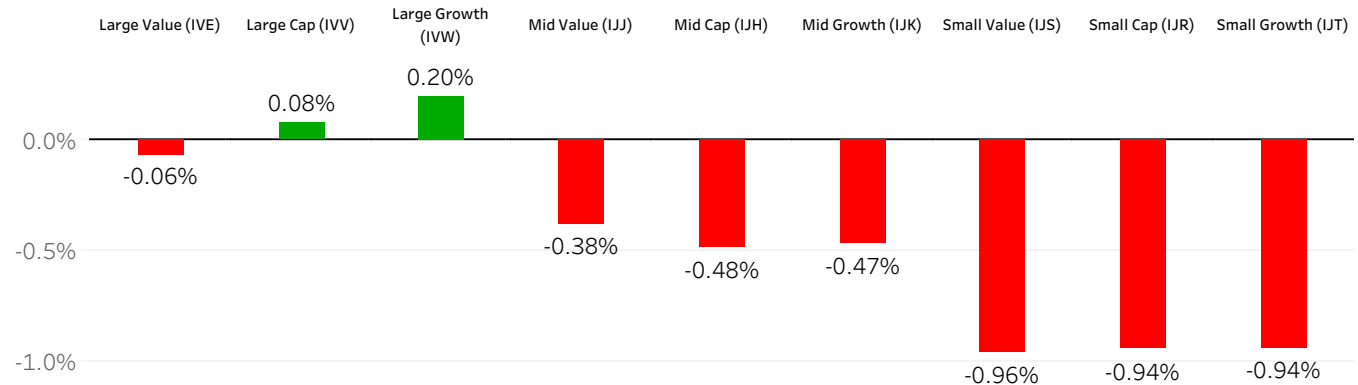


Large Cap Blend (S&P 500) IVV



U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Size & Style 1-Day Performance Leaders

| Ticker | Fund                                 | Performance |
|--------|--------------------------------------|-------------|
| LCG    | Sterling Capital Focus Equity ETF    | 3.55%       |
| NUMG   | Nuveen ESG Mid-Cap Growth ETF        | 0.69%       |
| NULG   | Nuveen ESG Large-Cap Growth ETF      | 0.66%       |
| SPMO   | Invesco S&P 500 Momentum ETF         | 0.64%       |
| MGK    | Vanguard Mega Cap Growth ETF         | 0.44%       |
| IWY    | iShares Russell Top 200 Growth ETF   | 0.43%       |
| WINN   | Harbor Long-Term Growers ETF         | 0.42%       |
| MTUM   | iShares MSCI USA Momentum Factor ETF | 0.42%       |
| VONG   | Vanguard Russell 1000 Growth ETF     | 0.42%       |
| IWF    | iShares Russell 1000 Growth ETF      | 0.41%       |

Size & Style Most Overbought

| Ticker | Fund                                 | Value |
|--------|--------------------------------------|-------|
| PWB    | Invesco Large Cap Growth ETF         | 67.06 |
| MBCC   | Monarch Blue Chips Core ETF          | 66.16 |
| WINN   | Harbor Long-Term Growers ETF         | 64.82 |
| MTUM   | iShares MSCI USA Momentum Factor ETF | 64.45 |
| MGK    | Vanguard Mega Cap Growth ETF         | 64.37 |
| IWY    | iShares Russell Top 200 Growth ETF   | 64.24 |
| IWF    | iShares Russell 1000 Growth ETF      | 63.66 |
| VONG   | Vanguard Russell 1000 Growth ETF     | 63.65 |
| NULG   | Nuveen ESG Large-Cap Growth ETF      | 63.62 |
| TMFC   | Motley Fool 100 Index ETF            | 63.59 |

Small Cap Blend (S&P 600) IJR



Size & Style 1-Day Performance Laggards

| Ticker | Fund   | Performance |
|--------|--|-------------|
| IPO    | Renaissance IPO ETF                                      | -1.69%      |
| JSML   | Janus Henderson Small Cap Growth Alpha ETF               | -1.59%      |
| SMDV   | ProShares Russell 2000 Dividend Growers ETF              | -1.44%      |
| RYJ    | Invesco Raymond James SB-1 Equity ETF                    | -1.41%      |
| CSB    | VictoryShares US Small Cap High Dividend Volatility Wt.. | -1.39%      |
| RWJ    | Invesco S&P SmallCap 600 Revenue ETF                     | -1.35%      |
| CALF   | Pacer US Small Cap Cash Cows 100 ETF                     | -1.33%      |
| RZG    | Invesco S&P Smallcap 600 Pure Growth ETF                 | -1.31%      |
| FYT    | First Trust Small Cap Value AlphaDEX Fund                | -1.27%      |
| SVAL   | iShares US Small Cap Value Factor ETF                    | -1.20%      |

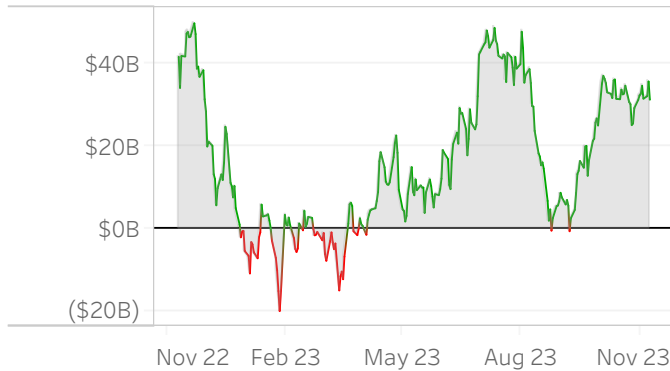
Size & Style Most Oversold

| Ticker | Fund  | Value |
|--------|---|-------|
| LSAT   | Leadershares Alphafactor Tactical Focused ETF       | 31.37 |
| PTMC   | Pacer Trendpilot US Mid Cap ETF                     | 35.99 |
| ALTL   | Pacer Lunt Large Cap Alternator ETF                 | 39.46 |
| ONOF   | Global X Adaptive U.S. Risk Management ETF          | 43.23 |
| MGMT   | Ballast Small/Mid Cap ETF                           | 43.34 |
| TMFS   | Motley Fool Small-Cap Growth ETF                    | 43.43 |
| CSF    | VictoryShares US Discovery Enhanced Volatility Wt.. | 43.86 |
| HDV    | iShares Core High Dividend ETF                      | 44.27 |
| TPLE   | Timothy Plan Us Large/Mid Cap Core Enhanced ETF     | 44.57 |
| CDC    | VictoryShares US EQ Income Enhanced Volatility Wt.. | 45.14 |

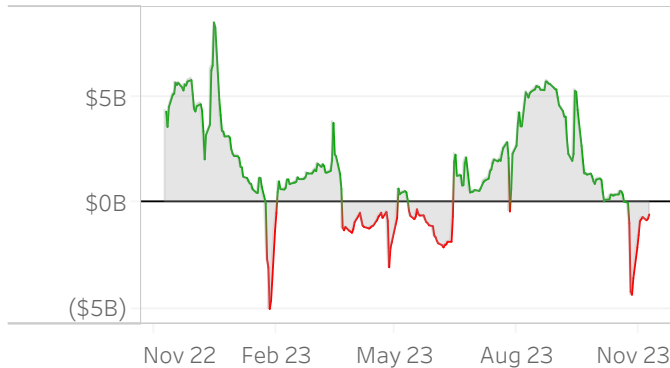
■ Closing Price ■ 50 Day Moving Average ■ 200 Day Moving Average

