





Introduction

In this data report, we analyse Poland holdings among active GEM Equity Funds. We analyse the latest published filings for all funds and aggregate together as of 3/31/2023. We show the most recent snapshot in positioning, time series data going back to 1/31/2008 and recent allocation shifts by the managers in our analysis. The current fund sample spans 384 active funds with a combined AUM of \$400.95Bn.

For benchmark comparisons, we use the iShares MSCI Emerging Markets ETF, proportionally adjusted to remove any cash holdings. All Cash Flow calculations are on a best estimates basis. We use monthly position changes and month end prices to estimate the net buying and selling value for each stock within each fund in our analysis.

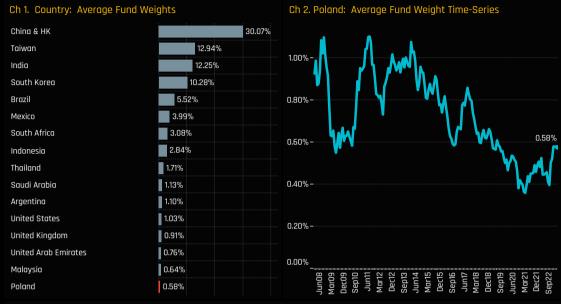
For further information on the calculation methodology that we use in the analysis and the classification of fund Styles, please view the Glossary on page 22.

Peer Group and Time-Series Ownership Data



Chart 1. The equally weighted average fund weight, among active GEM managers by Country Chart 2. The time series of average fund weight for Poland stocks

Chart 5. The 'Funds Invested %' measures the percentage of active GEM funds with exposure to each Country. A figure of 100% means that every fund in our analysis has some exposure to that Country Chart 6. The time series of funds invested % for Poland stocks



Ch 5. Country: Funds Invested % Ch 6. Poland: Funds Invested % Time-Series China & HK 98.96% FU.UU% Brazil 98.44% Taiwan 98.18% India 98.18% South Korea 97.92% 40.00% -Mexico 92.71% South Africa 90.63% 90.63% Indonesia 30.00% -Thailand 71.09% 48.96% **Philippines** 20.00% -Chile 48.44% 47.14% Poland Argentina 46.88% **United Arab Emirates** 46.35% Peru 42.45% Saudi Arabia 41.93%

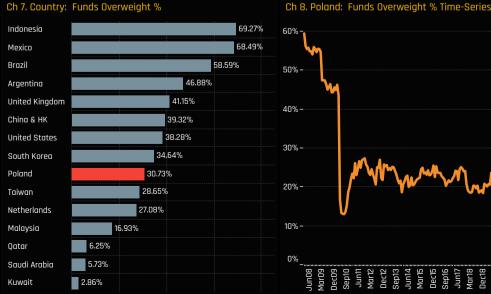
Chart 3. The overage fund weight minus the weight in the iShares MSCI Emerging Markets ETF, by Country. A positive value represents an 'overweight' position on average, a negative value represents an 'underweight'.

Chart 4. The time series of average fund weight minus benchmark for Poland stocks

Chart 7. The percentage of active GEM funds who are overweight the iShares MSCI Emerging Markets ETF weight, by Country Chart 8. The time series of Funds Overweight % for Poland stocks







Fund Holdings



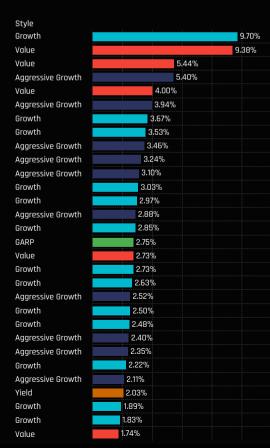
Chart 1. The distribution of Poland weights among the 384 active GEM funds in our analysis, broken down by fund Style. Chart 2. The largest 30 Poland holders in our analysis, on a portfolio weight basis.

Chart 3. The individual Poland fund weights funds in our analysis, ranked by allocation size with Median and Quartiles. Chart 4. The largest 30 Poland holders in our analysis, on an \$ AUM basis.



Ch 2. Poland: Top Fund Holdings, %

Fund Name Virtus KAR Emerging Markets Small Cap Fund Global Advantage Funds - Emerging Markets High Value Skyline Umb. Fd. ICAV - ARGA Emerging Market Equity Fund Grandeur Peak Emerging Markets Opportunities Fund BlackRock Strategic Fds. - Emerging Markets Equity Strategies Ashmore SICAV - Emerging Markets Equity ESG Fund LUX IM - ESG Global Emerging Equities Aberdeen Std. SICAV I - EM Sust. Development Equity Fund Aubrey Capital Mgmt. Access Fund - Global EM Opportunities Fd. Omnis Portfolio Investments ICVC - Global EM Equity Opp. Fund Polen Emerging Markets Growth Fund JNL Multi-Manager Emerging Markets Equity Fund Mirabaud - Equities Global Emerging Markets WCM Focused Emerging Markets Fund Caixabank Master Renta Variable Emergente Advised By, FI Schroder ISF - Global Emerging Market Opportunities AB FCP II - Emerging Market Value Portfolio CM-AM Global Emerging Markets Thornburg Developing World Fund William Blair Emerging Markets Small Cap Growth Fund Morgan Stanley Invt. Fds. - Sustainable EM Eq. Fds. Vaughan Nelson Emerging Markets Opportunities Fund Ashmore Emerging Markets Equity Fund AXA World Funds SICAV - Framlington Emerging Markets JOHCM Emerging Markets Discovery Fund Neuberger Berman Invt. Funds Plc - EM Sus. Eq. Fd. Seafarer Overseas Growth & Income Fund Sanford C Bernstein Fund - Emerging Markets Portfolio Wellington Mgmt. Funds (IE) Plc - Emerging Mkts. Local Eq. LSV Emerging Markets Equity Fund



Ch 4. Poland: Top Fund Holdings, \$

Fund Name
iShares MSCI Emerging Markets ETF
BlackRock Emerging Markets Fund Inc.
T Rowe Price Emerging Markets Discovery Stock Fund
T Rowe Price Emerging Markets Stock Fund
Schroder ISF - Emerging Markets
WCM Focused Emerging Markets Fund
Schroder ISF - Global Emerging Market Opportunities
Caixabank Master Renta Variable Emergente Advised By, Fl
St. James's Place Unit Trust - Emerging Markets Equity
Seafarer Overseas Growth & Income Fund
Fidelity Inv. Trust - Emerging Markets Opportunities Fund
BlackRock Global Funds - Emerging Markets Fund
GS Funds - Emerging Markets Equity Portfolio
Principal Funds Inc Origin Emerging Markets Fund
JNL Multi-Manager Emerging Markets Equity Fund
Candriam Sustainable - Equity Emerging Market
Thornburg Developing World Fund
Virtus KAR Emerging Markets Small Cap Fund
Grandeur Peak Emerging Markets Opportunities Fund
Sanford C Bernstein Fund - Emerging Markets Portfolio
JPMorgan Funds - Emerging Markets Opportunities Fund
Robeco Capital Gr. Fds Emerging Stars Equities
John Hancock Emerging Markets Equity Fund
JPMorgan Trust IV - Emerging Markets Research Enhanced Equity
Skyline Umb. Fd. ICAV - ARGA Emerging Market Equity Fund
Candriam Equities L - Emerging Markets
BlackRock Strategic Fds Emerging Markets Equity Strategies
GMO Emerging Markets Fund
Ninety One Glb. Strat. Fd Emerging Markets Equity
Fidelity Funds SICAV - Emerging Markets Fund

Style		
Passive		\$158.66M
Growth	\$82.37M	
GARP	\$74.01M	
Aggressive Growth	\$51.86M	
Growth	\$43.51M	
Aggressive Growth	\$42.86M	
GARP	\$42.68M	
Growth	\$42.27M	
Growth	\$40.09M	
Yield	\$39.66M	
Growth	\$37.36M	
Growth	\$37.05M	
Growth	\$35.58M	
Growth	\$32.52M	
Growth	\$31.17M	
Aggressive Growth	\$30.34M	
Growth	\$26.73M	
Growth	\$23.58M	
Aggressive Growth	\$23.19M	
Growth	\$22.30M	
Growth	\$19.48M	
Value	\$18.89M	
Growth	\$18.11M	
Growth	\$17.94M	
Value	\$17.04M	
Aggressive Growth	\$16.98M	
Value	\$16.54M	
Value	\$16.17M	
Growth	\$15.59M	
Growth	\$15.00M	

Aggregate Ownership Changes

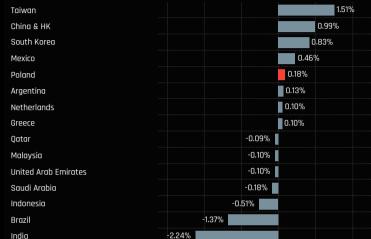


Chart 1. Measures the largest changes in average Country weight between 9/30/2022 and 3/31/2023.

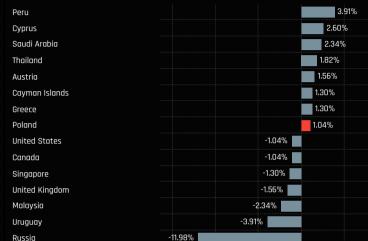
Chart 3. Measures the largest changes in the percentage of funds invested in each Country between 9/30/2022 and 3/31/2023.

Chart 5. Shows the cumulative fund flows for Poland stocks among the 384 active GEM funds in our analysis. Monthly fund flows are estimated by multiplying the monthly change in stock position by the stock price for every position in every fund in our analysis.

