

GLOBAL X INSIGHTS

The Next Big Theme: January 2025

Ido Caspi

icaspi@globalxetfs.com

Date: January 16, 2025

Topic: Thematic



Defense Tech

Software Industry Continues to Gather a Growing Portion of Defense Spend

Palantir received authorization from the Federal Risk and Authorization Management Program (FedRAMP) to use its full product suite, including AIP, Apollo, Foundry, and Gotham. With High Authorization secured, Palantir can offer secure cloud services to the U.S. government for sensitive unclassified workloads. This authorization builds on Palantir's FedRAMP Moderate and Department of Defense certifications, further enabling the company to support U.S. government civilian, defense, and intelligence agencies.¹ Also, Palantir extended its partnership with the U.S. Army through a \$618.9 million contract to deliver the Army Vantage capability to support the Army Data Platform (ADP). ADP empowers warfighters at all levels and addresses a wide range of use cases across various data domains such as readiness, logistics, and talent management. Adopted by the Army in 2018 to enhance insights into personnel and combat readiness, Palantir's Vantage software is now the backbone of ADP operations.²

Artificial Intelligence

Agentic AI Models Hit the Market

Google unveiled its latest AI model, Gemini 2.0 Flash, featuring a globally available chat-optimized version and an experimental multimodal version for developers with text-to-speech and image generation capabilities. Heralded as a significant advancement from Gemini 1.0, Gemini 2.0 delivers improved usability in areas like code generation and factual accuracy, though it shows some limitations with longer contexts. The multimodal version is set for a broader release in January 2025, with plans to integrate Gemini 2.0 into more Google products.³ This launch highlights Google's efforts to keep pace with competitors while exploring agentic AI models capable of predictive and autonomous actions. Salesforce unveiled Agentforce 2.0, the latest iteration of its enterprise digital labor platform. Key updates include a library of prebuilt skills, streamlined workflow integrations, Slack deployment, and advanced agentic reasoning capabilities. These enhancements help businesses to scale their workforce with customized agents that handle complex tasks more precisely.⁴ Reflecting confidence in demand for Agentforce 2.0, Salesforce plans to hire 2,000 salespeople in 2025 to focus on AI product sales.⁵

U.S. Infrastructure

World's Busiest Bus Terminal Approved for Massive Upgrade

The \$10 billion redevelopment of New York City's Midtown Bus Terminal, the country's largest and world's busiest terminal, is moving forward after securing federal and city approvals. The project will replace the 74-year-old facility with a new 2.1 million-square-foot terminal, a separate storage and staging building, and updated ramps connecting to the Lincoln Tunnel. The upgraded terminal aims to enhance the bus service between New York and New Jersey, reduce curbside intercity bus operations by moving them indoors, and alleviate idling, congestion, and circulation issues on nearby streets and tunnels. The net-zero emissions project is designed to support an all-electric bus fleet and incorporates sustainability and resilience features, including onsite renewable energy, zoned heating and cooling, and heat recovery and reuse systems. Temporary structures are expected to be completed by 2028, with the main terminal slated for completion in 2032.⁶



Electric Vehicles

Electric Vehicle Sales Charge Ahead

Global electric vehicle (EV) sales were strong in Q4 2024, overcoming increasing competition and persistent headwinds in the United States and Europe.⁷ China reported robust December 2024 sales and surpassed 1 million EVs sold for the fifth consecutive month, fueled by affordable models and trade-in incentives.⁸ In the U.S. market, automakers including Ford, General Motors, Toyota, Hyundai, and Honda posted solid Q4 results for battery EVs and hybrids.⁹ Tesla, however, reported its first annual sales decline and missed Q4 estimates, although its global deliveries rose slightly to 495,000 vehicles from 485,000 in Q4 2023.¹⁰ While we anticipate continued headwinds in Europe and the United States in early 2025, global EV sales are projected to grow 30% year-over-year to 15.1 million units and account for 16.7% of the total light vehicle market.¹¹

Data Centers

Tech Giants Go Nuclear to Power Next-Gen AI Data Centers

Big Tech giants are moving to secure nuclear power to accommodate the immense electricity demands that their AI initiatives require. The latest one is Meta Platforms, which unveiled plans to add up to 4 gigawatts (GW) of nuclear generation capacity in the United States, starting in the early 2030s. Nuclear energy provides reliable, around-the-clock clean power, but its adoption has been hindered by high costs and prolonged construction timelines, leaving utilities hesitant to invest. To address this issue, Meta is soliciting proposals for 1 GW to 4 GW of reactor capacity, aiming to accelerate the deployment of new nuclear reactors and achieve cost reductions through economies of scale.¹² Meta's nuclear commitment aligns with similar efforts by Amazon and Alphabet, which invested in advanced reactor technologies, and Microsoft, which committed to purchasing power from a reactor that Constellation Energy plans to restart at Three Mile Island in Pennsylvania.¹³

Solar

U.S. Solar Industry Sets Q3 Capacity Record

At full capacity, the U.S. solar module factories can now produce enough panels to meet most, if not all, of the country's solar demand.¹⁴ In Q3 2024, the U.S. added 9.3 GW of new solar module manufacturing capacity, the most ever for Q3. The result brought the country's total capacity to nearly 40 GW, a significant increase from around 30 GW in Q2 and just over 16 GW at the end of 2023.¹⁵ Additionally, Q3 was the country's best-ever quarter for solar installations, with 8.6 GW of new solar capacity installed, a 21% YoY increase. Solar accounted for 64% of all new electricity-generating capacity added to the U.S. grid through Q3, and U.S. solar now produces enough electricity annually to power over 37 million homes.¹⁶