\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

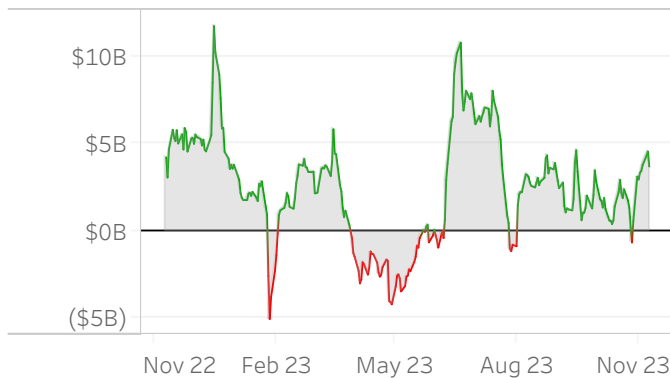
Large-Cap 30-Day Rolling Flows



Mid-Cap 30-Day Rolling Flows



Small-Cap 30-Day Rolling Flows



U.S. Size & Style Landscape Flows

|                               | Funds | AUM      | 1 Week    | 3 Month   | 6 Month   | 1 Year    |
|-------------------------------|-------|----------|-----------|-----------|-----------|-----------|
| Large Cap, Beta, Beta         | 26    | \$1,471B | \$5.27B   | \$38.79B  | \$81.24B  | \$78.21B  |
| Large Cap, Beta, Beta: Growth | 10    | \$289B   | \$1.48B   | \$9.65B   | \$11.57B  | \$18.60B  |
| Large Cap, Beta, Beta: Value  | 11    | \$216B   | \$0.45B   | \$1.20B   | (\$1.99B) | (\$7.16B) |
| Mid Cap, Beta, Beta           | 10    | \$186B   | \$0.02B   | \$1.32B   | \$6.23B   | \$9.73B   |
| Mid Cap, Beta, Beta: Growth   | 6     | \$34B    | \$0.22B   | \$0.02B   | \$0.70B   | \$0.66B   |
| Mid Cap, Beta, Beta: Value    | 6     | \$36B    | (\$0.05B) | (\$0.96B) | (\$1.78B) | (\$2.30B) |
| Small Cap, Beta, Beta         | 11    | \$190B   | \$1.61B   | \$3.00B   | \$11.16B  | \$11.03B  |
| Small Cap, Beta, Beta: Growth | 7     | \$31B    | \$0.33B   | \$0.59B   | \$1.00B   | \$1.20B   |
| Small Cap, Beta, Beta: Value  | 7     | \$46B    | (\$0.03B) | (\$0.67B) | (\$1.22B) | (\$1.28B) |

U.S. Size & Style Flow Leaders

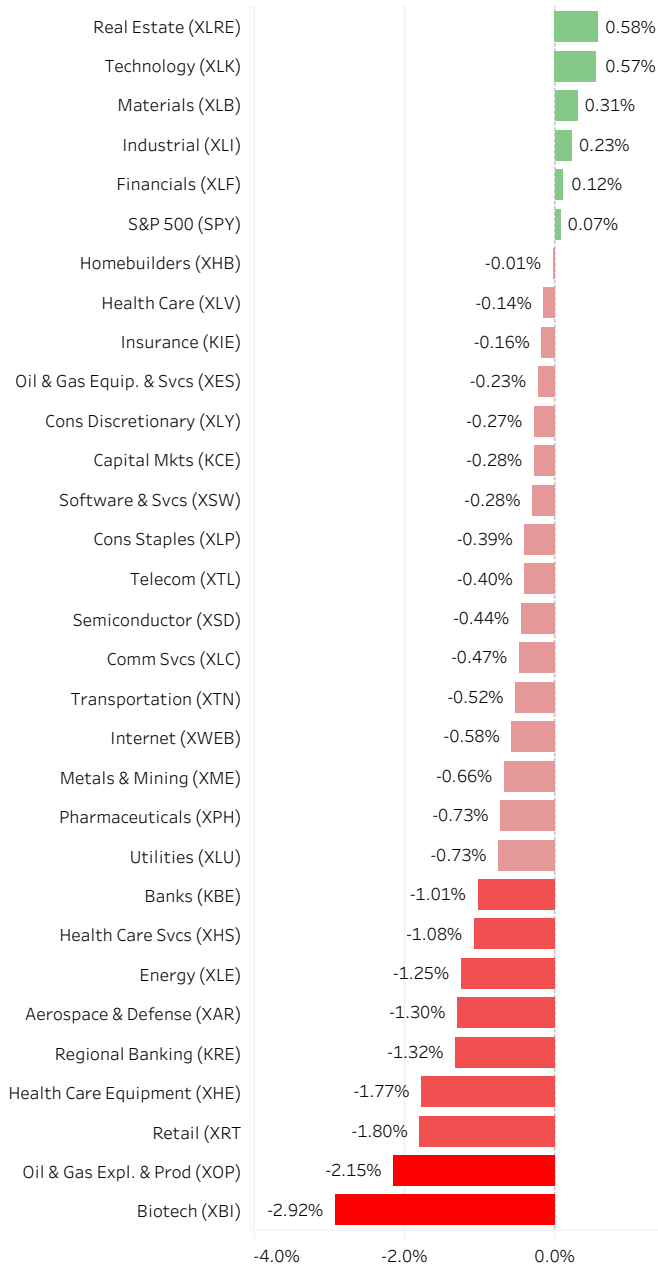
| Ticker | Fund  | 1 Week  | 3 Month   | 6 Month   | 1 Year    | AUM       |
|--------|---|---------|-----------|-----------|-----------|-----------|
| SPY    | SPDR S&P 500 ETF Trust                      | \$2.52B | \$3.07B   | \$5.92B   | \$1.13B   | \$409.74B |
| VOO    | Vanguard S&P 500 ETF                        | \$2.08B | \$10.03B  | \$27.39B  | \$33.97B  | \$335.86B |
| IWM    | iShares Russell 2000 ETF                    | \$1.25B | \$1.15B   | \$4.27B   | \$0.63B   | \$51.11B  |
| USMV   | iShares MSCI USA Min Vol Factor ETF         | \$0.90B | (\$0.19B) | (\$0.97B) | (\$2.66B) | \$27.92B  |
| IVV    | iShares Core S&P 500 ETF                    | \$0.87B | \$16.57B  | \$30.09B  | \$24.60B  | \$357.31B |
| SPLG   | SPDR Portfolio S&P 500 ETF                  | \$0.55B | \$2.12B   | \$3.38B   | \$4.61B   | \$21.28B  |
| DIA    | SPDR Dow Jones Industrial Average ETF Trust | \$0.47B | (\$0.89B) | \$0.14B   | (\$2.12B) | \$28.58B  |
| VUG    | Vanguard Growth ETF                         | \$0.46B | \$2.08B   | \$1.69B   | \$4.27B   | \$94.32B  |
| IWY    | iShares Russell Top 200 Growth ETF          | \$0.42B | \$0.60B   | \$0.73B   | \$1.91B   | \$7.87B   |
| VTI    | Vanguard Total Stock Market ETF             | \$0.39B | \$5.06B   | \$12.13B  | \$21.07B  | \$311.61B |

U.S. Size & Style Flow Laggards

| Ticker | Fund  | 1 Week    | 3 Month   | 6 Month   | 1 Year    | AUM       |
|--------|---|-----------|-----------|-----------|-----------|-----------|
| QQQ    | Invesco QQQ Trust Series I                    | (\$1.67B) | \$1.62B   | \$5.64B   | \$2.66B   | \$206.43B |
| PKW    | Invesco Buyback Achievers ETF                 | (\$0.47B) | (\$0.41B) | \$0.05B   | (\$0.55B) | \$0.99B   |
| IVW    | iShares S&P 500 Growth ETF                    | (\$0.15B) | (\$0.17B) | \$1.54B   | \$1.13B   | \$34.35B  |
| RSP    | Invesco S&P 500 Equal Weight ETF              | (\$0.11B) | (\$1.17B) | \$7.41B   | \$8.12B   | \$39.27B  |
| XMMO   | Invesco S&P MidCap Momentum ETF               | (\$0.09B) | (\$0.08B) | (\$0.09B) | (\$0.03B) | \$1.02B   |
| SDY    | SPDR S&P Dividend ETF                         | (\$0.06B) | (\$0.89B) | (\$1.54B) | (\$1.60B) | \$19.49B  |
| IWS    | iShares Russell Mid-Cap Value ETF             | (\$0.06B) | (\$0.54B) | (\$0.66B) | (\$0.98B) | \$11.59B  |
| FVD    | First Trust Value Line Dividend Index Fund    | (\$0.05B) | (\$0.84B) | (\$1.04B) | (\$1.31B) | \$10.42B  |
| ITOT   | iShares Core S&P Total U.S. Stock Market ETF  | (\$0.05B) | \$0.45B   | \$0.66B   | \$0.63B   | \$44.26B  |
| LSAT   | Leadershares Alphafactor Tactical Focused E.. | (\$0.05B) | (\$0.06B) | (\$0.06B) | (\$0.03B) | \$0.13B   |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

