

GLOBAL X ETFs RESEARCH

# The Next Big Theme: January 2023



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Topic: [Disruptive Technology](#), [Physical Environment](#), [People & Demographics](#)



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## Metaverse & Video Games

### *Virtual Reality Immerses Itself in 2023*

Meta Platforms will allocate an estimated 20% of its overall costs and expenses in 2023 to Reality Labs, its virtual reality (VR) and augmented reality (AR) and Metaverse business.<sup>1</sup> In Q3 2022, Meta allocated 18% of its spending to Reality Labs.<sup>2</sup> The increased investment reflects the company's commitment to developing immersive technologies despite the economic downturn and market volatility that hit big tech particularly hard in 2022. This approach is in line with the rapid innovation seen in the VR and AR space at CES 2023. Many companies debuted exciting new products that push boundaries, including Sony PlayStation's VR2 gaming headset, HTC's Vive XR Elite headset, and Lumus' Z-lens technology.

## Artificial Intelligence & Cloud Computing

### *ChatGPT Enters the Cloud*

Microsoft is looking to invest \$10 billion into OpenAI, which would value the emerging leader in artificial intelligence at \$29 billion.<sup>3</sup> The deal includes a provision for Microsoft to acquire a 75% share of OpenAI's profits until the investment is recouped, and ultimately, a 49% stake in the company.<sup>4</sup> This move is seen as a strategic one for Microsoft, as the integration of OpenAI's technology, particularly the natural language processing model ChatGPT, could enhance the company's search engine capabilities and challenge the dominance of market leader Google. Additionally, Microsoft is expanding its partnership with OpenAI by making their Azure OpenAI Service available to the public, enabling Azure cloud customers to use OpenAI tools for cloud applications such as Dall-E AI art generation and the GPT-3.5 language system, and even plans to add access to ChatGPT in the near future.

## Electric Vehicles

### *Government Pumps in Billions for a Cleaner America*

The U.S. Department of Energy recently secured a significant \$2.5 billion loan to Ultium to support the construction of large-scale electric vehicle (EV) lithium-ion battery cell manufacturing plants.<sup>5</sup> This venture is a collaboration between General Motors and LG-Energy Solution and will involve the construction of state-of-the-art facilities in Ohio, Tennessee, and Michigan, with the possibility of a fourth site in Indiana. The Michigan facility alone is projected to open as early as 2024 and is a key step towards President Biden's goal of achieving 50% of U.S. auto production to be electric or plug-in hybrid electric vehicles by 2030.<sup>6</sup> The commitment to clean transportation extends to the state level, with the California Energy Commission approving a substantial \$2.9 billion investment plan to expedite the state's goals for electric vehicle charging



by 2025.<sup>7</sup> This funding will support the roll-out of thousands of zero-emission trucks, school buses, and transit buses, and is projected to result in the installation of 90,000 EV chargers across the state - significantly surpassing the current number of 80,000.<sup>8</sup> Combined with additional funding from utility companies and other programs, these investments are expected to play a pivotal role in California reaching its goal of deploying 250,000 EV chargers by 2025.

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## Genomics & Aging Population

### *Covid-19 Victory: Moderna Takes on Cancer*

Utilizing the same messenger RNA technology that made their COVID-19 vaccines successful, Moderna created an experimental cancer vaccine that shows promising results in the treatment of melanoma. In a mid-stage trial, the combination of Moderna's personalized cancer vaccine and Merck & Co.'s highly effective immunotherapy Keytruda resulted in a 44% reduction in the risk of recurrence or death, compared to Keytruda alone.<sup>9</sup>

### *Eli Lilly's 2023 Biopharma Breakthrough*

Eli Lilly is poised for a transformative year as it sets out ambitious plans to submit regulatory applications for five innovative products, launch six phase three trials, and unveil data from six other phase 3 trials.<sup>10</sup> These efforts along with diabetes treatment Mounjaro are expected to generate over \$30 billion in sales in 2023.<sup>11</sup> Regulatory submissions in the U.S., Europe, and Japan include Empagliflozin for chronic kidney disease and donanemab for early Alzheimer's disease. Lilly also plans to submit tirzepatide for obesity in the U.S. and Europe and lebrikizumab for atopic dermatitis in Japan, further solidifying its position as a leader in pharmaceutical innovation.

