

ETF Research & Strategy

February 2, 2024

# January 2024: A busy start to the year

- \$3.9 billion flowed into Canadian ETFs in January
- Equities momentum continued with an impressive \$2.9 billion haul
- Fixed Income had another \$1 billion inflow month—cash ETFs remained popular despite mild declines in yields
- Crypto-Asset ETFs suffered outflows in Canada after several new spot bitcoin ETFs launched in the U.S.

Summary: Canadian ETFs kicked off the year with a strong inflow of \$3.9 billion, led primarily by equity ETFs at \$2.8 billion, with demand concentrated into the U.S. and International regions. Fixed Income ETF inflows were strong but far behind equities at \$1 billion created, split among different categories. Cash-like or "high interest savings account" ETFs remained popular despite a mild decline in yields owing to OSFI's regulatory pronouncements on the liquidity treatment of the underlying deposits at bank treasury departments. (See our September/October flow report: Crunch Time for Cash for a discussion). Multi-Asset ETFs steadily pulled in

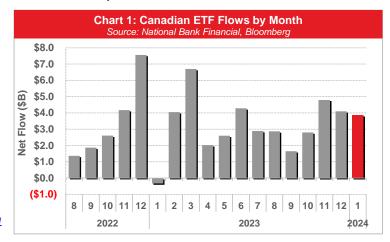
another \$370 million, primarily into asset allocation ETFs. Since spot bitcoin ETFs were introduced in the U.S. on January 11<sup>th</sup>, Canada-listed crypto-ETFs bled \$447 million combined, or 10% of their starting assets. Investors either switched to U.S. products, or they may have been waiting for the U.S.-based ETF launch news as their exit point from bitcoin.

#### Flows by Asset Class, Category and Product: (Table 1 & Tables 4 - 11)

The momentum for **Equity** carried over to this year with another \$2.8 billion in creation, widely spread across all categories except for low volatility ETFs that suffered a minor outflow of \$15 million. Broad-based U.S. Equity ETFs (VFV, ZSP, TPU, HXS, XUS, EQL), Financials Sector ETFs

(ZEB), Asset allocation all equity and growth ETFs (XEQT, VEQT, VGRO) received the highest inflows within equity. International equity (XEF, ZEA) also pulled in \$1 billion.

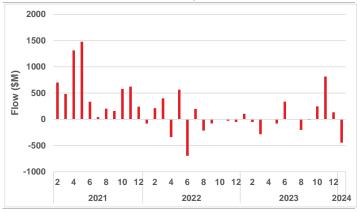
Fixed Income ETFs inflow stayed strong as well with \$1 billion in creations. Money market ETFs (CASH, PSA, CMR, ZMMK) gathered a net \$668 million despite large outflows from a single cash alternative ETFs (CSAV) near the top of the outflow leaderboard in January. Preferred share ETF (ZPR) continued to bleed assets with a small outflow of \$41 million. Target maturity ETFs (RQN, RQO, RQP) had another month of impressive haul at \$191 million, or 8.1% of their starting assets - by themselves, none of these



| Table 1 - ETF Flows by Category - Jan 2024 |                      |      |          |          |  |  |
|--|----------------------|------|----------|----------|--|--|
|  | AUM Mkt Shr Jan 2024 |      |          | 2024     |  |  |
|  | (\$M)                | (%)  | Flow \$M | Flow/AUM |  |  |
| Equity                                     | \$238,697            |      | \$2,847  | 1.2%     |  |  |
| Canada                                     | \$81,318             | 21%  | \$234    | 0.3%     |  |  |
| United States                              | \$85,419             | 22%  | \$1,520  | 1.9%     |  |  |
| International                              | \$71,961             | 19%  | \$1,093  | 1.6%     |  |  |
| Fixed Income                               | \$120,647            | 31%  | \$1,014  | 0.8%     |  |  |
| Commodities                                | \$1,561              | 0%   | -\$39    | -2.4%    |  |  |
| Multi-Asset                                | \$19,883             | 5%   | \$370    | 1.9%     |  |  |
| Inverse / Levered                          | \$3,878              | 1%   | \$111    | 2.9%     |  |  |
| Crypto-Asset                               | \$4,244              | 1%   | -\$447   | -9.7%    |  |  |
| Total                                      | \$388,910            | 100% | \$3,856  | 1.0%     |  |  |

\*Equity Flows include option strategies; Source: National Bank of Canada, Bloomberg

Chart 2: Canadian Crypto-Asset ETFs: second-largest monthly outflow since their introduction in early 2021



Source: NBF ETF Research, Bloomberg. Data as of January 31, 2024.

Daniel Straus, M.Fin., PhD | 416.869.8020 | daniel.straus@nbc.ca | Tiffany Zhang, M.Fin., M.A. | Linda Ma, CFA Associate: Shubo Yan, MMF



January 2024: A busy start to the year

February 2, 2024

ETFs made the top 20, but if the "target maturity" ETFs were one combined product, they would be in the top 10 in January.