### S&P Sector & Industry 1 Day Performance



### Select Sector SPDRs Technicals

| Ticker | Fund Name                                      | % From 52W High | % From 52W Low | % Abv/Below 50 SMA | % Abv/Below 200 SMA | RSI (14D) |
|--------|--|-----------------|----------------|--------------------|---------------------|-----------|
| XLC    | Communication Services Select Sector SPDR Fund | -2.02%          | 44.43%         | 1.18%              | 8.03%               | 55.24     |
| XLK    | Technology Select Sector SPDR Fund             | -2.49%          | 45.05%         | 4.39%              | 9.74%               | 67.91     |
| SPY    | SPDR S&P 500 ETF Trust                         | -4.49%          | 16.09%         | 0.92%              | 2.87%               | 60.42     |
| XLI    | Industrial Select Sector SPDR Fund             | -8.52%          | 5.05%          | -0.87%             | -1.35%              | 53.48     |
| XLV    | Health Care Select Sector SPDR Fund            | -8.52%          | 4.08%          | -1.11%             | -2.14%              | 51.14     |
| XLY    | Consumer Discretionary Select Sector SPDR Fund | -8.58%          | 28.13%         | 0.04%              | 2.79%               | 58.25     |
| XLF    | Financial Select Sector SPDR Fund              | -9.00%          | 8.68%          | 0.63%              | 0.16%               | 58.60     |
| XLB    | Materials Select Sector SPDR Fund              | -10.03%         | 3.57%          | -2.03%             | -3.86%              | 49.03     |
| XLP    | Consumer Staples Select Sector SPDR Fund       | -11.28%         | 3.84%          | -0.62%             | -5.72%              | 53.95     |
| XLE    | Energy Select Sector SPDR Fund                 | -11.36%         | 8.04%          | -7.08%             | -2.34%              | 33.98     |
| XLU    | Utilities Select Sector SPDR Fund              | -16.33%         | 8.20%          | 0.19%              | -6.60%              | 54.00     |
| XLRE   | Real Estate Select Sector SPDR Fund            | -17.43%         | 7.30%          | -0.16%             | -5.95%              | 55.24     |

### Sector & Industry 1 Day Performance Leaders

| Ticker | Fund  | 1 Day Performance |
|--------|---|-------------------|
| REZ    | iShares Residential and Multisector Real Estate E.. | 1.43%             |
| INDS   | Pacer Industrial Real Estate ETF                    | 1.23%             |
| ICF    | iShares Cohen & Steers REIT ETF                     | 0.71%             |
| BBRE   | JPMorgan BetaBuilders MSCI U.S. REIT ETF            | 0.70%             |
| FRI    | First Trust S&P REIT Index Fund                     | 0.69%             |
| RWR    | SPDR Dow Jones REIT ETF                             | 0.68%             |
| IGV    | iShares Expanded Tech-Software Sector ETF           | 0.68%             |
| REM    | iShares Mortgage Real Estate ETF                    | 0.65%             |
| USRT   | iShares Core U.S. REIT ETF                          | 0.64%             |
| IETC   | iShares U.S. Tech Independence Focused ETF          | 0.62%             |

### Sector & Industry Most Overbought

| Ticker | Fund   | RSI (14D) |
|--------|--|-----------|
| XLK    | Technology Select Sector SPDR Fund             | 67.91     |
| FTEC   | Fidelity MSCI Information Technology Index ETF | 66.01     |
| VGT    | Vanguard Information Technology ETF            | 65.13     |
| IETC   | iShares U.S. Tech Independence Focused ETF     | 64.71     |
| ITB    | iShares U.S. Home Construction ETF             | 64.53     |
| PKB    | Invesco Building & Construction ETF            | 64.48     |
| ITA    | iShares U.S. Aerospace & Defense ETF           | 64.29     |
| IYW    | iShares U.S. Technology ETF                    | 64.24     |
| PNQI   | Invesco NASDAQ Internet ETF                    | 64.05     |
| XNTK   | SPDR NYSE Technology ETF                       | 63.77     |

### Sector & Industry 1 Day Performance Laggards

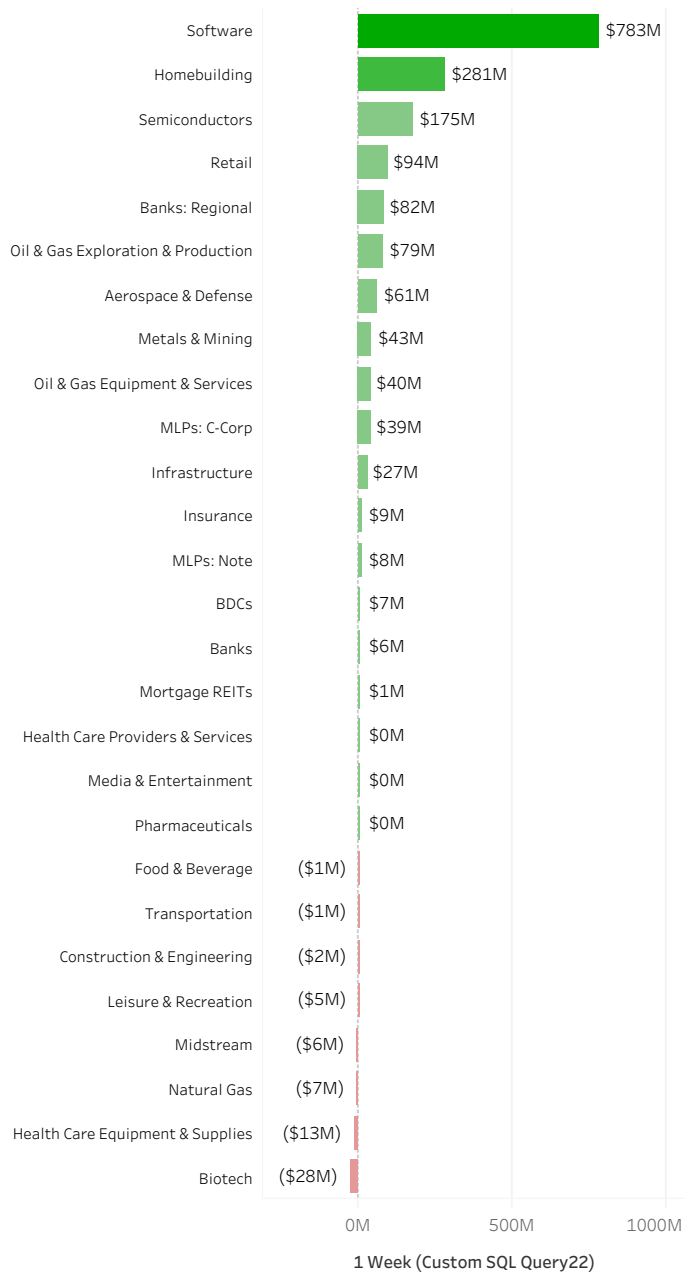
| Ticker | Fund  | 1 Day Performance |
|--------|---|-------------------|
| XBI    | SPDR S&P BIOTECH ETF                            | -2.92%            |
| PSCC   | Invesco S&P SmallCap Consumer Staples ETF       | -2.32%            |
| XOP    | SPDR S&P Oil & Gas Exploration & Production ETF | -2.15%            |
| FCG    | First Trust Natural Gas ETF                     | -2.04%            |
| PXE    | Invesco Energy Exploration & Production ETF     | -1.98%            |
| PBE    | Invesco Biotechnology & Genome ETF              | -1.96%            |
| AMLP   | Alerian MLP ETF                                 | -1.93%            |
| XRT    | SPDR S&P Retail ETF                             | -1.80%            |
| PJP    | Invesco Pharmaceuticals ETF                     | -1.79%            |
| MLPA   | Global X MLP ETF                                | -1.79%            |

### Sector & Industry Most Oversold

| Ticker | Fund  | RSI (14D) |
|--------|---|-----------|
| PSCE   | Invesco S&P SmallCap Energy ETF                 | 30.04     |
| XES    | SPDR S&P Oil & Gas Equipment & Services ETF     | 30.59     |
| IEZ    | iShares U.S. Oil Equipment & Services ETF       | 32.59     |
| PXI    | Invesco Dorsey Wright Energy Momentum ETF       | 32.77     |
| XOP    | SPDR S&P Oil & Gas Exploration & Production ETF | 33.27     |
| VDE    | Vanguard Energy ETF                             | 33.83     |
| XLE    | Energy Select Sector SPDR Fund                  | 33.98     |
| IYE    | iShares U.S. Energy ETF                         | 34.01     |
| FENY   | Fidelity MSCI Energy Index ETF                  | 34.11     |
| FCG    | First Trust Natural Gas ETF                     | 34.59     |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

