

GLOBAL X ETFs RESEARCH

The Next Big Theme: December 2022



Authored by:

Mayuranki De
Research Analyst

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E-commerce

Surprise Holiday Season Sales Surpass Expectations

Despite persistent inflation and return to store headwinds, U.S. holiday sales got off to a strong start this year, especially online. Compared to 2021, Thanksgiving, Black Friday, and Cyber Monday sales all increased. American consumers spent a record \$5.3 billion online on Thanksgiving Day, up 3% over 2021.¹ Merchants benefitted from big discounts and physical stores being closed on Thanksgiving. Notably, mobile shopping accounted for 55% of online sales, an 8.3% year-over-year (YoY) increase.² Record online revenue from Black Friday and Cyber Monday sales totaled \$9.12 billion and \$11.3 billion, respectively.³ E-commerce giant Shopify generated \$3.4 billion in revenue on Black Friday, a massive leap of 21% YoY.⁴ Cyber Monday sales increased 5.8% YoY. Many retailers offered steep discounts early on in the holiday season, including Amazon and Walmart, but they did not dampen demand on Cyber Monday.

Artificial Intelligence & Technology

Automation at Your Fingertips

More than a million people tried OpenAI’s ChatGPT in the days after its release in November.⁵ The widely accessible artificial intelligence (AI) bot has capabilities that span chatting to writing essays and computer programs. The bot retains threads of dialog so that it can refer to previous questions and answers to inform its next responses, and it can leverage huge volumes of information on the internet. Large language models train ChatGPT to automatically create text based on what it sees. To combat potential misuse of the chat feature, including plagiarism, OpenAI is developing a watermark to identify its work through a detectable signature. ChatGPT is OpenAI’s latest endeavor in the AI space, with previous successes such as GPT-3’s human-like written text and DALL-E’s generative art.

Renewable Energy Producers

Government Funding for Clean Energy Persists

The Biden Administration continued to invest in clean energy with \$13 billion in new financing from the Bipartisan Infrastructure Law to expand and modernize the U.S. electric grid.⁶ An upgraded transmission system is crucial to President Biden’s mission to reduce greenhouse gas emissions 50% below 2005 levels in 2030 and to achieve 100% clean electricity by 2035.⁷ The White House is also looking into approving new transmission lines to support wind-power transmission. The administration announced a \$550 million investment to deploy community-based clean energy initiatives through the Energy Efficiency and



Conservation Block (EECBG) Program.⁸ Similarly, the Department of Energy (DOE) awarded \$100 million to eight companies working on the front lines of technological advancements in clean energy.⁹

Lithium & Electric Vehicles

EV Revolution Accelerates Manufacturers' Lithium Plans

Electric vehicle (EV) manufacturers such as Tesla, BYD, and General Motors have big plans for 2023 and beyond. Tesla has a lithium refinery project in the final steps of negotiations with authorities in Texas. The company intends to invest about \$365 million in the plant in support of Tesla's sustainable product line.¹⁰ Chinese EV giant BYD is considering building a battery plant in the U.S. with investments in electric school buses and battery components. Additionally, the company is seeking EV production in Europe and securing lithium supply from Chile. General Motors secured a \$2.5 billion loan from the U.S. Department of Energy (DOE) for Ultium Cells, the company's joint venture with LG Energy Solution.¹¹ Ultium Cells will use the loan to expedite production at its lithium-ion EV battery plants in Ohio, Tennessee, and Michigan.

Fintech

Buy Now, Pay Later—the 2022 Consumer's Saving Grace

Americans are relying on buy now, pay later (BNPL) methods this holiday season amid inflationary concerns. Leading BNPL platform Afterpay announced that online and in-person transactions increased 120% compared to the pre-holiday period.¹² Square and Afterpay's Festive Forecast Report foresaw this trend when one in six Americans reported plans to use BNPL during the gifting season. Overall, BNPL usage increased by an estimated 68% in the week through November 27 compared with the previous week. BNPL revenue was up 72% for the same period.¹³