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## Solar Energy & Clean Technology

### *Solar Energy Achieves Record Conversion Efficiency*

JinkoSolar, a leading solar module manufacturer, announced a significant development in its N-type monocrystalline silicon tunnel oxide passivated contact (TOPCon) solar cell technology. The company achieved a maximum solar conversion efficiency of 26.4%, surpassing its previous record of 26.1% set in October.<sup>12</sup> The company used advanced techniques such as bulk defect passivation technology, a novel structure polysilicon contact, and metal-silicon interface recombination restraint technology. Additionally, Canadian Solar announced that its majority-owned subsidiary, CSI Solar Co. Ltd., will begin mass-producing high-efficiency N-type TOPCon solar modules with a power output of up to 690 watts in Q1 2023.<sup>13</sup>

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## Internet of Things

### *Semiconductors in it For the Long Haul*

The global market for semiconductor manufacturing equipment is on track to reach a new peak in 2022, with original equipment manufacturers forecasting sales of \$108.5 billion, a 6% increase from the previous record of \$102.5 billion set in 2021.<sup>14</sup> This marks three consecutive years of record revenue for the industry. However, the market is expected to experience a temporary dip in 2023, contracting to \$91.2 billion, before rebounding in 2024 due to strong demand in both front-end and back-end segments.<sup>15</sup> Additionally, the semiconductor ecosystem is experiencing a surge in growth, as companies leverage funding from the CHIPS Act to drive innovation and production, resulting in over 40 new projects, nearly \$200 billion in private investments across 16 states, and the creation of 40,000 new jobs in the industry.<sup>16</sup>

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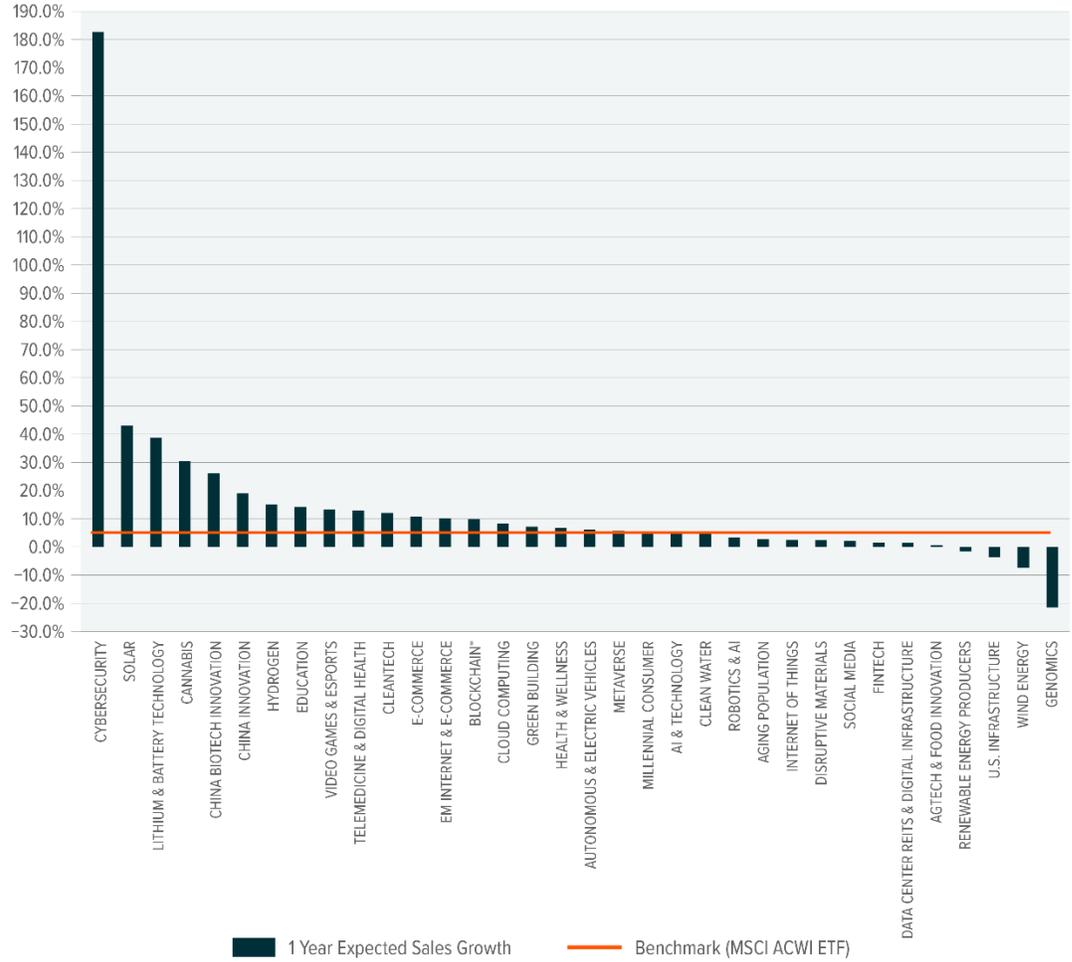
## THE NUMBERS