## U.S. Sector & Industry 1-Week Flows



## U.S. Sector Landscape

|                        | Funds | AUM    | 1 Week   | 3 Month    | 6 Month    | 1 Year     |
|------------------------|-------|--------|----------|------------|------------|------------|
| Communication Services | 7     | \$18B  | \$198M   | (\$558M)   | \$1,099M   | \$2,311M   |
| Consumer Discretionary | 12    | \$25B  | \$173M   | (\$453M)   | \$813M     | \$955M     |
| Consumer Staples       | 10    | \$26B  | (\$507M) | (\$2,896M) | (\$3,351M) | (\$994M)   |
| Energy                 | 30    | \$72B  | \$201M   | \$3,078M   | \$226M     | (\$7,955M) |
| Financials             | 26    | \$52B  | \$596M   | (\$6,136M) | (\$3,388M) | (\$4,093M) |
| Health Care            | 23    | \$81B  | (\$177M) | (\$3,929M) | (\$5,019M) | (\$7,262M) |
| Industrial             | 13    | \$32B  | (\$235M) | (\$1,495M) | \$776M     | \$1,960M   |
| Materials              | 9     | \$11B  | (\$14M)  | (\$1,278M) | (\$2,257M) | (\$1,829M) |
| Multi-Sector           | 18    | \$17B  | \$296M   | (\$671M)   | \$2,092M   | \$1,956M   |
| Real Estate            | 25    | \$51B  | (\$188M) | (\$774M)   | (\$11M)    | (\$3,314M) |
| Technology             | 23    | \$154B | \$1,649M | \$2,841M   | \$2,832M   | \$2,843M   |
| Utilities              | 9     | \$21B  | (\$206M) | (\$1,597M) | (\$1,754M) | (\$1,698M) |

## U.S. Sector & Industry Flow Leaders

| Ticker | Fund   | 1 Week | 3 Month    | 6 Month    | 1 Year     | AUM       |
|--------|--|--------|------------|------------|------------|-----------|
| IGV    | iShares Expanded Tech-Software Sector ETF      | \$783M | \$181M     | \$584M     | \$616M     | \$6,748M  |
| XLF    | Financial Select Sector SPDR Fund              | \$661M | (\$4,003M) | (\$1,208M) | (\$1,373M) | \$29,521M |
| XLK    | Technology Select Sector SPDR Fund             | \$466M | \$210M     | \$488M     | (\$1,331M) | \$50,836M |
| SOXX   | iShares Semiconductor ETF                      | \$185M | \$249M     | \$282M     | \$508M     | \$8,710M  |
| XLC    | Communication Services Select Sector SPDR Fu.. | \$164M | (\$441M)   | \$945M     | \$2,115M   | \$13,947M |
| XHB    | SPDR S&P Homebuilders ETF                      | \$163M | (\$16M)    | \$312M     | \$222M     | \$1,323M  |
| XLY    | Consumer Discretionary Select Sector SPDR Fu.. | \$141M | \$89M      | \$683M     | \$157M     | \$16,460M |
| ITB    | iShares U.S. Home Construction ETF             | \$118M | (\$363M)   | (\$87M)    | \$225M     | \$1,941M  |
| XBI    | SPDR S&P BIOTECH ETF                           | \$98M  | \$37M      | (\$84M)    | (\$848M)   | \$5,660M  |
| VGT    | Vanguard Information Technology ETF            | \$97M  | \$204M     | (\$13M)    | (\$698M)   | \$52,219M |

## U.S. Sector & Industry Flow Laggards

| Ticker | Fund                                     | 1 Week   | 3 Month    | 6 Month    | 1 Year     | AUM       |
|--------|--|----------|------------|------------|------------|-----------|
| XLP    | Consumer Staples Select Sector SPDR Fund | (\$431M) | (\$980M)   | (\$1,303M) | \$327M     | \$15,645M |
| XLI    | Industrial Select Sector SPDR Fund       | (\$273M) | (\$1,079M) | \$694M     | \$197M     | \$13,907M |
| VNQ    | Vanguard Real Estate ETF                 | (\$176M) | (\$941M)   | (\$589M)   | (\$2,092M) | \$28,941M |
| XLU    | Utilities Select Sector SPDR Fund        | (\$157M) | (\$799M)   | (\$909M)   | (\$629M)   | \$13,592M |
| IBB    | iShares Biotechnology ETF                | (\$118M) | (\$351M)   | (\$623M)   | (\$1,280M) | \$6,657M  |
| XLV    | Health Care Select Sector SPDR Fund      | (\$102M) | (\$2,297M) | (\$2,416M) | (\$2,246M) | \$36,650M |
| KCE    | SPDR S&P Capital Markets ETF             | (\$92M)  | \$97M      | \$126M     | \$127M     | \$234M    |
| VPU    | Vanguard Utilities ETF                   | (\$43M)  | (\$337M)   | (\$101M)   | (\$233M)   | \$4,644M  |
| IYF    | iShares U.S. Financials ETF              | (\$38M)  | (\$1M)     | (\$44M)    | (\$239M)   | \$1,820M  |
| VDC    | Vanguard Consumer Staples ETF            | (\$37M)  | (\$428M)   | (\$140M)   | (\$92M)    | \$6,223M  |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Communication Services