Investors lost interest in short-term bond (XSB), choosing instead to bet on mid- and long-term bonds, given the weakness in the economy and the corresponding possibility of declines in bond yields.

Crypto-Asset ETFs (BTCC/B, BTCX/U, BTCX/B) suffered outflows of \$447 million, their second-largest month of redemptions since the category was introduced in 2021.

# Flows by Provider and New Launches (Tables 2, 3):

CI GAM (cash alternative and crypto-asset ETFs) and Mackenzie (bond ETFs) suffered large outflows, whereas Desjardins, Fidelity and Hamilton enjoyed the highest flow as a percentage of starting assets.

21 ETFs were launched in January (Table 3), marking a very busy start of the new year. Fixed income, factor, single stock and option strategies are some of the common themes.

Table 2 - ETF Flows by Provider - Jan 2024 New Methodology (adjusted for ETF-of-ETFs) AUM Mkt Shr Jan 2 Jan 2024 Jan 2024 Provider AUM (\$M) Flow (\$M) //AUN Flow (\$M **RBC** iShares \$108,928 28.0% \$38 \$116,383 \$320 0% 2 BMO \$89,474 23.0% \$1,326 2% \$99,394 \$1,410 Vanguard \$51,406 13.2% \$852 \$63,386 \$1,119 3 2% Horizons \$30,184 7.8% \$507 2% \$31,193 \$566 CI GAM \$20,679 5.3% -\$414 -2% \$20,853 -\$414 \$12,954 6 Mackenzie<sup>3</sup> \$12,686 3.3% -\$83 -1% -\$77 **TDAM** \$12,376 3.2% \$391 3% \$12,569 \$406 8 NBI \$11,075 2.8% \$20 0% \$11,076 \$20 Purpose \$9,354 2.4% \$62 1% \$9,775 \$73 \$5,944 \$98 \$5.970 \$99 10 Invesco 1.5% 2% Fidelity \$5,413 1.4% \$380 \$6,069 \$436 11 8% **Evolve Funds** \$3,427 0.9% \$34 1% \$3,484 \$33 12 13 Harvest \$3,259 0.8% \$54 2% \$3,872 \$64 Hamilton \$3,196 0.8% \$167 5% \$3,834 \$176 14 15 Manulife \$2,913 0.7% \$28 1% \$2,913 \$28 16 CIBC \$2,865 0.7% \$88 3% \$2,893 \$90 17 Dynamic \$2 729 0.7% \$15 1% \$2 729 \$15 18 **PIMCO** \$2,463 0.6% \$90 4% \$2,463 \$90 \$2 118 0.5% \$230 12% \$2.118 \$230 19 Desiardins 20 Scotia Bank \$1,566 0.4% \$3 0% \$1.566 \$3 21 Franklin Templeton \$1,425 0.4% \$3 \$1,425 0% \$3 **AGF** \$1,076 0.3% -\$9 -1% \$1,076 -\$9 22 23 Picton Mahoney 0.2% \$12 \$12 \$712 2% \$712 24 **Brompton Funds** \$616 0.2% \$18 3% \$726 \$17 Ninepoint Partners \$595 0.2% -\$5 \$595 -\$5 25 -1% 26 Middlefield \$475 0.1% -\$3 -1% \$475 -\$3 First Trust \$406 0.1% \$3 \$412 \$3 27 1% 28 **Bristol Gate** \$391 0.1% -\$12 -3% \$391 -\$12 Guardian Capital 29 \$376 0.1% \$12 3% \$377 \$13 18% 30 3iQ \$222 0.1% -\$47 \$222 -\$47 IA Clarington \$113 31 \$113 0.0% -\$16 -13% -\$16 \$94 0.0% \$9 \$94 \$9 32 Mulvihill 10% 0.0% Lysander \$84 -\$2 -2% \$84 -\$2 -\$2 34 \$72 0.0% -\$2 -2% \$72 Russell Investments 35 Accelerate \$66 0.0% \$2 3% \$71 \$2 Arrow Capital \$57 0.0% 8% \$57 \$4 36 \$4 37 Forstrong \$41 0.0% \$2 5% \$41 \$2 \$22 \$22 38 Starlight 0.0% \$0 2% \$0 39 Caldwell \$5 0.0% \$0 0% \$5 \$0 40 Tralucent \$3 0.0% \$1 55% \$3 \$1 \$388,910 Total 100.0% \$3,856 1.0% \$422,469 \$4,658

\*Includes Wealthsimple asset and flows. Source: NBF, Bloomberg.