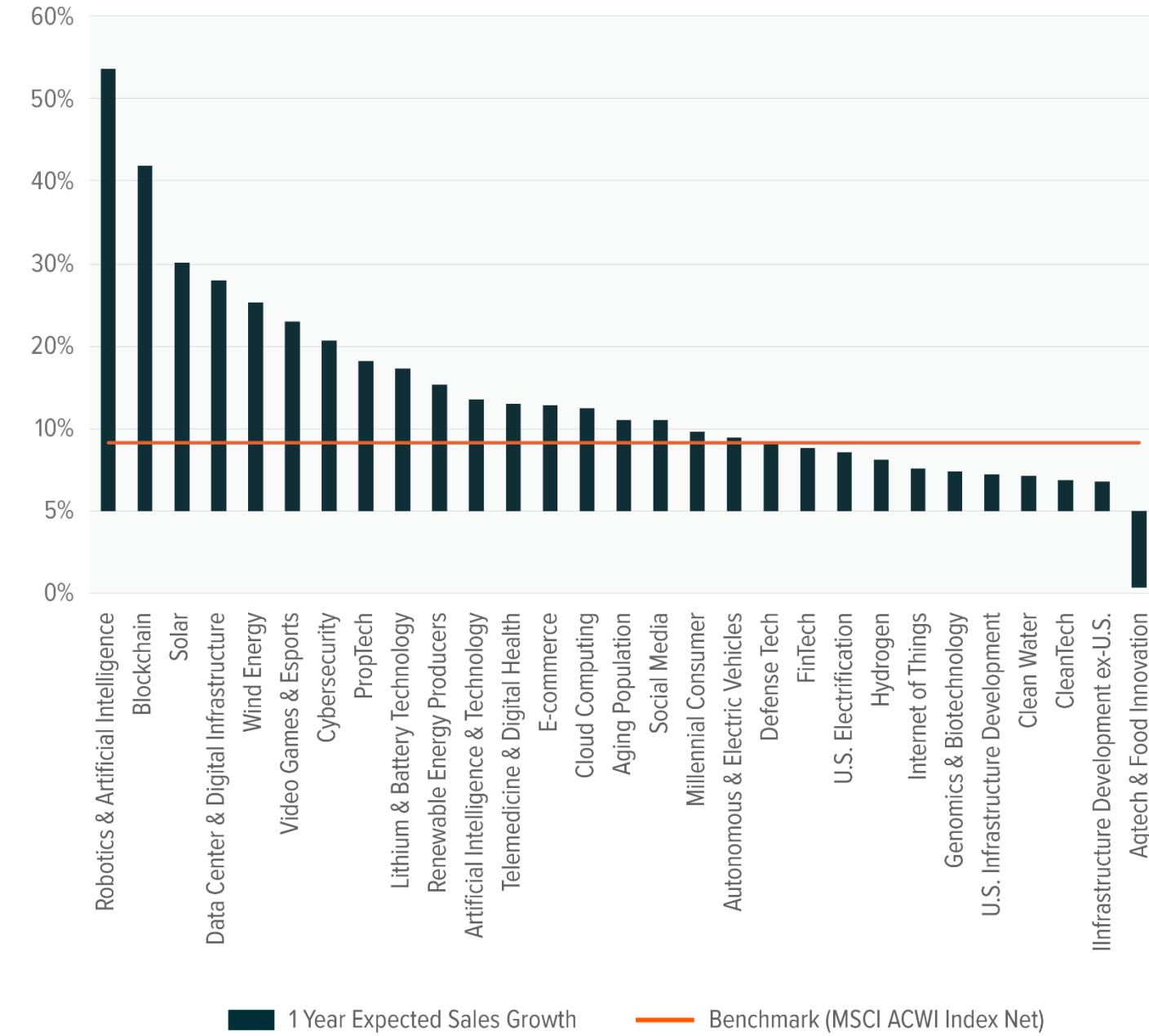


THE NUMBERS

The following charts examine returns and sales growth expectations by theme, based on their corresponding ETFs or indices.

THEMATIC EXPECTED SALES GROWTH

Source: Bloomberg, December 31, 2024, Global X ETFs.