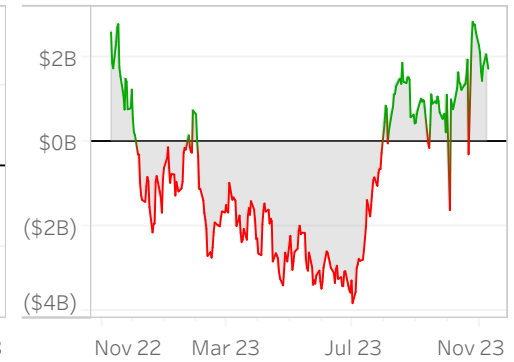
Consumer Discretionary



Consumer Staples



Energy



Financials



Industrial



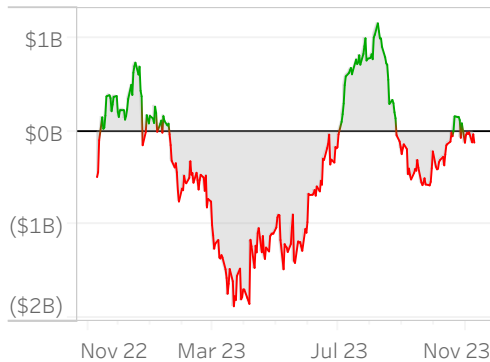
Health Care



Materials



Real Estate



Technology



Utilities

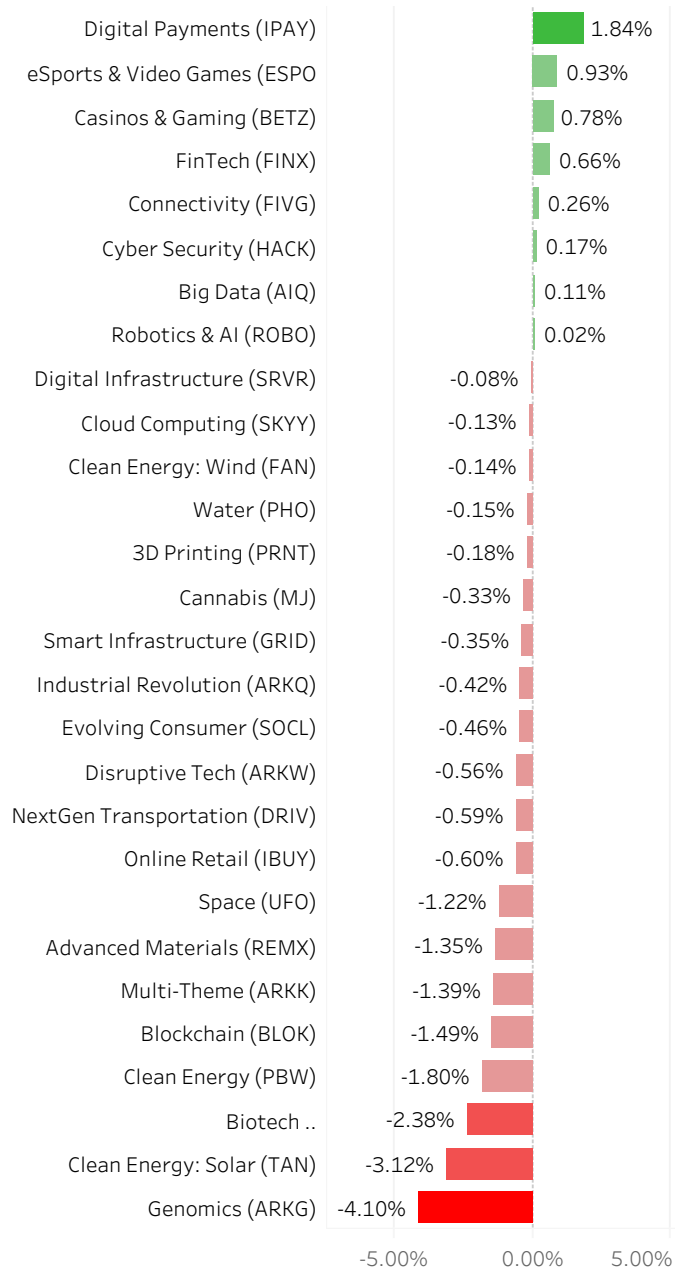


Multi-Sector

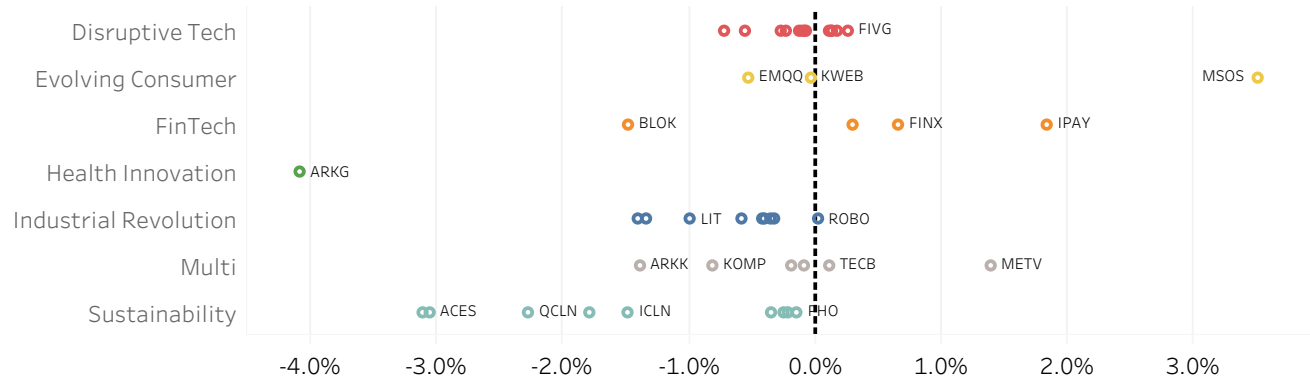


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

| Ticker | Fund                                   | Performance |
|--------|--|-------------|
| MSOS   | AdvisorShares Pure US Cannabis ETF     | 3.51%       |
| IPAY   | ETFMG Prime Mobile Payments ETF        | 1.84%       |
| HERO   | Global X Video Games & Esports ETF     | 1.77%       |
| MJUS   | ETFMG U.S. Alternative Harvest ETF     | 1.69%       |
| METV   | Roundhill Ball Metaverse ETF           | 1.39%       |
| ESPO   | VanEck Video Gaming and eSports ETF    | 0.93%       |
| BETZ   | Roundhill Sports Betting & iGaming ETF | 0.78%       |
| FINX   | Global X FinTech ETF                   | 0.66%       |
| AWAY   | ETFMG Travel Tech ETF                  | 0.41%       |
| DTEC   | ALPS Disruptive Technologies ETF       | 0.39%       |

## Thematic Most Overbought

| Ticker | Fund  | Price |
|--------|---|-------|
| METV   | Roundhill Ball Metaverse ETF                      | 67.82 |
| HERO   | Global X Video Games & Esports ETF                | 66.44 |
| ESPO   | VanEck Video Gaming and eSports ETF               | 65.42 |
| ARKW   | ARK Next Generation Internet ETF                  | 63.60 |
| AIQ    | Global X Artificial Intelligence & Technology ETF | 63.48 |
| ARKF   | ARK Fintech Innovation ETF                        | 62.63 |
| THNQ   | ROBO Global Artificial Intelligence ETF           | 61.82 |
| GBUY   | Goldman Sachs Future Consumer Equity ETF          | 61.76 |
| BLOK   | Amplify Transformational Data Sharing ETF         | 61.58 |
| MILN   | Global X Millennial Consumer ETF                  | 61.14 |

## Global Thematic 1-Day Performance Laggards

| Ticker | Fund  | Performance |
|--------|---|-------------|
| BKCH   | Global X Blockchain ETF                               | -4.79%      |
| DAPP   | VanEck Digital Transformation ETF                     | -4.23%      |
| ARKG   | ARK Genomic Revolution ETF                            | -4.10%      |
| GNOM   | Global X Genomics & Biotechnology ETF                 | -3.48%      |
| BITQ   | Bitwise Crypto Industry Innovators ETF                | -3.23%      |
| TAN    | Invesco Solar ETF                                     | -3.12%      |
| ACES   | ALPS Clean Energy ETF                                 | -3.06%      |
| BLCN   | Siren ETF Trust Siren Nasdaq NexGen Economy ETF       | -2.57%      |
| SBIO   | ALPS Medical Breakthroughs ETF                        | -2.38%      |
| QCLN   | First Trust Nasdaq Clean Edge Green Energy Index Fund | -2.28%      |

## Thematic Most Oversold

| Ticker | Fund  | Price |
|--------|---|-------|
| QCLN   | First Trust Nasdaq Clean Edge Green Energy Index Fund | 35.33 |
| REMX   | VanEck Rare Earth/Strategic Metals ETF                | 36.18 |
| ACES   | ALPS Clean Energy ETF                                 | 37.18 |
| TAN    | Invesco Solar ETF                                     | 37.53 |
| PBW    | Invesco WilderHill Clean Energy ETF                   | 37.71 |
| CTEC   | Global X CleanTech ETF                                | 38.82 |
| LIT    | Global X Lithium & Battery Tech ETF                   | 39.21 |
| ICLN   | iShares Global Clean Energy ETF                       | 40.87 |
| EDOC   | Global X Telemedicine & Digital Health ETF Registered | 41.09 |
| BATT   | Amplify Lithium & Battery Technology ETF              | 42.40 |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify



## Thematic 1 Week Flow Leaders

| Ticker | Fund   |        |
|--------|--|--------|
| ARKK   | ARK Innovation ETF   | \$165M |
| LIT    | Global X Lithium & Battery Tech ETF                          | \$38M  |
| AIQ    | Global X Artificial Intelligence & Technology ETF            | \$18M  |
| PBW    | Invesco WilderHill Clean Energy ETF                          | \$18M  |
| FMIL   | Fidelity New Millennium ETF                                  | \$15M  |
| THNQ   | ROBO Global Artificial Intelligence ETF                      | \$11M  |
| ARKG   | ARK Genomic Revolution ETF                                   | \$7M   |
| IRBO   | iShares Robotics and Artificial Intelligence Multisector ETF | \$6M   |
| KWEB   | KraneShares CSI China Internet ETF                           | \$4M   |
| BITQ   | Bitwise Crypto Industry Innovators ETF                       | \$2M   |

