

European Snapshot

First signs of bottoming revisions

Quantitative Strategy

Screen of the Week: highest/lowest breadth of revisions

The European 3-month ratios for sales (0.62), EPS (0.68) and DPS (0.80) remain in net downgrade territory (<1) for the 4th consecutive month, but the pace of net downgrades slowed for the sales and EPS ratios, while DPS ratio has increased the most in the past 9 months. In our Screen of the Week, we focus on European large-cap stocks with the highest and lowest 1-month sales, EPS and DPS Revision Ratios (Exhibit 1).

First improvement in all 3 metrics ratios since May '23

After 9 months of broad declines across metrics, the 1-month revision ratios have increased over the month: sales to 0.64, EPS to 0.67 and DPS to 0.93. The ratios increased broadly across sectors/countries/styles/exposure baskets with Developed Europe-exposed stocks topping all metrics and Utilities and Globally Diversified stocks' ratios declining on all three metrics (see Exhibit 51 for details).

Other metrics: all up, except for price targets

In February, the 1-month Revision Ratio increased the most for capex (to 1.27 from 0.65, back into net upgrades territory after 3 months in net downgrades, due to increases in Discretionary and Materials - see Exhibit 2 for top/bottom stocks), followed by buybacks (to 1.29 from 1.00, driven by Energy and Discretionary), net debt (to 2.06 from 1.84, on the back of increases in Technology and Industrials) and inventories (to 0.60 from 0.42, due to the increase in Financials). Only the price targets ratio declined (to 1.80 from 1.94, driven by Technology, Communications and Utilities).

Smallest outflow since Apr '20 from Europe-focused funds

Europe-focused equity funds recorded their 9th consecutive weekly outflow of \$0.03bn (the smallest outflow since April '20), with a net -27.7% seeing net inflows. Outflows amounted to \$1.51bn from active funds and \$1.47bn of inflows (the highest since Feb '23) moved into passive funds. Europe-focused funds have seen \$9.4bn of outflows YTD: \$13.58bn of outflows from active funds and \$4.18bn of inflows into passive funds. Size stocks (\$0.70bn), Switzerland (\$0.37bn) and Healthcare (\$0.11bn) had the largest inflows last week, while the UK (\$0.62bn), Financials (\$0.18bn) and Risk stocks (\$0.16bn) posted the largest outflows.

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Quant Strategy Europe

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Latest European Snapshot notes:

European Snapshot: Who is exposed to China/EM APAC? 28 February 2024

European Snapshot: Who screens well in 'Recession' and 'Recovery'? 15 February 2024

We highlight the latest C-suite changes, insider buying stats and new buyback announcements in our screens in the Appendix.

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Screen of the week

Exhibit 1: The top/bottom European stocks with the highest and lowest 1-month Sales/EPS/DPS Revision Ratios among the largest 250 European listed names as per the market cap

Sales/EPS/DPS Revision Ratio per company, measured as: ((# of FY1 and FY2 upward Sales/EPS/DPS revisions over past month)-(# of FY1 and FY2 downward Sales/EPS/DPS revisions over past month))/# of FY1 and FY2 estimates over past month

BBG Ticker	Name	1m SRR	1m ERR	1m DRR	BBG Ticker	Name	1m SRR	1m ERR	1m DRR
UCG IM	UniCredit	0.60	0.90	0.73	BATS LN	British American Tobacco	-0.81	-0.73	-0.68
EXPN LN	Experian	0.73	0.60	0.23	IFX GR	Infineon Technologies	-0.88	-0.92	-0.31
ISP IM	Intesa Sanpaolo	0.47	0.44	0.60	ADS GR	adidas	-0.75	-0.67	-0.46
MOWI NO	Mowi	0.52	0.43	0.52	UHR SW	Swatch	-0.38	-0.84	-0.63
SKG ID	Smurfit Kappa	0.35	0.55	0.45	INGA NA	ING	-0.67	-0.52	-0.55
PUB FP	Publicis Groupe	0.35	0.48	0.43	HLN LN	Haleon	-0.50	-0.53	-0.53
SAN SM	Santander	0.50	0.49	0.23	LSEG LN	London Stock Exchange	-0.71	-0.46	-0.25
RMS FP	Hermes International	0.38	0.43	0.24	ROG SW	Roche Holding	-0.50	-0.53	-0.21
AENA SM	Aena SME	0.29	0.33	0.38	CA FP	Carrefour	-0.74	-0.23	-0.24
CABK SM	CaixaBank	0.24	0.28	0.48	P911 GR	Porsche	-0.43	-0.47	-0.27
					AKZA NA	Akzo Nobel	-0.22	-0.39	-0.50
					FRE GR	Fresenius SE	-0.40	-0.28	-0.34
					GLE FP	Societe Generale	-0.25	-0.33	-0.24
					MRK GR	Merck	-0.26	-0.32	-0.21

Source: BofA European Equity Quant Strategy, IBES. Disclaimer: The screen above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark.