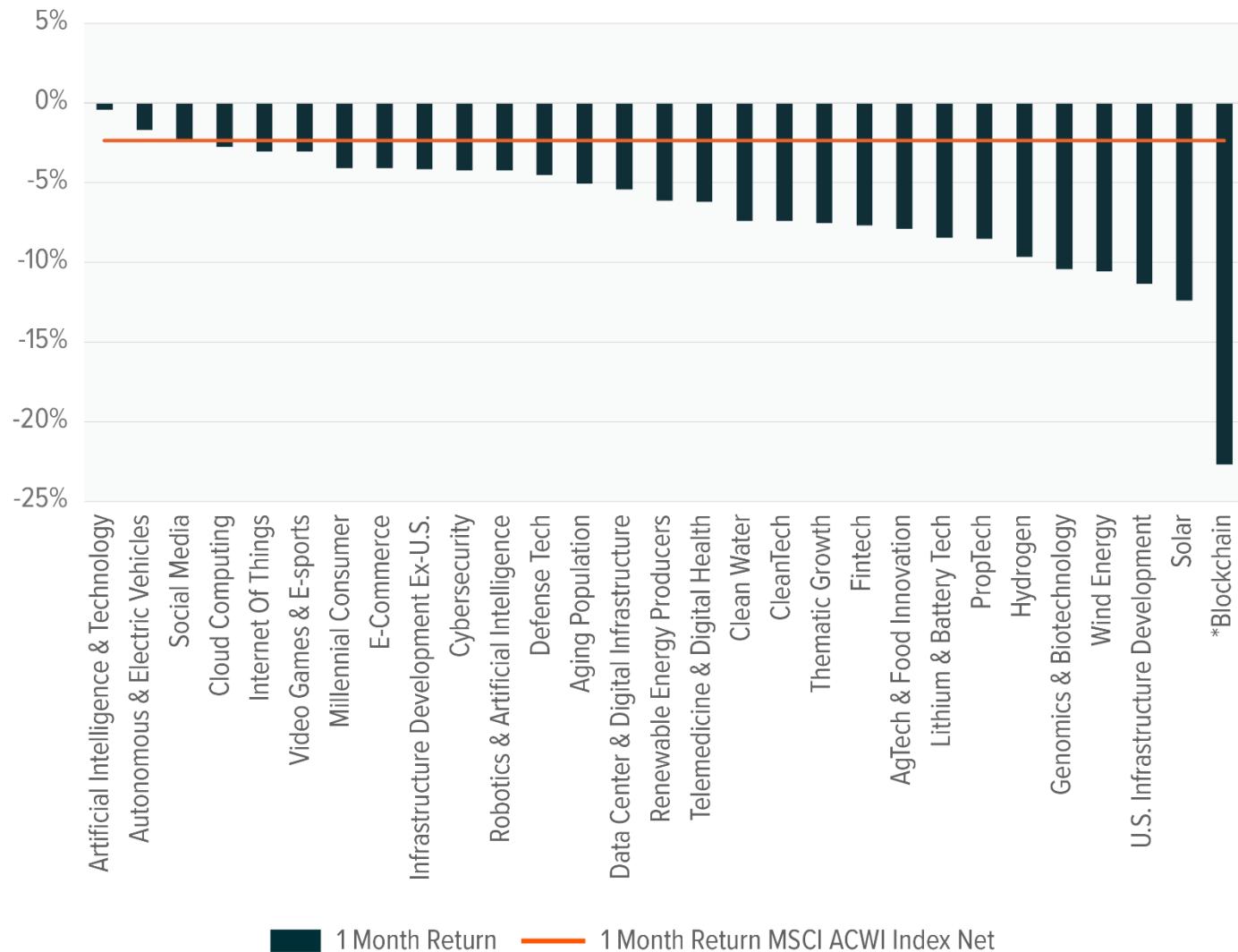
Note: Forward looking based on index data and analysis from 12/31/2024.

1 year annualized forward sales growth is the consensus analyst expectations for total sales growth in the next 12 months.
Refer to Appendix below Footnotes for details on Indices used.



DECEMBER 2024 THEMATIC ETF RETURNS

Source: Bloomberg, December 31, 2024, Global X ETFs.



*Blockchain reflects figures according to BKCH ETF

Performance data quoted represents past performance and does not guarantee future results. Investment return and principal value of an investment will fluctuate so that an investors' shares, when sold or redeemed, may be worth more or less than their original cost. Current performance may be higher or lower than the performance quoted. High short-term performance of the fund is unusual and investors should not expect such performance to be repeated. For performance data current to the most recent month end, please call 1-888-493-8631 or visit www.globalxetfs.com.