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

### THEMATIC EXPECTED SALES GROWTH

Source: Bloomberg, December 31, 2022, Global X ETFs.

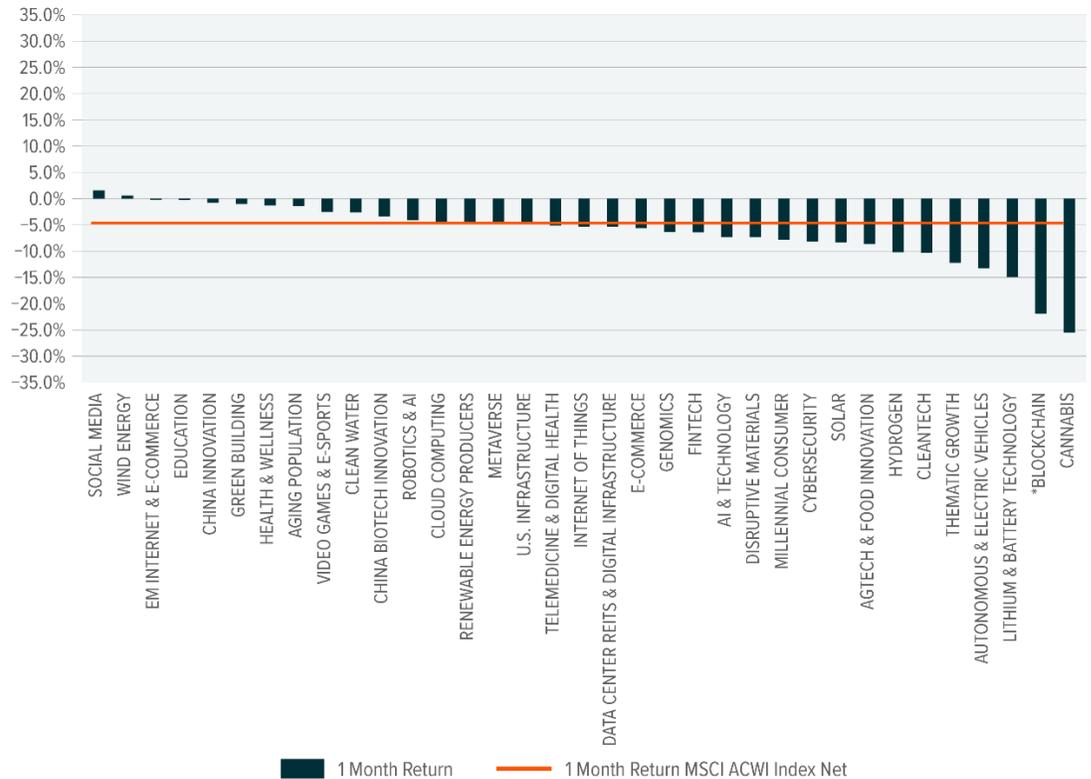


Note: Forward looking based on data and analysis from 12/31/2022.  
1 year annualized forward sales growth is the consensus analyst expectations for total sales growth in the next 12 months.  
\*Blockchain reflects figures according to BKCH ETF



## DECEMBER 2022 THEMATIC ETF RETURNS

Source: Bloomberg, December 31, 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](http://www.globalxetfs.com).