Ch 1. Country: Change in Average Weight 9/30/2022 - 3/31/2023



Ch 3. Country: Change in Funds Invested % 9/30/2022 - 3/31/2023



Ch 5. Poland: Cumulative Fund Flows, \$

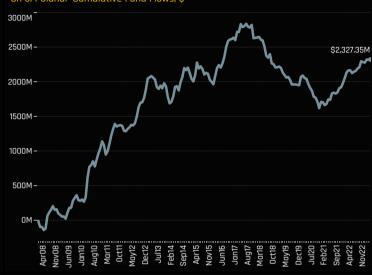
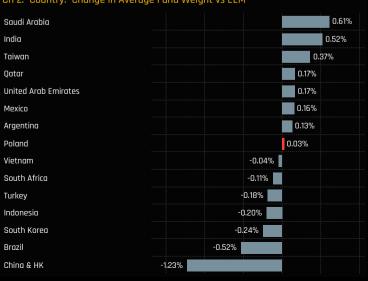


Chart 2. Measures the largest changes in the average Country weight vs EEM between 9/30/2022 and 3/31/2023. An increasing figure would indicate an increasing overweight or decreasing underweight.

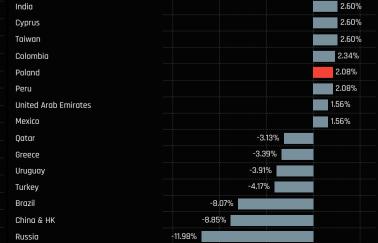
Chart 4. Measures the largest changes in the percentage of funds overweight each Country compared to the iShares MSCI Emerging Markets ETF between 9/30/2022 and 3/31/2023. An increasing figure would indicate more funds are positioning themselves overweight over the period.

Chart 6. Measures the largest estimated fund flows for each Country between 9/30/2022 and 3/31/2023.

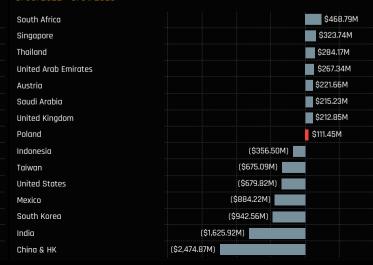
Ch 2. Country: Change in Average Fund Weight vs EEM



Ch 4. Country: Change in the Funds Overweight % 9/30/2022 - 3/31/2023



Ch 6. Country: Largest Fund Flows per Country 9/30/2022 - 3/31/2023



Fund Holding Changes



Chart 1. The largest fund weight increases in Poland stocks between 9/30/2022 - 3/31/2023.

Chart 2. The largest fund weight decreases in Poland stocks between 9/30/2022 - 3/31/2023

Both charts show the current weight and whether the weight change represented a new or closed position.

Ch 1. Poland: Largest Increases in Position, %

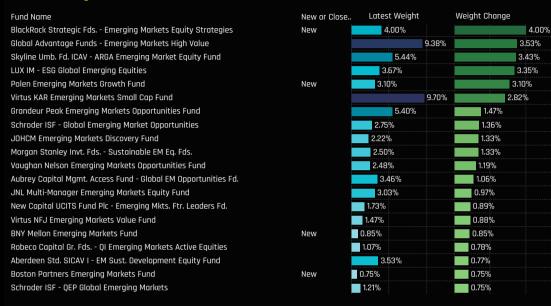


Chart 3. The largest buyers in US dollar terms in Poland stocks between 9/30/2022 - 3/31/2023. Chart 4. The largest sellers in US dollar terms in Poland stocks between 9/30/2022 - 3/31/2023 Both charts show the current AUM and whether the fund flow represented a new or closed position.

Ch 3. Poland: Largest Fund Inflows, \$

Fund Name	New or Close	Latest AUM, \$	Fund Flows, \$
BlackRock Emerging Markets Fund Inc.		\$82.37M	\$34.06M
BlackRock Strategic Fds Emerging Markets Equity Strategies	New	\$16.54M	\$16.49M
T Rowe Price Emerging Markets Stock Fund		\$51.86M	\$13.47M
Schroder ISF - Emerging Markets		\$43.51M	\$13.36M
iShares MSCI Emerging Markets ETF		\$158.66M	\$12.27M
GS Funds - Emerging Markets CORE Equity Portfolio		\$13.14M	\$11.88M
Schroder ISF - Global Emerging Market Opportunities		\$42.68M	\$10.65M
BlackRock Global Funds - Emerging Markets Fund		\$37.05M	\$9.17M
Fidelity Funds SICAV - Sust. Emerging Markets Equity Fund	New	\$8.14M	\$7.58M
LUX IM - ESG Global Emerging Equities		\$8.89M	\$6.87M
Skyline Umb. Fd. ICAV - ARGA Emerging Market Equity Fund		\$17.04M	\$6.77M
Robeco Capital Gr. Fds QI Emerging Markets Active Equities		\$8.85M	\$5.86M
Fidelity Funds SICAV - Emerging Markets Fund		\$15.00M	\$5.15M
Fidelity Institutional Funds - Emerging Markets Fund		\$11.77M	\$4.04M
Ninety One Glb. Strat. Fd Emerging Markets Equity		\$15.59M	\$3.98M
Robeco QI Inst. Emerging Markets Enhanced Index Eq. Fd.		\$10.20M	\$3.97M
Morgan Stanley Invt. Fds Sustainable EM Eq. Fds.		\$8.04M	\$3.26M
GMO Emerging Markets Fund		\$16.17M	\$3.04M
Swedbank Robur Access Edge Emerging Markets		\$14.32M	\$2.75M
SEI Institutional Intl. Trust - Emerging Markets Equity Fund		\$11.75M	\$2.68M

Ch 2. Poland: Largest Decreases in Position, %

Fund Name	New or
LO Funds - Emerging High Conviction	Close
TCW Developing Markets Equity Fund	Close
DNB Global Emerging Markets	Close
Artemis Investment Funds ICVC - Global Emerging Markets	
Swisscanto Sammelstiftung Emerging Market Equity Fund	
KBI Funds ICAV - Emerging Markets Equity Fund	Close
VP Bank Risk Optimised ESG Eq. Fd Emerging Markets Equities	Close
Goldman Sachs Emerging Markets Equity Insights Fund	
Morgan Stanley Instl. Fund - Emerging Markets Portfolio	
Seafarer Overseas Growth & Income Fund	
Sydinvest Globale EM-aktier	
Goldman Sachs Funds III - Emerging Markets Equity Income	
Mercer Emerging Markets Equity Fund	
Amonis Equity Emerging Markets	
Swedbank Robur Access Edge Emerging Markets	
SEB Emerging Marketsfond	Close
Allianz Intl. Invt. Fds Emerging Markets Equity Fund	
Putnam Emerging Markets Equity Fund	
Lazard Emerging Markets Core Equity Portfolio	
Amundi Funds - New Silk Road	



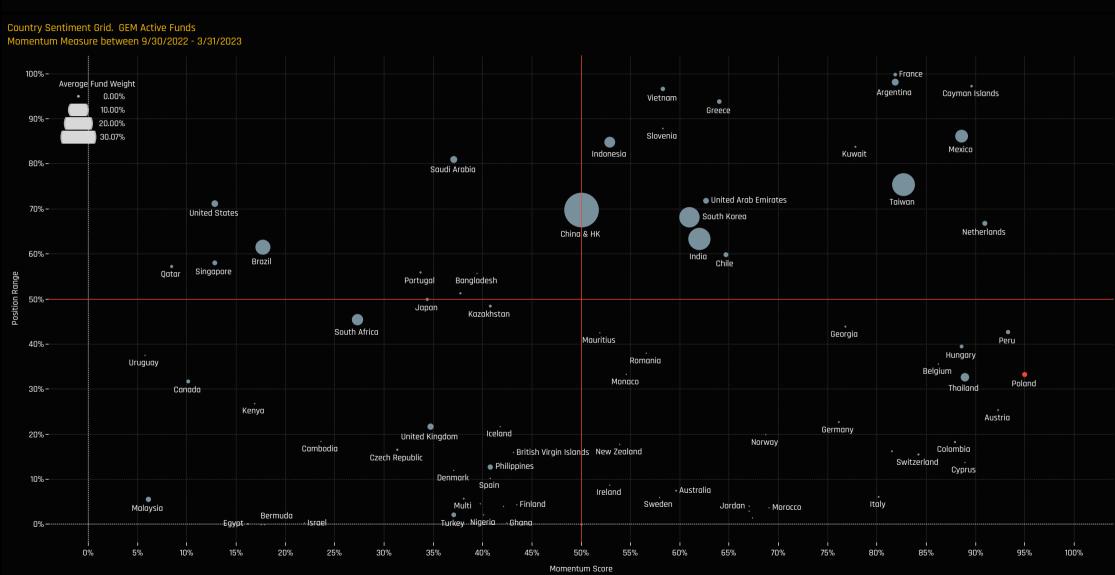
Ch 4. Poland: Largest Fund Outflows, \$

Fund Name	New or Clos	e Latest AUM,	\$	Fund Flows, \$
DNB Global Emerging Markets	Close			\$14.00M)
Seafarer Overseas Growth & Income Fund			\$39.66M	(\$7.39M)
John Hancock Emerging Markets Equity Fund		\$18.11M		(\$7.25M)
GS Funds - Emerging Markets Equity Portfolio		\$	35.58M	(\$7.14M)
Mercer Emerging Markets Equity Fund		\$6.24M		(\$5.72M)
Goldman Sachs Emerging Markets Equity Insights Fund		\$4.12M		(\$5.01M)
Neuberger Berman Emerging Markets Equity Fund		\$8.65M		(\$4.69M)
Swisscanto Sammelstiftung Emerging Market Equity Fund		\$2.82M		(\$3.94M)
WCM Focused Emerging Markets Fund			\$42.86M	(\$3.82M)
Fidelity Inv. Trust - Emerging Markets Opportunities Fund			\$37.36M	(\$3.62M)
Columbia Emerging Markets Fund		\$11.71M		(\$3.36M)
Baillie Gifford Overseas Growth Fund - Emer. Mkts. Leading Co.		\$14.52M		(\$3.31M)
Advisors Inner Circle - Acadian Emerging Markets Portfolio		\$9.56M		(\$3.14M)
LO Funds - Emerging High Conviction	Close			(\$2.67M)
Morgan Stanley Instl. Fund - Emerging Markets Portfolio		\$6.44M		(\$2.40M)
PIMCO RAE Emerging Markets Fund		\$7.34M		(\$2.15M)
Robeco QI Customized Emerging Markets Enhanced Index Eq. Fd.		\$14.52M		(\$2.01M)
Harding Loevner Institutional Emerging Markets Portfolio		\$8.46M		(\$1.98M)
Artemis Investment Funds ICVC - Global Emerging Markets		\$2.44M		(\$1.44M)
Putnam Emerging Markets Equity Fund		\$3.55M		(\$1.38M)