Internet of Things

U.S. Aims to Regain Domestic Dominance in Semiconductors

SK Siltron CSS, a new semiconductor manufacturing facility in Michigan, aims to domesticate supply chain processes in the U.S. The project is tied to the CHIPS and Science Act, which includes \$52 billion in funding for U.S. companies involved in semiconductor manufacturing for industries such as technology, electric vehicles, appliances, and weapons systems.¹⁴ Taiwan Semiconductor Manufacturing Co. (TSMC) will strengthen U.S.-based production of semiconductors with 4-nanometer chips when the company opens its \$12 billion plant in Arizona in 2024.¹⁵ The company also plans to add a second plant nearby to ease supply chain concerns for major tech companies that rely on TSMC for chips, including Apple.

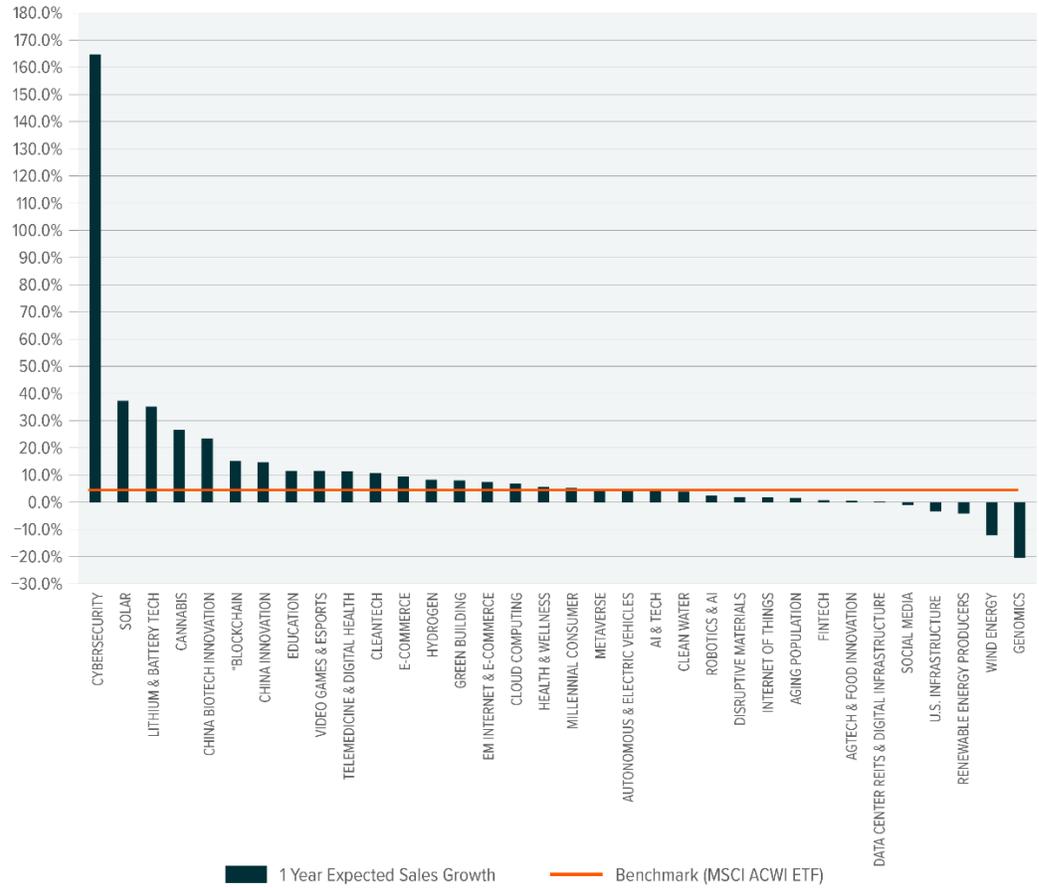
THE NUMBERS

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



THEMATIC EXPECTED SALES GROWTH

Source: Bloomberg, November 30, 2022, Global X ETFs.

