

The Next Big Theme: August 2024

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Topic: **Thematic**



Robotics & Artificial Intelligence

Humanoid Robot Development Gains Momentum

In an effort to simplify humanoid robot development, Nvidia is providing top robot manufacturers, AI model developers, and software makers with a suite of services, models, and computing platforms. These offerings include NVIDIA NIM microservers and frameworks for robot simulation and learning, the NVIDIA OSMO orchestration service for multi-stage robotics workloads, and an AI- and simulation-enabled teleoperation workflow.¹ NIM microservices, powered by NVIDIA inference software, feature pre-built containers that reduce deployment times from weeks to minutes and enhance simulation workflows for generative physical AI.² NVIDIA OSMO, a cloud-native managed service, simplifies complex robotics development workflows across distributed computing resources, reducing deployment and development cycles from months to days. It allows users to manage tasks such as generating synthetic data, training models, conducting reinforcement learning, and implementing software-in-the-loop testing at scale for humanoids.³ Additionally, NVIDIA launched a humanoid robot developer program, offering early access to these latest releases, as well as NVIDIA Isaac Sim and Lab, Jetson Thor, and Project GR00T humanoid foundation models. Boston Dynamics, ByteDance, Figure AI, and 1x are among the first to join the early access program.⁴

Data Centers & Digital Infrastructure

Cloud Providers, AI Firms Drive Robust Data Center Rental Rate Growth

Existing data centers are renting at premium prices, underscoring the growing demand and capacity crunch. North American data center vacancy rates have reached new lows across various major markets. Chicago led again with the biggest year-over-year (YoY) decrease to 2.4% from 6.7% during Q1 2024.⁵ Northern Virginia's vacancy rates also declined sharply, dropping to 0.9% from 1.8% the year prior, despite an 18% YoY increase in inventory.⁶ Singapore, the world's most power-constrained market, has only 7.2 megawatts (MW) of available capacity and a near record-low 1% vacancy rate.⁷ As a result of these supply shortages and high demand, North American data center pricing is significantly accelerating. Average asking rates for a typical 250-500 kilowatt (kW) requirement across all four featured North American markets surged by 20% YoY in Q1, the highest global increase.⁸ For 2024, rental rates for U.S. data centers are expected to grow by 15% YoY.⁹

Healthcare Innovation

Obesity, Diabetes Meds Set to Take Over 2030 Drug Rankings

Five GLP-1 metabolic drugs are expected to bring in over \$100 billion in sales by 2030.¹⁰ Led by these five drugs, including Eli Lilly's Mounjaro and Zepbound, and Novo Nordisk's Ozempic, Wegovy, and next-gen treatment CagriSema, the broader GLP-1 market is forecast to reach \$130 billion by the same year.¹¹ More than 1 billion people worldwide, including over 40% of all U.S. adults, are classified as obese.¹² As the treatment category continues to show success in other areas, such as obesity-related cancer, liver disease, and kidney disease, the prospects for the treatment category seem even loftier beyond 2030. A recent study showed patients on GLP-1 drugs like Novo Nordisk's Ozempic and Eli Lilly's Mounjaro reduced the risk of 10 obesity-related cancers over traditional diabetes treatments.¹³ Among the



largest risk reductions was a 65% reduction in gallbladder cancer, a 59% reduction in pancreatic cancer, and a 53% reduction in hepatocellular carcinoma.¹⁴

Lithium & Battery Technology

European Nations Look to Advance Lithium & Solid-State Battery Production

The European Union (EU), Germany, and Serbia signed tentative agreements for lithium excavation and EV battery manufacturing in Serbia.¹⁵ These agreements aim to reduce the EU's dependency on China's lithium supply chain. If the deals are finalized, Serbia could host one of Europe's largest lithium mines and become the first European country to manage an entire EV supply chain, potentially contributing 4% of its 2023 gross domestic product (GDP).¹⁶ Carmakers Stellantis and Mercedes-Benz are among the signatories of the deals. In the battery space, Volkswagen's PowerCo and QuantumScape agreed to ramp up mass production of QuantumScape's solid-state battery technology.¹⁷ This agreement allows PowerCo to manufacture up to 40 gigawatt hours (GWh) per year, with an option to extend to 80GWh per year, which enough to power approximately 1 million EVs annually.¹⁸ Solid-state batteries are considered the next generation of EV batteries due to their enhanced safety, higher ranges, and faster charging capabilities.