Standard Performance		Cumulative % Data as of month end (12/31/22)				Avg. Annualized % Data as of quarter end (12/31/22)				
	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	-2.18%	13.66%	43.29%	-42.49%	-1.93%	-2.16%	-	5.87%
		Market Price	-4.11%	13.66%	42.74%	-42.69%	-1.87%	-2.24%	-	5.81%
		Index	-2.18%	13.80%	46.64%	-42.20%	-1.31%	-1.69%	-	6.26%
Fintech Inception Date 9/12/2016	0.68%	NAV	-6.26%	-5.84%	34.58%	-52.01%	-12.68%	-1.50%	-	4.82%
		Market Price	-6.37%	-5.07%	35.20%	-51.79%	-12.53%	-1.49%	-	4.90%
		Index	-6.25%	-5.82%	39.31%	-51.92%	-12.31%	-0.96%	-	5.40%
Internet Of Things Inception Date 9/12/2016	0.68%	NAV	-4.33%	17.39%	103.70%	-25.33%	7.71%	9.01%	-	11.95%
		Market Price	-5.28%	16.96%	102.80%	-25.78%	7.52%	8.85%	-	11.87%
		Index	-4.31%	17.47%	107.79%	-25.17%	8.11%	9.35%	-	12.30%
Cloud Computing Inception Date 4/12/2019	0.68%	NAV	-4.35%	0.63%	8.42%	-39.52%	1.19%	-	-	2.19%
		Market Price	-4.47%	0.44%	8.78%	-39.53%	1.15%	-	-	2.29%
		Index	-4.29%	0.78%	10.95%	-39.10%	1.83%	-	-	2.83%
Social Media Inception Date 11/14/2011	0.65%	NAV	2.51%	11.57%	114.11%	-42.27%	-3.56%	-1.16%	9.41%	7.08%
		Market Price	1.64%	11.75%	113.77%	-42.38%	-3.51%	-1.16%	9.39%	7.06%
		Index	2.58%	11.80%	126.80%	-42.13%	-3.11%	-0.64%	9.94%	7.63%