Note: the tables below all use the adjusted flows calculation methodology (adjusted for ETF crossholdings)

| Table 3 - New Launches in Jan 2024 |        |  |         |  |
|------------------------------------|--------|--|---------|--|
|                                    | Ticker | Name   | Fee (%) |  |
| 1                                  | GBFD   | GuardBondsTM 2027 Investment Grade Bond Fund               | 0.20    |  |
| 2                                  | GBFA   | GuardBondsTM 2024 Investment Grade Bond Fund               | 0.20    |  |
| 3                                  | GBFC   | GuardBondsTM 2026 Investment Grade Bond Fund               | 0.20    |  |
| 4                                  | GBFB   | GuardBondsTM 2025 Investment Grade Bond Fund               | 0.20    |  |
| 5                                  | GBLF   | GuardBonds TM 1-3 Year Laddered Investment Grade Bond Fund | 0.20    |  |
| 6                                  | HPYM/U | Harvest Premium Yield 7-10 Year Treasury ETF               | 0.45    |  |
| 7                                  | HPYM   | Harvest Premium Yield 7-10 Year Treasury ETF               | 0.45    |  |
| 8                                  | HPYT/U | Harvest Premium Yield Treasury ETF                         | 0.45    |  |
| 9                                  | TBIL   | Harvest Canadian T-Bill ETF                                | 0.10    |  |
| 10                                 | ADIV   | Arrow EC Equity Advantage Alternative Fund                 | 0.95    |  |
| 11                                 | CMOM/B | CI US Enhanced Momentum Index ETF                          | 0.30    |  |
| 12                                 | CMOM   | CI US Enhanced Momentum Index ETF                          | 0.30    |  |
| 13                                 | CVLU/B | CI US Enhanced Value Index ETF                             | 0.30    |  |
| 14                                 | CVLU   | CI US Enhanced Value Index ETF                             | 0.30    |  |
| 15                                 | YNVD   | NVIDIA NVDA YIELD SHARES PURPOSE ETF                       | 0.40    |  |
| 16                                 | MSFY   | Microsoft Msft Yield Shares                                | 0.40    |  |
| 18                                 | UCSH/U | Horizons Usd High Interest Savings Etf                     | 0.35    |  |
| 17                                 | INAI   | Invesco Morningstar Global Next Gen Al Index ETF           | 0.14    |  |
| 19                                 | INAI/F | Invesco Morningstar Global Next Gen Al Index ETF           | 0.35    |  |
| 20                                 | IUFR/U | Invesco US Treasury Floating Rate Note Index ETF USD       | 0.12    |  |
| 21                                 | ZJAN   | BMO US Equity Buffer Hedged to CAD ETF - January           | 0.65    |  |

Source: NBF, ETF Providers





January 2024: A busy start to the year

February 2, 2024

| Tabl | е 4 - Тор | Single Long ETF Inflows - Jan 2024              |            |          |
|------|-----------|---|------------|----------|
|      | Ticker    | Name  | Flow (\$M) | Flow/AUM |
| 1    | VFV       | Vanguard S&P 500 Index ETF                      | \$517      | 5%       |
| 2    | ZEB       | BMO Equal Weight Banks Index ETF                | \$490      | 18%      |
| 3    | CASH      | Horizons High Interest Savings ETF              | \$277      | 7%       |
| 4    | DCU       | Desjardins Canadian Universe Bond Index ETF     | \$237      | 100%     |
| 5    | PSA       | Purpose High Interest Savings Fund              | \$226      | 6%       |
| 6    | XIC       | iShares Core S&P/TSX Capped Composite Index ETF | \$215      | 2%       |
| 7    | XEQT      | iShares Core Equity ETF Portfolio               | \$206      | 9%       |
| 8    | VEQT      | Vanguard All-Equity ETF Portfolio               | \$166      | 5%       |
| 9    | ZSP       | BMO S&P 500 Index ETF                           | \$128      | 1%       |
| 10   | XEF       | iShares Core MSCI EAFE IMI Index ETF            | \$118      | 3%       |
| 11   | TPU       | TD US Equity Index ETF                          | \$110      | 7%       |
| 12   | VGRO      | Vanguard Growth ETF Portfolio                   | \$97       | 2%       |
| 13   | CMR       | iShares Premium Money Market ETF                | \$95       | 15%      |
| 14   | HXS       | Horizons S&P 500 Index ETF                      | \$91       | 4%       |
| 15   | XUS       | iShares Core S&P 500 Index ETF                  | \$88       | 2%       |
| 16   | ZMMK      | BMO Money Market Fund ETF Series                | \$86       | 10%      |
| 17   | ZEA       | BMO MSCI EAFE Index ETF                         | \$83       | 1%       |
| 18   | ZAG       | BMO Aggregate Bond Index ETF                    | \$82       | 1%       |
| 19   | PMIF      | PIMCO Monthly Income Fund                       | \$79       | 4%       |
| 20   | EQL       | Invesco S&P 500 Equal Weighted Index ETF        | \$78       | 14%      |