U.S. Infrastructure

New York and Washington State Get Funding Boost for Critical Infrastructure Upgrade

New York Governor Kathy Hochul announced in July more than \$484 million in funding for 216 critical infrastructure projects across the state. The funding will go towards projects focused on rehabilitating and replacing bridges and culverts, including hardening existing infrastructure to reduce risks from severe weather events and to enhance the overall safety and sustainability of New York's transportation infrastructure.¹⁹ The funding will be provided through the state's BRIDGE NY initiative, which is supported by the federal government's Bridge Formula Program. The funding adds to the \$1.23 billion previously awarded through BRIDGE NY.²⁰ In Washington State, the King County Wastewater Treatment Division selected Jacob's Solutions for an \$800M infrastructure upgrade project at the South Treatment Plant in Renton, where it will lead program management and consulting services.²¹ The South Treatment Plant is one of the primary plants that services King County, which includes Seattle, and treats an average of 90 million gallons of wastewater per day.²²

Clean & Renewable Energy

Offshore Wind Energy Moves Closer to Accelerated Deployment

Maersk Offshore Wind announced that delivery of their first Wind Installation Vessel is likely in 2025. The new design is expected to help reduce offshore wind installation times by up to 30%, which could help yield lower installation costs.²³ This development should be positive for the nascent U.S. offshore wind power industry, which has been hampered by a limited number of vessels and oftentimes complex installation procedures. The U.S. Bureau of Ocean Management (BOEM) issued approvals for two offshore wind projects, a 2.6 gigawatt (GW) New England Wind project in Massachusetts and a 2.8GW Atlantic Shores South project in New Jersey.²⁴ BOEM approved of the construction and operations plan (COP) for New England Wind, which is being developed by Avangrid. Shell New Energies and EDF Renewables are developing the New Jersey project, which gained a different approval during its environmental review process.²⁵ That project can now move towards COP approval, which would another positive step for the U.S. offshore wind industry after a few years of challenges, including project delays and cancellations.