| Standard Performance | | | Cumulative % Data as of month end (12/31/24) | | | Avg. Annualized % Data as of quarter end (12/31/24) | | | | |
|---|---------------|--------------|---|---------|-----------------|--|---------|--------|---------|-----------------|
| | Expense Ratio | | 1 Month | 3 Month | Since Inception | 1 Year | 3 Year | 5 Year | 10 Year | Since Inception |
| ROBOTICS & ARTIFICIAL INTELLIGENCE Inception Date 09/12/2016 | 0.68% | NAV | -3.55% | -0.43% | 123.51% | 12.53% | -3.55% | 8.03% | - | 10.17% |
| | | Market Price | -4.26% | -0.62% | 122.68% | 12.26% | -3.66% | 8.07% | - | 10.12% |
| | | Index | -3.53% | -0.28% | 130.77% | 13.17% | -3.11% | 8.63% | - | 10.59% |
| FINTECH Inception Date 09/12/2016 | 0.68% | NAV | -7.25% | 12.29% | 122.28% | 23.37% | -7.45% | 1.92% | - | 10.09% |
| | | Market Price | -7.68% | 12.02% | 121.49% | 23.03% | -7.57% | 1.85% | - | 10.05% |
| | | Index | -7.22% | 12.45% | 132.21% | 24.13% | -7.11% | 2.37% | - | 10.67% |
| INTERNET OF THINGS Inception Date 09/12/2016 | 0.68% | NAV | -2.96% | 0.61% | 148.36% | -0.73% | -3.08% | 8.78% | - | 11.57% |
| | | Market Price | -3.01% | 0.98% | 148.44% | -0.44% | -3.12% | 8.77% | - | 11.58% |
| | | Index | -2.93% | 0.78% | 156.17% | -0.08% | -2.65% | 9.27% | - | 11.99% |
| CLOUD COMPUTING Inception Date 04/12/2019 | 0.68% | NAV | -2.68% | 16.52% | 62.08% | 5.92% | -3.30% | 9.15% | - | 8.80% |
| | | Market Price | -2.72% | 16.59% | 62.59% | 5.74% | -3.32% | 9.12% | - | 8.86% |
| | | Index | -2.63% | 16.75% | 68.06% | 6.61% | -2.66% | 9.85% | - | 9.49% |
| SOCIAL MEDIA Inception Date 11/14/2011 | 0.65% | NAV | -1.20% | -2.11% | 196.83% | 5.88% | -7.16% | 4.46% | 9.26% | 8.63% |
| | | Market Price | -2.31% | -2.26% | 194.47% | 5.09% | -7.41% | 4.36% | 9.22% | 8.57% |
| | | Index | -1.15% | -1.98% | 217.60% | 6.29% | -6.77% | 4.95% | 9.83% | 9.19% |
| ARTIFICIAL INTELLIGENCE & TECHNOLOGY Inception Date 05/11/2018 | 0.68% | NAV | -0.31% | 3.90% | 164.41% | 24.16% | 7.04% | 17.03% | - | 15.75% |
| | | Market Price | -0.44% | 3.98% | 164.56% | 24.11% | 7.02% | 17.02% | - | 15.76% |
| | | Index | -0.24% | 4.10% | 172.89% | 25.03% | 7.67% | 17.65% | - | 16.30% |
| AUTONOMOUS & ELECTRIC VEHICLES Inception Date 04/13/2018 | 0.68% | NAV | -1.06% | -0.68% | 69.54% | -4.72% | -7.39% | 10.52% | - | 8.17% |
| | | Market Price | -1.69% | -0.98% | 68.53% | -5.02% | -7.60% | 10.39% | - | 8.07% |
| | | Index | -1.04% | -0.68% | 71.29% | -4.66% | -7.31% | 10.76% | - | 8.33% |
| LITHIUM AND BATTERY TECH Inception Date 07/22/2010 | 0.75% | NAV | -7.33% | -7.02% | 59.91% | -19.27% | -20.61% | 9.26% | 7.65% | 3.30% |
| | | Market Price | -8.48% | -6.15% | 58.73% | -19.19% | -20.78% | 9.13% | 7.65% | 3.25% |
| | | Index | -7.31% | -6.91% | 70.74% | -19.04% | -20.29% | 9.60% | 7.95% | 3.77% |
| GENOMICS AND BIOTECHNOLOGY Inception Date 04/5/2019 | 0.50% | NAV | -10.43% | -13.70% | -36.41% | -16.16% | -21.18% | -9.01% | - | -7.58% |
| | | Market Price | -10.42% | -13.69% | -35.16% | -16.00% | -21.21% | -9.04% | - | -7.26% |
| | | Index | -10.37% | -13.59% | -34.45% | -15.50% | -20.75% | -8.55% | - | -7.09% |
| MILLENNIAL CONSUMER Inception Date 05/4/2016 | 0.50% | NAV | -4.04% | 7.40% | 210.80% | 27.10% | 2.11% | 11.97% | - | 13.98% |
| | | Market Price | -4.10% | 7.45% | 209.62% | 27.12% | 2.16% | 11.95% | - | 13.93% |
| | | Index | -4.02% | 7.52% | 223.72% | 27.74% | 2.58% | 12.53% | - | 14.52% |
| AGING POPULATION Inception Date 05/09/2016 | 0.50% | NAV | -4.90% | -7.34% | 112.18% | 6.81% | 2.34% | 5.79% | - | 9.08% |
| | | Market Price | -5.05% | -7.59% | 116.59% | 7.04% | 2.36% | 5.80% | - | 9.34% |
| | | Index | -4.86% | -7.21% | 117.32% | 7.21% | 2.65% | 6.07% | - | 9.39% |
| E-COMMERCE Inception Date 11/27/2018 | 0.50% | NAV | -4.30% | 0.72% | 88.00% | 30.69% | 0.34% | 8.91% | - | 10.91% |
| | | Market Price | -4.12% | 1.05% | 88.54% | 31.26% | 0.47% | 8.93% | - | 10.96% |
| | | Index | -4.24% | 0.82% | 93.09% | 31.29% | 0.78% | 9.37% | - | 11.39% |
| US INFRASTRUCTURE DEVELOPMENT Inception Date 03/06/2017 | 0.47% | NAV | -11.22% | -1.39% | 183.67% | 18.08% | 12.82% | 18.64% | - | 14.25% |
| | | Market Price | -11.33% | -1.48% | 183.46% | 17.93% | 12.77% | 18.58% | - | 14.24% |
| | | Index | -11.21% | -1.28% | 195.86% | 18.65% | 13.51% | 19.32% | - | 14.86% |
| VIDEO GAMES & ESPORTS Inception Date 10/25/2019 | 0.50% | NAV | -1.82% | -1.90% | 64.05% | 18.23% | -5.09% | 8.50% | - | 10.01% |
| | | Market Price | -3.04% | -2.68% | 62.43% | 17.67% | -5.29% | 8.25% | - | 9.80% |
| | | Index | -1.77% | -1.78% | 68.06% | 18.88% | -4.69% | 9.02% | - | 10.52% |