| Carmaar | Motional  | Donk | of. | Canada  | Bloombera: |
|---------|-----------|------|-----|---------|------------|
| Source: | ivationai | Bank | Οī  | Canada, | Bioomberg, |

| Tab | le 5 - Top | Single Long ETF Outflows - Jan 2024                   |            |          |
|-----|------------|---|------------|----------|
|     | Ticker     | Name  | Flow (\$M) | Flow/AUM |
| 1   | XIU        | iShares S&P/TSX 60 Index ETF                          | -\$462     | -4%      |
| 2   | XBB        | iShares Core Canadian Universe Bond Index ETF         | -\$327     | -5%      |
| 3   | CSAV       | CI High Interest Savings ETF                          | -\$231     | -3%      |
| 4   | XCB        | iShares Core Canadian Corporat                        | -\$144     | -10%     |
| 5   | BTCC/B     | Purpose Bitcoin ETF                                   | -\$130     | -13%     |
| 6   | BTCX/U     | CI Galaxy Bitcoin ETF                                 | -\$111     | -26%     |
| 7   | BTCX/B     | CI Galaxy Bitcoin ETF                                 | -\$89      | -18%     |
| 8   | HXT        | Horizon S&P/TSX 60 Index ETF                          | -\$79      | -2%      |
| 9   | XGB        | iShares Core CanadianGovernm                          | -\$78      | -8%      |
| 10  | VCN        | Vanguard FTSE Canada All Cap Index ETF                | -\$75      | -2%      |
| 11  | CDZ        | iShares S&P/TSX Canadian Dividend Aristocrats Index E | -\$70      | -7%      |
| 12  | BTCC/U     | Purpose Bitcoin ETF                                   | -\$66      | -11%     |
| 13  | MGB        | Mackenzie Core Plus Global Fixed Income ETF           | -\$62      | -35%     |
| 14  | CBH        | iShares 1-10 Year Laddered Corporate Bond Index ETF   | -\$53      | -13%     |
| 15  | XFN        | iShares S&P/TSX Capped Financials Index ETF           | -\$53      | -4%      |
| 16  | XEG        | iShares S&P/TSX Capped Energy Index ETF               | -\$52      | -3%      |
| 17  | MKC        | Mackenzie Maximum Diversification Canada Index ETF    | -\$51      | -11%     |
| 18  | XDV        | iShares Canadian Select Dividend Index ETF            | -\$50      | -3%      |
| 19  | ZPR        | BMO Laddered Preferred Share Index ETF                | -\$47      | -3%      |
| 20  | XSB        | iShares Core Canadian Short Term Bond Index ETF       | -\$47      | -2%      |

Source: National Bank of Canada, Bloomberg;

| Table 6 - ETF Flows by Category - Jan 2024 |           |         |            |          |  |  |
|--|-----------|---------|------------|----------|--|--|
| Asset Class                                | AUM (\$M) | Mkt Shr | Flow (\$M) | Flow/AUM |  |  |
| Equity                                     | \$238,697 | 61%     | \$2,847    | 1.2%     |  |  |
| Fixed Income                               | \$120,647 | 31%     | \$1,014    | 0.8%     |  |  |
| Commodities                                | \$1,561   | 0%      | -\$39      | -2.4%    |  |  |
| Multi-Asset                                | \$19,883  | 5%      | \$370      | 1.9%     |  |  |
| Inverse / Levered                          | \$3,878   | 1%      | \$111      | 2.9%     |  |  |
| Crypto-Asset                               | \$4,244   | 1%      | -\$447     | -9.7%    |  |  |
| Total                                      | \$388,910 | 100%    | \$3,856    | 1.0%     |  |  |

\*Equity Flows include option strategies; Source: National Bank of Canada, Bloomberg

| Table 7 - Equity ETF Flow | Table 7 - Equity ETF Flows by Geography - Jan 2024 |         |            |          |  |  |  |
|---------------------------|--|---------|------------|----------|--|--|--|
| Geography                 | AUM (\$M)  | Mkt Shr | Flow (\$M) | Flow/AUM |  |  |  |
| Canada                    | \$81,318   | 34%     | \$234      | 0.3%     |  |  |  |
| United States             | \$85,419   | 36%     | \$1,520    | 1.9%     |  |  |  |
| DM: Broad                 | \$26,255   | 11%     | \$466      | 1.8%     |  |  |  |
| DM: Regional & Country    | \$8,922  | 4%      | -\$20      | -0.2%    |  |  |  |
| Emerging Markets          | \$7,656  | 3%      | \$110      | 1.4%     |  |  |  |
| Global                    | \$29,128   | 12%     | \$537      | 1.9%     |  |  |  |
| Total                     | \$238,697  | 100%    | \$2,847    | 1.2%     |  |  |  |