Country Sentiment Grid



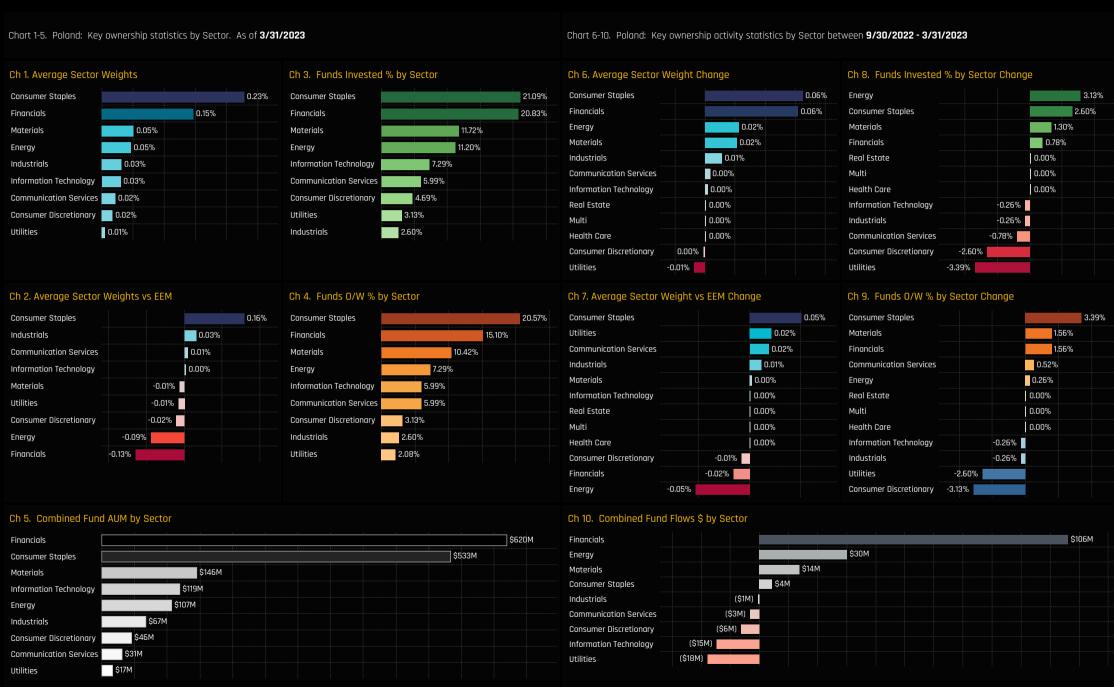
Z-Score of today's average weight, funds invested % and funds o/w % relative to all monthly observations in our fund history (going back to 1/31/2008). A figure close to 100% would indicate today's positioning is close to its maximum ever level, a figure close to zero, the lowest. The X-axis provides a measure of short-term fund activity, or 'Momentum', by looking at the changes in average weight, funds invested % and funds o/w % between 9/30/2022 and 3/31/2023, relative to each Country. A figure above 50% means a Country has seen relative increases in ownership, a figure below 50% indicates a relative decrease in positioning. The size of the bubble represents the average weight of each Country.



Position Range: Average of: Z-Score Average Weight vs history Z-Score Funds Invested % vs history Z-Score Funds O/W % vs history Momentum Score: Average of: Change in Average Weight (Percentile vs Peers) Change in Funds Invested % (Percentile vs Peers) Change in Funds O/W % (Percentile vs Peers)

Aggregate Sector Ownership





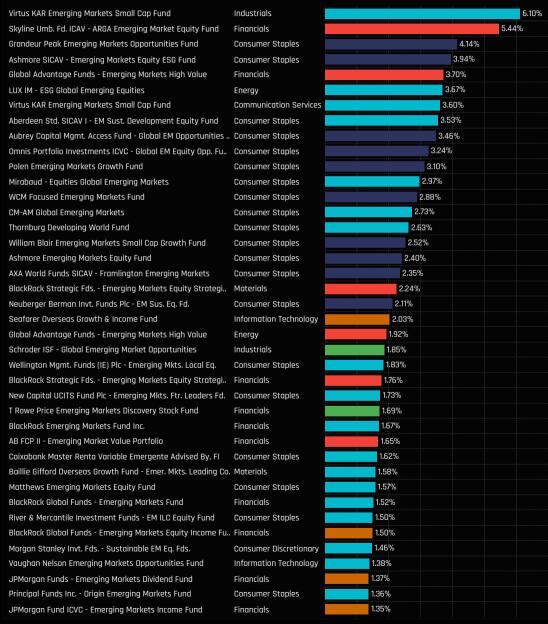
Fund Level Sector Holdings



Chart 1. Poland: The largest individual fund level Sector holdings by fund weight, coloured by fund Style.

Chart 2. Poland: The largest individual fund level Sector holdings by \$ AUM. coloured by fund Style.

Ch 1. Poland: Top Fund level Sector Holdings, %

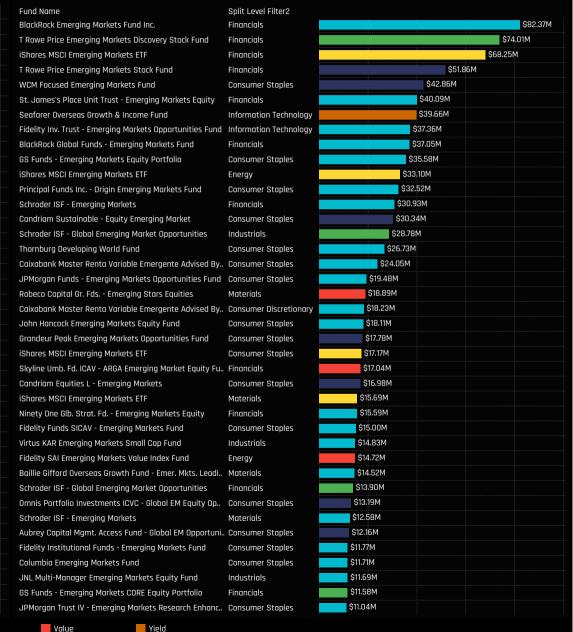


Fund Style Aggressive Growth

Growth

GARP

Ch 4. Poland: Top Fund level Sector Holdings, \$



Fund Level Sector Changes



Chart 1. The largest Sector level weight increases in Poland between 9/30/2022 - 3/31/2023. Chart 2. The largest Sector level weight decreases in Poland between 9/30/2022 - 3/31/2023.

Both charts show the current weight and whether the weight change represented a new or closed position.

Ch 1. Poland: Largest Increases in Sector Position, %

			Latest Weigh	t	Wei	ight Change
LUX IM - ESG Global Emerging Equities	Energy	New	3.67	1%		3.67%
Skyline Umb. Fd. ICAV - ARGA Emerging Market E	Financials			5.44%		3.43%
Polen Emerging Markets Growth Fund	Consumer Staples	New	3.10%			3.10%
Virtus KAR Emerging Markets Small Cap Fund	Industrials			6.10%		2.33%
BlackRock Strategic Fds Emerging Markets Equ	Materials	New	2.24%			2.24%
Global Advantage Funds - Emerging Markets Hig	Financials		3.70	1%	1.8	6%
BlackRock Strategic Fds Emerging Markets Equ	Financials	New	1.76%		1.76	%
Global Advantage Funds - Emerging Markets Hig	Energy		1.92%		1.22%	
Grandeur Peak Emerging Markets Opportunities	Consumer Staples		4.	14%	1.14%	
Vaughan Nelson Emerging Markets Opportunitie	Consumer Staples	New	1.09%		1.09%	
Aubrey Capital Mgmt. Access Fund - Global EM O	Consumer Staples		3.46	%	1.06%	
Morgan Stanley Invt. Fds Sustainable EM Eq. F	Materials	New	1.04%		1.04%	
Schroder ISF - Global Emerging Market Opportuni	Financials	New	0.90%		0.90%	
Virtus NFJ Emerging Markets Value Fund	Consumer Staples	New	0.89%		0.89%	
New Capital UCITS Fund Plc - Emerging Mkts. Ftr	Consumer Staples		1.73%		0.89%	
BNY Mellon Emerging Markets Fund	Consumer Staples	New	0.85%		0.85%	
Aberdeen Std. SICAV I - EM Sust. Development E	Consumer Staples		3.53	%	0.77%	
Boston Partners Emerging Markets Fund	Consumer Staples	New	0.75%		0.75%	
JOHCM Emerging Markets Discovery Fund	Financials		1.23%		0.75%	
William Blair Emerging Markets Small Cap Growt	Consumer Staples		2.52%		0.73%	

Chart 3. The largest Sector level fund inflows in Poland between 9/30/2022 - 3/31/2023.

Chart 4. The largest Sector level fund outflows in Poland between 9/30/2022 - 3/31/2023.

Both charts show the current AUM and whether the fund flow represented a new or closed position.