| | | | | | | | | | | |
|--|-------|--------------|---------|---------|---------|---------|---------|--------|---|---------|
| CYBERSECURITY Inception Date 10/25/2019 | 0.50% | NAV | -3.83% | 3.68% | 117.41% | 10.03% | 0.94% | 14.88% | - | 16.14% |
| | | Market Price | -4.20% | 3.78% | 121.03% | 9.59% | 0.92% | 14.73% | - | 16.51% |
| | | Index | -3.86% | 3.75% | 122.29% | 10.39% | 1.43% | 15.41% | - | 16.64% |
| THEMATIC GROWTH Inception Date 10/25/2019 | 0.50% | NAV | -7.44% | -7.08% | -0.60% | -4.10% | -18.07% | -1.68% | - | -0.12% |
| | | Market Price | -7.51% | -7.18% | 0.45% | -3.55% | -17.97% | -1.72% | - | 0.09% |
| | | Index | -7.47% | -7.15% | -1.90% | -4.47% | -18.27% | -1.93% | - | -0.37% |
| TELEMEDICINE & DIGITAL HEALTH Inception Date 07/29/2020 | 0.68% | NAV | -5.45% | -2.18% | -35.04% | -2.66% | -15.77% | - | - | -9.28% |
| | | Market Price | -6.20% | -1.90% | -35.43% | -2.87% | -15.92% | - | - | -9.41% |
| | | Index | -5.35% | -1.95% | -33.60% | -2.00% | -15.40% | - | - | -8.84% |
| CLEANTECH Inception Date 10/27/2020 | 0.50% | NAV | -6.35% | -17.19% | -53.27% | -35.85% | -26.51% | - | - | -16.64% |
| | | Market Price | -7.43% | -17.84% | -53.75% | -36.32% | -26.67% | - | - | -16.84% |
| | | Index | -6.42% | -17.23% | -54.04% | -35.91% | -26.36% | - | - | -16.97% |
| DATA CENTER & DIGITAL INFRASTRUCTURE Inception Date 10/27/2020 | 0.50% | NAV | -4.86% | -4.81% | 18.54% | 15.16% | -1.81% | - | - | 4.15% |
| | | Market Price | -5.45% | -5.07% | 18.62% | 14.91% | -1.93% | - | - | 4.17% |
| | | Index | -4.80% | -4.66% | 19.36% | 16.01% | -1.58% | - | - | 4.32% |
| RENEWABLE ENERGY PRODUCERS Inception Date 05/27/2015 | 0.65% | NAV | -5.77% | -17.82% | -22.56% | -22.08% | -16.59% | -8.60% | - | -2.63% |
| | | Market Price | -6.11% | -17.77% | -23.15% | -22.00% | -16.75% | -8.71% | - | -2.70% |
| | | Index | -5.71% | -18.01% | -19.70% | -21.82% | -16.28% | -8.26% | - | -2.26% |
| CLEAN WATER Inception Date 04/08/2021 | 0.50% | NAV | -7.69% | -8.39% | 18.74% | 4.69% | 0.29% | - | - | 4.71% |
| | | Market Price | -7.40% | -8.25% | 18.52% | 4.32% | 0.17% | - | - | 4.66% |
| | | Index | -7.64% | -8.28% | 20.39% | 5.22% | 0.66% | - | - | 5.10% |
| AGTECH AND FOOD INNOVATION Inception Date 07/12/2021 | 0.51% | NAV | -6.94% | -8.51% | -60.08% | -8.02% | -20.09% | - | - | -23.23% |
| | | Market Price | -7.86% | -9.66% | -60.29% | -8.75% | -20.34% | - | - | -23.35% |
| | | Index | -6.95% | -8.39% | -59.56% | -7.63% | -19.79% | - | - | -22.94% |
| HYDROGEN Inception Date 07/12/2021 | 0.50% | NAV | -9.50% | -9.61% | -81.51% | -32.66% | -39.18% | - | - | -38.49% |
| | | Market Price | -9.68% | -9.54% | -81.52% | -33.08% | -39.25% | - | - | -38.50% |
| | | Index | -10.22% | -9.96% | -81.30% | -32.83% | -38.99% | - | - | -38.29% |
| BLOCKCHAIN Inception Date 07/12/2021 | 0.50% | NAV | -22.89% | 16.19% | -40.83% | 18.52% | -13.40% | - | - | -14.02% |
| | | Market Price | -22.66% | 16.83% | -40.82% | 19.08% | -13.40% | - | - | -14.02% |
| | | Index | -22.92% | 15.93% | -43.10% | 18.10% | -14.44% | - | - | -14.98% |
| SOLAR Inception Date 09/08/2021 | 0.50% | NAV | -10.79% | -21.45% | -62.37% | -31.00% | -26.91% | - | - | -25.53% |
| | | Market Price | -12.37% | -21.29% | -62.78% | -31.92% | -27.39% | - | - | -25.78% |
| | | Index | -10.70% | -21.35% | -61.76% | -30.76% | -26.56% | - | - | -25.17% |
| WIND ENERGY Inception date 09/08/2021 | 0.51% | NAV | -9.95% | -19.65% | -55.71% | -21.84% | -22.17% | - | - | -21.78% |
| | | Market Price | -10.55% | -19.90% | -56.08% | -22.32% | -22.50% | - | - | -21.98% |
| | | Index | -9.94% | -19.61% | -55.10% | -21.52% | -21.85% | - | - | -21.46% |
| PROPTECH Inception date 04/11/23 | 0.51% | NAV | -8.57% | -2.25% | 35.12% | 10.34% | - | - | - | 19.05% |
| | | Market Price | -8.52% | -2.18% | 35.49% | 10.35% | - | - | - | 19.24% |
| | | Index | -8.53% | -2.12% | 36.20% | 10.92% | - | - | - | 19.60% |
| DEFENSE TECH Inception date 09/11/23 | 0.50% | NAV | -4.44% | 0.88% | 51.83% | 35.45% | - | - | - | 37.65% |
| | | Market Price | -4.51% | 0.85% | 51.95% | 35.02% | - | - | - | 3773% |
| | | Index | -4.40% | 1.04% | 52.87% | 36.12% | - | - | - | 38.37% |
| INFRASTRUCTURE DEVELOPMENT EX-U.S. Inception date 08/27/24 | 0.55% | NAV | -3.54% | -9.40% | -6.84% | - | - | - | - | - |
| | | Market Price | -4.14% | -9.51% | -6.93% | - | - | - | - | - |
| | | Index | -3.54% | -9.33% | -6.68% | - | - | - | - | - |
| U.S. ELECTRIFICATION Inception date 12/17/2024 | 0.50% | NAV | - | - | -1.34% | - | - | - | - | - |
| | | Market Price | - | - | -1.34% | - | - | - | - | - |
| | | Index | - | - | -1.33% | - | - | - | - | - |



P/S AND EV/S

Source: Bloomberg, data is as of 12/31/24 and 11/30/24, Global X ETFs.