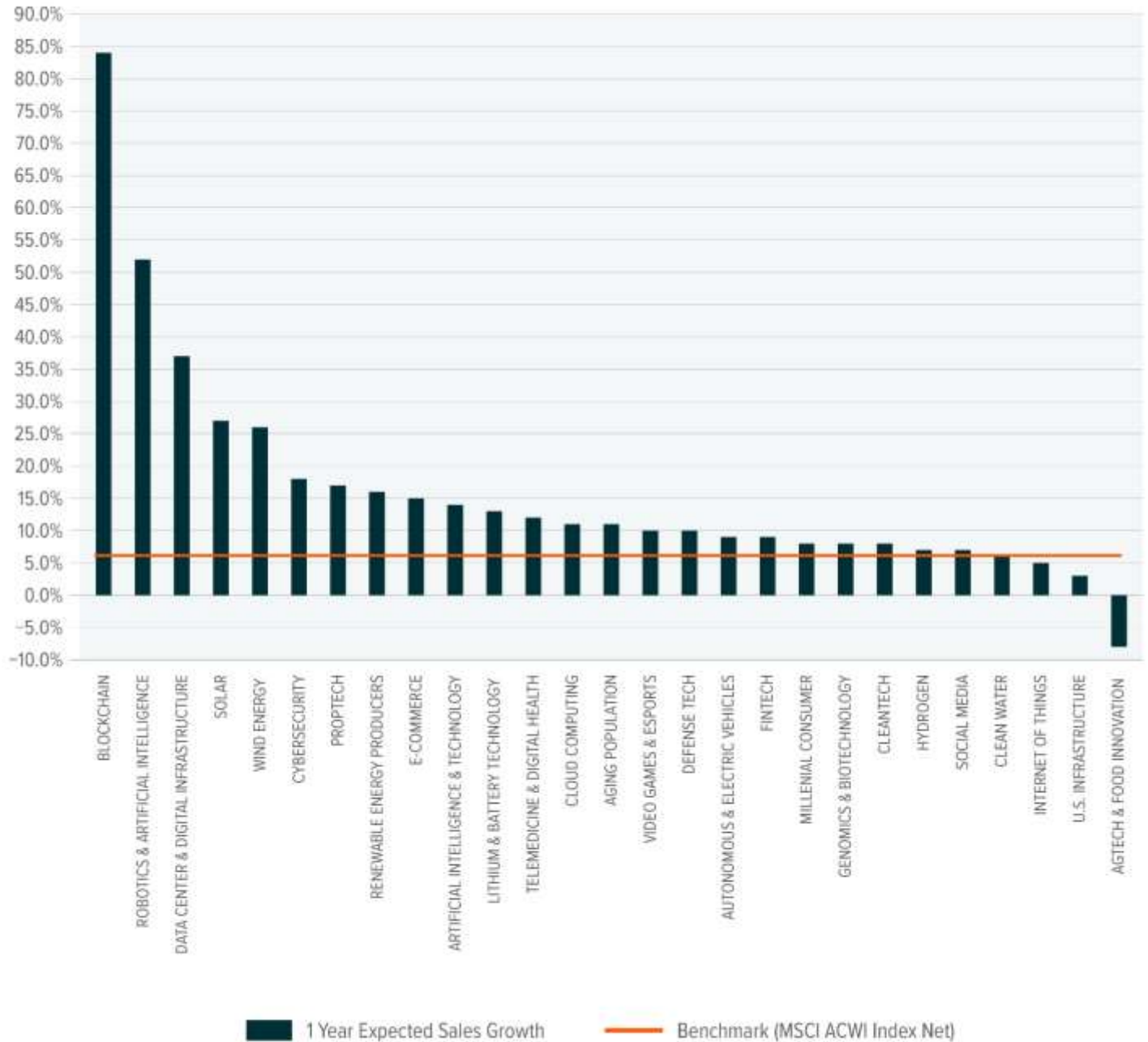


THE NUMBERS

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

THEMATIC EXPECTED SALES GROWTH

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



Note: Forward looking based on index data and analysis from 7/31/2024.