Ch 3. Poland: Largest Sector Fund Inflows, \$

			Latest AUM, Ş	Fund Flows, Ş
BlackRock Emerging Markets Fund Inc.	Financials		\$82M	1 \$34M
iShares MSCI Emerging Markets ETF	Energy		\$33M	\$16M
T Rowe Price Emerging Markets Stock Fund	Financials		\$52M	\$13M
Schroder ISF - Emerging Markets	Financials		\$31M	\$11M
Schroder ISF - Global Emerging Market Opportuniti	Financials	New	\$14M	\$11M
GS Funds - Emerging Markets CORE Equity Portfolio	Financials		\$12M	\$10M
BlackRock Strategic Fds Emerging Markets Equity	Materials	New	\$9M	\$9M
Fidelity SAI Emerging Markets Value Index Fund	Energy		\$15M	\$9M
BlackRock Global Funds - Emerging Markets Fund	Financials		\$37M	\$9M
Fidelity Funds SICAV - Sust. Emerging Markets Equi	Consumer Staples	New	\$8M	\$8M
LUX IM - ESG Global Emerging Equities	Energy	New	\$9M	\$8M
BlackRock Strategic Fds Emerging Markets Equity	Financials	New	\$7M	\$7M
Skyline Umb. Fd. ICAV - ARGA Emerging Market Equ	Financials		\$17M	\$7M
Fidelity Funds SICAV - Emerging Markets Fund	Consumer Staples		\$15M	\$5M
Fidelity Institutional Funds - Emerging Markets Fun	Consumer Staples		\$12M	\$4M
Ninety One Glb. Strat. Fd Emerging Markets Equity	Financials		\$16M	\$4M
GMO Emerging Markets Fund	Energy		\$9M	\$4M
Morgan Stanley Invt. Fds Sustainable EM Eq. Fds.	Materials	New	\$3M	\$3M
Robeco Capital Gr. Fds QI Emerging Markets Activ	Consumer Staples	New	\$4M	\$3M
iShares MSCI Emerging Markets ETF	Financials		\$68M	■ \$3M

Ch 2. Poland: Largest Decreases in Sector Position, %

			Latest Weight		Weight Change
LO Funds - Emerging High Conviction	Consumer Staples	Close	0.00%	-0.99%	
TCW Developing Markets Equity Fund	Consumer Staples	Close	0.00%	-0.93%	
DNB Global Emerging Markets	Utilities	Close	0.00%	-0	1.70%
Robeco Capital Gr. Fds QI EM Sust. Active Eq.	Consumer Discretionary		0.06%		-0.59%
Global Advantage Funds - Emerging Markets Hig	Utilities			0.38%	-0.53%
Morgan Stanley Instl. Fund - Emerging Markets P.,	Consumer Staples	Close	0.00%		-0.44%
LSV Emerging Markets Equity Fund	Utilities	Close	0.00%		-0.37%
LUX IM - ESG Global Emerging Equities	Utilities	Close	0.00%		-0.32%
Goldman Sachs Emerging Markets Equity Insight	Financials		0.10%		-0.32%
Artemis Investment Funds ICVC - Global Emergin	Financials		0.	31%	-0.26%
Swisscanto Sammelstiftung Emerging Market Eq	Energy		0.10%		-0.24%
KBI Funds ICAV - Emerging Markets Equity Fund	Consumer Discretionary	Close	0.00%		-0.22%
BlackRock Funds I ICAV - Advantage Emerging M	Financials	Close	0.00%		-0.20%
VP Bank Risk Optimised ESG Eq. Fd Emerging M	Communication Services	Close	0.00%		-0.20%
William Blair Emerging Markets Small Cap Growt	Financials	Close	0.00%		-0.19%
Allianz Intl. Invt. Fds Emerging Markets Equity \dots	Materials	Close	0.00%		-0.17%
Goldman Sachs Funds III - Emerging Markets Equ	Utilities	Close	0.00%		-0.17%
Hartford Emerging Markets Equity Fund	Consumer Discretionary	Close	0.00%		-0.16%
Fidelity SAI Emerging Markets Value Index Fund	Materials	Close	0.00%		-0.15%
Northern Trust Invt. Fds. Plc - EM Multifactor ESG	Utilities	Close	0.00%		-0.15%

Ch 4. Poland: Largest Sector Fund Outflows, \$

	DNB Global Emerging Markets	Energy	
ı	Seafarer Overseas Growth & Income Fund	Information Technology	
	John Hancock Emerging Markets Equity Fund	Consumer Staples	
	GS Funds - Emerging Markets Equity Portfolio	Consumer Staples	
	Goldman Sachs Emerging Markets Equity Insights F	Financials	
	Fidelity SAI Emerging Markets Value Index Fund	Materials	Close
	DNB Global Emerging Markets	Utilities	Close
	iShares MSCI Emerging Markets ETF	Utilities	
	Neuberger Berman Emerging Markets Equity Fund	Consumer Staples	
	iShares MSCI Emerging Markets ETF	Communication Services	
ı	WCM Focused Emerging Markets Fund	Consumer Staples	
	Swisscanto Sammelstiftung Emerging Market Equit	Energy	
	Fidelity Inv. Trust - Emerging Markets Opportunities	Information Technology	
	Columbia Emerging Markets Fund	Consumer Staples	
	Baillie Gifford Overseas Growth Fund - Emer. Mkts. L	Materials	
ı	Mercer Emerging Markets Equity Fund	Energy	Close
ı	LO Funds - Emerging High Conviction	Consumer Staples	Close
	Fidelity SAI Emerging Markets Value Index Fund	Utilities	Close
ı	Morgan Stanley Instl. Fund - Emerging Markets Port	Consumer Staples	Close
	Robeco QI Customized Emerging Markets Enhanced \tt	Financials	

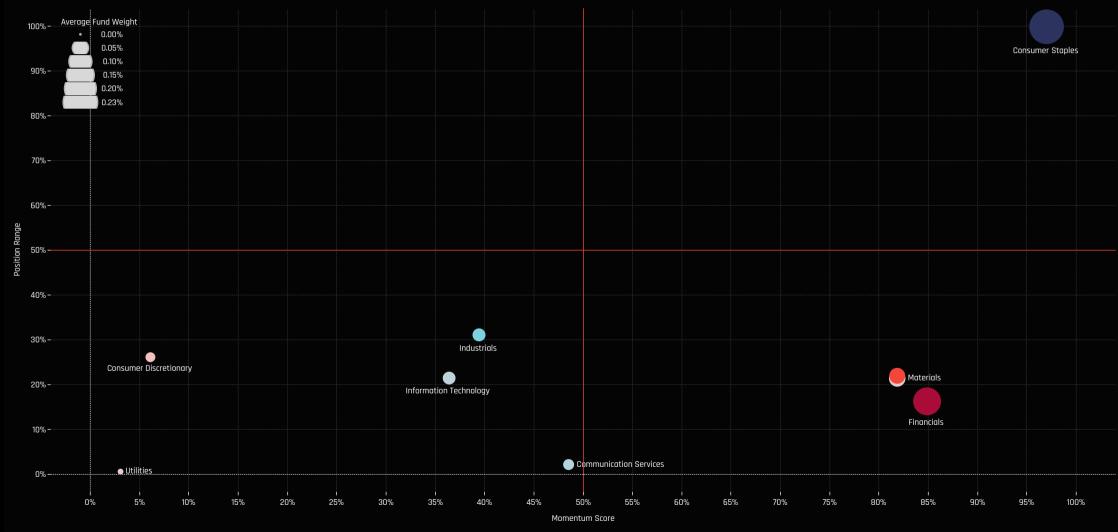


Sector Sentiment Grid



Sentiment Grid: Poland. We combine the latest Sector positioning, long-term positioning and short-term fund activity in the 'Sentiment Grid', below. The Y-Axis measures where today's ownership levels in each Sector sit relative to the long-term range. We calculate the Z-Score of today's average weight, funds invested % and funds o/w % relative to all monthly observations in our fund history (going back to 1/31/2008). A figure close to 100% would indicate today's positioning is close to its maximum ever level, a figure close to zero, the lowest. The X-axis provides a measure of short-term fund activity, or 'Momentum', by looking at the changes in average weight, funds invested % and funds o/w % between 9/30/2022 and 3/31/2023, relative to each Sector. A figure above 50% means a Sector has seen relative increases in ownership, a figure below 50% indicates a relative decrease in positioning. The size of the bubble represents the average weight of each Sector. The colour represents if the Sector is held overweight (blue) or underweight (red) on average.





Position Range: Average of: Z-Score Average Weight vs history Z-Score Funds Invested % vs history Z-Score Funds O/W % vs history Momentum Score: Average of: Change in Average Weight (Percentile vs Peers) Change in Funds Invested % (Percentile vs Peers) Change in Funds O/W % (Percentile vs Peers) Ticker

TPE-PL

MBK-PL

BHW-PL

BDX-PL

UNT-PL

SHO-PL

KTY-PL ENA-PL Stock Name

TAURON Polska Energia S.A.

Shoper Spolka Akcyjna

Bank Handlowy w Warszawie S.A.

mBank SA

Budimex SA

UNIMOT SA

ENEA S.A.

Grupa KETY S.A.

Aggregate Stock Holdings



Chart 1. The largest 10 stock holdings in Poland, by Average Weight. The chart also shows the average weight as a percentage of the total Poland weight, and the cumulative total.

Chart 2. Shows aggregate stock holdings data for Poland stocks, ranked by Funds Invested % (most widely held).

Chart 3. Top 5 overweight and underweight Poland stock positions / as a percentage of the total Poland weight relative to

Charts 4&5. The largest overweight and underweight stock holdings, plus associated aggregate holdings data.

Ch 1. Poland. Top 10 Stock Weights, Percentage of Poland Total, Cumulative Percentage Total.



Funds Invested %

Average Weight

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

Vs Benchmark

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

Fund a

\$2.05M

\$5.22M

\$0.22M

\$2,49M

\$0.03M

\$1.77M

\$3.67M

\$0.31M

Ch 3. Poland. Top 5 overweight and underweight positions in Poland, percentage of total

Ticker	Stock Name	Average We	Average Weight vs EEM			Percentage of Total		
DNP-PL	Dino Polska SA			0.16%	-260.9%			
GPP-PL	Grupa Pracuj spolka akcyjna		0.02%			-39.5%		
VPL-PL	Wirtualna Polska Holding SA		0.01%			-20.1%		
_VC-PL	LIVECHAT Software S.A.		0.01%			-12.5%		
ACP-PL	Asseco Poland S.A.		0.01%			-10.8%		
ZU-PL	Powszechny Zaklad Ubezpie	-0.02%					36.6%	
.PP-PL	LPP S.A.	-0.02%					40.9%	
SPL-PL	Santander Bank Polska SA	-0.03%					49.1%	
PKO-PL	PKO Bank Polski S.A.	-0.06%					99.8%	
PKN-PL	Polski Koncern Naftowy ORL	-0.09%					144.89	

Ch 2. Poland: Aggregate Stock Holdings Data, Ranked by Most Widely Held.