\*Equity Flows include option strategies; Source: National Bank of Canada, Bloomberg

| Table 8 - Equity ETF Flows by Sector* - Jan 2024 |           |         |            |          |  |  |
|--|-----------|---------|------------|----------|--|--|
| Sector   | AUM (\$M) | Mkt Shr | Flow (\$M) | Flow/AUM |  |  |
| Financials                                       | \$11,537  | 38%     | \$487      | 4.3%     |  |  |
| Technology                                       | \$4,432   | 15%     | \$49       | 1.2%     |  |  |
| Energy   | \$3,183   | 11%     | -\$35      | -1.1%    |  |  |
| Health Care                                      | \$3,057   | 10%     | \$14       | 0.5%     |  |  |
| Real Estate                                      | \$2,907   | 10%     | -\$12      | -0.4%    |  |  |
| Utilities  | \$2,583   | 9%      | \$18       | 0.7%     |  |  |
| Materials  | \$1,999   | 7%      | \$57       | 2.7%     |  |  |
| Other  | \$611     | 2%      | -\$16      | -2.9%    |  |  |
| Total  | \$30,310  | 100%    | \$562      | 1.9%     |  |  |

\*Includes all geo focuses and Covered Call Strategies; Source: NBF, Bloomberg

| Table 9 - Equity ETF Flows by Focus - Jan 2024 |           |         |            |          |  |  |
|--|-----------|---------|------------|----------|--|--|
| Focus  | AUM (\$M) | Mkt Shr | Flow (\$M) | Flow/AUM |  |  |
| Cap-weighted                                   | \$139,652 | 59%     | \$1,462    | 1.1%     |  |  |
| Dividend / Income                              | \$25,220  | 11%     | \$142      | 0.6%     |  |  |
| Factor: Low Vol                                | \$7,851   | 3%      | -\$15      | -0.2%    |  |  |
| Factor: Multi-factor                           | \$3,460   | 1%      | \$52       | 1.5%     |  |  |
| Factor: Fundamental                            | \$5,364   | 2%      | \$104      | 2.0%     |  |  |
| Sector   | \$30,310  | 13%     | \$562      | 1.9%     |  |  |
| Thematic                                       | \$17,274  | 7%      | \$136      | 0.8%     |  |  |
| ESG**  | \$12,173  | 5%      | \$143      | 1.2%     |  |  |
| Other  | \$9,567   | 4%      | \$405      | 4.5%     |  |  |
| Total  | \$238,697 | 100%    | \$2,847    | 1.2%     |  |  |

\*Equity Flows include option strategies; Source: National Bank of Canada, Bloomberg

| ** Only includes ESG ETFs under Thematic category    |           |         |            |          |  |  |
|--|-----------|---------|------------|----------|--|--|
| Table 10 - Fixed Income ETF Flows by Type - Jan 2024 |           |         |            |          |  |  |
| Туре   | AUM (\$M) | Mkt Shr | Flow (\$M) | Flow/AUM |  |  |
| Canada Aggregate                                     | \$35,258  | 29%     | \$69       | 0.2%     |  |  |
| Canada Government                                    | \$12,913  | 11%     | -\$64      | -0.5%    |  |  |
| Canada Corporate                                     | \$15,476  | 13%     | \$56       | 0.4%     |  |  |
| U.S. / North America                                 | \$9,710   | 8%      | \$208      | 2.2%     |  |  |
| Foreign  | \$11,541  | 10%     | \$61       | 0.5%     |  |  |
| Sub-Investment Grade                                 | \$3,912   | 3%      | \$55       | 1.4%     |  |  |
| Preferred/Convertible                                | \$5,956   | 5%      | -\$41      | -0.7%    |  |  |
| Money Market   | \$25,880  | 21%     | \$668      | 2.7%     |  |  |
| Total  | \$120,647 | 100%    | \$1,014    | 0.8%     |  |  |

|                         |                 | Source: Natio | nal Bank of Cana | da, Bloomberg |
|-------------------------|-----------------|---------------|------------------|---------------|
| Table 11 - Fixed Income | ETF Flows by Ma | aturity - Jan | 2024             |               |
| Maturity                | AUM (\$M)       | Mkt Shr       | Flow (\$M)       | Flow/AUM      |
| Broad/Mixed             | \$56,201        | 47%           | \$234            | 0.4%          |
| Ultra Short Term        | \$4,690         | 4%            | -\$13            | -0.3%         |
| Short Term              | \$14,963        | 12%           | -\$257           | -1.7%         |
| Mid Term                | \$6,550         | 5%            | \$60             | 0.9%          |
| Long Term               | \$8,704         | 7%            | \$189            | 2.1%          |
| Real Return             | \$1,124         | 1%            | -\$57            | -4.8%         |
| Target Maturity         | \$2,536         | 2%            | \$191            | 8.1%          |
| Money Market            | \$25,880        | 21%           | \$668            | 2.7%          |
| Total                   | \$120,647       | 100%          | \$1,014          | 0.8%          |