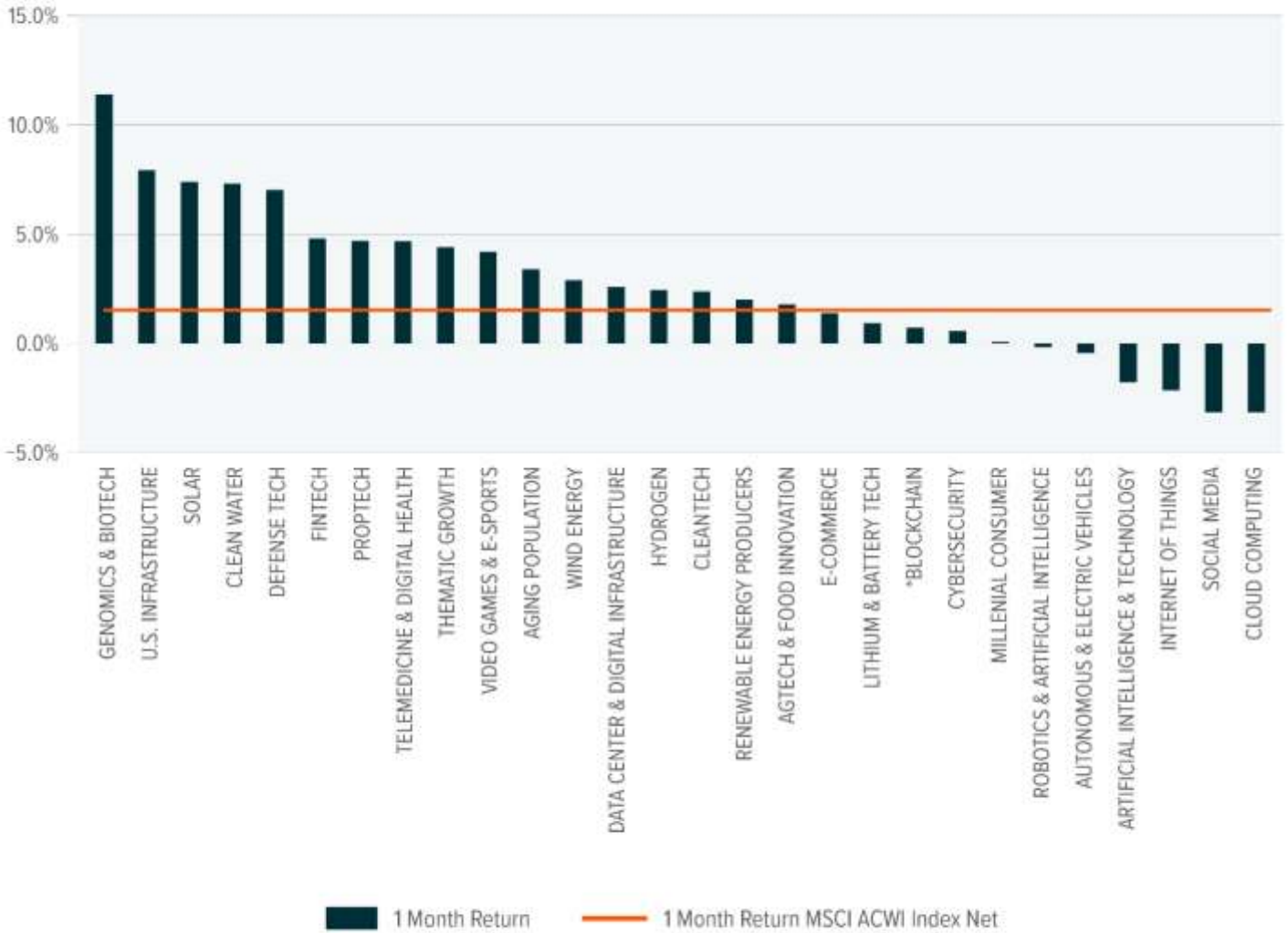
1 year annualized forward sales growth is the consensus analyst expectations for total sales growth in the next 12 months.

Refer to Appendix below Footnotes for details on Indices used.