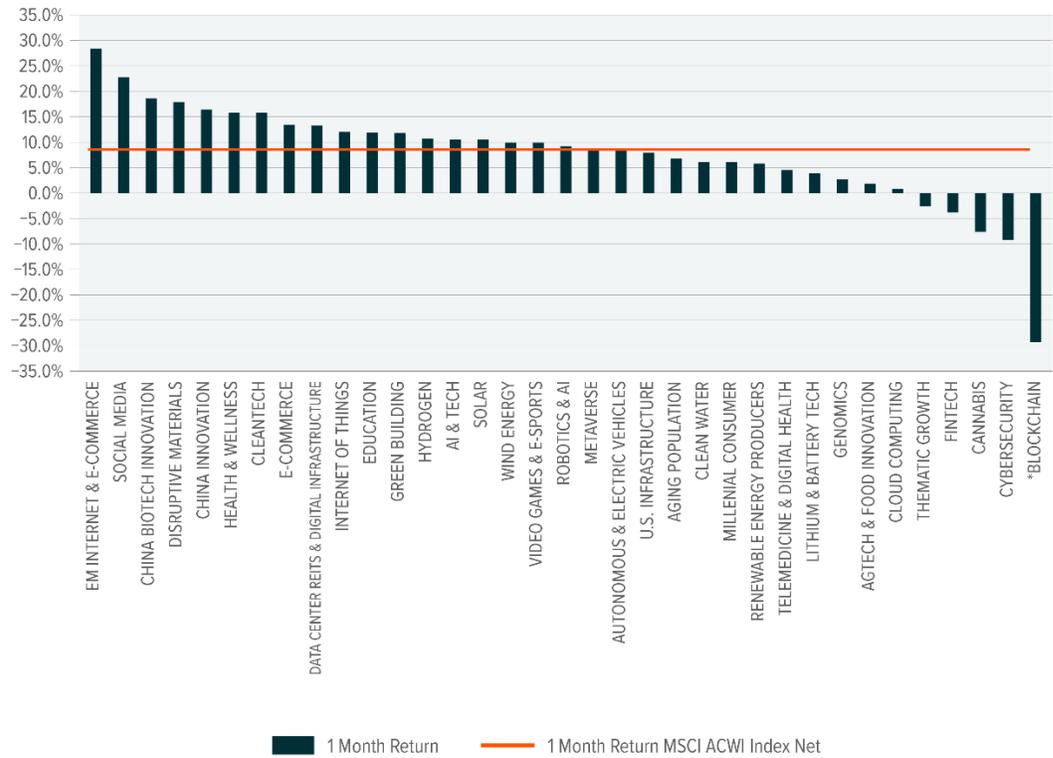


Note: Forward looking based on data and analysis from 11/30/2022.
1 year annualized forward sales growth is the consensus analyst expectations for total sales growth in the next 12 months.
*Blockchain reflects figures according to BKCH ETF



NOVEMBER 2022 THEMATIC ETF RETURNS

Source: Bloomberg, November 30, 2022, Global X ETFs.