DNP-PL	Dino Polska SA	20.83%	0.23%	0.16%	\$531.98M
PEO-PL	BANK POLSKA KASA OPIEKI SA	11.20%	0.05%		\$191.04M
PKN-PL	Polski Koncern Naftowy ORLEN S.A.	10.68%	0.05%		\$103.70M
KGH-PL	KGHM Polska Miedz S.A.	10.68%	0.05%		\$141.85M
PZU-PL	Powszechny Zaklad Ubezpieczen Spolka Akc	9.90%	0.05%		\$234.70M
PKO-PL	PKO Bank Polski S.A.	7.29%	0.03%		\$152.17M
LPP-PL	LPP S.A.	4.17%	0.01%		\$44.60M
CDR-PL	CD Projekt S.A.	3.91%	0.01%		\$103.76M
SPL-PL	Santander Bank Polska SA	3.65%	0.01%		\$36.01M
OPL-PL	Orange Polska S.A.	3.65%	0.01%	0.01%	\$9.46M
PGE-PL	PGE Polska Grupa Energetyczna S.A.	2.60%	0.00%		\$14.41M
CPS-PL	Cyfrowy Polsat SA	2.08%	0.00%		\$6.02M
ACP-PL	Asseco Poland S.A.	2.08%	0.01%	0.01%	\$7.61M
GPP-PL	Grupa Pracuj spolka akcyjna	1.30%	0.02%	0.02%	\$39.18M
LVC-PL	LIVECHAT Software S.A.	1.04%	0.01%	0.01%	\$6.24M
JSW-PL	Jastrzebska Spolka Weglowa S.A.	1.04%	0.00%	0.00%	\$3.52M
WPL-PL	Wirtualna Polska Holding SA	0.78%	0.01%	0.01%	\$15.65M

0.78%

0.78%

0.78%

0.78%

0.52%

0.52%

0.52%

0.52%

Ch 4. Poland: Aggregate Stock Holdings Data, Largest Overweight Holdings

AUM, \$	Ticker	Stock Name	Vs Benchmark	Average Weight	Funds Invested %	Fund AUM, \$
31.98M	DNP-PL	Dino Polska SA	0.16%	0.23%	20.83%	\$531.98M
91.04M	GPP-PL	Grupa Pracuj spolka akcyjna	0.02%	0.02%	1.30%	\$39.18M
03.70M	WPL-PL	Wirtualna Polska Holding SA	0.01%	0.01%	0.78%	\$15.65M
41.85M	LVC-PL	LIVECHAT Software S.A.	0.01%	0.01%	1.04%	\$6.24M
34.70M	ACP-PL	Asseco Poland S.A.	0.01%	0.01%	2.08%	\$7.61M
52.17M	OPL-PL	Orange Polska S.A.	0.01%	0.01%	3.65%	\$9.46M
4.60M	CCC-PL	CCC SA	0.00%	0.00%	0.52%	\$1.16M
03.76M	KRU-PL	KRUK S.A.	0.00%	0.00%	0.26%	\$19.39M
36.01M	TIM-PL	TIM SA	0.00%	0.00%	0.26%	\$5.85M
9.46M	KTY-PL	Grupa KETY S.A.	0.00%	0.00%	0.52%	\$3.67M
44 4484						

Ch 5. Poland: Aggregate Stock Holdings Data, Largest Underweight Holdings

Ticker	Stock Name	Vs Benchmark	Average Weight	Funds Invested %	Fund AUM, \$
PKN-PL	Polski Koncern Naftowy ORLEN S.A.		0.05%	10.68%	\$103.70M
PKO-PL	PKO Bank Polski S.A.		0.03%	7.29%	\$152.17M
SPL-PL	Santander Bank Polska SA		0.01%	3.65%	\$36.01M
LPP-PL	LPP S.A.		0.01%	4.17%	\$44.60M
PZU-PL	Powszechny Zaklad Ubezpieczen Spolka Akc		0.05%	9.90%	\$234.70M
KGH-PL	KGHM Polska Miedz S.A.		0.05%	10.68%	\$141.85M
PGE-PL	PGE Polska Grupa Energetyczna S.A.		0.00%	2.60%	\$14.41M
MBK-PL	mBank SA		0.00%	0.78%	\$5.22M
CDR-PL	CD Projekt S.A.		0.01%	3.91%	\$103.76M
CPS-PL	Cyfrowy Polsat SA		0.00%	2.08%	\$6.02M

Fund Level Stock Holdings



\$74.01M

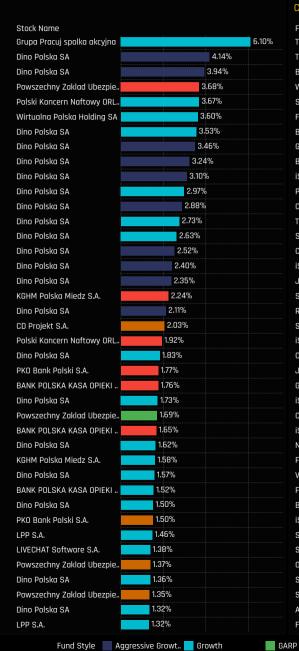
Chart 1. Poland: The largest individual fund level stock holdings by fund weight, coloured by fund Style.

Chart 2. Poland: The largest individual fund level stock holdings by \$ AUM, coloured by fund Style.

Ch 1. Poland: Top Fund Holdings, %

Fund Name	Ticker
Virtus KAR Emerging Markets Small Cap Fund	GPP-P
Grandeur Peak Emerging Markets Opportunities Fund	DNP-P
Ashmore SICAV - Emerging Markets Equity ESG Fund	DNP-P
Skyline Umb. Fd. ICAV - ARGA Emerging Market Equity Fund	PZU-PI
LUX IM - ESG Global Emerging Equities	PKN-P
Virtus KAR Emerging Markets Small Cap Fund	WPL-F
Aberdeen Std. SICAV I - EM Sust. Development Equity Fund	DNP-P
Aubrey Capital Mgmt. Access Fund - Global EM Opportunities	DNP-P
Omnis Portfolio Investments ICVC - Global EM Equity Opp. Fu	DNP-P
Polen Emerging Markets Growth Fund	DNP-P
Mirabaud - Equities Global Emerging Markets	DNP-P
WCM Focused Emerging Markets Fund	DNP-P
CM-AM Global Emerging Markets	DNP-P
Thornburg Developing World Fund	DNP-P
William Blair Emerging Markets Small Cap Growth Fund	DNP-P
Ashmore Emerging Markets Equity Fund	DNP-P
AXA World Funds SICAV - Framlington Emerging Markets	DNP-P
BlackRock Strategic Fds Emerging Markets Equity Strategi	KGH-P
Neuberger Berman Invt. Funds Plc - EM Sus. Eq. Fd.	DNP-P
Seafarer Overseas Growth & Income Fund	CDR-P
Global Advantage Funds - Emerging Markets High Value	PKN-P
Wellington Mgmt. Funds (IE) Plc - Emerging Mkts. Local Eq.	DNP-P
Skyline Umb. Fd. ICAV - ARGA Emerging Market Equity Fund	PKO-P
BlackRock Strategic Fds Emerging Markets Equity Strategi	PEO-P
New Capital UCITS Fund Plc - Emerging Mkts. Ftr. Leaders Fd.	DNP-P
T Rowe Price Emerging Markets Discovery Stock Fund	PZU-P
AB FCP II - Emerging Market Value Portfolio	PEO-PI
Caixabank Master Renta Variable Emergente Advised By, Fl	DNP-P
Baillie Gifford Overseas Growth Fund - Emer. Mkts. Leading Co.	KGH-P
Matthews Emerging Markets Equity Fund	DNP-P
BlackRock Global Funds - Emerging Markets Fund	PEO-PI
River & Mercantile Investment Funds - EM ILC Equity Fund	DNP-P
BlackRock Global Funds - Emerging Markets Equity Income Fu	РКО-Р
Morgan Stanley Invt. Fds Sustainable EM Eq. Fds.	LPP-PI
Vaughan Nelson Emerging Markets Opportunities Fund	LVC-PI
JPMorgan Funds - Emerging Markets Dividend Fund	PZU-PI
Principal Funds Inc Origin Emerging Markets Fund	DNP-P
JPMorgan Fund ICVC - Emerging Markets Income Fund	PZU-PI
Neuberger Berman Emerging Markets Equity Fund	DNP-P
Morgan Stanloy Inst. Fund - Emorging Markets Portfolio	ı nn-nı