JULY 2024 THEMATIC ETF RETURNS

Source: Bloomberg, July 31, 2024, 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 (07/31/24)			Avg. Annualized % Data as of quarter end (06/30/24)				
	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	0.23%	2.97%	115.28%	7.74%	-3.93%	8.52%	-	10.29%
		Market Price	-0.16%	3.22%	114.67%	7.51%	-3.89%	8.50%	-	10.31%
		Index	0.29%	3.07%	121.75%	8.20%	-3.40%	9.13%	-	10.70%
FINTECH Inception Date 9/12/2016	0.68%	NAV	4.24%	4.89%	85.60%	14.54%	-17.53%	-1.91%	-	7.67%
		Market Price	4.81%	5.64%	86.09%	14.28%	-17.57%	-1.99%	-	7.63%
		Index	4.33%	5.08%	93.50%	15.22%	-17.25%	-1.45%	-	8.24%
INTERNET OF THINGS Inception Date 9/12/2016	0.68%	NAV	-2.67%	0.95%	148.07%	4.99%	0.94%	13.39%	-	12.74%
		Market Price	-2.14%	1.30%	148.78%	4.46%	0.92%	13.34%	-	12.70%
		Index	-2.63%	1.10%	155.19%	5.67%	1.36%	13.82%	-	13.14%
CLOUD COMPUTING Inception Date 4/12/2019	0.68%	NAV	1.83%	-0.55%	35.52%	-0.76%	-11.14%	4.81%	-	5.63%
		Market Price	1.93%	-0.64%	35.99%	-0.91%	-11.18%	4.77%	-	5.68%
		Index	1.92%	-0.39%	40.14%	-0.11%	-10.56%	5.47%	-	6.29%
SOCIAL MEDIA Inception Date 11/14/2011	0.65%	NAV	-3.30%	0.96%	185.76%	16.26%	-15.97%	5.91%	8.35%	8.95%
		Market Price	-3.15%	1.31%	184.59%	15.85%	-16.09%	5.83%	8.30%	8.90%
		Index	-3.25%	0.93%	205.07%	16.75%	-15.62%	6.44%	8.89%	9.51%
ARTIFICIAL INTELLIGENCE & TECHNOLOGY Inception Date 5/11/2018	0.68%	NAV	-1.69%	9.07%	139.43%	27.80%	5.56%	17.38%	-	15.59%
		Market Price	-1.77%	9.20%	139.57%	27.66%	5.63%	17.42%	-	15.62%
		Index	-1.64%	9.26%	146.33%	28.71%	6.16%	17.97%	-	16.12%
AUTONOMOUS & ELECTRIC VEHICLES Inception Date 4/13/2018	0.68%	NAV	-0.55%	0.86%	69.54%	-8.09%	-4.80%	13.07%	-	8.96%
		Market Price	-0.43%	1.38%	69.55%	-8.27%	-4.87%	13.02%	-	8.94%
		Index	-0.50%	0.94%	71.25%	-7.99%	-4.63%	13.29%	-	9.12%
LITHIUM AND BATTERY TECH Inception Date 7/22/2010	0.75%	NAV	0.80%	-10.61%	52.32%	-39.00%	-18.02%	9.38%	5.07%	3.00%
		Market Price	0.93%	-10.04%	51.99%	-39.52%	-18.03%	9.26%	5.10%	2.98%
		Index	0.80%	-10.66%	62.27%	-38.87%	-17.62%	9.67%	5.30%	3.47%
GENOMICS AND BIOTECHNOLOGY Inception Date 4/5/2019	0.50%	NAV	11.09%	17.97%	-23.83%	-13.55%	-25.06%	-7.09%	-	-6.95%
		Market Price	11.40%	18.07%	-22.34%	-13.86%	-25.14%	-7.11%	-	-6.65%
		Index	11.19%	18.10%	-21.73%	-12.80%	-24.70%	-6.61%	-	-6.48%
MILLENNIAL CONSUMER Inception Date 5/4/2016	0.50%	NAV	0.00%	2.93%	165.52%	21.12%	-3.57%	9.51%	-	12.71%
		Market Price	0.08%	3.09%	164.77%	21.24%	-3.61%	9.49%	-	12.66%
		Index	0.05%	3.06%	175.99%	21.70%	-3.13%	10.05%	-	13.24%
AGING POPULATION Inception Date 5/09/2016	0.50%	NAV	3.36%	8.60%	117.24%	8.93%	0.35%	7.90%	-	9.54%
		Market Price	3.39%	8.70%	122.04%	9.04%	0.31%	7.91%	-	9.83%
		Index	3.43%	8.74%	122.02%	9.26%	0.56%	8.14%	-	9.83%
E-COMMERCE Inception Date 11/27/2018	0.50%	NAV	1.72%	6.16%	64.37%	28.91%	-11.27%	5.83%	-	8.96%
		Market Price	1.39%	5.68%	63.55%	28.70%	-11.34%	5.76%	-	8.92%
		Index	1.78%	6.29%	68.52%	29.50%	-10.91%	6.27%	-	9.43%
US INFRASTRUCTURE DEVELOPMENT Inception Date 3/6/2017	0.47%	NAV	7.91%	6.85%	179.27%	18.61%	13.70%	18.49%	-	13.86%
		Market Price	7.94%	6.82%	179.34%	18.57%	13.67%	18.51%	-	13.86%
		Index	7.99%	7.00%	190.73%	19.50%	14.39%	19.18%	-	14.48%
VIDEO GAMES & ESPORTS Inception Date 10/25/2019	0.50%	NAV	4.11%	13.61%	52.81%	5.68%	-12.34%	-	-	8.54%
		Market Price	4.20%	14.87%	52.98%	5.32%	-12.28%	-	-	8.54%
		Index	4.15%	13.73%	56.16%	6.13%	-11.96%	-	-	9.03%