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Exhibit 2: The top/bottom European stocks with the highest and lowest 1-month Capex Revision Ratios among the largest 250 European listed names as per the market cap

Capex Revision Ratio per company, measured as: ((# of FY1 and FY2 upward capex revisions over past month)-(# of FY1 and FY2 downward capex revisions over past month))/ # of FY1 and FY2 estimates over past month

Most	positive breadth of Capex revisi	Most negative breadth of Capex revisions					
BBG Ticker	-	Ratio	BBG Ticker	Name	Ratio		
EPIA SS	Epiroc	0.88	PUB FP	Publicis	-1.00		
SU FP	Schneider Electric	0.82	AD NA	Ahold Delhaize	-0.85		
NOVOB DC	Novo Nordisk	0.82	BATS LN	British American Tobacco	-0.80		
EQNR NO	Equinor	0.80	ERICB SS	LM Ericsson	-0.71		
VOLVB SS	Volvo	0.77	RI FP	Pernod Ricard	-0.71		
BVI FP	Bureau Veritas	0.71	STMPA FP	STMicroelectronics	-0.68		
SGRO LN	SEGRO	0.67	UPM FH	UPM-Kymmene	-0.65		
VWS DC	Vestas Wind Systems	0.67	KYGA ID	Kerry	-0.64		
HMB SS	H&M	0.65	GIVN SW	Givaudan	-0.60		
ANTO LN	Antofagasta	0.63	P911 GR	Porsche	-0.56		
KSP ID	Kingspan	0.60	ABI BB	Anheuser-Busch InBev	-0.54		
BA/ LN	BAE Systems	0.60	DSFIR NA	DSM-Firmenich	-0.54		
MC FP	LVMH	0.58	ADS GR	adidas	-0.53		
RIO LN	Rio Tinto	0.57	MOWI NO	Mowi	-0.50		
CRDA LN	Croda International	0.56	IBE SM	Iberdrola	-0.50		
PNDORA DC	Pandora	0.54	FRE GR	Fresenius SE	-0.50		
EDEN FP	Edenred	0.53	ALFA SS	Alfa Laval AB	-0.50		
AZN LN	AstraZeneca	0.50	SGSN SW	SGS	-0.50		
KNEBV FH	Kone	0.48	SHL GR	Siemens Healthineers	-0.47		
ABBN SW	ABB	0.47	1COV GR	Covestro	-0.46		
GSK LN	GSK	0.46	SIE GR	Siemens	-0.45		
MAERSKB D	C A.P. Moller - Maersk	0.45	SIKA SW	Sika	-0.45		
ARGX BB	argenx	0.44	ULVR LN	Unilever	-0.43		
UHR SW	Swatch	0.43	IFX GR	Infineon Technologies	-0.43		
CPG LN	Compass	0.43	CA FP	Carrefour	-0.41		

Source: BofA European Equity Quant Strategy, IBES. Disclaimer: The screen above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark.

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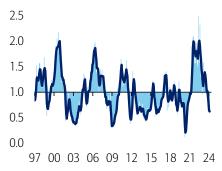


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Revisions

Exhibit 3: Sales Revision Ratio for Europe

1-month (light blue) and 3-month (dark blue); the 3-month ratio has gone down to 0.62 in February, from 0.64 previously

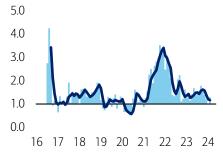


Source: BofA European Equity Quant Strategy, IBES. The Sales Revision Ratio measures the number of stocks for which the consensus Sales estimate has risen, versus the number for which it has fallen.

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Exhibit 6: Buybacks Revision Ratio for Europe

1-month (light blue) and 3-month (dark blue); the 3-month ratio has decreased to 1.16 in February, from 1.20 previously

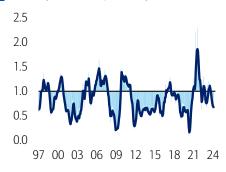


Source: BofA European Equity Quant Strategy, Factset. The Buybacks Revision Ratio measures the number of stocks for which the consensus number of share repurchases estimate has risen, versus the number for which it has fallen.

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Exhibit 4: EPS Revision Ratio for Europe

1-month (light blue) and 3-month (dark blue); the 3-month ratio has decreased to 0.68 in February, from 0.69 previously

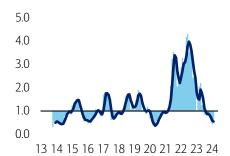


Source: BofA European Equity Quant Strategy, IBES. The EPS Revision Ratio measures the number of stocks for which the consensus EPS estimate has risen, versus the number for which it has fallen

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Exhibit 7: Inventories Revision Ratio for Europe

1-month (light blue) and 3-month (dark blue); the 3-month ratio has fallen to 0.54 in February, from 0.57 previously

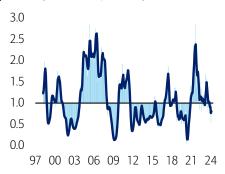


Source: BofA European Equity Quant Strategy, Factset. The Inventories Revision Ratio measures the number of stocks for which the consensus number of inventories estimate has risen, versus the number for which it has fallen.