Morgan Stanley Instl. Fund - Emerging Markets Portfolio



Ch 2. Poland: Top Fund Holdings, \$

Fund Name	Ticker	Stock Name	
T Rowe Price Emerging Markets Discovery Stock Fund	PZU-PL	Powszechny Zaklad Ubezpiecze	
T Rowe Price Emerging Markets Stock Fund	PKO-PL	PKO Bank Polski S.A.	\$51.86M
BlackRock Emerging Markets Fund Inc.	PEO-PL	BANK POLSKA KASA OPIEKI SA	\$47.82M
WCM Focused Emerging Markets Fund	DNP-PL	Dino Polska SA	\$42.86M
Seafarer Overseas Growth & Income Fund	CDR-PL	CD Projekt S.A.	\$39.66M
Fidelity Inv. Trust - Emerging Markets Opportunities Fund	CDR-PL	CD Projekt S.A.	\$37.36M
BlackRock Global Funds - Emerging Markets Fund	PEO-PL	BANK POLSKA KASA OPIEKI SA	\$37.05M
GS Funds - Emerging Markets Equity Portfolio	DNP-PL	Dino Polska SA	\$35.58M
BlackRock Emerging Markets Fund Inc.	PKO-PL	PKO Bank Polski S.A.	\$34.55M
iShares MSCI Emerging Markets ETF	PKN-PL	Polski Koncern Naftowy ORLEN	\$33.10M
Principal Funds Inc Origin Emerging Markets Fund	DNP-PL	Dino Polska SA	\$32.52M
Candriam Sustainable - Equity Emerging Market	DNP-PL	Dino Polska SA	\$30.34M
Thornburg Developing World Fund	DNP-PL	Dino Polska SA	\$26.73M
St. James's Place Unit Trust - Emerging Markets Equity	PZU-PL	Powszechny Zaklad Ubezpiecze	\$26.55M
Caixabank Master Renta Variable Emergente Advised By	DNP-PL	Dino Polska SA	\$24.05M
iShares MSCI Emerging Markets ETF	PKO-PL	PKO Bank Polski S.A.	\$22.21M
JPMorgan Funds - Emerging Markets Opportunities Fund	DNP-PL	Dino Polska SA	\$19.48M
Schroder ISF - Global Emerging Market Opportunities	KRU-PL	KRUK S.A.	\$19.39M
Robeco Capital Gr. Fds Emerging Stars Equities	KGH-PL	KGHM Polska Miedz S.A.	\$18.89M
Schroder ISF - Emerging Markets	PZU-PL	Powszechny Zaklad Ubezpiecze	\$18.75M
iShares MSCI Emerging Markets ETF	PZU-PL	Powszechny Zaklad Ubezpiecze	\$18.52M
Caixabank Master Renta Variable Emergente Advised By	LPP-PL	LPP S.A.	\$18.23M
John Hancock Emerging Markets Equity Fund	DNP-PL	Dino Polska SA	\$18.11M
Grandeur Peak Emerging Markets Opportunities Fund	DNP-PL	Dino Polska SA	\$17.78M
iShares MSCI Emerging Markets ETF	DNP-PL	Dino Polska SA	\$17.17M
Candriam Equities L - Emerging Markets	DNP-PL	Dino Polska SA	\$16.98M
iShares MSCI Emerging Markets ETF	KGH-PL	KGHM Polska Miedz S.A.	\$15.69M
Ninety One Glb. Strat. Fd Emerging Markets Equity	PEO-PL	BANK POLSKA KASA OPIEKI SA	\$15.59M
Fidelity Funds SICAV - Emerging Markets Fund	DNP-PL	Dino Polska SA	\$15.00M
Virtus KAR Emerging Markets Small Cap Fund	GPP-PL	Grupa Pracuj spolka akcyjna	\$14.83M
Fidelity SAI Emerging Markets Value Index Fund	PKN-PL	Polski Koncern Naftowy ORLEN	\$14.72M
Baillie Gifford Overseas Growth Fund - Emer. Mkts. Leadi	KGH-PL	KGHM Polska Miedz S.A.	\$14.52M
iShares MSCI Emerging Markets ETF	PEO-PL	BANK POLSKA KASA OPIEKI SA	\$13.92M
Schroder ISF - Global Emerging Market Opportunities	SPL-PL	Santander Bank Polska SA	\$13.90M
St. James's Place Unit Trust - Emerging Markets Equity	PKO-PL	PKO Bank Polski S.A.	\$13.54M
Omnis Portfolio Investments ICVC - Global EM Equity Op	DNP-PL	Dino Polska SA	\$13.19M
Schroder ISF - Emerging Markets	KGH-PL	KGHM Polska Miedz S.A.	\$12.58M
Schroder ISF - Emerging Markets	PEO-PL	BANK POLSKA KASA OPIEKI SA	\$12.19M
Aubrey Capital Mgmt. Access Fund - Global EM Opportuni	DNP-PL	Dino Polska SA	\$12.16M
Fidelity Institutional Funds - Emerging Markets Fund	DNP-PL	Dino Polska SA	\$11.77M
RP Value Vield			

Aggregate Stock Holding Changes



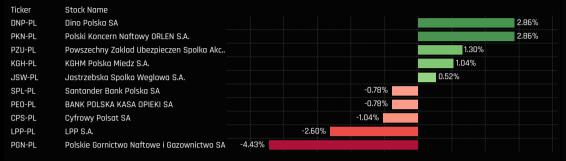
Chart 1. The 10 Poland stocks seeing the largest changes in funds invested % between 9/30/2022 - 3/31/2023. A positive figure shows more funds buying in to the stock, a negative figure funds closing out.

Chart 2. The largest increases in funds invested %, together with average weight changes, relative to benchmark changes and combined fund flows.

Chart 3. The 10 Poland stocks seeing the largest USD fund flows between 9/30/2022 - 3/31/2023.

Chart 4. The largest decreases in funds invested %, together with average weight changes, relative to benchmark changes and combined fund flows.

Ch 1. Poland: Largest Changes in Funds Invested %



Ch 3 Poland: Largest Combined Fund Flows in USD.

Ticker PEO-PL	Stock Name BANK POLSKA KASA OPIEKI				,		\$40.80M
PKO-PL	PKO Bank Polski S.A.						36.60M
PKN-PL	Polski Koncern Naftowy ORL					\$28.92M	
PZU-PL	Powszechny Zaklad Ubezpie				\$20.54M		
KGH-PL	KGHM Polska Miedz S.A.			\$10.11M			
BDX-PL	Budimex SA		(\$1.32M)				
OPL-PL	Orange Polska S.A.		(\$2.67M)				
LPP-PL	LPP S.A.	(\$	6.45M)				
CDR-PL	CD Projekt S.A.	(\$13.64M)					
PGN-PL	Polskie Gornictwo Naftowe i	(\$16.46M)					

Ch 2. Poland: Aggregate Stock Holdings Changes - Largest Increases in Funds Invested %.

Ticker	Stock Name	Funds Invested % Δ	Average Weight Δ	Average Wgt vs Benchmark Δ	Fund Flows, \$	Tio
DNP-PL	Dino Polska SA	2.86%	0.06%	0.05%	\$4.51M	PC
PKN-PL	Polski Koncern Naftowy ORLEN S.A.	2.86%	0.02%		\$28.92M	LF
PZU-PL	Powszechny Zaklad Ubezpieczen Spolka Akc	1.30%	0.02%		\$20.54M	CF
KGH-PL	KGHM Polska Miedz S.A.	1.04%	0.02%		\$10.11M	PE
JSW-PL	Jastrzebska Spolka Weglowa S.A.	0.52%	0.00%	0.00%	\$1.22M	SI
OPL-PL	Orange Polska S.A.	0.26%	0.00%	0.01%		ΑŒ
BHW-PL	Bank Handlowy w Warszawie S.A.	0.26%	0.00%	0.00%	\$0.04M	E١
XTB-PL	XTB SA	0.26%	0.00%	0.00%	\$0.27M	IN
STH-PL	STS Holding S.A	0.26%	0.00%	0.00%	\$0.03M	KF
KTY-PL	Grupa KETY S.A.	0.26%	0.00%	0.00%	\$3.54M	L۷
CIE-PL	Ciech SA	0.26%	0.00%	0.00%	\$0.03M	В
ZAP-PL	Grupa Azoty Zaklady Azotowe Pulawy SA	0.00%	0.00%	0.00%		TF
WWL-PL	Zaklady Przemyslu Cukierniczego Wawel S.A.	0.00%	0.00%	0.00%		CI
WPL-PL	Wirtualna Polska Holding SA	0.00%	0.00%	0.00%	\$0.00M	
WLT-PL	Wielton S.A.	0.00%	0.00%	0.00%	\$0.00M	
VRG-PL	VRG S.A.	0.00%	0.00%	0.00%		
UNT-PL	UNIMOT SA	0.00%	0.00%	0.00%	\$0.00M	
TVN-PL	TVN S.A.	0.00%	0.00%	0.00%		
TRK-PL	Trakcja Spolka Akcyjna	0.00%	0.00%	0.00%		
TIM-PL	TIM SA	0.00%	0.00%	0.00%	\$0.00M	
TEX-PL	Techmex SA	0.00%	0.00%	0.00%		
TEN-PL	Ten Square Games SA	0.00%	0.00%	0.00%		
STS-PL	Satis GROUP Spolka Akcyjna	0.00%	0.00%	0.00%		
STP-PL	Stalprodukt S.A.	0.00%	0.00%	0.00%		
SNS-PL	Synthos S.A.	0.00%	0.00%	0.00%		

Ch 4. Poland: Aggregate Stock Holdings Changes - Largest Decreases in Funds Invested %.

					Average Wgt vs	
, \$	Ticker	Stock Name	Funds Invested % Δ	Average Weight Δ	Benchmark Δ	Fund Flows, \$
IM	PGN-PL	Polskie Gornictwo Naftowe i Gazownictwo SA			0.02%	
M	LPP-PL	LPP S.A.				
M	CPS-PL	Cyfrowy Polsat SA			0.00%	
IM	PEO-PL	BANK POLSKA KASA OPIEKI SA		0.02%	0.01%	\$40.80M
M	SPL-PL	Santander Bank Polska SA		0.00%		\$8.44M
	ACP-PL	Asseco Poland S.A.				
M	ENA-PL	ENEA S.A.				
'Μ	ING-PL	ING Bank Slaski S.A.				
3M	KRU-PL	KRUK S.A.		0.00%	0.00%	
М	LWB-PL	Lubelski Wegiel BOGDANKA SA				
BM	BDX-PL	Budimex SA		0.00%	0.00%	
	TPE-PL	TAURON Polska Energia S.A.				
	CDR-PL	CD Projekt S.A.		0.00%		(\$13.64M)
ıM						

Fund Level Stock Holding Changes



Chart 1. The largest fund weight increases in Poland stocks between 9/30/2022 - 3/31/2023.

Chart 2. The largest fund weight decreases in Poland stocks between 9/30/2022 - 3/31/2023

Both charts show the current weight and whether the weight change represented a new or closed position.