CYBERSECURITY Inception Date 10/25/2019	0.50%	NAV	0.44%	5.91%	101.05%	22.13%	1.71%	-	-	15.97%
		Market Price	0.57%	6.06%	104.72%	22.06%	1.64%	-	-	16.38%
		Index	0.49%	5.99%	105.30%	22.67%	2.12%	-	-	16.47%
THEMATIC GROWTH Inception Date 10/25/2019	0.50%	NAV	3.73%	3.30%	-1.42%	-13.72%	-22.89%	-	-	-1.08%
		Market Price	4.41%	3.98%	-0.12%	-13.94%	-22.97%	-	-	-0.94%
		Index	3.66%	3.14%	-2.62%	-13.96%	-23.10%	-	-	-1.33%
TELEMEDICINE & DIGITAL HEALTH Inception Date 7/29/2020	0.68%	NAV	3.98%	3.39%	-39.90%	-24.53%	-23.02%	-	-	-13.04%
		Market Price	4.69%	4.09%	-39.84%	-24.76%	-23.18%	-	-	-13.17%
		Index	4.03%	3.59%	-38.72%	-24.02%	-22.69%	-	-	-12.62%
CLEANTECH Inception Date 10/27/2020	0.50%	NAV	2.11%	-5.77%	-44.65%	-44.91%	-26.72%	-	-	-15.34%
		Market Price	2.38%	-5.81%	-45.05%	-45.34%	-27.06%	-	-	-15.57%
		Index	2.09%	-5.74%	-45.47%	-44.87%	-26.56%	-	-	-15.68%
DATA CENTER & DIGITAL INFRASTRUCTURE Inception Date 10/27/2020	0.50%	NAV	2.53%	8.63%	9.13%	12.39%	-2.72%	-	-	1.71%
		Market Price	2.59%	8.97%	9.57%	12.26%	-2.70%	-	-	1.81%
		Index	2.57%	8.93%	9.57%	13.04%	-2.60%	-	-	1.81%
RENEWABLE ENERGY PRODUCERS Inception Date 05/27/2015	0.65%	NAV	2.51%	7.48%	-9.99%	-15.89%	-13.94%	-4.01%	-	-1.42%
		Market Price	2.01%	7.77%	-10.77%	-15.86%	-14.04%	-4.13%	-	-1.46%
		Index	2.56%	7.59%	-6.74%	-15.52%	-13.60%	-3.63%	-	-1.04%
CLEAN WATER Inception Date 04/08/2021	0.50%	NAV	7.38%	7.09%	26.88%	11.15%	3.91%	-	-	5.30%
		Market Price	7.32%	7.46%	26.95%	11.43%	3.88%	-	-	5.34%
		Index	7.50%	7.26%	28.43%	11.68%	4.26%	-	-	5.66%
AGTECH AND FOOD INNOVATION Inception Date 07/12/2021	0.51%	NAV	2.31%	-4.52%	-58.33%	-18.23%	-	-	-	-26.10%
		Market Price	1.80%	-4.52%	-58.33%	-17.82%	-	-	-	-25.98%
		Index	2.34%	-4.46%	-57.86%	-17.85%	-	-	-	-25.83%
HYDROGEN Inception Date 07/12/2021	0.50%	NAV	1.38%	1.65%	-78.80%	-42.55%	-	-	-	-40.95%
		Market Price	2.45%	2.61%	-78.60%	-43.17%	-	-	-	-40.98%
		Index	1.40%	1.71%	-78.45%	-42.24%	-	-	-	-40.64%
BLOCKCHAIN Inception Date 07/12/2021	0.50%	NAV	0.57%	29.70%	-44.69%	69.73%	-	-	-	-18.24%
		Market Price	0.73%	29.26%	-44.67%	68.53%	-	-	-	-18.27%
		Index	0.56%	29.61%	-46.69%	69.21%	-	-	-	-19.24%
SOLAR Inception Date 09/08/2021	0.50%	NAV	6.74%	-4.60%	-57.28%	-47.53%	-	-	-	-27.80%
		Market Price	7.40%	-4.68%	-57.24%	-48.00%	-	-	-	-27.94%
		Index	6.83%	-4.45%	-56.63%	-47.36%	-	-	-	-27.44%
WIND ENERGY Inception date 09/08/2021	0.51%	NAV	2.05%	4.79%	-48.59%	-23.02%	-	-	-	-21.65%
		Market Price	2.90%	5.43%	-48.76%	-23.66%	-	-	-	-21.97%
		Index	2.08%	4.94%	-47.97%	-22.76%	-	-	-	-21.32%
PROPTECH Inception date 04/11/23	0.51%	NAV	4.30%	6.88%	30.83%	15.98%	-	-	-	20.38%
		Market Price	4.70%	7.10%	31.20%	15.66%	-	-	-	20.28%
		Index	4.36%	7.00%	31.58%	16.61%	-	-	-	20.89%
DEFENSE TECH Inception date 09/11/23	0.50%	NAV	6.90%	8.28%	42.97%	-	-	-	-	-
		Market Price	7.03%	8.37%	43.50%	-	-	-	-	-
		Index	6.94%	8.39%	43.62%	-	-	-	-	-