Note: The performance data quoted represents past performance and does not guarantee future results.
*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 (11/30/22)				Avg. Annualized % Data as of quarter end (09/30/22)				
	Expense Ratio		1 Month	3 Month	Since Inception	1 Year	3 Year	5 Year	10 Year	Since Inception
Robotics & Artificial Intelligence Inception Date 9/12/2016	0.68%	NAV	7.16%	1.69%	46.48%	-50.39%	-2.78%	-2.94%	-	3.90%
		Market Price	9.23%	4.03%	48.85%	-50.45%	-3.08%	-3.04%	-	3.84%
		Index	7.20%	1.88%	49.90%	-50.13%	-2.13%	-2.62%	-	4.28%
Fintech Inception Date 9/12/2016	0.68%	NAV	-4.40%	-13.54%	43.56%	-55.30%	-9.30%	0.79%	-	6.08%
		Market Price	-3.75%	-12.59%	44.40%	-55.40%	-9.43%	0.65%	-	6.02%
		Index	-4.38%	-13.51%	48.59%	-55.19%	-8.87%	1.36%	-	6.68%
Internet Of Things Inception Date 9/12/2016	0.68%	NAV	11.05%	11.34%	112.92%	-30.96%	7.50%	6.74%	-	9.53%
		Market Price	12.00%	12.29%	114.11%	-31.13%	7.46%	6.70%	-	9.52%
		Index	11.04%	11.38%	117.15%	-30.80%	7.84%	7.07%	-	9.88%
Cloud Computing Inception Date 4/12/2019	0.68%	NAV	0.84%	-1.12%	13.35%	-44.59%	3.42%	-	-	2.17%
		Market Price	0.84%	-1.06%	13.87%	-44.54%	3.51%	-	-	2.33%
		Index	0.92%	-0.96%	15.92%	-44.22%	4.08%	-	-	2.81%
Social Media Inception Date 11/14/2011	0.65%	NAV	21.74%	-6.60%	108.87%	-54.29%	-4.49%	-2.02%	7.58%	6.17%
		Market Price	22.69%	-5.48%	110.32%	-54.38%	-4.54%	-2.10%	7.58%	6.14%
		Index	21.80%	-6.52%	121.11%	-54.20%	-4.06%	-1.53%	8.08%	6.71%
Artificial Intelligence & Technology Inception Date 5/11/2018	0.68%	NAV	9.67%	-0.14%	46.60%	-36.25%	6.81%	-	-	6.22%
		Market Price	10.52%	0.65%	47.96%	-36.08%	6.76%	-	-	6.24%
		Index	9.68%	-0.04%	49.19%	-35.97%	7.27%	-	-	6.63%