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Exhibit 5: DPS Revision Ratio for Europe

1-month (light blue) and 3-month (dark blue); the 3-month ratio has improved to 0.80 in February, from 0.76 previously

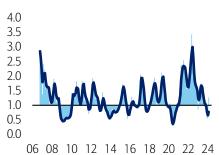


Source: BofA European Equity Quant Strategy, IBES. The DPS Revision Ratio measures the number of stocks for which the consensus DPS estimate has risen, versus the number for which it has fallen

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Exhibit 8: Capex Revision Ratio for Europe

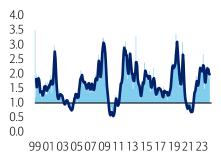
1-month (light blue) and 3-month (dark blue); the 3-month ratio has increased to 0.77 in February, from 0.65 previously



Source: BofA European Equity Quant Strategy, Factset. The Capex Revision Ratio measures the number of stocks for which the consensus number of capex estimate has risen, versus the number for which it has fallen

Exhibit 9: Net Debt Revision Ratio for Europe

1-month (light blue) and 3-month (dark blue); the 3-month ratio has gone down to 1.98 in February, from 2.01 previously

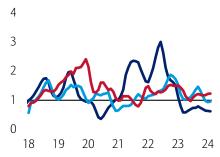


Source: BofA European Equity Quant Strategy, Factset. The Net Debt Revision Ratio measures the number of stocks for which the consensus number of net debt estimate has risen, versus the number for which it has fallen

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Exhibit 10: 1-month cash and long-term ratios decreased, while short-term debt ratio increased over the month

European 3-month revision ratios for cash (dark blue), short-term debt (light blue) and long-term debt (red line)

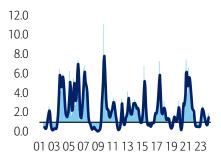


Source: BofA European Equity Quant Strategy, Factset. The Cash/Short-term debt/Long-term debt Revision Ratio measures the number of stocks for which the consensus number of cash/short-term debt/long-term debt estimates have risen, versus the number for which they have fallen

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Exhibit 11: Price Target Revision Ratio for Europe

1-month (light blue) and 3-month (dark blue); the 3-month ratio has risen to 1.49 in February, from 1.09 previously



Source: BofA European Equity Quant Strategy, Factset. The Price Target Revision Ratio measures the number of stocks for which the consensus number of price target estimate has risen, versus the number for which it has fallen

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Exhibit 12: Company commentary has improved, while sell-side earnings downgrades have slowed

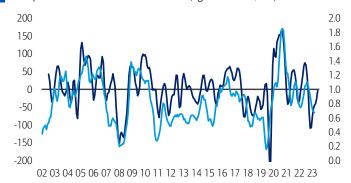
Stoxx 600 Company Sentiment Ratio (dark blue line) and European 3month EPS Revision Ratio (light blue line, rhs)



Source: BofA European Equity Quant Strategy, IBES, Factset. Stoxx 600 Company Sentiment Ratio is calculated as a ratio of mentions "better" and "stronger" to "worse" and "weaker" in the earnings transcripts for Europe Stoxx 600 companies that have reported in each quarter. BofA GLOBAL RESEARCH

Exhibit 13: Sell-side earnings downgrades are likely to trough

Eurozone Economic Surprise Index (dark blue line, 3m mva, 3m lag) and European 3-month EPS Revision Ratio (light blue line, rhs)



Source: BofA European Equity Quant Strategy, IBES, Refinitiv

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Exhibit 14: Only Japan remains in net upgrades territory, while the breadth of upgrades decreased only in Europe

The 3-month EPS Revision Ratio and its MoM change by region in **February**

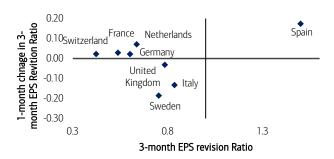


Source: BofA European Equity Quant Strategy, IBES

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Exhibit 15: Only Spain remains in net upgrades territory, while the breadth of upgrades decreased the most in Sweden.

The 3-month EPS Revision Ratio and its MoM change by country in February

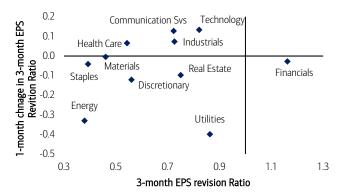


Source: BofA European Equity Quant Strategy, IBES



Exhibit 16: Only Financials remain in net upgrades territory, while the breadth of upgrades decreased the most in Utilities and Energy

The 3-month EPS Revision Ratio and its MoM change by sector in February

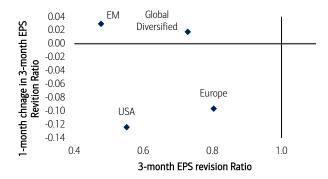


Source: BofA European Equity Quant Strategy, IBES

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Exhibit 18: EM-exposed stocks had the lowest ratio in-spite of breadth of upgrades increased the most in EM-exposed stocks, while it decreased the most in USA-exposed stocks.

The 3-month EPS Revision Ratio and 1-month change in the 3-month EPS Revision Ratio by revenue exposure basket in February

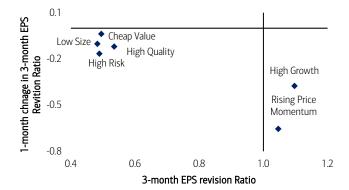


Source: BofA European Equity Quant Strategy, IBES

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Exhibit 17: Only High Growth and Rising Price Momentum stayed in net upgrades territory

The 3-month EPS Revision Ratio and its MoM change by style in February

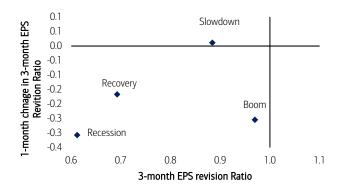


Source: BofA European Equity Quant Strategy, IBES

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Exhibit 19: Recession stocks had the lowest EPS Revision ratio, while the breadth of revisions increased only in Slowdown stocks