Ch 1. Poland: Largest Increases in Position, %

Fund Name	Ticker
LUX IM - ESG Global Emerging Equities	PKN-PL
Polen Emerging Markets Growth Fund	DNP-PL
Virtus KAR Emerging Markets Small Cap Fund	GPP-PL
BlackRock Strategic Fds Emerging Markets Equ	KGH-PL
Skyline Umb. Fd. ICAV - ARGA Emerging Market E	PKO-PL
BlackRock Strategic Fds Emerging Markets Equ	PEO-PL
Skyline Umb. Fd. ICAV - ARGA Emerging Market E	PZU-PL
Global Advantage Funds - Emerging Markets Hig	PKN-PL
Grandeur Peak Emerging Markets Opportunities	DNP-PL
Vaughan Nelson Emerging Markets Opportunitie	DNP-PL
Aubrey Capital Mgmt. Access Fund - Global EM O	DNP-PL
Morgan Stanley Invt. Fds Sustainable EM Eq. F	KTY-PL
Global Advantage Funds - Emerging Markets Hig	PKO-PL
Schroder ISF - Global Emerging Market Opportuni	SPL-PL
Virtus NFJ Emerging Markets Value Fund	DNP-PL
New Capital UCITS Fund Plc - Emerging Mkts. Ftr	DNP-PL
BNY Mellon Emerging Markets Fund	DNP-PL
Aberdeen Std. SICAV I - EM Sust. Development E	DNP-PL
Boston Partners Emerging Markets Fund	DNP-PL
JOHCM Emerging Markets Discovery Fund	PEO-PL

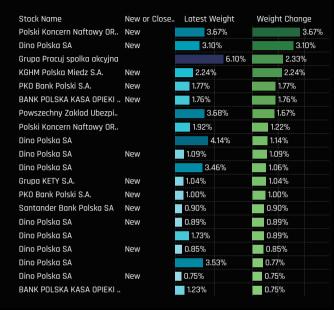


Chart 3. The largest buyers in US dollar terms in Poland stocks between 9/30/2022 - 3/31/2023. Chart 4. The largest sellers in US dollar terms in Poland stocks between 9/30/2022 - 3/31/2023 Both charts show the current AUM and whether the fund flow represented a new or closed position.

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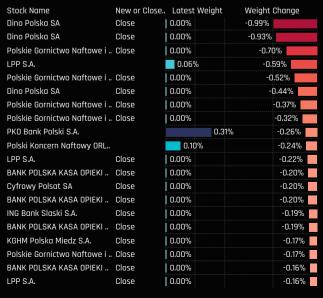
Ch 3. Poland: Largest Fund Inflows, \$

Fund Name	Ticker
BlackRock Emerging Markets Fund Inc.	PKO-PI
iShares MSCI Emerging Markets ETF	PKN-PI
BlackRock Emerging Markets Fund Inc.	PEO-PL
T Rowe Price Emerging Markets Stock Fund	PKO-PL
GS Funds - Emerging Markets CORE Equity Portfolio	PZU-PL
Schroder ISF - Emerging Markets	PEO-PL
Schroder ISF - Global Emerging Market Opportuniti	SPL-PL
BlackRock Strategic Fds Emerging Markets Equity	KGH-PI
Fidelity SAI Emerging Markets Value Index Fund	PKN-PI
BlackRock Global Funds - Emerging Markets Fund	PEO-PL
Fidelity Funds SICAV - Sust. Emerging Markets Equi	DNP-PI
LUX IM - ESG Global Emerging Equities	PKN-PI
BlackRock Strategic Fds Emerging Markets Equity	PEO-PL
Fidelity Funds SICAV - Emerging Markets Fund	DNP-PI
Skyline Umb. Fd. ICAV - ARGA Emerging Market Equ	PKO-PI
Fidelity Institutional Funds - Emerging Markets Fun	DNP-PI
Ninety One Glb. Strat. Fd Emerging Markets Equity	PEO-PL
GMO Emerging Markets Fund	PKN-PI
Morgan Stanley Invt. Fds Sustainable EM Eq. Fds.	KTY-PL
Robeco Capital Gr. Fds QI Emerging Markets Activ	DNP-P

Stock Name	New or Close	Latest AUM, S	Fund Flows, \$
PKO Bank Polski S.A.	1	\$35M	\$19
Polski Koncern Naftowy ORL		\$33M	\$16M
BANK POLSKA KASA OPIEKI		\$48	SM \$15M
PKO Bank Polski S.A.	į	\$5	2M \$13M
Powszechny Zaklad Ubezpie	New	\$11M	\$11M
BANK POLSKA KASA OPIEKI	New	\$12M	\$11M
Santander Bank Polska SA	New	\$14M	\$11M
KGHM Polska Miedz S.A.	New	\$9M	\$9M
Polski Koncern Naftowy ORL		\$15M	\$9M
BANK POLSKA KASA OPIEKI		\$37M	\$9M
Dino Polska SA	New	\$8M	\$8M
Polski Koncern Naftowy ORL	New	\$9M	\$8M
BANK POLSKA KASA OPIEKI	New	\$7M	\$7M
Dino Polska SA		\$15M	\$5M
PKO Bank Polski S.A.	New	\$6M	\$4M
Dino Polska SA		\$12M	\$4M
BANK POLSKA KASA OPIEKI		\$16M	\$4M
Polski Koncern Naftowy ORL		\$9M	\$4M
Grupa KETY S.A.	New	\$3M	■ \$3M
Dino Polska SA	New	\$4M	■ \$3M

Ch 2. Poland: Largest Decreases in Position, %

Fur	nd Name	Ticker
LO	Funds - Emerging High Conviction	DNP-PL
TC	W Developing Markets Equity Fund	DNP-PL
DN	B Global Emerging Markets	PGN-PL
Rol	beco Capital Gr. Fds QI EM Sust. Active Eq.	LPP-PL
Glo	bal Advantage Funds - Emerging Markets Hig	PGN-PL
Мо	rgan Stanley Instl. Fund - Emerging Markets P	DNP-PL
LS	V Emerging Markets Equity Fund	PGN-PL
LUX	X IM - ESG Global Emerging Equities	PGN-PL
Art	emis Investment Funds ICVC - Global Emergin	PKO-PL
Sw	risscanto Sammelstiftung Emerging Market Eq	PKN-PL
ΚB	l Funds ICAV - Emerging Markets Equity Fund	LPP-PL
Gol	ldman Sachs Emerging Markets Equity Insight	PEO-PL
VP	Bank Risk Optimised ESG Eq. Fd Emerging M	CPS-PL
Wis	sdomTree Tr Emerging Markets Dividend Fun	PEO-PL
Wil	lliam Blair Emerging Markets Small Cap Growt	ING-PL
Ad	visors Inner Circle - Acadian Emerging Markets	PEO-PL
Alli	anz Intl. Invt. Fds Emerging Markets Equity	KGH-PL
Gol	ldman Sachs Funds III - Emerging Markets Equ	PGN-PL
Rol	beco Capital Gr. Fds QI EM Sust. Active Eq.	PEO-PL
На	rtford Emerging Markets Equity Fund	LPP-PL



Ch 4. Poland: Largest Fund Outflows, \$

Fund Name	Fund Name	Ticker
DNB Global E	DNB Global Emerging Markets	PKN-PL
Seafarer Ove	Seafarer Overseas Growth & Incom	CDR-PL
John Hancoc	John Hancock Emerging Markets Eq	DNP-PL
GS Funds - E	GS Funds - Emerging Markets Equit	DNP-PL
Fidelity SAI E	Fidelity SAI Emerging Markets Value	KGH-PL
iShares MSCI	iShares MSCI Emerging Markets ETF	PGN-PL
DNB Global E	DNB Global Emerging Markets	PGN-PL
Neuberger B	Neuberger Berman Emerging Marke	DNP-PL
Goldman Sac	Goldman Sachs Emerging Markets E	PEO-PL
WCM Focuse	WCM Focused Emerging Markets Fu	DNP-PL
Swisscanto	Swisscanto Sammelstiftung Emergi	PKN-PL
iShares MSCI	iShares MSCI Emerging Markets ETF	OPL-PL
Fidelity Inv. T	Fidelity Inv. Trust - Emerging Market	CDR-PL
Columbia Em	Columbia Emerging Markets Fund	DNP-PL
Baillie Giffor	Baillie Gifford Overseas Growth Fun	KGH-PL
Mercer Emer	Mercer Emerging Markets Equity Fu	PKN-PL
Goldman Sac	Goldman Sachs Emerging Markets E	PKO-PL
LO Funds - E	LO Funds - Emerging High Conviction	DNP-PL
Fidelity SAI E	Fidelity SAI Emerging Markets Value	PGE-PL
Morgan Stan	Morgan Stanley Instl. Fund - Emergi	DNP-PL

ock Name	New or Close	Latest	AUM, \$	Fund F	lows, \$
lski Koncern Naftowy ORL				(\$8M)	
Projekt S.A.			\$40M	(\$7M)	
no Polska SA		\$18	М	(\$7M)	
no Polska SA			\$36M	(\$7M)	
HM Polska Miedz S.A.	Close			(\$7M)
lskie Gornictwo Naftowe i				(\$61	4)
lskie Gornictwo Naftowe i	Close			(\$61	M)
no Polska SA		\$9M		(\$	5M)
NK POLSKA KASA OPIEKI	Close			(9	\$4M)
no Polska SA			\$43M	(\$4M)
lski Koncern Naftowy ORL		\$1M		(\$4M)
ange Polska S.A.				(\$4M)
Projekt S.A.			\$37M	(\$4M)
no Polska SA		\$12M			(\$3M)
HM Polska Miedz S.A.		\$151	1		(\$3M)
lski Koncern Naftowy ORL	Close				(\$3M)
O Bank Polski S.A.	Close				(\$3M)
no Polska SA	Close				(\$3M)
E Polska Grupa Energetyc	Close				(\$2M)
no Polska SA	Close				(\$2M)

Stock Sentiment Grid



average weight, funds invested % and funds o/w % relative to all monthly observations in our fund history (going back to 1/31/2008). A figure close to 100% would indicate today's positioning is close to its maximum ever level, a figure close to zero, the lowest. The X-axis provides a measure of short-term fund activity, or 'Momentum', by looking at the changes in average weight, funds invested % and funds o/w % between 9/30/2022 and 3/31/2023, relative to each stock. A figure above 50% means a stock has seen relative increases in ownership, a figure below 50% indicates a relative decrease in positioning. The size of the bubble represents the average weight of each stock. The colour represents if the stock is held overweight (blue) or underweight (red) on average.