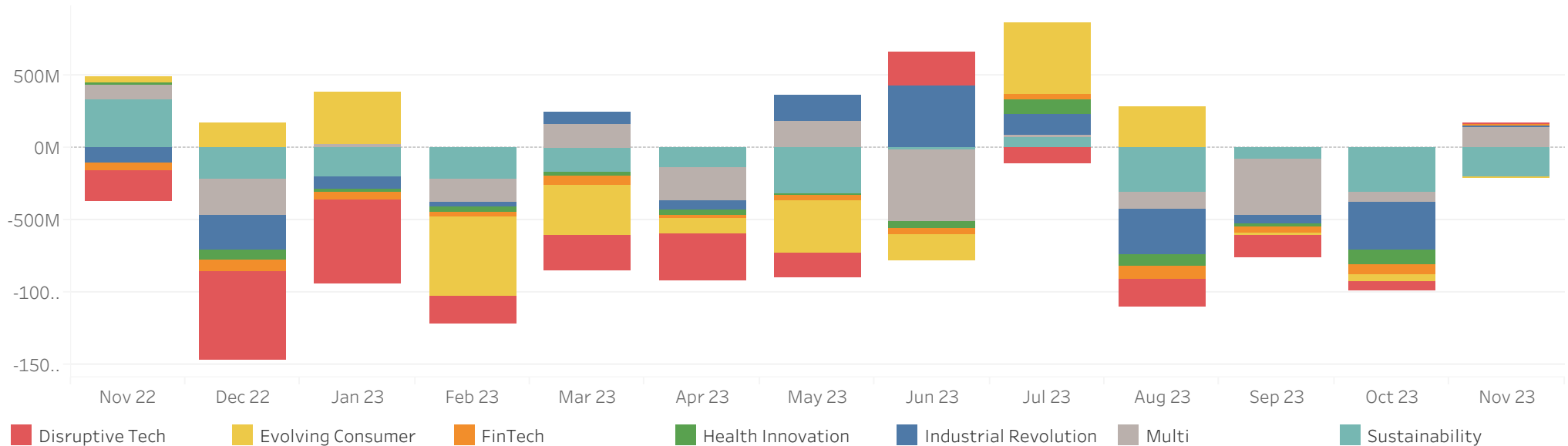
## Thematic 1 Week Flow Laggards

| Ticker | Fund  |         |
|--------|---|---------|
| GRID   | First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index | (\$62M) |
| ICLN   | iShares Global Clean Energy ETF                               | (\$31M) |
| TAN    | Invesco Solar ETF   | (\$25M) |
| BOTZ   | Global X Robotics & Artificial Intelligence ETF               | (\$15M) |
| QCLN   | First Trust Nasdaq Clean Edge Green Energy Index Fund         | (\$14M) |
| GTEK   | Goldman Sachs Future Tech Leaders Equity ETF                  | (\$12M) |
| TECB   | iShares U.S. Tech Breakthrough Multisector ETF                | (\$9M)  |
| TARK   | AXS 2X Innovation ETF   | (\$8M)  |
| FIW    | First Trust Water ETF   | (\$8M)  |
| ESPO   | VanEck Video Gaming and eSports ETF                           | (\$8M)  |

## Thematic Landscape Assets & Flows

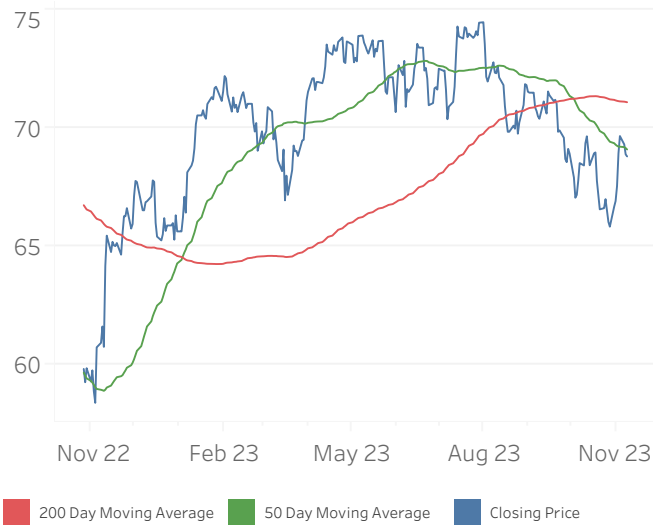
| Segment               | Funds | AUM   | 1 Week   | 3 Month    | 6 Month    | 1 Year     |
|-----------------------|-------|-------|----------|------------|------------|------------|
| Disruptive Tech       | 34    | \$16B | \$18M    | (\$376M)   | (\$372M)   | (\$2,591M) |
| Evolving Consumer     | 39    | \$8B  | (\$7M)   | (\$129M)   | \$404M     | (\$270M)   |
| FinTech               | 17    | \$2B  | \$0M     | (\$182M)   | (\$206M)   | (\$535M)   |
| Health Innovation     | 18    | \$2B  | \$2M     | (\$151M)   | (\$157M)   | (\$366M)   |
| Industrial Revolution | 30    | \$10B | \$13M    | (\$524M)   | \$124M     | (\$355M)   |
| Multi                 | 36    | \$14B | \$145M   | (\$282M)   | (\$788M)   | (\$1,108M) |
| Sustainability        | 40    | \$12B | (\$124M) | (\$767M)   | (\$1,067M) | (\$1,794M) |
| Grand Total           | 214   | \$64B | \$47M    | (\$2,411M) | (\$2,064M) | (\$7,018M) |

## Thematic Monthly Flows

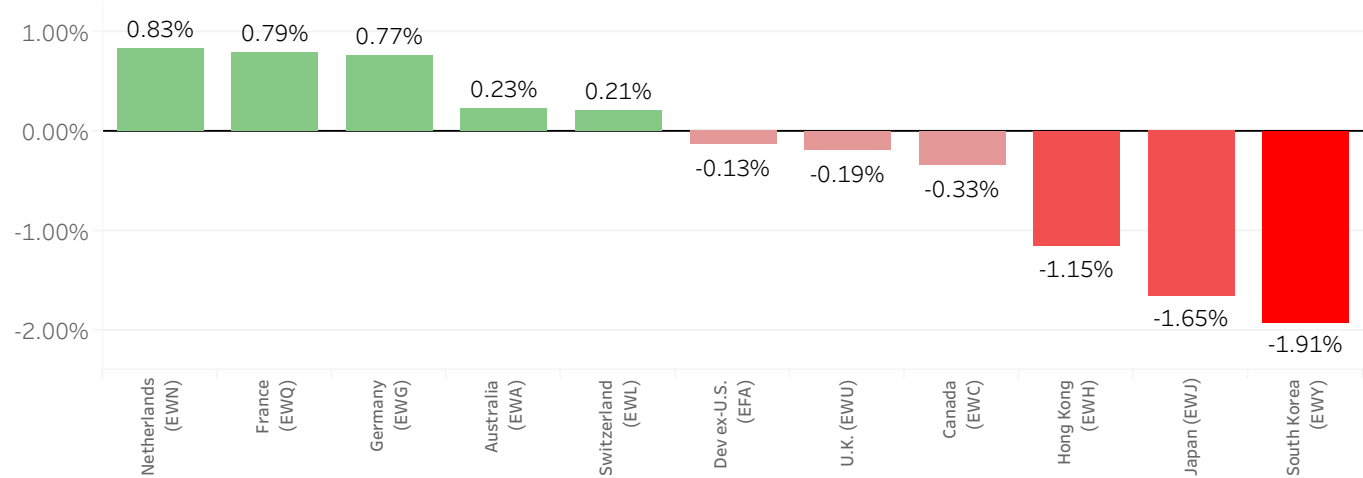


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Developed ex-U.S. (EFA)



Developed ex-U.S. 1-Day Performance Top 10 Countries



Developed ex-U.S. 30-Day Rolling Flows



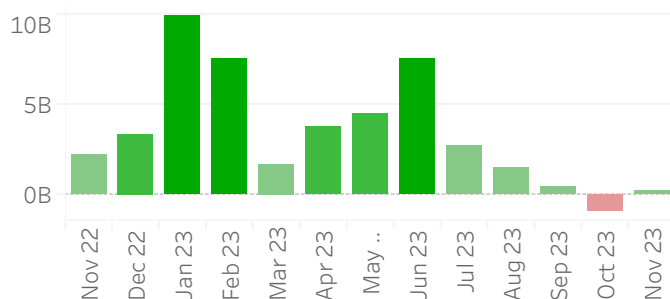
Developed ex-U.S. 1-Day Performance Leaders