Artificial Intelligence & Technology Inception Date 5/11/2018	0.68%	NAV	-6.15%	5.56%	37.59%	-36.18%	4.53%	-	-	7.11%
		Market Price	-7.29%	5.14%	37.18%	-36.45%	4.39%	-	-	7.04%
		Index	-6.11%	5.67%	40.07%	-35.93%	4.98%	-	-	7.53%
Autonomous & Electric Vehicles Inception Date 4/13/2018	0.68%	NAV	-11.97%	-0.35%	41.67%	-33.63%	11.27%	-	-	7.66%
		Market Price	-13.23%	-0.56%	40.69%	-34.14%	11.01%	-	-	7.50%
		Index	-12.02%	-0.33%	42.87%	-33.57%	11.62%	-	-	7.85%
Lithium and Battery Tech Inception Date 7/22/2010	0.75%	NAV	-13.30%	-10.56%	124.71%	-29.69%	29.82%	10.10%	8.81%	6.72%
		Market Price	-14.87%	-10.54%	123.71%	-29.92%	29.70%	9.98%	8.79%	6.68%
		Index	-13.28%	-10.29%	138.46%	-29.28%	30.23%	10.28%	9.32%	7.23%
Genomics and Biotechnology Inception Date 4/5/2019	0.50%	NAV	-5.87%	1.12%	-17.01%	-36.09%	-6.63%	-	-	-4.86%
		Market Price	-6.30%	0.80%	-15.53%	-36.27%	-6.74%	-	-	-4.41%
		Index	-5.88%	1.20%	-15.52%	-35.86%	-6.24%	-	-	-4.41%
Millennial Consumer Inception Date 5/4/2016	0.50%	NAV	-7.87%	1.95%	79.54%	-38.50%	0.55%	6.65%	-	9.18%
		Market Price	-7.81%	2.04%	78.74%	-38.46%	0.50%	6.59%	-	9.11%
		Index	-7.82%	2.12%	85.22%	-38.24%	1.07%	7.20%	-	9.69%
Aging Population Inception Date 5/09/2016	0.50%	NAV	-0.75%	11.66%	81.07%	-8.52%	4.18%	7.01%	-	9.34%
		Market Price	-1.42%	11.59%	84.53%	-8.64%	4.14%	6.89%	-	9.65%
		Index	-0.70%	11.71%	84.12%	-8.36%	4.39%	7.22%	-	9.62%
Health and Wellness Inception Date 5/9/2016	0.50%	NAV	-0.25%	16.48%	49.63%	-23.93%	-0.12%	5.80%	-	6.25%
		Market Price	-1.29%	16.19%	49.13%	-24.64%	-0.59%	5.44%	-	6.19%
		Index	-0.25%	16.57%	53.61%	-23.71%	0.22%	6.16%	-	6.67%
E-Commerce Inception Date 11/27/2018	0.50%	NAV	-5.54%	6.79%	10.22%	-40.77%	-3.51%	-	-	2.40%
		Market Price	-5.56%	6.83%	9.75%	-40.96%	-3.72%	-	-	2.30%
		Index	-5.52%	6.84%	12.16%	-40.55%	-3.13%	-	-	2.84%
Us Infrastructure Development Inception Date 3/6/2017	0.47%	NAV	-4.65%	15.52%	83.55%	-7.08%	15.00%	10.39%	-	10.99%
		Market Price	-4.69%	15.48%	83.48%	-7.18%	14.92%	10.32%	-	10.98%
		Index	-4.62%	15.72%	89.05%	-6.55%	15.62%	10.95%	-	11.55%
Cannabis Inception Date 9/17/2019	0.50%	NAV	-25.27%	-18.09%	-91.40%	-67.42%	-48.25%	-	-	-52.56%
		Market Price	-25.51%	-18.23%	-91.59%	-67.30%	-48.34%	-	-	-52.89%
		Index	-25.65%	-18.54%	-92.64%	-68.38%	-50.54%	-	-	-54.74%
Video Games & Esports Inception Date 10/25/2019	0.50%	NAV	-1.03%	5.25%	27.55%	-33.52%	5.34%	-	-	7.94%
		Market Price	-2.47%	5.31%	27.39%	-33.37%	5.25%	-	-	7.89%
		Index	-1.01%	5.32%	29.42%	-33.32%	5.84%	-	-	8.43%
Cybersecurity Inception Date 10/25/2019	0.50%	NAV	-7.73%	-12.19%	40.19%	-33.68%	8.87%	-	-	11.19%
		Market Price	-8.18%	-12.34%	42.64%	-33.67%	8.65%	-	-	11.79%
		Index	-7.67%	-11.95%	42.14%	-33.28%	9.39%	-	-	11.67%
Thematic Growth Inception Date 10/25/2019	0.50%	NAV	-11.51%	-11.00%	-6.06%	-48.03%	4.60%	-	-	-1.94%
		Market Price	-12.19%	-11.03%	-5.53%	-48.09%	-4.81%	-	-	-1.77%
		Index	-11.52%	-11.03%	-6.84%	-48.16%	-4.85%	-	-	-2.20%
Education Inception Date 7/10/2020	0.50%	NAV	0.02%	20.95%	-51.51%	-18.37%	-	-	-	-25.34%
		Market Price	-0.30%	20.89%	-51.54%	-17.95%	-	-	-	-25.36%
		Index	0.03%	21.07%	-50.88%	-17.89%	-	-	-	-24.95%
Telemedicine & Digital Health Inception Date 7/29/2020	0.68%	NAV	-4.50%	3.18%	-23.28%	-29.43%	-	-	-	-10.36%
		Market Price	-5.08%	2.48%	-23.94%	-29.99%	-	-	-	-10.67%
		Index	-4.46%	3.77%	-22.24%	-29.07%	-	-	-	-9.85%
China Biotech Innovation Inception Date 9/22/2020	0.65%	NAV	-1.03%	12.44%	-36.40%	-33.21%	-	-	-	-18.05%
		Market Price	-3.38%	12.28%	-37.46%	-33.91%	-	-	-	-18.65%
		Index	-0.97%	12.60%	-35.43%	-32.74%	-	-	-	-17.50%
Cleantech Inception Date 10/27/2020	0.50%	NAV	-9.10%	5.34%	-1.82%	-16.60%	-	-	-	-0.84%
		Market Price	-10.26%	5.22%	-2.42%	-16.82%	-	-	-	-1.12%
		Index	-9.10%	5.48%	-3.58%	-16.22%	-	-	-	-1.66%
Data Center Reits & Digital Infrastructure Inception Date 10/27/2020	0.50%	NAV	-5.58%	3.96%	-12.93%	-30.47%	-	-	-	-6.16%
		Market Price	-5.30%	3.65%	-13.19%	-30.97%	-	-	-	-6.29%
		Index	-5.70%	3.86%	-13.00%	-30.51%	-	-	-	-6.19%
Emerging Markets Internet & E-Commerce Inception Date 11/09/2020	0.65%	NAV	1.90%	13.05%	-51.60%	-28.05%	-	-	-	-28.73%
		Market Price	-0.19%	11.52%	-52.25%	-28.81%	-	-	-	-29.18%
		Index	1.96%	13.33%	-51.03%	-27.76%	-	-	-	-28.34%
Renewable Energy Producers Inception Date 05/27/2015	0.65%	NAV	-4.06%	2.57%	13.36%	-15.06%	-2.25%	3.81%	-	1.66%
		Market Price	-4.63%	2.73%	13.00%	-15.15%	-2.31%	3.74%	-	1.62%
		Index	-4.01%	2.67%	16.69%	-14.73%	-1.88%	4.22%	-	2.05%
China Innovation Inception Date 02/22/2021	0.75%	NAV	2.17%	8.61%	-50.93%	-32.37%	-	-	-	-31.87%
		Market Price	-0.82%	8.45%	-51.61%	-33.05%	-	-	-	-32.39%
		Index	-	-	-	-	-	-	-	-
Clean Water Inception Date 04/08/2021	0.50%	NAV	-2.27%	12.70%	-5.37%	-19.62%	-	-	-	-3.14%
		Market Price	-2.62%	12.08%	-5.44%	-19.81%	-	-	-	-3.18%
		Index	-2.23%	12.81%	-4.84%	-19.38%	-	-	-	-2.83%
Agtech and Food Innovation ETF Inception Date 07/12/2021	0.50%	NAV	-8.49%	0.24%	-42.95%	-27.09%	-	-	-	-31.72%
		Market Price	-8.59%	-0.53%	-42.84%	-27.23%	-	-	-	-31.62%
		Index	-8.45%	0.35%	-42.61%	-26.76%	-	-	-	-31.44%
Hydrogen Inception Date 07/12/2021	0.50%	NAV	-10.76%	-1.88%	-56.24%	-46.74%	-	-	-	-42.98%
		Market Price	-10.16%	-2.51%	-56.52%	-47.24%	-	-	-	-43.23%
		Index	-10.66%	-1.74%	-56.08%	-46.64%	-	-	-	-42.84%
Blockchain Inception Date 07/12/2021	0.50%	NAV	-21.72%	-45.23%	-86.54%	-85.23%	-	-	-	-74.42%
		Market Price	-21.86%	-45.02%	-86.47%	-85.16%	-	-	-	-74.33%
		Index	-21.88%	-45.60%	-86.83%	-85.50%	-	-	-	-74.78%