Autonomous & Electric Vehicles Inception Date 4/13/2018	0.68%	NAV	7.26%	-3.01%	60.94%	-25.74%	16.15%	-	-	8.19%
		Market Price	8.26%	-2.00%	62.14%	-26.16%	15.90%	-	-	8.07%
		Index	7.29%	-2.93%	62.40%	-25.57%	16.51%	-	-	8.39%
Lithium and Battery Tech Inception Date 7/22/2010	0.75%	NAV	2.06%	-8.15%	159.19%	-19.12%	40.40%	14.22%	9.48%	7.84%
		Market Price	3.94%	-5.86%	162.78%	-19.15%	40.32%	13.99%	9.49%	7.80%
		Index	2.09%	-7.87%	174.97%	-18.62%	40.75%	14.35%	9.97%	8.34%
Genomics and Biotechnology Inception Date 4/5/2019	0.50%	NAV	2.36%	-2.96%	-11.83%	-43.51%	0.30%	-	-	-5.50%
		Market Price	2.66%	-2.39%	-9.85%	-43.60%	0.32%	-	-	-4.94%
		Index	2.43%	-2.79%	-10.24%	-43.28%	0.76%	-	-	-5.04%
Millennial Consumer Inception Date 5/4/2016	0.50%	NAV	6.40%	0.11%	94.88%	-40.14%	1.37%	7.70%	-	9.23%
		Market Price	6.05%	-0.07%	93.89%	-40.32%	1.29%	7.65%	-	9.14%
		Index	6.45%	0.19%	100.93%	-39.90%	1.87%	8.25%	-	9.73%
Aging Population Inception Date 5/09/2016	0.50%	NAV	6.01%	7.60%	82.44%	-18.65%	4.21%	4.99%	-	7.85%
		Market Price	6.79%	8.49%	87.19%	-18.17%	3.90%	4.84%	-	8.18%
		Index	5.99%	7.66%	85.42%	-18.52%	4.42%	5.20%	-	8.12%
Health and Wellness Inception Date 5/9/2016	0.50%	NAV	15.14%	1.91%	50.01%	-35.92%	-2.51%	3.89%	-	3.99%
		Market Price	15.79%	2.25%	51.07%	-36.31%	-2.95%	3.66%	-	3.98%
		Index	15.20%	2.00%	53.99%	-35.73%	-2.17%	4.26%	-	4.41%
E-Commerce Inception Date 11/27/2018	0.50%	NAV	13.80%	-2.93%	16.69%	-49.22%	-3.34%	-	-	0.83%
		Market Price	13.42%	-3.00%	16.21%	-49.25%	-3.54%	-	-	0.70%
		Index	13.82%	-2.85%	18.71%	-49.03%	-2.95%	-	-	1.27%
Us Infrastructure Development Inception Date 3/6/2017	0.47%	NAV	7.96%	9.31%	92.51%	-8.57%	13.14%	9.15%	-	8.66%
		Market Price	7.88%	9.27%	92.51%	-8.61%	13.14%	9.10%	-	8.66%
		Index	8.00%	9.46%	98.20%	-8.07%	13.74%	9.70%	-	9.21%
Cannabis Inception Date 9/17/2019	0.50%	NAV	-7.26%	-11.54%	-88.50%	-73.35%	-50.16%	-	-	-52.38%
		Market Price	-7.62%	-11.06%	-88.72%	-73.29%	-50.31%	-	-	-52.71%
		Index	-7.20%	-11.83%	-90.10%	-74.19%	-52.59%	-	-	-54.66%
Video Games & Esports Inception Date 10/25/2019	0.50%	NAV	8.16%	-9.02%	28.87%	-36.13%	-	-	-	6.77%
		Market Price	9.89%	-7.33%	30.62%	-35.86%	-	-	-	6.70%
		Index	8.16%	-8.95%	30.74%	-35.89%	-	-	-	7.27%
Cybersecurity Inception Date 10/25/2019	0.50%	NAV	-9.61%	-15.53%	51.94%	-20.63%	-	-	-	17.29%
		Market Price	-9.18%	-15.06%	55.35%	-20.69%	-	-	-	18.05%
		Index	-9.44%	-15.33%	53.96%	-20.36%	-	-	-	17.73%
Thematic Growth Inception Date 10/25/2019	0.50%	NAV	-2.54%	-13.39%	6.16%	-47.04%	-	-	-	1.86%
		Market Price	-2.60%	-13.25%	7.59%	-46.98%	-	-	-	2.07%
		Index	-2.54%	-13.33%	5.29%	-47.20%	-	-	-	1.58%
Education Inception Date 7/10/2020	0.50%	NAV	12.23%	7.78%	-51.52%	-44.70%	-	-	-	-33.69%
		Market Price	11.85%	8.39%	-51.39%	-44.39%	-	-	-	-33.69%
		Index	12.34%	7.94%	-50.89%	-44.38%	-	-	-	-33.34%
Telemedicine & Digital Health Inception Date 7/29/2020	0.68%	NAV	4.53%	-0.24%	-19.67%	-36.19%	-	-	-	-12.75%
		Market Price	4.45%	-0.41%	-19.87%	-36.23%	-	-	-	-12.82%
		Index	4.61%	-0.14%	-18.61%	-36.19%	-	-	-	-12.44%
China Biotech Innovation Inception Date 9/22/2020	0.65%	NAV	16.91%	-3.39%	-35.74%	-47.35%	-	-	-	-24.56%
		Market Price	18.61%	-1.52%	-35.27%	-47.76%	-	-	-	-25.13%
		Index	16.93%	-3.25%	-34.80%	-46.97%	-	-	-	-24.04%
Cleantech Inception Date 10/27/2020	0.50%	NAV	14.98%	-2.53%	8.01%	-25.25%	-	-	-	-3.58%
		Market Price	15.76%	-1.57%	8.74%	-25.11%	-	-	-	-3.84%
		Index	15.03%	-2.41%	6.07%	-24.95%	-	-	-	-4.55%
Data Center Reits & Digital Infrastructure Inception Date 10/27/2020	0.50%	NAV	14.00%	-7.52%	-7.78%	-25.35%	-	-	-	-8.79%
		Market Price	13.32%	-8.13%	-8.34%	-26.19%	-	-	-	-8.80%
		Index	14.03%	-7.51%	-7.74%	-25.35%	-	-	-	-8.79%
Emerging Markets Internet & E-Commerce Inception Date 11/09/2020	0.65%	NAV	28.21%	-6.67%	-52.50%	-46.15%	-	-	-	-36.15%
		Market Price	28.42%	-4.99%	-52.16%	-46.20%	-	-	-	-36.15%
		Index	28.28%	-6.47%	-51.97%	-45.99%	-	-	-	-35.85%
Renewable Energy Producers Inception Date 05/27/2015	0.65%	NAV	5.52%	-7.02%	18.16%	-16.86%	-0.06%	3.63%	-	1.37%
		Market Price	5.82%	-6.56%	18.48%	-16.97%	-0.32%	3.45%	-	1.30%
		Index	5.53%	-6.96%	21.56%	-16.56%	0.33%	4.12%	-	1.76%
China Innovation Inception Date 02/22/2021	0.75%	NAV	14.10%	-10.40%	-51.97%	-39.53%	-	-	-	-39.09%
		Market Price	16.35%	-7.80%	-51.21%	-40.12%	-	-	-	-39.56%
		Index	-	-	-	-	-	-	-	-
Clean Water Inception Date 04/08/2021	0.50%	NAV	6.24%	2.58%	-3.17%	-21.38%	-	-	-	-11.14%
		Market Price	6.07%	2.50%	-2.90%	-21.73%	-	-	-	-10.85%
		Index	6.29%	2.66%	-2.68%	-21.14%	-	-	-	-10.86%
Agtech and Food Innovation ETF Inception Date 07/12/2021	0.50%	NAV	2.49%	-6.74%	-37.67%	-33.79%	-	-	-	-37.02%
		Market Price	1.75%	-6.67%	-37.47%	-33.51%	-	-	-	-36.51%
		Index	2.50%	-6.64%	-37.32%	-33.52%	-	-	-	-36.77%
Hydrogen Inception Date 07/12/2021	0.50%	NAV	12.79%	-16.37%	-51.01%	-48.71%	-	-	-	-48.44%
		Market Price	10.69%	-17.68%	-51.61%	-48.97%	-	-	-	-48.44%
		Index	12.83%	-16.27%	-50.84%	-48.62%	-	-	-	-48.34%
Blockchain Inception Date 07/12/2021	0.50%	NAV	-29.19%	-39.97%	-82.81%	-73.98%	-	-	-	-68.38%
		Market Price	-29.28%	-39.71%	-82.69%	-73.98%	-	-	-	-68.34%
		Index	-29.53%	-40.38%	-83.14%	-74.39%	-	-	-	-68.75%