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| EDEN   | iShares MSCI Denmark ETF                       | 1.54%             |
| EIRL   | iShares MSCI Ireland ETF                       | 1.32%             |
| FEZ    | SPDR EURO STOXX 50 ETF                         | 0.94%             |
| EWN    | iShares MSCI Netherlands ETF                   | 0.83%             |
| EUDG   | WisdomTree Europe Quality Dividend Growth Fund | 0.81%             |
| EWQ    | iShares MSCI France ETF                        | 0.79%             |
| EWG    | iShares MSCI Germany ETF                       | 0.77%             |
| EWP    | iShares MSCI Spain ETF                         | 0.76%             |
| NORW   | Global X MSCI Norway ETF                       | 0.74%             |
| EZU    | iShares MSCI Eurozone ETF                      | 0.73%             |

Developed ex-U.S. Most Overbought

| Ticker | Fund  | Price |
|--------|---|-------|
| BKCI   | BNY Mellon Concentrated International ETF               | 63.60 |
| GREK   | Global X MSCI Greece ETF                                | 63.47 |
| EWN    | iShares MSCI Netherlands ETF                            | 62.78 |
| EIRL   | iShares MSCI Ireland ETF                                | 61.41 |
| EWP    | iShares MSCI Spain ETF                                  | 60.09 |
| EIS    | iShares MSCI Israel ETF                                 | 60.05 |
| EWO    | iShares MSCI Austria ETF                                | 59.83 |
| TOK    | iShares MSCI Kokusai ETF                                | 59.74 |
| FEZ    | SPDR EURO STOXX 50 ETF                                  | 59.21 |
| IHDG   | WisdomTree International Hedged Quality Dividend Grow.. | 59.16 |

Developed ex-U.S. Monthly Flows



Developed ex-U.S. 1-Day Performance Laggards

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| EWJV   | iShares MSCI Japan Value ETF                 | -2.61%            |
| FJP    | First Trust Japan AlphaDEX Fund              | -2.40%            |
| DFJ    | WisdomTree Japan SmallCap Dividend Fund      | -2.13%            |
| FLKR   | Franklin FTSE South Korea ETF                | -2.06%            |
| DXJS   | WisdomTree Japan Hedged SmallCap Equity Fund | -1.96%            |
| EWY    | iShares MSCI South Korea ETF                 | -1.91%            |
| SCJ    | iShares MSCI Japan Small-Cap ETF             | -1.75%            |
| DXJ    | WisdomTree Japan SmallCap Dividend Fund      | -1.75%            |
| EWJ    | iShares MSCI Japan ETF                       | -1.65%            |
| BBJP   | JPMorgan BetaBuilders Japan ETF              | -1.62%            |

Developed ex-U.S. Most Oversold

| Ticker | Fund   | Price |
|--------|--|-------|
| ICOW   | Pacer Developed Markets International Cash Cows 1..  | 41.37 |
| FJP    | First Trust Japan AlphaDEX Fund                      | 42.70 |
| FYLD   | Cambria Foreign Shareholder Yield ETF                | 42.77 |
| NORW   | Global X MSCI Norway ETF                             | 42.88 |
| EWJV   | iShares MSCI Japan Value ETF                         | 43.89 |
| IVAL   | Alpha Architect International Quantitative Value ETF | 44.39 |
| DFIV   | Dimensional International Value ETF                  | 44.74 |
| DFJ    | WisdomTree Japan SmallCap Dividend Fund              | 44.93 |
| SCJ    | iShares MSCI Japan Small-Cap ETF                     | 45.72 |
| FDT    | First Trust Developed Markets ex-US AlphaDEX Fund    | 45.92 |

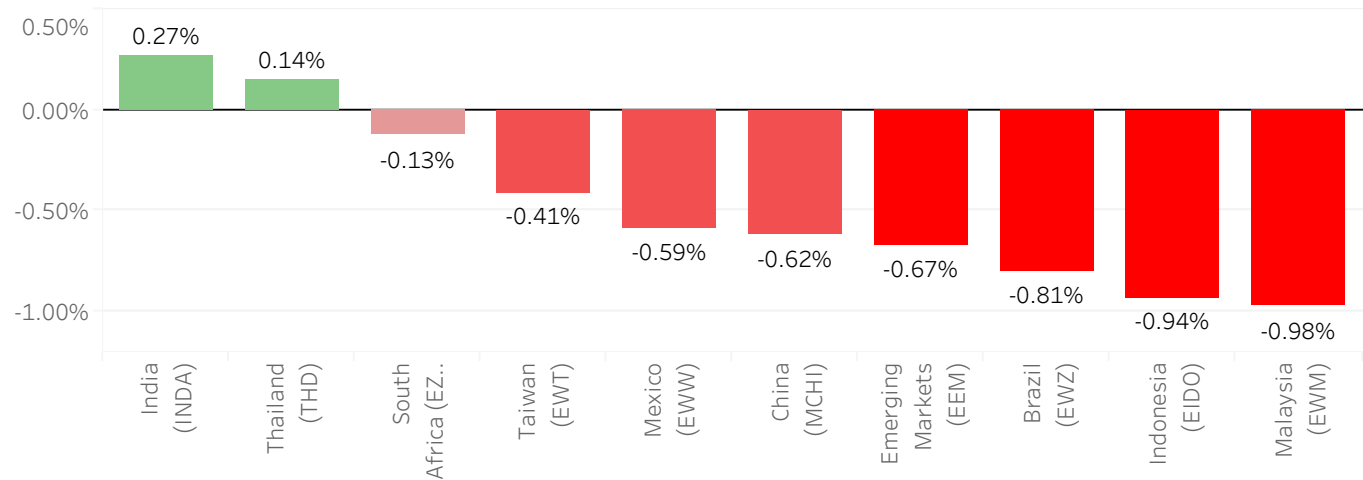
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



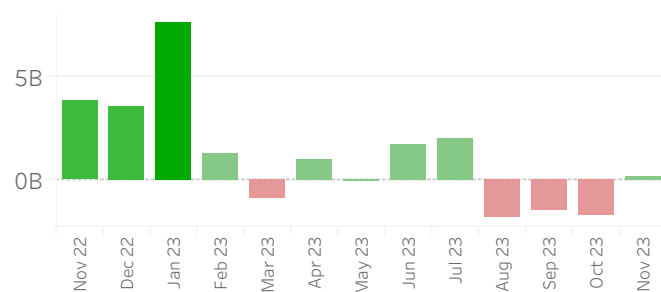
Emerging 1-Day Performance Leaders

| Ticker | Fund   | Performance |
|--------|--|-------------|
| GLIN   | VanEck India Growth Leaders ETF                      | 0.96%       |
| EPHE   | iShares MSCI Philippines ETF                         | 0.57%       |
| FLIN   | Franklin FTSE India ETF                              | 0.52%       |
| SMIN   | iShares MSCI India Small Cap ETF                     | 0.50%       |
| INDA   | iShares MSCI India ETF                               | 0.27%       |
| FEMS   | First Trust Emerging Markets Small Cap AlphaDEX Fund | 0.27%       |
| EPI    | WisdomTree India Earnings Fund                       | 0.25%       |
| NFTY   | First Trust India NIFTY 50 Equal Weight ETF          | 0.19%       |
| PIN    | Invesco India ETF                                    | 0.17%       |
| THD    | iShares MSCI Thailand ETF                            | 0.14%       |

Emerging Most Overbought

| Ticker | Fund  | Price |
|--------|---|-------|
| EPOL   | iShares MSCI Poland ETF                         | 63.70 |
| EWM    | iShares MSCI Malaysia ETF                       | 62.12 |
| FLBR   | Franklin FTSE Brazil ETF                        | 62.10 |
| EELV   | Invesco S&P Emerging Markets Low Volatility ETF | 61.96 |
| FLN    | First Trust Latin America AlphaDEX Fund         | 61.90 |
| EWZ    | iShares MSCI Brazil ETF                         | 61.87 |
| FLLA   | Franklin FTSE Latin America ETF                 | 61.80 |
| ILF    | iShares Latin America 40 ETF                    | 61.54 |
| EEMS   | iShares MSCI Emerging Markets Small Cap ETF     | 61.52 |
| EWW    | iShares MSCI Mexico ETF                         | 61.47 |