Source: National Bank of Canada, Bloomberg





January 2024: A busy start to the year

February 2, 2024

# ESG ETF Flows (Table 12)

Canadian ESG ETFs had \$109 million inflows in January. The creation activity mostly occurred in iShares ESG Aware suite, led by iShares ESG Aware MSCI EM Index ETF (XSEM), which was also the top ESG ETF by flow in Canada last year. On the outflow side, Mackenzie Maximum Diversification Canada Index (MKC), and BMO MSCI USA ESG Leaders Index ETF (ESGY) both had some sizable outflows in January.

| Table 12 - Canada liste | ed ESG ETF Flo | ws by Catego | ries - Jan 202 | 4        |
|-------------------------|----------------|--------------|----------------|----------|
| Category                | AUM (\$M)      | AUM (%)      | Flow (\$M)     | Flow/AUM |
| Equity                  | \$13,126       | 77%          | \$92           | 0.7%     |
| Broad - Canada          | \$3,074        | 18%          | -\$21          | -0.7%    |
| Broad - U.S.            | \$2,899        | 17%          | \$0            | 0.0%     |
| Broad - DM              | \$1,655        | 10%          | \$41           | 2.5%     |
| Broad - EM              | \$2,865        | 17%          | \$74           | 2.5%     |
| Broad - Global          | \$1,212        | 7%           | \$0            | 0.0%     |
| Environment             | \$1,124        | 7%           | \$3            | 0.3%     |
| Clean Energy            | \$116          | 1%           | -\$4           | -2.8%    |
| Social                  | \$121          | 1%           | -\$1           | -0.6%    |
| Infrastructure          | \$58           | 0%           | \$0            | -0.8%    |
| Other                   | \$3            | 0%           | \$0            | 16.5%    |
| Commodities             | \$9            | 0%           | -\$2           | -14.1%   |
| Multi-Asset             | \$205          | 1%           | \$7            | 3.4%     |
| Fixed Income            | \$3,634        | 21%          | \$12           | 0.3%     |
| Total Displayed         | \$16,973       | 100%         | \$109          | 0.6%     |

Source: National Bank of Canada, Bloomberg

Appendix 1 on the next page



January 2024: A busy start to the year

February 2, 2024

#### Appendix 1 - Glossary

**AUM (Assets Under Management):** AUM is expressed in local currency, which is the Canadian dollar for the purpose of this report.

Flow/AUM (Flow as % AUM): Net flow as a percentage of assets under management from the beginning of the period.

**Flow:** The net dollar amount of fund creations and redemptions for the period based on daily NAV and daily changes in Shares Outstanding. Flows are expressed in local currency, which is the Canadian dollar for the purpose of this report.

Market Share (%): category's AUM as % of the total AUM.

MER (Management Expense Ratio): Manager's 2022 annual fee for managing and administering the fund, expressed as a percentage of total fund value. In most cases, this includes fees from investing in other ETFs. Where audited MER is unavailable or if the fee has been significantly reduced recently, the MER is estimated using the Stated Management Fee and sales tax.

Canadian MER does not include trading commissions incurred by the ETF, nor does it include trading expenses (such as swap or forward fees). An asterisk (\*) indicates that the fund pays additional expenses such as swap or forward fees, which are normally reported under trading expenses. The asterisk can also indicate that the fund charges a performance fee. Data are sourced from annual fillings.

NAV (Net Asset Value per share): ETF price is used when NAV is not available.

All numbers are as of last month's final business day.

#### Appendix 3 - Equity ETF Categories

We group Equity ETFs into the categories below. These groupings follow NBF's discretion and can differ from the ETF Provider's definition and classification from other sources.

Cap-Weighted: A fund that weights securities based on the total or float-adjusted market capitalization of each security.

**Dividend/Income:** A fund with primary goal of providing income. We classify a fund as belonging to the Income category when its strategy focuses on providing income or the fund self-identifies as using an income strategy, even though it may incorporate other factors in addition to income.

Fundamental: A fund that selects and/or weights securities based on fundamental metrics from a company's financial statements such as balance sheet. Strategies include Value, Growth, Quality, RAFI Fundamental, Earnings, etc.

Low Vol or Risk: A fund that aims to achieve reduced portfolio volatility, either by screening for low volatility stocks, low beta stocks and/or minimizing the portfolio volatility.

Multi-Factor: ETFs that consider more than one NBF-defined factor including Income, Fundamental and Risk.

**Sector:** ETFs that provide exposure to broad industry sectors classified by the Global Industry Classification Standard (GICS) or other similar classifications. This category contains all sector funds, including ones that screen and/or weight the portfolio using factors.

**Thematic:** ETFs that provide niche exposures such as blockchain technology, infrastructure, Marijuana companies, Socially Responsible Investing, technology sub-sectors, agriculture, water, sentiment & behaviour, etc. This category contains all thematic funds, including ones that screen and/or weight the portfolio using factors.