Solar Inception Date 09/08/2021	0.50%	NAV	9.42%	-3.50%	-8.79%	-13.48%	-	-	-	-15.18%
		Market Price	10.49%	-2.71%	-8.12%	-14.01%	-	-	-	-15.30%
		Index	9.47%	-3.38%	-8.17%	-12.99%	-	-	-	-14.69%
Wind Energy Inception Date 09/08/2021	0.50%	NAV	7.91%	-10.12%	-28.92%	-33.89%	-	-	-	-32.16%
		Market Price	9.89%	-8.07%	-27.70%	-34.53%	-	-	-	-32.63%
		Index	7.97%	-10.05%	-28.51%	-33.58%	-	-	-	-31.83%
Disruptive Materials Inception Date 01/24/22	0.59%	NAV	15.77%	6.63%	-10.83%	-	-	-	-	-
		Market Price	17.92%	8.83%	-9.67%	-	-	-	-	-
		Index	15.86%	6.82%	-10.46%	-	-	-	-	-
Green Building Inception Date 04/11/22	0.45%	NAV	10.91%	0.62%	-16.82%	-	-	-	-	-
		Market Price	11.76%	0.86%	-16.58%	-	-	-	-	-
		Index	10.97%	0.89%	-16.95%	-	-	-	-	-
Metaverse Inception Date 04/26/22	0.50%	NAV	7.80%	-8.75%	-18.87%	-	-	-	-	-
		Market Price	8.70%	-7.94%	-18.20%	-	-	-	-	-
		Index	7.88%	-8.67%	-18.70%	-	-	-	-	-

P/S AND EV/S

Source: Bloomberg, data is as of 11/30/22 and 10/31/22, Global X ETFs.