P/S AND EV/S

Source: Bloomberg, data is as of 7/31/24 and 6/30/24, Global X ETFs.

Ticker	Name	P/S		EV/S	
		7/31/24	6/30/24	7/31/24	6/30/24
GNOM	Global X Genomics & Biotechnology ETF	7.85	7.10	6.71	6.05
BUG	Global X Cybersecurity ETF	5.50	5.47	5.17	5.17
CLOU	Global X Cloud Computing ETF	4.13	4.02	4.33	4.25
BOTZ	Global X Robotics & Artificial Intelligence ETF	4.05	4.05	4.39	4.44
AGNG	Global X Aging Population ETF	3.91	3.80	4.39	4.32
DTCR	Global X Data Center & Digital Infrastructure ETF	3.70	3.60	6.39	6.32
AIQ	Global X Artificial Intelligence & Technology ETF	3.51	3.77	3.60	3.87
FINX	Global X FinTech ETF	3.45	3.30	3.97	3.37
SNSR	Global X Internet of Things ETF	3.19	3.18	3.52	3.55
HERO	Global X Video Games & Esports ETF	3.18	3.04	3.13	3.00
SOCL	Global X Social Media ETF	2.95	3.05	2.85	3.02
SPY	SPDR S&P 500 ETF TRUST	2.91	2.90	3.30	3.28
AQWA	Global X Clean Water ETF	2.75	2.56	3.72	3.54
BKCH	Global X Blockchain ETF	2.29	2.27	3.04	2.89
RNRG	Global X Renewable Energy Producers ETF	2.28	1.95	5.56	5.75
PTEC	Global X PropTech ETF	2.26	2.16	3.97	3.68
MILN	Global X Millennial Consumer ETF	2.26	2.27	2.57	2.58
ACWI	MSCI ACWI ETF	2.13	2.10	2.48	2.44
HYDR	Global X Hydrogen ETF	2.11	2.06	2.16	2.06
EDOC	Global X Telemedicine & Digital Health ETF	2.06	1.98	2.14	2.08
PAVE	Global X US Infrastructure ETF	1.84	1.70	2.14	2.00
SHLD	Global X Defense Tech ETF	1.77	1.70	2.01	1.95
WNDY	Global X Wind Energy ETF	1.62	1.33	3.11	4.07
LIT	Global X Lithium & Battery Technology ETF	1.49	1.43	1.74	1.69
EBIZ	Global X E-Commerce ETF	1.27	1.28	1.31	1.43
RAYS	Global X Solar ETF	1.21	1.13	2.03	1.88
KROP	Global X Agtech & Food Innovation ETF	0.96	0.93	1.38	1.34
DRIV	Global X Autonomous & Electric Vehicles ETF	0.83	0.84	0.96	0.96
CTEC	Global X CleanTech ETF	0.75	0.73	1.15	1.12

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.