**Other:** Any non-cap weighted strategy that is not covered by otherwise defined categories. This includes momentum, equalweight, share buyback, high beta, proprietary, actively managed, tactical rotation, price-weighted, etc.



January 2024: A busy start to the year

February 2, 2024

#### **DISCLOSURES**

Leveraged and Inverse Exchange-Traded Funds are very different from most ETFs. They pursue leveraged investment goals, and they are riskier than alternatives that do not use leverage because they magnify the performance of the benchmark on an investment. These ETFs seek daily leveraged investment results. The return of an inverse or leveraged ETF for periods longer than a single day, especially in periods of market volatility, may be completely uncorrelated to the return of the benchmark over such longer periods. Leveraged and inverse ETFs are intended to be used as short-term trading vehicles for investors managing their portfolios on a daily basis. They are not to be used by, and are not appropriate for, investors who intend to hold positions. In addition, please note Bitcoin and other crypto assets are extremely risky and highly speculative investments.

**GENERAL**: This Report was prepared by National Bank Financial Inc. (NBF), a Canadian investment dealer, a dealer member of the Canadian Investment Regulatory Organization (CIRO) and an indirect wholly owned subsidiary of National Bank of Canada. National Bank of Canada is a public company listed on the Toronto Stock Exchange.

The particulars contained herein were obtained from sources which we believe to be reliable but are not guaranteed by us and may be incomplete and may be subject to change without notice. The information is current as of the date of this document. Neither the author nor NBF assumes any obligation to update the information or advise on further developments relating to the topics or securities discussed. The opinions expressed are not to be construed as a solicitation or offer to buy or sell the securities mentioned herein, and nothing in this report constitutes a representation that any investment strategy or recommendation contained herein is suitable or appropriate to a recipient's individual circumstances. In all cases, investors should conduct their own investigation and analysis of such information before taking or omitting to take any action in relation to securities or markets that are analyzed in this report. The report alone is not intended to form the basis for an investment decision, or to replace any due diligence or analytical work required by you or your advisers, if needed, in making an investment decision.

The value of investments, and the income derived from them, can go down as well as up and you may not get back the amount invested. Neither past performance nor forecasts are a reliable guide to future performance. If an investment is denominated in a foreign currency, rates of exchange may have an adverse effect on the value of the investment. Investments which are illiquid may be difficult to sell or realize; it may also be difficult to obtain reliable information about their value or the extent of the risks to which they are exposed. Certain transactions, including those involving futures, swaps, and other derivatives, give rise to substantial risk and are not suitable for all investors.

NBF makes no representation as to the proper characterization of the investments for legal, regulatory or tax purposes, or as to the ability of a particular investor to invest or transact in the investments under applicable legal restrictions. Differences in the legal and regulatory regimes in different jurisdictions may significantly impact the legal and regulatory risks affecting the investment sector and / or investment. It is your responsibility to assess any such differences and associated risks.

This report is for distribution only under such circumstances as may be permitted by applicable law. This report is not directed at you if NBF or any affiliate distributing this report is prohibited or restricted by any legislation or regulation in any jurisdiction from making it available to you.

National Bank of Canada Financial Markets is a trade name used by National Bank Financial Inc. and National Bank of Canada Financial Inc.

**CANADIAN RESIDENTS:** NBF or its affiliates may engage in any trading strategies described herein for their own account or on a discretionary basis on behalf of certain clients and, as market conditions change, may amend or change investment strategy including full and complete divestment. The trading interests of NBF and its affiliates may also be contrary to any opinions expressed in this report.

NBF or its affiliates often act as financial advisor, agent, lender or underwriter or provides trading related services for certain issuers mentioned herein and may receive remuneration for its services.

NBF is a member of the Canadian Investor Protection Fund.

**UK RESIDENTS:** This report is a marketing document. This report has not been prepared in accordance with legal requirements designed to promote the independence of investment research and it is not subject to any prohibition on dealing ahead of the dissemination of investment research.



January 2024: A busy start to the year

February 2, 2024

### **DISCLOSURES**

The report is only for distribution to Eligible Counterparties and Professional Clients in the United Kingdom within the meaning of the rules of the Financial Conduct Authority (FCA). The investments contained in this report are not available to retail customers and this report is not for distribution to retail clients (within the meaning of the rules of the FCA). Persons who are retail clients should not act or rely upon the information in this report.

As required by the FCA, we have a policy in place to identify and manage the conflicts of interest which may arise in the production of non-independent research as contained and distributed in this report.

In respect of the distribution of this report to UK residents, NBF has approved the contents (including, where necessary, for the purposes of Section 21(1) of the Financial Services and Markets Act 2000). NBF is authorized and regulated by the Financial Conduct Authority with registration number FC009503 and has its registered office at 70 St. Mary Axe, London, EC3A 8BE.