Ticker	Name	P/S		EV/S	
		11/30/22	10/31/22	11/30/22	10/31/22
GNOM	Global X Genomics & Biotechnology ETF	6.52	5.84	5.99	5.36
BUG	Global X Cybersecurity ETF	5.73	7.20	5.86	7.32
CHB	Global X China Biotech Innovation ETF	5.13	3.32	4.72	3.19
HYDR	Global X Hydrogen ETF	4.70	4.18	4.18	3.72
VR	Global X Metaverse ETF	3.80	3.44	3.67	3.27
AGNG	Global X Aging Population ETF	3.72	3.50	4.33	4.15
CLOU	Global X Cloud Computing ETF	3.68	4.10	4.15	4.54
BOTZ	Global X Robotics & Artificial Intelligence ETF	3.57	3.30	3.49	3.34
VPN	Global X Data Center REITs & Digital Infrastructure ETF	3.14	2.80	4.61	4.40
EDOC	Global X Telemedicine & Digital Health ETF	3.08	2.84	3.11	2.90
HERO	Global X Video Games & Esports ETF	2.97	2.70	2.88	2.57
FINX	Global X FinTech ETF	2.83	2.92	3.52	3.75
AIQ	Global X Artificial Intelligence & Technology ETF	2.82	2.60	2.87	2.68
RNRG	Global X Renewable Energy Producers ETF	2.77	2.66	4.75	4.92
SOCL	Global X Social Media ETF	2.68	2.26	2.49	2.07
SNSR	Global X Internet of Things ETF	2.58	2.32	2.85	2.62
RAYS	Global X Solar ETF	2.46	2.29	3.07	2.91
POTX	Global X Cannabis ETF	2.42	2.00	2.83	2.29
SPX	S&P 500 Index	2.38	2.28	2.66	2.58
KEJI	Global X China Innovation ETF	2.34	2.31	1.86	1.79
AQWA	Global X Clean Water ETF	2.28	2.17	3.17	3.10
LIT	Global X Lithium and Battery Tech ETF	2.26	1.78	2.23	1.83
EWEB	Global X Emerging Markets Internet & E-commerce ETF	2.18	1.69	2.11	1.67
MILN	Global X Millennial Consumer ETF	1.94	1.84	2.22	2.14
WNDY	Global X Wind Energy ETF	1.79	1.59	2.89	2.68
ACWI	MSCI ACWI Index	1.77	1.65	2.00	1.88
GRNR	Global X Green Building ETF	1.74	1.59	3.20	3.06
EDUT	Global X Education ETF	1.64	1.52	1.89	1.62
DMAT	Global X Disruptive Materials ETF	1.63	1.41	1.82	1.62
CTEC	Global X Cleantech ETF	1.44	1.21	1.72	1.50
BKCH	Global X Blockchain ETF	1.43	1.16	2.55	1.29
PAVE	Global X U.S. Infrastructure ETF	1.34	1.28	1.61	1.55
BFIT	Global X Health & Wellness ETF	1.22	1.06	1.40	1.25
KROP	Global X AgTech & Food Innovation ETF	1.20	1.20	1.42	1.39
EBIZ	Global X E-commerce ETF	1.08	0.94	0.99	0.85
DRIV	Global X Autonomous & Electric Vehicles ETF	0.89	0.83	0.94	0.89