| Ticker | Name | P/S | | EV/S | |
|--------|---|----------|----------|----------|----------|
| | | 12/31/24 | 11/30/24 | 12/31/24 | 11/30/24 |
| GNOM | Global X Genomics & Biotechnology ETF | 5.96 | 6.66 | 4.85 | 5.51 |
| BUG | Global X Cybersecurity ETF | 5.58 | 5.83 | 5.10 | 5.38 |
| CLOU | Global X Cloud Computing ETF | 5.42 | 5.59 | 5.46 | 5.69 |
| BOTZ | Global X Robotics & Artificial Intelligence ETF | 4.20 | 4.36 | 4.64 | 4.79 |
| FINX | Global X FinTech ETF | 4.03 | 4.35 | 4.52 | 4.85 |
| AIQ | Global X Artificial Intelligence & Technology ETF | 3.72 | 3.76 | 3.81 | 3.85 |
| AGNG | Global X Aging Population ETF | 3.67 | 3.86 | 4.15 | 4.35 |
| DTCR | Global X Data Center & Digital Infrastructure ETF | 3.55 | 3.74 | 5.49 | 5.65 |
| SNSR | Global X Internet of Things ETF | 3.21 | 3.32 | 3.55 | 3.65 |
| HERO | Global X Video Games & Esports ETF | 3.05 | 3.11 | 2.93 | 3.00 |
| SPY | SPDR S&P 500 ETF TRUST | 3.04 | 3.11 | 3.43 | 3.49 |
| SOCL | Global X Social Media ETF | 2.98 | 3.01 | 2.92 | 2.93 |
| BKCH | Global X Blockchain ETF | 2.80 | 3.66 | 4.02 | 5.18 |
| MILN | Global X Millennial Consumer ETF | 2.59 | 2.71 | 2.89 | 3.01 |
| AQWA | Global X Clean Water ETF | 2.48 | 2.69 | 3.44 | 3.66 |
| ZAP | Global X U.S. Electrification ETF | 2.48 | NA | 4.30 | NA |
| PTEC | Global X PropTech ETF | 2.45 | 2.69 | 3.74 | 4.16 |
| ACWI | MSCI ACWI ETF | 2.18 | 2.24 | 2.55 | 2.60 |
| EDOC | Global X Telemedicine & Digital Health ETF | 2.12 | 2.26 | 2.26 | 2.38 |
| HYDR | Global X Hydrogen ETF | 2.06 | 2.34 | 2.50 | 2.61 |
| RNRG | Global X Renewable Energy Producers ETF | 1.99 | 2.12 | 5.03 | 5.24 |
| PAVE | Global X U.S. Infrastructure Development ETF | 1.85 | 2.09 | 2.14 | 2.38 |
| LIT | Global X Lithium & Battery Tech ETF | 1.76 | 1.89 | 2.15 | 2.28 |
| SHLD | Global X Defense Tech ETF | 1.73 | 1.81 | 1.99 | 2.06 |
| EBIZ | Global X E-commerce ETF | 1.43 | 1.50 | 1.48 | 1.54 |
| RAYS | Global X Solar ETF | 1.31 | 1.49 | 1.94 | 2.14 |
| WNDY | Global X Wind Energy ETF | 1.24 | 1.37 | 2.45 | 2.60 |
| KROP | Global X AgTech & Food Innovation ETF | 0.86 | 0.93 | 1.28 | 1.35 |
| DRIV | Global X Autonomous & Electric Vehicles ETF | 0.75 | 0.76 | 0.93 | 0.97 |
| IPAV | Global X Infrastructure Development Ex-U.S. ETF | 0.73 | 0.75 | 1.14 | 1.17 |
| CTEC | Global X CleanTech ETF | 0.69 | 0.74 | 1.14 | 1.16 |

Note: P/S and EV/S refer to price-to-sales and enterprise value-to-sales, respectively.

P/S is calculated by dividing the company's market capitalizations by their revenues over the most recent year.



F12M SALES GROWTH, PSG, AND EVSG

Source: Bloomberg, data is as of 12/31/24 and 11/30/24, Global X ETFs.