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

| Ticker | Fund  | Performance |
|--------|---|-------------|
| ECH    | iShares MSCI Chile ETF                              | -2.04%      |
| EWZS   | iShares MSCI Brazil Small-Cap ETF                   | -1.54%      |
| FLN    | First Trust Latin America AlphaDEX Fund             | -1.19%      |
| ILF    | iShares Latin America 40 ETF                        | -1.02%      |
| EWM    | iShares MSCI Malaysia ETF                           | -0.98%      |
| QAT    | iShares MSCI Qatar ETF                              | -0.97%      |
| EIDO   | iShares MSCI Indonesia ETF                          | -0.94%      |
| HEEM   | iShares Currency Hedged MSCI Emerging Markets ETF   | -0.92%      |
| DEHP   | Dimensional Emerging Markets High Profitability ETF | -0.91%      |
| FRDM   | Freedom 100 Emerging Markets ETF                    | -0.91%      |

Emerging Most Oversold

| Ticker | Fund   | Price |
|--------|--|-------|
| EPU    | iShares MSCI Peru and Global Exposure ETF          | 44.48 |
| KWT    | iShares MSCI Kuwait ETF                            | 45.15 |
| RAYC   | Rayliant Quantamental China Equity ETF             | 46.18 |
| ARGT   | Global X MSCI Argentina ETF                        | 46.42 |
| TUR    | iShares MSCI Turkey ETF                            | 46.83 |
| EIDO   | iShares MSCI Indonesia ETF                         | 47.45 |
| KBA    | KraneShares Boser MSCI China A 50 Connect Index .. | 48.05 |
| PGJ    | Invesco Golden Dragon China ETF                    | 48.79 |
| INDY   | iShares India 50 ETF                               | 49.84 |
| ECH    | iShares MSCI Chile ETF                             | 49.85 |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Fixed Income (AGG)



Commodities (DJP)



Currencies (UUP)



■ 200 Day Moving Average 
 ■ 50 Day Moving Average 
 ■ Closing Price

Fixed Income Performance

| Ticker | Name                          | 1 Day  | 1 Month | YTD    |
|--------|-------------------------------|--------|---------|--------|
| AGG    | U.S. Aggregate                | 0.34%  | 2.22%   | 0.06%  |
| SHY    | 1-3 Year Treasury Bonds       | -0.02% | 0.64%   | 2.33%  |
| IEF    | 7-10 Year Treasury Bonds      | 0.40%  | 2.41%   | -1.64% |
| TLT    | 20+ Year Treasury Bonds       | 1.70%  | 5.98%   | -7.50% |
| TIP    | TIPS Bonds                    | 0.22%  | 2.76%   | 0.66%  |
| FLOT   | Floating Rate Bonds           | 0.02%  | 0.40%   | 5.46%  |
| LQD    | Investment Grade Corporate    | 0.51%  | 3.09%   | 0.80%  |
| HYG    | High Yield Corporate          | 0.05%  | 2.56%   | 5.87%  |
| BKLN   | Senior Loan                   | 0.14%  | 1.25%   | 10.05% |
| PFF    | Preferred & Income Securities | 0.07%  | 3.68%   | 2.96%  |
| MUB    | Municipal Bonds               | 0.46%  | 2.34%   | 0.48%  |
| MBB    | MBS                           | 0.30%  | 2.47%   | -1.03% |
| EMB    | Dollar Denominated EM Bonds   | 0.19%  | 3.59%   | 2.60%  |
| LEMB   | Local Currency EM Bond        | -0.27% | 3.08%   | 1.71%  |

Commodities Performance

| Ticker | Name                    | 1 Day  | 1 Month | YTD     |
|--------|-------------------------|--------|---------|---------|
| DJP    | Broad Commodities       | -1.01% | 0.35%   | -6.56%  |
| DBE    | Energy                  | -1.85% | -2.07%  | -6.22%  |
| USO    | WTI Crude Oil           | -2.24% | -5.35%  | 0.11%   |
| BNO    | Brent Crude Oil         | -2.38% | -3.81%  | -0.04%  |
| UNG    | Natural Gas             | -1.06% | -15.50% | -53.62% |
| UGA    | Gasoline                | -1.46% | -1.52%  | 1.32%   |
| DBP    | Precious Metals         | -0.88% | 6.31%   | 3.40%   |
| GLD    | Gold                    | -1.00% | 6.52%   | 6.56%   |
| SLV    | Silver                  | -0.39% | 4.66%   | -6.22%  |
| PPLT   | abrdn Physical Platin.. | -2.69% | -1.15%  | -19.22% |
| PALL   | abrdn Physical Palla..  | -0.42% | -8.89%  | -41.15% |
| DBB    | Base Metals             | -0.17% | 2.17%   | -3.51%  |
| CPER   | Copper                  | -1.31% | 0.89%   | -1.91%  |
| DBA    | Agriculture             | 0.45%  | 3.15%   | 10.47%  |
| CORN   | Corn                    | 0.73%  | -2.68%  | -17.82% |
| SOYB   | Soybeans                | -0.01% | 5.40%   | -0.47%  |
| WEAT   | Wheat                   | 2.60%  | 2.07%   | -25.94% |
| CANE   | Sugar                   | -1.38% | 1.28%   | 57.92%  |

Currencies Performance

| Ticker | Name                   | 1 Day  | 1 Month | YTD     |
|--------|------------------------|--------|---------|---------|
| UUP    | Long Dollar            | -0.03% | -0.03%  | 6.90%   |
| UDN    | Short Dollar           | -0.11% | 0.76%   | 0.22%   |
| FXE    | Euro                   | 0.14%  | 1.32%   | 1.38%   |
| FXB    | British Pound Sterling | -0.19% | 0.58%   | 4.10%   |
| FXF    | Swiss Franc            | 0.13%  | 1.13%   | 2.53%   |
| FXJ    | Japanese Yen           | -0.44% | -1.24%  | -13.56% |
| FXC    | Canadian Dollar        | -0.21% | -0.72%  | -0.08%  |
| FXA    | Australian Dollar      | -0.47% | 0.32%   | -5.10%  |

\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

*Disclaimer of Warranties*

Except for the express warranties set forth in the terms of service, all services, including all ETF Action materials, are provided on an “as is,” “where is” basis, and ETF Action and its licensors disclaim all representations or warranties, express or implied as to the services. ETF Action and its licensors specifically disclaim all implied warranties of merchantability, fitness for a particular purpose, title and non-infringement, and all warranties arising from course of dealing, usage or trade practice. Without limiting the foregoing, ETF Action and its licensors make no warranty of any kind that the services or ETF Action materials, or any products or results of the use thereof, will meet customer’s or any other person’s requirements, operate without interruption, achieve any intended result, be compatible or work with any software, system or other services, or be secure, accurate, complete, timely, free of harmful code or error free. All third-party materials are provided “as is” and any representation or warranty of or concerning any third-party materials is strictly between customer and the third-party owner or distributor of the third-party materials.

*Additional Disclaimers*

The services are not intended and should not be construed as financial or investment advice, a recommendation or promotion. Neither ETF Action nor its licensors shall be responsible for investment decisions, damages, or other losses *resulting from use of the services*. *Past performance* does not guarantee future performance. Neither ETF Action nor its licensors shall be considered an “expert” under the securities act of 1933. Neither ETF Action nor its licensors warrant that the services comply with the requirements of the NASD or any similar organization or with the securities laws of any jurisdiction. Any information contained in the services should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Distribution prohibited without prior permission. Full terms of service, including terms of use, copyrights, and disclaimers are available at <https://www.etfaction.com/terms>.

© Copyright ETF Action, Inc. All Rights Reserved.

*Data Reliability and Definitions*

ETF Action, LLC believes the information herein to be accurate (at time of publication) and was obtained from reliable sources, but makes no guarantees with respect to its accuracy. Calculations of fundamental data are based on weighted averages of reported results and consensus estimates of current ETF constituents. Valuation data (price/earnings, price/sales, price/cash flow, price/book value) are calculated using per share data divided by current NAV of corresponding ETF. Performance, risk and technical data (moving averages, relative performance, RSI) calculated for specified periods using ETF market price which may differ from net asset value (NAV).

ETF Action Sector Beta Composites represent ETFs that meet stringent criteria surrounding index methodology, liquidity, assets under management, and management fee.

*Source Data & ETF Issuer Information ..*

ETF Action is an independent technology and research firm focused on helping advisors build better portfolios, create engaging experiences with their clients, and navigate the vast ETF landscape.

Contact us at:

[team@etfaction.com](mailto:team@etfaction.com)

[www.etfaction.com](http://www.etfaction.com)