EV/S ratio compares a company's enterprise value to its annual sales.



F12M SALES GROWTH, PSG, AND EVSG

Source: Bloomberg, data is as of 7/31/24 and 6/30/24, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		7/31/24	6/30/24	7/31/24	6/30/24	7/31/24	6/30/24
BKCH	Global X Blockchain ETF	83.7%	74.6%	0.03	0.03	0.04	0.04
BOTZ	Global X Robotics & Artificial Intelligence ETF	51.7%	48.0%	0.08	0.08	0.08	0.09
DTCR	Global X Data Center & Digital Infrastructure ETF	37.1%	36.3%	0.10	0.10	0.17	0.17
RAYS	Global X Solar ETF	27.3%	29.5%	0.04	0.04	0.07	0.06
WNDY	Global X Wind Energy ETF	25.8%	17.3%	0.06	0.08	0.12	0.24
BUG	Global X Cybersecurity ETF	18.4%	18.9%	0.30	0.29	0.28	0.27
PTEC	Global X PropTech ETF	16.9%	16.0%	0.13	0.14	0.23	0.23
RNRG	Global X Renewable Energy Producers ETF	15.9%	7.8%	0.14	0.25	0.35	0.74
EBIZ	Global X E-Commerce ETF	14.8%	13.9%	0.09	0.09	0.09	0.10
AIQ	Global X Artificial Intelligence & Technology ETF	13.7%	15.0%	0.26	0.25	0.26	0.26
LIT	Global X Lithium & Battery Technology ETF	12.7%	9.3%	0.12	0.15	0.14	0.18
EDOC	Global X Telemedicine & Digital Health ETF	12.4%	12.0%	0.17	0.16	0.17	0.17
CLOU	Global X Cloud Computing ETF	11.5%	11.4%	0.36	0.35	0.38	0.37
AGNG	Global X Aging Population ETF	11.1%	11.3%	0.35	0.34	0.40	0.38
HERO	Global X Video Games & Esports ETF	10.5%	7.5%	0.30	0.41	0.30	0.40
SHLD	Global X Defense Tech ETF	10.1%	11.1%	0.17	0.15	0.20	0.18
DRIV	Global X Autonomous & Electric Vehicles ETF	8.7%	6.5%	0.10	0.13	0.11	0.15
FINX	Global X FinTech ETF	8.7%	8.3%	0.40	0.40	0.46	0.40
MILN	Global X Millennial Consumer ETF	8.5%	8.3%	0.27	0.27	0.30	0.31
GNOM	Global X Genomics & Biotechnology ETF	8.3%	7.4%	0.94	0.96	0.80	0.82
CTEC	Global X CleanTech ETF	8.0%	7.6%	0.09	0.10	0.14	0.15
HYDR	Global X Hydrogen ETF	7.1%	1.7%	0.30	1.24	0.30	1.24
SOCL	Global X Social Media ETF	6.8%	8.6%	0.44	0.36	0.42	0.35
AQWA	Global X Clean Water ETF	5.8%	6.4%	0.48	0.40	0.65	0.55
ACWI	MSCI ACWI ETF	5.7%	7.3%	0.37	0.29	0.44	0.33
SPY	S&P 500 ETF	5.4%	8.2%	0.54	0.35	0.61	0.40
SNSR	Global X US Internet of Things ETF	4.6%	4.9%	0.69	0.65	0.76	0.72
PAVE	Global X U.S. Infrastructure ETF	2.8%	2.3%	0.65	0.75	0.76	0.88
KROP	Global X AgTech & Food Innovation ETF	-7.6%	-8.0%	-0.13	-0.12	-0.18	-0.17

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.

PSG and EVSG refer to Price-to-Sales over F12 Sales Growth and Enterprise Value over F12 Sales Growth, respectively.



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

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- **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 \(KROP\)](#)
- **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](#)

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. Infrastructure: [Indxx U.S. Infrastructure Development Index](#)

Video Games & Esports: [Solactive Video Games & Esports Index](#)

Wind Energy: [Solactive Wind Energy Index](#)



Footnotes

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