The 3-month EPS Revision Ratio and its MoM change by top phase in February $\,$



Source: BofA European Equity Quant Strategy, IBES



Exhibit 20: Industrials and Financials contribute the most to 2024/25 expected growth numbers, while Energy, Real Estate and **Utilities the least**

2024 and 2025 expected SPS/EPS/DPS growth contribution for MSCI Europe per country and sector

		Growth %)	EPS Gr (%		Dividend Growth (%)			
	2024	2025	2024	2025	2024	2025		
Europe	2.82	2.82	3.44	9.82	7.36	5.71		
Contribution per sect	or							
Energy	0.45	-0.46	-0.52	0.43	0.38	0.26		
Materials	0.16	0.25	0.49	0.65	0.52	0.38		
Industrials	0.60	0.90	0.83	1.57	0.60	1.10		
Discretionary	0.37	0.63	0.29	1.17	0.57	0.86		
Staples	0.14	0.40	0.37	0.85	0.62	0.76		
Healthcare	0.48	0.49	0.63	1.69	0.80	0.94		
Financials	0.59	0.31	1.64	2.02	3.32	0.69		
IT	0.06	0.26	-0.48	1.06	0.22	0.33		
Communication Svs	0.08	0.08	0.31	0.31	0.08	0.17		
Utilities	-0.14	-0.04	-0.10	0.04	0.13	0.17		
Real Estate	0.02	0.00	-0.03	0.04	0.13	0.05		
Contribution per coul	ntry							
France	0.73	0.61	0.70	1.75	0.97	1.44		
Germany	0.42	0.85	0.24	1.80	0.82	1.18		
Italy	0.07	0.08	0.04	0.14	0.39	0.16		
Netherlands	-0.08	0.24	0.16	1.09	0.06	0.55		
Spain	0.26	0.03	0.12	0.19	0.52	0.28		
Sweden	0.02	0.15	-0.11	0.32	0.28	0.16		
Switzerland	0.36	0.28	1.15	1.59	1.06	0.82		
UK	0.03	0.00	0.71	2.03	2.73	0.58		

Source: MSCI, Refinitiv

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Exhibit 21: Communication Svs, the UK, High Growth and USA-exposed stocks top the 12m fwd EPS growth estimates

12m fwd EPS growth (%)

Europe: 4.54%													
Sectors		Countri	es	Styles		Exposure bas	kets						
Communication				High									
Svs	10.57	UK	10.95	Growth Rising Price	14.43	USA	9.25						
Materials	8.44	Spain	6.37	Momentum High	6.69	EM Global	7.56						
Industrials	7.48	Germany	5.13	Quality	5.53	Diversified Developed	3.88						
Healthcare	6.80	France	4.54	High Risk	3.96	Europe	2.19						
Financials	6.49	Italy	3.08	Top Value	-1.66								
Staples	5.16	Sweden	2.43	Low Size	-3.06								
Discretionary	4.24	Netherlands	0.83										
Utilities	-1.68	Switzerland	-0.92										
Real Estate	-1.77												
Energy	-3.26												
IT	-3.85												

Source: BofA European Equity Quant Strategy, MSCI, Refinitiv, Factset

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Flows

Exhibit 22: Europe-focused equity funds have seen \$495bn of outflows since 2005 (active funds: \$-624bn, passive funds:

Long-term cumulative flows into Europe-focused equity funds (\$bn)

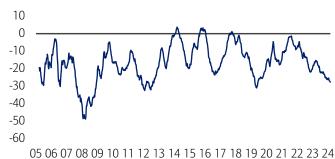


Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 23: A net -27.7% of Europe-focused funds saw inflows last week, 6th straight decline and the lowest reading since Jun '19

Net % of Europe-focused equity funds seeing inflows on weekly basis (12w mva)

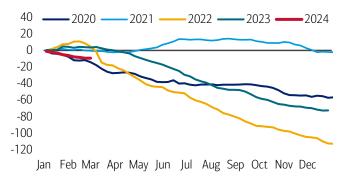


BofA European Equity Quant Strategy, EPFR Global. Note: Net % calculated as % of funds that saw inflows minus % of funds that saw outflows



Exhibit 24: Europe-focused equity funds have seen \$9.4bn of outflows YTD, with \$10.13bn of outflows from European-domiciled funds and \$0.68bn of inflows into US-domiciled funds

Cumulative annual flows into Europe-focused equity funds (\$bn)

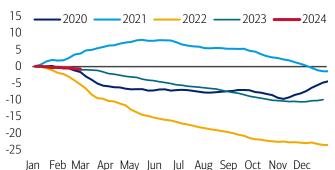


Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 26: SMID focused European equity funds have seen \$0.82bn of outflows YTD, \$1.06bn of outflows from active funds and \$0.25bn of inflows into passive funds

Cumulative annual flows into SMID-focused European equity funds (\$bn)

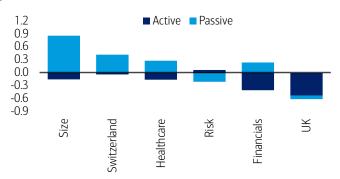


Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 28: Size stocks recorded the largest inflows (\$0.70bn), while the UK noted the largest outflows (\$0.62bn) last week

Top and bottom inflows/outflows last week into Europe-focused equity funds/stocks by country, sector, style split into active and passive (\$bn)