Solar Inception Date 09/08/2021	0.50%	NAV	-7.48%	0.49%	-15.61%	-12.44%	-	-	-	-12.13%
		Market Price	-8.28%	0.49%	-15.73%	-13.31%	-	-	-	-12.23%
		Index	-7.44%	0.59%	-15.00%	-11.95%	-	-	-	-11.65%
Wind Energy Inception Date 09/08/2021	0.50%	NAV	2.78%	10.17%	-26.98%	-22.26%	-	-	-	-21.31%
		Market Price	0.55%	10.49%	-27.31%	-22.94%	-	-	-	-21.58%
		Index	2.78%	10.31%	-26.52%	-21.90%	-	-	-	-20.93%
Disruptive Materials Inception Date 01/24/22	0.59%	NAV	-5.51%	10.06%	-15.75%	-	-	-	-	-
		Market Price	-7.34%	10.62%	-16.30%	-	-	-	-	-
		Index	-5.49%	10.28%	-15.38%	-	-	-	-	-
Green Building Inception Date 04/11/22	0.45%	NAV	-0.32%	12.58%	-17.08%	-	-	-	-	-
		Market Price	-1.03%	12.88%	-17.44%	-	-	-	-	-
		Index	-0.27%	12.78%	-17.18%	-	-	-	-	-
Metaverse Inception Date 04/26/22	0.50%	NAV	-3.38%	2.05%	-21.61%	-	-	-	-	-
		Market Price	-4.69%	1.49%	-22.04%	-	-	-	-	-
		Index	-3.39%	2.12%	-21.45%	-	-	-	-	-