Position Range: Average of: Z-Score Average Weight vs history Z-Score Funds Invested % vs history Z-Score Funds O/W % vs history Momentum Score: Average of: Change in Average Weight (Percentile vs Peers) Change in Funds Invested % (Percentile vs Peers) Change in Funds O/W % (Percentile vs Peers)

Holdings by Fund Style



Chart 1. The average weights in Poland stocks and the average weights vs the iShares MSCI Emerging Markets ETF, split by fund Style.

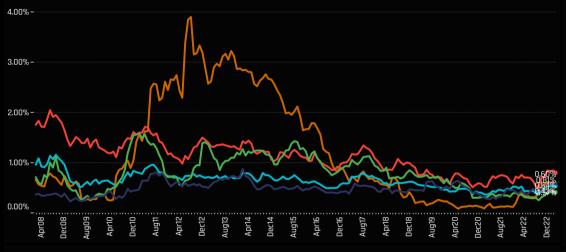
Charts 2&3. The time series of average fund weights in Poland stocks and average weights vs iShares MSCI Emerging Markets ETF, ..

Chart 4. The percentage of funds invested in Poland stocks and the percentage of funds overweight, split by fund Style. Charts 5&6. The time series of the percentage of funds invested in Poland stocks and the percentage of funds overweight, split by fund Style.





Ch 2. Poland: Average Fund Weights per Style Time-Series



Ch 3. Poland: Average Fund Weight vs EEM per Style Time-Series



Ch 4. Poland: Funds Invested % / Funds Overweight %, per fund Style group.



Ch 5. Poland: Funds Invested % per Style Time-Series



Ch 6. Poland: Funds Overweight % per Style Time-Series



Holdings by Fund Style



Top Row. For each Style category, each chart shows the largest holders in the Poland Country group.

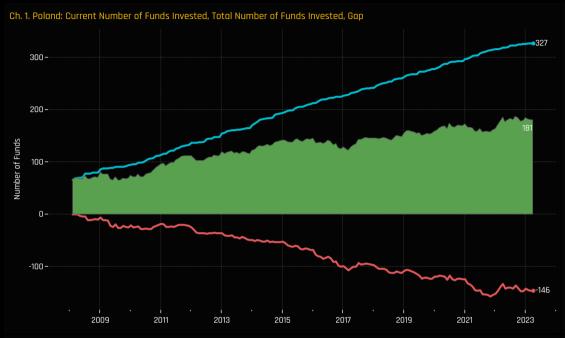
Middle Row: For each Style category, each chart shows the most widely held stocks and the corresponding average fund weights in the Poland Country group. Bottom Row: For each Style category, each chart shows the largest stock overweights and underweights in the Poland Country group.





Ch1. The blue line shows the total number of funds (out of 384) who have ever owned Poland stocks. The green area shows the number of funds invested at any one time and the red line the difference. A download sloping red line means existing investors are closing out positions, a rising red line means previous investors are buying back in.

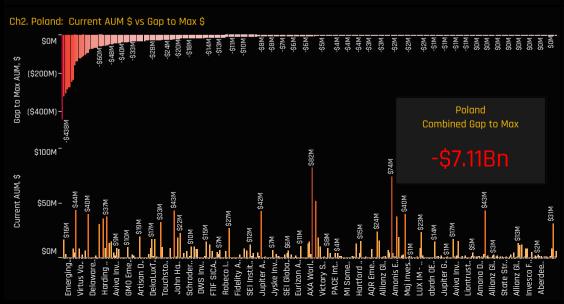
Chart 3: The Z-Score of current weights versus history for all current and previous holders of Poland stocks. A value of 100% means today's weight is the highest on record for that fund, zero the lowest.

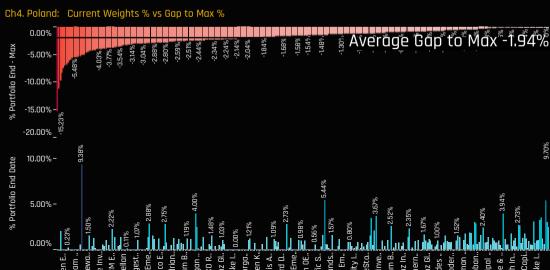


Channel Bourd College College

Chart 2: The orange lines show the current AUM in Poland stocks for each fund. The red lines show the gap between today's weight and the maximum weight for each fund.

Chart 4. Blue lines show the current weight in Poland stocks for each fund. The red lines show the gap between today's weight and the maximum weight for each fund.





Fund Level Gap Analysis

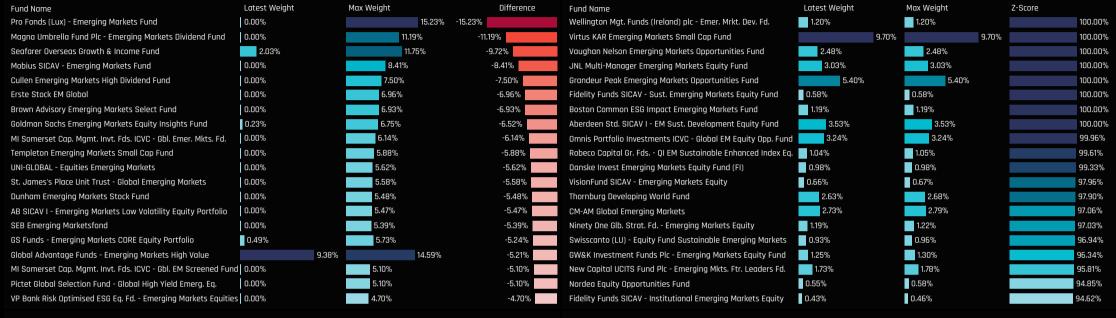
Ch. 3: Poland: Highest Ownership Z-Score (%)



Chart 1: Current fund weight, maximum fund weight and difference for Poland stocks. Chart 2: Current fund AUM, maximum fund AUM and \$ difference for Poland stocks

Chart 3: Current fund weight, maximum fund weight and Z-Score for Poland stocks, ranked by Z-Score Chart 4: Current fund AUM, maximum AUM and Z-Score for Poland stocks, ranked by Z-Score.

Ch. 1: Poland: Largest Gap to Max (%)



Ch. 2: Poland: Largest Gap to Max (\$)



Flow Potential



Chart 1: Current fund weight, maximum fund weight and the difference for Poland stocks. Filtered for funds that have bought in to Poland between 9/30/2022 - 3/31/2023

Chart 2: Current fund AUM, maximum fund AUM and the USD difference for Poland stocks. Filtered for funds that have bought in to Poland between 9/30/2022 - 3/31/2023

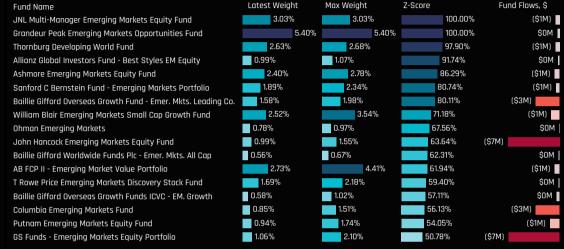
Chart 3: Current fund weight, maximum fund weight and Z-Score for Poland stocks, ranked by Z-Score. Filtered for funds that have sold Poland between 9/30/2022 - 3/31/2023 and have a % Z-Score of above 50%.

Chart 4: Current fund AUM, maximum AUM and Z-Score for Poland stocks, ranked by Z-Score. Filtered for funds that have sold Poland between 9/30/2022 - 3/31/2023 and have a \$ Z-Score of above 50%.

Ch. 1: Poland: Largest Gap to Max (%) and Buying between 9/30/2022 - 3/31/2023



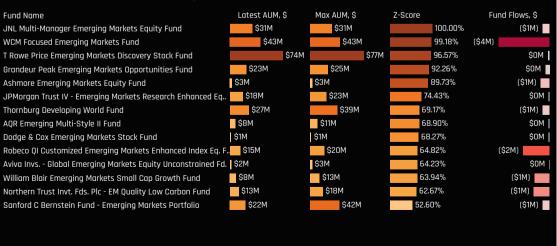
Ch. 3: Poland: Z-Score (%) > 50% and selling between 9/30/2022 - 3/31/2023



Ch. 2: Poland: Largest Gap to Max (\$) and Buying between 9/30/2022 - 3/31/2023



Ch. 4: Poland: Z-Score (\$) > 50% and selling between 9/30/2022 - 3/31/2023





Style Classifications

Each fund is split into a Style category based on the P/E and P/B ratios of their portfolio compared to the benchmark

Aggressive Growth: At least 70% of the portfolio in stocks with a higher P/E than the iShares MSCI Emerging Markets ETF average, and at least 70% with a higher P/B ratio.

Growth: At least 50% of the portfolio in stocks with a higher P/E than the iShares MSCI Emerging Markets ETF average, and at least 50% with a higher P/B ratio.

Value: Either by the fund description, or at least 50% of the portfolio in stocks with a lower P/E ratio than the iShares MSCI Emerging Markets ETF average, and at least 50% with a lower P/B ratio

Yield: As per the fund description only (i.e Yield, Dividend, Income funds).

GARP: All other iterations that do not fit under the above classifications.

Ownership Calculations

We track GEM Fund ownership across sectors, industries and stocks using a variety of calculations. They are listed below:

Average Weight: The sum of all fund weights in any measure (region, country, sector, industry, stock) divided by the total number of funds (384) in the analysis.

Average Weight vs EEM: The average weight minus the weight in the iShares MSCI Emerging Markets ETF (cash removed and weights adjusted).

Funds Invested %: The total number of funds with any exposure to a measure divided by the total number of funds (384) in the analysis.

Funds O/W: The total number of funds overweight a measure versus the EEM, divided by the total number of funds (384) in the analysis.

AUM, \$: The combined AUM allocated to a particular measure across the 384 active GEM funds in our analysis, in US Dollars





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