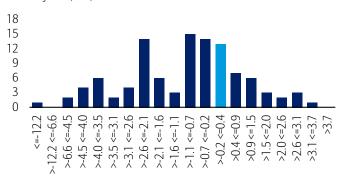


Source: BofA European Equity Quant Strategy, EPFR Global. Note: flows into styles are aggregated from stock level data

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Exhibit 25: Europe-focused equity funds saw \$0.03bn of outflows last week, 9th consecutive weekly outflow and the smallest since Apr '20

Distribution of weekly flows into Europe-focused equity funds over the last two years (\$bn)



Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 27: Equity funds have seen the largest outflows YTD (\$9.4bn), while Bond funds have seen the largest inflows (\$18.4bn)

YTD cumulative flows into Europe-focused funds by asset-class (\$bn)

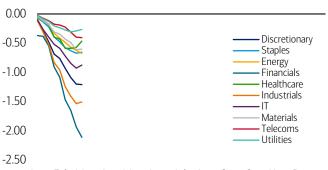


Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 29: Utilities noted the smallest outflows YTD (\$0.3bn), while Financials recorded the largest outflows (\$2.1bn)

YTD cumulative flows into Europe-focused equity funds by sector (\$bn)



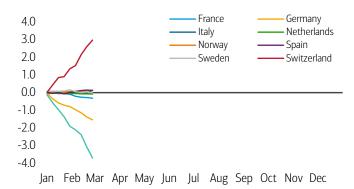
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Source: BofA European Equity Quant Strategy, EPFR Global



Exhibit 30: Switzerland noted the largest inflows YTD (\$3bn), while the UK recorded the largest outflows (\$3.7bn)

YTD cumulative flows into Europe-focused equity funds by country (\$bn)



Source: BofA European Equity Quant Strategy, EPFR Global.

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Exhibit 32: UK-focused equity funds have seen \$145bn of outflows since 2005 (active funds: \$-163bn, passive funds: \$18bn)

Long-term cumulative flows into UK-focused equity funds (\$bn)

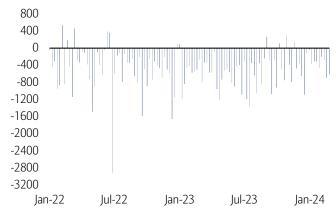


Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 34: UK-focused equity funds saw \$0.62bn of outflows last week, the 14th consecutive weekly outflow

UK-focused equity funds weekly flows (\$mn)

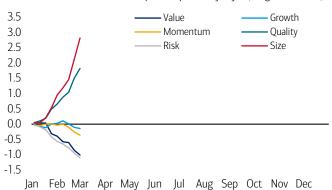


Source: BofA European Equity Quant Strategy, EPFR Global.

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Exhibit 31: Size has seen the largest inflows YTD (\$2.8bn), while Risk has recorded the largest outflows (\$1.1bn)

YTD cumulative flows into European equities by style (long-short, \$bn)

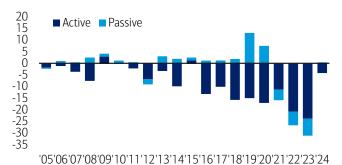


Source: BofA European Equity Quant Strategy, EPFR Global. Note: flows into styles are aggregated from stock level data

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Exhibit 33: YTD UK-focused equity active funds have seen \$4.1bn of outflows, while passive funds recorded \$0.4bn of inflows

Yearly flows into UK-focused equity funds (\$bn) split between active and passive funds

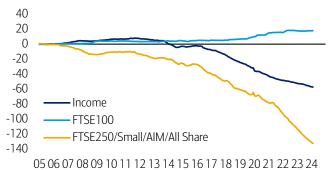


Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 35: Since 2005, UK equity-focused income funds saw \$57bn of outflows, \$18bn of inflows into FTSE100 benchmarked funds and \$133bn of outflows from FTSE250/AIM/AII Share/Small caps

Long-term cumulative flows into UK-focused equity funds (\$bn) split by focus $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1}{2}\left(\frac{1}{2}\right)$

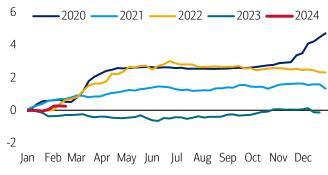


Source: BofA European Equity Quant Strategy, EPFR Global.



Exhibit 36: UK-focused equity funds benchmarked to FTSE 100 have seen \$0.25bn of inflows YTD

Cumulative annual flows into UK-focused equity funds benchmarked to FTSE 100 index (\$bn)

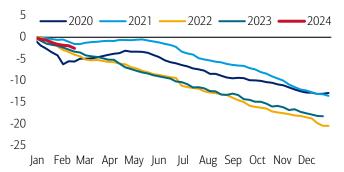


Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 37: UK-focused equity funds benchmarked to FTSE 250/Small/AIM/All Share indices have seen \$2.56bn of outflows YTD

Cumulative annual flows into UK-focused equity funds benchmarked to FTSE 250/AIM/Small/ALL Share indices (\$bn)



Source: BofA European Equity Quant Strategy, EPFR Global

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Exhibit 38: Novozymes has seen the largest inflows last week as % of mcap, while International Distributions Services largest outflows across fundsTop 5 and bottom 5 European companies that are part of Europe Stoxx 600 index and saw the largest inflow/outflow from different types of funds last week as % of market capitalisation