## P/S AND EV/S

Source: Bloomberg, data is as of 12/31/22 and 11/30/22, Global X ETFs.

Ticker	Name	P/S		EV/S	
		12/31/22	11/30/22	12/31/22	11/30/22
GNOM	Global X Genomics & Biotechnology ETF	6.14	6.52	5.57	5.99
BUG	Global X Cybersecurity ETF	5.27	5.73	5.20	5.86
HYDR	Global X Hydrogen ETF	5.09	4.70	4.05	4.18
CHB	Global X China Biotech Innovation ETF	5.07	5.13	4.62	4.72
CLOU	Global X Cloud Computing ETF	3.74	3.68	3.98	4.15
AGNG	Global X Aging Population ETF	3.66	3.72	4.27	4.33
VR	Global X Metaverse ETF	3.55	3.80	3.34	3.67
BOTZ	Global X Robotics & Artificial Intelligence ETF	3.49	3.57	3.43	3.49
EDOC	Global X Telemedicine & Digital Health ETF	2.94	3.08	2.96	3.11
HERO	Global X Video Games & Esports ETF	2.93	2.97	2.82	2.88
VPN	Global X Data Center REITs & Digital Infrastructure ETF	2.87	3.14	4.25	4.61
SOCL	Global X Social Media ETF	2.75	2.68	2.55	2.49
FINX	Global X FinTech ETF	2.66	2.83	3.41	3.52
RNRG	Global X Renewable Energy Producers ETF	2.65	2.77	4.62	4.75
AIQ	Global X Artificial Intelligence & Technology ETF	2.63	2.82	2.70	2.87
SNSR	Global X Internet of Things ETF	2.47	2.58	2.75	2.85
KEJI	Global X China Innovation ETF	2.43	2.34	1.91	1.86
AQWA	Global X Clean Water ETF	2.24	2.28	3.12	3.17
SPX	S&P 500 Index	2.23	2.38	2.52	2.66
EWEB	Global X Emerging Markets Internet & E-commerce ETF	2.22	2.18	2.15	2.11
RAYX	Global X Solar ETF	2.20	2.46	2.73	3.07
WNDY	Global X Wind Energy ETF	2.06	1.79	3.02	2.89
POTX	Global X Cannabis ETF	2.00	2.42	2.22	2.83
LIT	Global X Lithium and Battery Tech ETF	1.96	2.26	1.96	2.23
MILN	Global X Millennial Consumer ETF	1.78	1.94	2.07	2.22
GRNR	Global X Green Building ETF	1.74	1.74	3.22	3.20
ACWI	MSCI ACWI Index	1.70	1.77	1.93	2.00
EDUT	Global X Education ETF	1.61	1.64	1.87	1.89
DMAT	Global X Disruptive Materials ETF	1.54	1.63	1.74	1.82
CTEC	Global X Cleantech ETF	1.29	1.44	1.60	1.72
PAVE	Global X U.S. Infrastructure ETF	1.28	1.34	1.54	1.61
BFIT	Global X Health & Wellness ETF	1.21	1.22	1.39	1.40
KROP	Global X AgTech & Food Innovation ETF	1.15	1.20	1.50	1.42
BKCH	Global X Blockchain ETF	1.11	1.43	1.78	2.55
EBIZ	Global X E-commerce ETF	1.02	1.08	0.93	0.99
DRIV	Global X Autonomous & Electric Vehicles ETF	0.77	0.89	0.84	0.94