| Ticker | Name | F12M Sales (%) | | PSG | | EVSG | |
|--------|---|----------------|----------|----------|----------|----------|----------|
| | | 12/31/24 | 11/30/24 | 12/31/24 | 11/30/24 | 12/31/24 | 11/30/24 |
| BOTZ | Global X Robotics & Artificial Intelligence ETF | 53.6% | 48.4% | 0.08 | 0.09 | 0.09 | 0.10 |
| BKCH | Global X Blockchain ETF | 41.8% | 34.6% | 0.07 | 0.11 | 0.10 | 0.15 |
| RAYS | Global X Solar ETF | 30.2% | 31.6% | 0.04 | 0.05 | 0.06 | 0.07 |
| DTCR | Global X Data Center & Digital Infrastructure ETF | 28.0% | 27.8% | 0.13 | 0.13 | 0.20 | 0.20 |
| WNDY | Global X Wind Energy ETF | 25.2% | 23.3% | 0.05 | 0.06 | 0.10 | 0.11 |
| HERO | Global X Video Games & Esports ETF | 23.0% | 15.9% | 0.13 | 0.20 | 0.13 | 0.19 |
| BUG | Global X Cybersecurity ETF | 20.7% | 19.7% | 0.27 | 0.30 | 0.25 | 0.27 |
| PTEC | Global X PropTech ETF | 18.1% | 17.7% | 0.14 | 0.15 | 0.21 | 0.23 |
| LIT | Global X Lithium & Battery Tech ETF | 17.2% | 16.8% | 0.10 | 0.11 | 0.12 | 0.14 |
| RNRG | Global X Renewable Energy Producers ETF | 15.3% | 13.6% | 0.13 | 0.16 | 0.33 | 0.39 |
| AIQ | Global X Artificial Intelligence & Technology ETF | 13.6% | 13.4% | 0.27 | 0.28 | 0.28 | 0.29 |
| EDOC | Global X Telemedicine & Digital Health ETF | 13.1% | 13.1% | 0.16 | 0.17 | 0.17 | 0.18 |
| EBIZ | Global X E-Commerce ETF | 12.9% | 12.6% | 0.11 | 0.12 | 0.11 | 0.12 |
| CLOU | Global X Cloud Computing ETF | 12.4% | 11.7% | 0.44 | 0.48 | 0.44 | 0.49 |
| AGNG | Global X Aging Population ETF | 11.0% | 10.8% | 0.33 | 0.36 | 0.38 | 0.40 |
| SOCL | Global X Social Media ETF | 11.0% | 8.9% | 0.27 | 0.34 | 0.26 | 0.33 |
| MILN | Global X Millennial Consumer ETF | 9.7% | 8.8% | 0.27 | 0.31 | 0.30 | 0.34 |
| SPY | S&P 500 ETF | 8.3% | 7.8% | 0.21 | 0.23 | 0.24 | 0.26 |
| DRIV | Global X Autonomous & Electric Vehicles ETF | 8.9% | 7.6% | 0.34 | 0.41 | 0.39 | 0.46 |
| ACWI | MSCI ACWI ETF | 7.6% | 6.6% | 0.53 | 0.66 | 0.59 | 0.74 |
| SHLD | Global X Defense Tech ETF | 8.9% | 9.1% | 0.08 | 0.08 | 0.11 | 0.11 |
| FINX | Global X FinTech ETF | 8.3% | 7.3% | 0.26 | 0.31 | 0.31 | 0.36 |
| ZAP | Global X U.S. Electrification ETF | 7.1% | NA | 0.35 | NA | 0.60 | NA |
| HYDR | Global X Hydrogen ETF | 6.2% | 7.7% | 0.33 | 0.30 | 0.40 | 0.34 |
| SNSR | Global X Internet of Things ETF | 5.2% | 5.0% | 0.62 | 0.66 | 0.69 | 0.72 |
| GNOM | Global X Genomics & Biotechnology ETF | 4.8% | 6.8% | 1.24 | 0.98 | 1.01 | 0.81 |
| PAVE | Global X U.S. Infrastructure Development ETF | 4.4% | 3.3% | 0.42 | 0.62 | 0.48 | 0.71 |
| AQWA | Global X Clean Water ETF | 4.3% | 4.2% | 0.58 | 0.64 | 0.80 | 0.87 |
| CTEC | Global X CleanTech ETF | 3.8% | 5.0% | 0.18 | 0.15 | 0.30 | 0.23 |
| IPAV | Global X Infrastructure Development Ex-U.S. ETF | 3.5% | 5.2% | 0.20 | 0.15 | 0.32 | 0.23 |
| KROP | Global X AgTech & Food Innovation ETF | -9.2% | -8.4% | -0.09 | -0.11 | -0.14 | -0.16 |

Note: F12M Sales Growth is calculated using consensus analyst expectations for total sales in the next 12 months and weighted average trailing 12 month revenue.

Please note that substantial month-over-month variations in F12M Sales may be the result of Bloomberg coverage and estimates of underlying securities.



KEEP UP WITH THE LATEST RESEARCH FROM GLOBAL X

To learn more about the disruptive themes changing our world, read the latest research from Global X, including:

- Introducing ZAP: The Case for U.S. Electrification
- Defense Technology: Shield of Innovation
- Infrastructure: Paving the Way Forward
- Aging Population: Silver Opportunities
- FinTech Momentum Could Continue into 2025

ETF HOLDINGS AND PERFORMANCE

To see individual ETF holdings and current performance across the Global X Thematic Suite, including information on the indexes shown, click these links:

- **Disruptive Technology:** Artificial Intelligence & Technology ETF (AIQ), Blockchain ETF (BKCH), Robotics & Artificial Intelligence ETF (BOTZ), Cybersecurity ETF (BUG), Cloud Computing ETF (CLOU), Autonomous & Electric Vehicles ETF (DRIV), Data Center & Digital Infrastructure ETF (DTCR), FinTech ETF (FINX), Video Games & Esports ETF (HERO), Lithium and Battery Tech ETF (LIT), PropTech ETF (PTEC), Defense Tech ETF (SHLD), Internet of Things ETF (SNSR), Social Media ETF (SOCL), U.S. Electrification ETF (ZAP)
- **Consumer Economy:** Millennial Consumer ETF (MILN), E-Commerce ETF (EBIZ), Genomics & Biotechnology ETF (GNOM), Aging Population ETF (AGNG), Telemedicine & Digital Health ETF (EDOC)
- **Infrastructure & Environment:** U.S. Infrastructure Development ETF (PAVE), CleanTech ETF (CTEC), Renewable Energy Producers (RNRG), Clean Water ETF (AQWA), Hydrogen ETF (HYDR), Solar ETF (RAYS), Wind Energy ETF (WNDY), AgTech & Food Innovation ETF (KROP), Infrastructure Development ex-U.S. ETF (IPAV)
- **Digital Assets:** Blockchain & Bitcoin Strategy ETF (BITS), Bitcoin Trend Strategy ETF (BTRN)
- **Multi-Theme:** Thematic Growth ETF (GXTG)

Appendix: Thematic Expected Sales Growth Graph Indices

AgTech & Food Innovation: Solactive AgTech & Food Innovation Index

Aging Population: Indxx Aging Population Thematic Index

Artificial Intelligence & Technology: Indxx Artificial Intelligence & Big Data Index

Autonomous & Electric Vehicles: Solactive Autonomous & Electric Vehicles Index

Blockchain: Solactive Blockchain Index

Clean Water: Solactive Global Clean Water Industry Index

CleanTech: Indxx Global CleanTech Index

Cloud Computing: Indxx Global Cloud Computing Index

Cybersecurity: Indxx Cybersecurity Index

Data Center & Digital Infrastructure: Solactive Data Center REITs & Digital Infrastructure Index