Stocks that saw the highest inflows last week

Stocks that saw the highest outflows last week

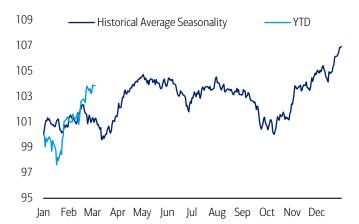
BBG			F	low as % o	of				F	low as % o	f
Ticker	Name	Sector	Country	mcap	Group	BBG Ticker	r Name	Sector	Country	mcap	Group
LIGHT NA	Signify	Construction & Materia	ls Netherlands	0.02	Active	IDS LN	International Distributions Services	Industrial Gds & Svs	UK	-0.17	Active
FBK IM	Finecobank	Banks	Italy	0.01	Active	ITV LN	ltv	Media	UK	-0.14	Active
YAR NO	Yara	Chemicals	Norway	0.01	Active	DRX LN	Drax	Utilities	UK	-0.13	Active
FORTUM FH	l Fortum	Utilities	Finland	0.01	Active	TPK LN	Travis Perkins	Industrial Gds & Svs	UK	-0.09	Active
TEL NO	Telenor	Telecomms	Norway	0.01	Active	QQ/ LN	Qinetiq	Industrial Gds & Svs	UK	-0.08	Active
NZYMB DC	Novozymes	Health Care	Denmark	0.10	Passive	LEG GR	Leg Immobilien	Real Estate	Germany	-0.03	Passive
COLOB DC	Coloplast	Health Care	Denmark	0.06	Passive	COV FP	Covivio	Real Estate	France	-0.03	Passive
DEMANT DO	Demant	Health Care	Denmark	0.06	Passive	BC8 GR	Bechtle	Technology	Germany	-0.03	Passive
PNDORA DC	Pandora	Consumer Pds & Svs	Denmark	0.06	Passive	LIFP	Klepierre	Real Estate	France	-0.03	Passive
TRYG DC	Trvg	Insurance	Denmark	0.06	Passive	GFC FP	Gecina	Real Estate	France	-0.02	Passive

Source: BofA European Equity Quant Strategy, EPFR Global. Disclaimer: The screen above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark.



Performances

Exhibit 39: The SXXP index typically registers a 1.4% gain in Q1, while the current quarter-to-date return stands at a 3.61% gain Historical average performance of Europe Stoxx 600 index (EUR, price return)



Source: BofA European Equity Quant Strategy, Refinitiv. Note: historical average performance calculated over 1992-2023

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Exhibit 40: Q1 '24 so far notes stronger gains in Netherlands, IT and Growth compared to historical trends

Current QTD and YTD performance in comparison with historical average relative performance of MSCI sectors/countries indices (vs MSCI Europe, local currency, price return) and styles (long/short, EUR, price return)

	QTD (%)	Diff vs historical	YTD (%)	Diff vs historical
Germany	0.9	1.2	0.9	1.2
France	0.8	-0.4	0.8	-0.4
Italy	4.3	3.0	4.3	3.0
Netherlands	11.7	11.3	11.7	11.3
Spain	-4.1	-5.0	-4.1	-5.0
Sweden	-0.7	-5.0	-0.7	-5.0
Switzerland	-1.7	-0.4	-1.7	-0.4
UK	-4.9	-3.9	-4.9	-3.9
Materials	-6.4	-7.6	-6.4	-7.6
Communication Svs	-1.9	-1.8	-1.9	-1.8
Discretionary	5.2	3.7	5.2	3.7
Staples	-6.2	-5.2	-6.2	-5.2
Energy	-7.7	-7.9	-7.7	-7.9
Financials	-0.2	1.4	-0.2	1.4
Healthcare	2.4	4.0	2.4	4.0
Industrials	2.6	0.6	2.6	0.6
IT	14.8	12.8	14.8	12.8
Utilities	-13.3	-12.2	-13.3	-12.2
Real Estate	-11.4	-9.4	-11.4	-9.4
Value	-3.0	-2.0	-3.0	-2.0
Growth	13.8	9.9	13.8	9.9
Momentum	6.5	3.7	6.5	3.7
Quality	2.1	3.5	2.1	3.5
Risk	-3.4	-5.4	-3.4	-5.4
Size	-6.8	-10.2	-6.8	-10.2

Source: BofA European Equity Quant Strategy, Refinitiv, MSCI. Note: historical average performance calculated over 1993-2023

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Exhibit 41: March sees largest gains in Expensive Value so far, while Low Growth experiences the largest losses

% MTD returns for styles in the largest 250 European stocks (relative price return equally weighted in EUR)



Source: BofA European Equity Quant Strategy, Factset

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Exhibit 42: Rising 1m Price Momentum have seen the strongest gains MTD, while Low Trailing EPS Growth records the largest losses

% MTD best and worst factor in styles in the largest 250 European stocks (relative price return equally weighted in EUR)

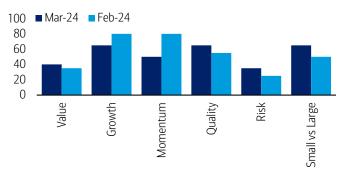


Source: BofA European Equity Quant Strategy, Factset



Exhibit 43: Growth, Quality and Small vs Large caps have outperformed in 13 out of 20 sectors so far in March