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 12/31/22 and 11/30/22, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		12/31/22	11/30/22	12/31/22	11/30/22	12/31/22	11/30/22
BUG	Global X Cybersecurity ETF	182.7%	164.6%	0.03	0.03	0.03	0.04
RAYS	Global X Solar ETF	43.1%	37.3%	0.05	0.07	0.06	0.08
LIT	Global X Lithium and Battery Tech ETF	38.7%	35.1%	0.05	0.06	0.05	0.06
POTX	Global X Cannabis ETF	30.4%	26.6%	0.07	0.09	0.07	0.11
CHB	Global X China Biotech Innovation ETF	26.1%	23.4%	0.19	0.22	0.18	0.20
KEJI	Global X China Innovation ETF	19.0%	14.7%	0.13	0.16	0.10	0.13
HYDR	Global X Hydrogen ETF	15.0%	8.3%	0.34	0.56	0.27	0.50
EDUT	Global X Education ETF	14.2%	11.5%	0.11	0.14	0.13	0.16
HERO	Global X Video Games & Esports ETF	13.3%	11.5%	0.22	0.26	0.21	0.25
EDOC	Global X Telemedicine & Digital Health ETF	12.9%	11.4%	0.23	0.27	0.23	0.27
CTEC	Global X Cleantech ETF	12.1%	10.7%	0.11	0.13	0.13	0.16
EBIZ	Global X E-commerce ETF	10.8%	9.4%	0.09	0.11	0.09	0.10
EWEB	Global X Emerging Markets Internet & E-commerce ETF	10.1%	7.4%	0.22	0.29	0.21	0.29
BKCH	Global X Blockchain ETF	9.9%	15.2%	0.11	0.09	0.18	0.17
CLOU	Global X Cloud Computing ETF	8.3%	6.8%	0.45	0.54	0.48	0.61
GRNR	Global X Green Building ETF	7.2%	8.0%	0.24	0.22	0.44	0.40
BFIT	Global X Health & Wellness ETF	6.8%	5.7%	0.18	0.21	0.20	0.25
DRIV	Global X Autonomous & Electric Vehicles ETF	6.2%	4.4%	0.13	0.20	0.14	0.21
VR	Global X Metaverse ETF	5.7%	4.8%	0.62	0.79	0.58	0.76
MILN	Global X Millennial Consumer ETF	5.5%	5.2%	0.33	0.37	0.38	0.43
SPX	S&P 500 Index	5.2%	4.8%	0.43	0.49	0.48	0.55
AIQ	Global X Artificial Intelligence & Technology ETF	4.9%	4.1%	0.53	0.68	0.55	0.69
AQWA	Global X Clean Water ETF	4.6%	3.9%	0.49	0.59	0.69	0.82
ACWI	MSCI ACWI Index	4.1%	3.6%	0.41	0.49	0.47	0.56
BOTZ	Global X Robotics & Artificial Intelligence ETF	3.3%	2.5%	1.06	1.42	1.04	1.39
AGNG	Global X Aging Population ETF	2.7%	1.6%	1.34	2.32	1.57	2.70
SNSR	Global X Internet of Things ETF	2.5%	1.8%	1.01	1.40	1.12	1.54
DMAT	Global X Disruptive Materials ETF	2.4%	1.9%	0.64	0.84	0.72	0.94
SOCL	Global X Social Media ETF	2.1%	-1.1%	1.29	-2.52	1.20	-2.34
FINX	Global X FinTech ETF	1.5%	0.7%	1.76	3.94	2.25	4.90
VPN	Global X Data Center REITs & Digital Infrastructure ETF	1.4%	0.2%	2.00	15.41	2.97	22.62
KROP	Global X AgTech & Food Innovation ETF	0.6%	0.5%	2.07	2.28	2.70	2.72
RNRG	Global X Renewable Energy Producers ETF	-1.6%	-4.1%	-1.70	-0.67	-2.97	-1.16
PAVE	Global X U.S. Infrastructure Development ETF	-3.6%	-3.4%	-0.36	-0.40	-0.43	-0.47
WNDY	Global X Wind Energy ETF	-7.4%	-12.1%	-0.28	-0.15	-0.41	-0.24
GNOM	Global X Genomics & Biotechnology ETF	-21.4%	-20.5%	-0.29	-0.32	-0.26	-0.29

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/As 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

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