**U.S. RESIDENTS:** With respect to the distribution of this report in the United States of America (the U.S.), National Bank of Canada Financial Inc. (NBCFI) is registered with the Securities Exchange Commission (SEC) as a broker-dealer and is a member of the Financial Industry Regulatory Authority (FINRA) and the Securities Investor Protection Corporation (SIPC). NBCFI operates pursuant to a 15 a-6 Agreement with its Canadian affiliates, NBF and National Bank of Canada. NatWealth Management (USA) Inc. (NatWealth) is a SEC-registered investment adviser.

This report has been prepared in whole or in part by research analysts employed by non-U.S. affiliates of NBCFI that are not registered as broker-dealers or investment advisers in the U.S. These non-U.S. research analysts are not registered as associated persons of NBCFI and are not licensed or qualified as research analysts with FINRA or any other U.S. regulatory authority and, accordingly, may not be subject (among other things) to FINRA restrictions regarding communications by a research analyst with the subject company, public appearances by research analysts and trading securities held in a research analyst account. NBF is a Participating Affiliate of NatWealth, and as such each research analyst who provides services to that constitute acting as an investment adviser under U.S. law and regulation is deemed an associated person of NatWealth as part of the participating affiliate regime established by SEC Staff no-action letters.

If you make "hard dollar" payments in respect of NBF research services, then such services, including this report, are provided to you by NatWealth under the U.S. Investment Advisers Act of 1940 (the Advisers Act). If you do not make "hard dollar" payments in respect of NBF research services, then such services, including this report, are provided to you via intermediation of NBCFI under Rule 15a-6, and are not subject to the Advisers Act.

Because the views of research analysts may differ, members of NBF Group may have or may in the future issue reports that are inconsistent with this report, or that reach conclusions different from those in this report. To make further inquiry related to this report, U.S. residents should contact their NBCFI registered representative or NatWealth associated person, as applicable.

HK RESIDENTS: With respect to the distribution of this report in Hong Kong by NBC Financial Markets Asia Limited (NBCFMA) which is licensed by the Securities and Futures Commission (SFC) to conduct Type 1 (dealing in securities) and Type 3 (leveraged foreign exchange trading) regulated activities, the contents of this report are solely for informational purposes. It has not been approved by, reviewed by, verified by or filed with any regulator in Hong Kong. Nothing herein is a recommendation, advice, offer or solicitation to buy or sell a product or service, nor an official confirmation of any transaction. None of the products issuers, NBCFMA or its affiliates or other persons or entities named herein are obliged to notify you of changes to any information and none of the foregoing assume any loss suffered by you in reliance of such information.

The content of this report may contain information about investment products which are not authorized by SFC for offering to the public in Hong Kong and such information will only be available to those persons who are Professional Investors (as defined in the Securities and Futures Ordinance of Hong Kong (SFO)). If you are in any doubt as to your status you should consult a financial adviser or contact us. This material is not meant to be marketing materials and is not intended for public distribution. Please note that neither this material nor the product referred to is authorized for sale by SFC. Please refer to product prospectus for full details.

There may be conflicts of interest relating to NBCFMA or its affiliates' businesses. These activities and interests include potential multiple advisory, transactional and financial and other interests in securities and instruments that may be purchased or sold by NBCFMA or its affiliates, or in other investment vehicles which are managed by NBCFMA or its affiliates that may purchase or sell such securities and instruments.



January 2024: A busy start to the year

February 2, 2024

# **DISCLOSURES**

No other entity within the National Bank of Canada group, including National Bank of Canada and National Bank Financial Inc., is licensed or registered with the SFC. Accordingly, such entities and their employees are not permitted and do not intend to: (i) carry on a business in any regulated activity in Hong Kong; (ii) hold themselves out as carrying on a business in any regulated activity in Hong Kong; or (iii) actively market their services to the Hong Kong public.

**COPYRIGHT:** This Report may not be reproduced in whole or in part, or further distributed or published or referred to in any manner whatsoever, nor may the information, opinions or conclusions contained in it be referred to without in each case the prior express written consent of NBF.

**RESEARCH ANALYSTS:** All of the views expressed in this research report accurately reflect the research analyst's personal views regarding any and all of the subject securities or issuers. No part of the analyst's compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed in this research report. The analyst responsible for the production of this report certifies that the views expressed herein reflect his or her accurate personal and technical judgment at the moment of publication.

NBF compensates its research analysts from a variety of sources. The Research Department is a cost centre and is funded by the business activities of NBF including Institutional Equity Sales and Trading, Retail Sales, the correspondent clearing business, and Corporate and Investment Banking. Since the revenues from these businesses vary, the funds for research compensation vary. No one business line has a greater influence than any other for research analyst compensation.

DISSEMINATION POLICY: Please click on this link to access NBF's Research Dissemination Policy.