% of SXXP index super-sectors in which styles (L/S) are outperforming in Mar

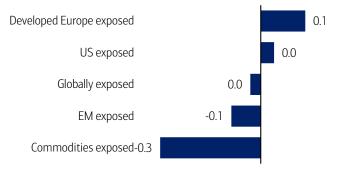


Source: BofA European Equity Quant Strategy, FactSet

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Exhibit 45: Developed Europe exposed stocks have gained the most MTD, while Commodities exposed stocks have noted the largest losses

% MTD returns for revenue exposure baskets (relative price return equally weighted in EUR)

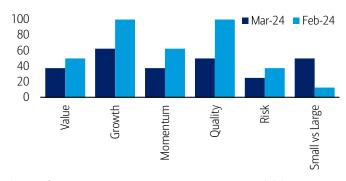


Source: BofA European Equity Quant Strategy, Factset

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Exhibit 44: Growth has outperformed in 5 out of 8 countries so far in March

% of SXXP index countries* in which styles (L/S) are outperforming in Mar

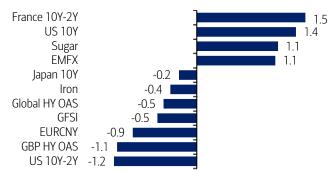


Source: BofA European Equity Quant Strategy, FactSet. Note:* countries included: France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland, UK

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Exhibit 46: Stocks sensitive to rising France 10Y-2Y have gained the most MTD, while these sensitive to rising US 10Y-2Y lost the most

% MTD returns for stocks with specific cross-asset sensitivities (relative price return equally weighted in EUR)



Source: BofA European Equity Quant Strategy, Factset

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Exhibit 47: Q1 has been historically the strongest for Sweden, IT and Low vs High Size

Historical average returns for countries, sectors, styles (L/S) in each quarter

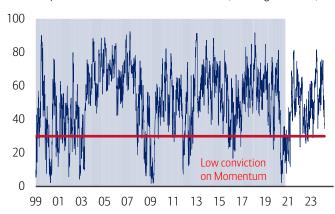
Quarter	Germany	France	Italy	Netherlands	Spain	Sweden	Switzerland	UK			
Q1	-0.1%	1.8%	1.5%	1.5%	0.6%	3.2%	-0.3%	-2.0%			
Q2	0.2%	-0.1%	-2.3%	1.2%	0.2%	0.9%	1.1%	-0.3%			
Q3	-2.3%	-1.2%	-0.1%	-0.6%	0.1%	1.0%	0.5%	0.9%			
Q4	2.5%	0.2%	-1.0%	0.8%	0.7%	0.7%	-0.3%	-1.0%			
Quarter	Materials	Communication Svs	Discretionary	Staples	Energy	Financials	Healthcare	Industrials	IT	Utilities	Real Estate
Q1	0.9%	-1.0%	1.5%	0.8%	0.8%	-2.4%	-0.7%	1.7%	2.3%	-0.7%	-7.4%
Q2	0.6%	-4.0%	-0.4%	1.8%	2.2%	-1.4%	2.8%	0.2%	-0.4%	0.6%	-6.5%
Q3	-2.2%	-0.4%	-1.8%	2.2%	-0.3%	0.2%	2.9%	-1.0%	-1.2%	0.8%	-1.8%
Q4	1.6%	2.1%	1.2%	-2.1%	-2.4%	0.2%	-2.4%	0.8%	2.0%	-0.7%	3.2%
						Size (Low vs					
Quarter	Value	Growth	Momentum	Quality	Risk	High)					
Q1	-1.1%	3.4%	3.1%	-0.2%	0.0%	4.5%					
Q2	-1.3%	0.7%	5.9%	2.1%	-2.5%	0.0%					
Q3	0.7%	0.5%	5.1%	2.4%	-3.6%	0.8%					
Q4	0.2%	0.4%	1.6%	0.9%	3.3%	0.1%					

Source: BofA European Equity Quant Strategy, Refinitiv, MSCI. Note: historical average performance calculated over 1993-2023

European Momentum Conviction Indicator

Exhibit 48: BofA European Momentum Conviction Indicator (MCI) stands at 34, above the threshold of 30 which signals a potential crash in the Momentum style

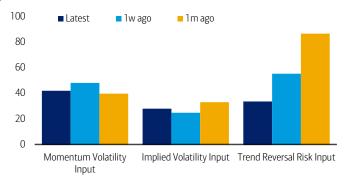
BofA European Momentum Conviction Indicator (100=High, 0 = Low)



Source: BofA European Equity Quant Strategy, FactSet. Disclaimer: Performance through 06 October 2020 (shaded on the chart above) is backtested and does not represent the actual performance of any account or fund. Backtested performance depicts the theoretical (not actual) performance of a particular strategy over the time period indicated. No representation is being made that any actual portfolio is likely to have achieved returns similar to those shown herein. The indicator identified as the BofA European Conviction Momentum Indicator above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA European Equity Quant Strategy. This indicator was not created to act as a benchmark

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Exhibit 49: Declines in Momentum Volatility and Trend Reversal Risk inputs pushed the indicator down by 8 points over the week BofA European Momentum Conviction Indicator's inputs latest readings (100=High, 0=Low)



Source: BofA European Equity Quant Strategy, FactSet. For definitions of the inputs please see European Momentum Conviction Indicator