Defense Tech: Global X Defense Tech Index

E-Commerce: Solactive E-commerce Index

FinTech: Indxx Global FinTech Thematic Index

Genomics: Solactive Genomics Index

Hydrogen: Solactive Global Hydrogen Index

Infrastructure Development ex-U.S.: Global X Infrastructure Development Ex-U.S. Index

Internet Of Things: Indxx Global Internet of Things Thematic Index

Lithium & Battery Technology: Solactive Global Lithium Index

Millennial Consumer: Indxx Millennials Thematic Index

PropTech: Global X PropTech Index

Renewable Energy Producers: Indxx Renewable Energy Producers Index

Robotics & Artificial Intelligence: Indxx Global Robotics & Artificial Intelligence Thematic Index

Social Media: Solactive Social Media Total Return Index

Solar: Solactive Solar Index

Telemedicine & Digital Health: Solactive Telemedicine & Digital Health Index

U.S. Electrification: Global X U.S. Electrification Index

U.S. Infrastructure: Indxx U.S. Infrastructure Development Index

Video Games & Esports: Solactive Video Games & Esports Index

Wind Energy: Solactive Wind Energy Index



Footnotes

1. Palantir. (2024, December 3). Palantir Granted FedRAMP High Baseline Authorization.
2. Palantir. (2024, December 8). Palantir Expands Army Vantage Partnership with \$618.9M Contract.
3. CNBC. (2024, December 11). Google releases the first of its Gemini 2.0 AI models.
4. Business Wire. (2024, December 17). Introducing Agentforce 2.0: The Digital Labor Platform for Building a Limitless Workforce.
5. CNBC. (2024, December 17). Salesforce will hire 2,000 people to sell AI products, CEO Marc Benioff says.
6. ENRNewYork. (2024, December 5). New Approvals Gained for NYC \$10B Bus Terminal Rebuild
7. Investors.com. (2025, January 3). EV Sales, Including Hybrids, Surge for Auto Giants Not Named Tesla.
8. CNEVPOST. (2025, January 3). China Dec NEV wholesales at record 1.5 million, CPCA estimates show.
9. Investors.com. (2025, January 3). EV Sales, Including Hybrids, Surge for Auto Giants Not Named Tesla.
10. Yahoo! Finance. (2024, January 2). Tesla stock slides after Q4 delivery miss, first yearly sales decline.
11. EV.com. (2024, December 31). EVs Are Charging Ahead: Global EV Sales Forecast for a 30% Jump in 2025.
12. Meta. (2024, December 3). Accelerating the Next Wave of Nuclear to Power AI Innovation.
13. NPR. (2024, December 9). Artificial intelligence wants to go nuclear. Will it work?
14. Ibid.
15. SEIA. (2024, December 4). REPORT: U.S. Solar Cell Production Resumes for First Time Since 2019, as Solar Module Manufacturing Sets Record in Q3.
16. SEIA. (2024, December 4). Solar Market Insight Report.

This material represents an assessment of the market environment at a specific point in time and is not intended to be a forecast of future events, or a guarantee of future results. This information is not intended to be individual or personalized investment advice and should not be used for trading purposes. Please consult a financial advisor for more information regarding your investment and/or tax situation.

Investing involves risk, including the possible loss of principal. Narrowly focused investments typically exhibit higher volatility. Risks include but are not limited to rapid changes in technology, intense competition, rapid obsolescence of products and services, loss of intellectual property protections, evolving industry standards and frequent new product introductions, and changes in business cycles and government regulation. International investments may involve risk of capital loss from unfavorable fluctuation in currency values, from differences in generally accepted accounting principles or from social, economic or political instability in other nations. Emerging markets involve heightened risks related to the same factors as well as increased volatility and lower trading volume.

Solar companies may be adversely affected by commodity price volatility, changes in exchange rates, imposition of import controls, availability of certain inputs and materials required for production, depletion of resources, technological developments and labor relations. Data Center REITs and Digital Infrastructure Companies are subject to risks associated with the real estate market, changes in demand for wireless infrastructure and connectivity, rapid product obsolescence, government regulations, and external risks including natural disasters and cyberattacks. Investments in infrastructure-related companies have greater exposure to the potential adverse economic, regulatory, political and other changes affecting such entities. Investments in infrastructure-related companies are subject to various risks including governmental regulations, high interest costs associated with capital construction programs, costs associated with compliance and changes in environmental regulation, economic slowdown and excess capacity, competition from other providers of services and other factors.

Carefully consider the Funds' investment objectives, risk factors, charges, and expenses before investing. This and additional information can be found in the Funds' summary or full prospectus, which may be obtained by calling 1.888.493.8631, or by visiting globalxetfs.com. Please read the prospectus carefully before investing.

Global X Management Company LLC serves as an advisor to Funds. The Funds are distributed by SEI Investments Distribution Co. (SIDCO), which is not affiliated with Global X Management Company LLC or Mirae Asset Global Investments.

Shares of ETFs are bought and sold at market price (not NAV) and are not individually redeemed from the Fund. Brokerage commissions will reduce returns. Beginning October 15, 2020, market price returns are based on the official closing price of an ETF share or, if the official closing price isn't available, the midpoint between the national best bid and national best offer ("NBBO") as of the time the ETF calculates current NAV per share. Prior to October 15, 2020, market price returns were based on the midpoint between the Bid and Ask price. NAVs are calculated using prices as of 4:00 PM Eastern Time. The returns shown do not represent the returns you would receive if you traded shares at other times.

Indices are unmanaged and do not include the effect of fees, expenses or sales charges. One cannot invest directly in an index.