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



F12M SALES GROWTH, PSG, AND EVSG

Source: Bloomberg, data is as of 11/30/22 and 10/31/22, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		11/30/22	10/31/22	11/30/22	10/31/22	11/30/22	10/31/22
BUG	Global X Cybersecurity ETF	164.6%	70.8%	0.03	0.10	0.04	0.10
RAYS	Global X Solar ETF	37.3%	32.5%	0.07	0.07	0.08	0.09
LIT	Global X Lithium and Battery Tech ETF	35.1%	27.8%	0.06	0.06	0.06	0.07
POTX	Global X Cannabis ETF	26.6%	44.2%	0.09	0.05	0.11	0.05
CHB	Global X China Biotech Innovation ETF	23.4%	12.7%	0.22	0.26	0.20	0.25
BKCH	Global X Blockchain ETF	15.2%	16.4%	0.09	0.07	0.17	0.08
KEJI	Global X China Innovation ETF	14.7%	13.4%	0.16	0.17	0.13	0.13
EDUT	Global X Education ETF	11.5%	8.8%	0.14	0.17	0.16	0.18
HERO	Global X Video Games & Esports ETF	11.5%	10.9%	0.26	0.25	0.25	0.24
EDOC	Global X Telemedicine & Digital Health ETF	11.4%	10.0%	0.27	0.28	0.27	0.29
CTEC	Global X Cleantech ETF	10.7%	2.0%	0.13	0.59	0.16	0.74
EBIZ	Global X E-commerce ETF	9.4%	10.7%	0.11	0.09	0.10	0.08
HYDR	Global X Hydrogen ETF	8.3%	2.4%	0.56	1.74	0.50	1.55
GRNR	Global X Green Building ETF	8.0%	6.7%	0.22	0.23	0.40	0.45
EWEB	Global X Emerging Markets Internet & E-commerce ETF	7.4%	7.0%	0.29	0.24	0.29	0.24
CLOU	Global X Cloud Computing ETF	6.8%	8.5%	0.54	0.48	0.61	0.53
BFIT	Global X Health & Wellness ETF	5.7%	3.1%	0.21	0.34	0.25	0.40
MILN	Global X Millennial Consumer ETF	5.2%	6.9%	0.37	0.26	0.43	0.31
SPX	S&P 500 Index	4.8%	5.6%	0.49	0.41	0.55	0.46
VR	Global X Metaverse ETF	4.8%	5.2%	0.79	0.67	0.76	0.63
DRIV	Global X Autonomous & Electric Vehicles ETF	4.4%	3.5%	0.20	0.24	0.21	0.25
AIQ	Global X Artificial Intelligence & Technology ETF	4.1%	4.7%	0.68	0.55	0.69	0.57
AQWA	Global X Clean Water ETF	3.9%	3.9%	0.59	0.55	0.82	0.79
ACWI	MSCI ACWI Index	3.6%	4.1%	0.49	0.40	0.56	0.46
BOTZ	Global X Robotics & Artificial Intelligence ETF	2.5%	0.6%	1.42	5.10	1.39	5.15
DMAT	Global X Disruptive Materials ETF	1.9%	1.6%	0.84	0.86	0.94	0.99
SNSR	Global X Internet of Things ETF	1.8%	4.6%	1.40	0.50	1.54	0.57
AGNG	Global X Aging Population ETF	1.6%	0.7%	2.32	4.69	2.70	5.56
FINX	Global X FinTech ETF	0.7%	3.4%	3.94	0.86	4.90	1.10
KROP	Global X AgTech & Food Innovation ETF	0.5%	2.7%	2.28	0.44	2.72	0.52
VPN	Global X Data Center REITs & Digital Infrastructure ETF	0.2%	0.7%	15.41	3.79	22.62	5.95
SOCL	Global X Social Media ETF	-1.1%	-1.9%	-2.52	-1.18	-2.34	-1.08
PAVE	Global X U.S. Infrastructure Development ETF	-3.4%	0.3%	-0.40	4.91	-0.47	5.95
RNRG	Global X Renewable Energy Producers ETF	-4.1%	0.1%	-0.67	29.37	-1.16	54.44
WNDY	Global X Wind Energy ETF	-12.1%	-15.8%	-0.15	-0.10	-0.24	-0.17
GNOM	Global X Genomics & Biotechnology ETF	-20.5%	-20.4%	-0.32	-0.29	-0.29	-0.26

Note: F12 Sales Growth refers to the consensus analyst expectations for total sales growth in the next 12 months.
PSG and EVSG refer to Price-to-Sales over F12 Sales Growth and Enterprise Value over F12 Sales Growth, respectively.
N/A's reflect a negative growth number in the denominator and similar to traditional PEG ratios aren't typically displayed as such (hence the N/A).

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- **Multi-Theme:** [Thematic Growth ETF \(GXTG\)](#), [China Innovation ETF \(KEJI\)](#)

Footnotes

1. Kaplan, M. (2022, December 1). *Sales report 2022: Thanksgiving, black Friday, cyber Monday*. PracticalEcommerce.
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