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Valuations

Exhibit 50: The most attractive multiple on z-score is 12m fwd Buyback yield at 1.6%, while the least attractive is 12m fwd DY at 3.8% MSCI Europe valuation multiples

	Latest	Historical Z-	2-Year Z-	5-Year Z-	10-Year Z-	Historical	2-Year	5-Year	10-Year
Market	Value	Score	Score	Score	Score	Average	Average	Average	Average
12m trailing P/B	2.0	0.3	1.1	0.7	1.1	1.8	1.9	1.9	1.8
Shiller P/E	25.0	0.2	1.4	1.3	1.9	23.6	23.7	21.8	20.2
12m trailing P/E	14.5	-0.2	0.0	-0.7	-1.0	15.3	14.5	16.8	17.7
12m fwd P/E	12.5	0.0	2.2	-0.1	-0.1	12.4	11.6	12.6	12.5
12m trailing EV/EBITDA	8.0	-0.1	-0.4	-0.9	-0.8	8.0	8.2	8.9	8.7
12m fwd EV/EBITDA	8.2	0.7	1.2	-0.2	0.0	7.5	7.8	8.3	8.2
12m trailing Net Debt/EBITDA	1.3	-0.6	1.4	-0.7	-1.0	1.4	1.3	1.5	1.5
12m fwd Net Debt/EBTIDA	1.2	-0.2	2.2	-0.4	-0.6	1.3	1.1	1.3	1.3
12m trailing Interest Coverage	8.4	-0.5	1.9	0.3	-0.3	7.5	10.6	9.0	7.9
12m fwd Interest Coverage	9.1	-0.4	1.5	0.3	-0.2	8.4	10.8	9.7	8.8
12m trailing DY	3.1	0.6	0.3	-0.1	0.3	3.7	3.2	3.1	3.2
12m fwd DY	3.8	0.9	0.6	0.4	0.8	4.7	3.9	3.9	4.2
12m trailing ROE	14.0	-0.9	-2.1	-1.5	-2.1	12.0	13.1	11.5	10.6
12m fwd ROE	13.9	-0.4	0.5	-0.9	-1.4	13.2	14.0	12.6	12.2
12m trailing Buyback yield	1.7	-1.1	1.0	-0.8	-	1.1	1.9	1.3	=
12m fwd Buyback yield	1.6	-1.6	-1.2	0.8	-	1.1	1.7	1.2	-
12m trailing Cash Yield	5.1	-0.8	0.8	-0.5	-	4.5	5.3	4.7	-
12m fwd Cash Yield	5.1	-0.8	0.7	-0.6	-	4.7	5.3	4.8	-
12m trailing FCF Yield	5.1	0.1	1.8	0.2	-0.3	5.1	6.0	5.2	4.9
12m fwd FCF Yield	5.4	0.5	1.8	0.5	0.1	5.9	6.4	5.8	5.5

Source: BofA European Equity Quant Strategy, Refinity Datastream, IBES. Note: Z-scores have been inversed for 12m Trailing and Forward Return on Equity, Dividend Yield, Interest Coverage, FCF Yield, Buyback Yield, and Cash Yield. Consequently, for Dividend Yield a Z-score of -0.8 implies that the current level is 0.8 standard deviations higher than the historical average, while for the P/E ratio a Z-score of -0.8 implies that the current level is 0.8 standard deviations below the historical average.



Appendix

Revision ratios by country, sector, style and exposure baskets

Exhibit 51: Revision ratios by country, sector, style and exposure basketsFebruary readings of the Sales, EPS, DPS, Price target, Buybacks, Net debt, Inventories and Capex Revision Ratios

							Price Target Revision Buybacks Revision I			Net Debt Revision			Inventories Revision																			
	Sal	Sales Revision Ratio EPS Revision Ratio			Ra	atio			Ra	atio			R	atio			Ra	atio			R	atio		Сар	ex Rev	ision l	Ratio					
	1m	3m	MoM:	MoM:	1m	3m	MoM:	MoM:	1m	3m	MoM:	MoM:	1m	3m	MoM:	MoM:	1m	3m	MoM:	MoM:	1m	3m	MoM:	MoM:	1m	3m	MoM:	MoM:	1m	3m	MoM:	MoM:
		ratio	1m	3m		ratio	1m	3m		ratio	1m	3m		ratio	1m	3m		ratio	1m	3m		ratio	1m	3m		ratio	1m	3m	ratio		1m	3m
				ratio				ratio			ratio					ratio				ratio				ratio			ratio	ratio			ratio	
Europe	0.64	0.62	0.06	-0.02	0.67	0.68	0.02	-0.02	0.93	0.80	0.39	0.04	1.80	1.49	-0.14	0.40	1.29	1.16	0.29	-0.04	2.06	1.98	0.22	-0.03	0.60	0.54	0.18	-0.03	1.27	0.77	0.62	0.12
Countries																																
United Kingdom		0.71	-0.17	-0.14		0.78	0.02	-0.03		0.95	-0.08	0.01	1.86	1.89	-0.81	0.34	1.21		0.43	-0.02		2.52	-0.67	-0.42		0.76	0.12	-0.07	1.11		0.41	-0.08
Germany		0.45	0.12	0.04	0.78		0.35	0.02	0.74	0.63	0.24	0.01	2.12	1.45	0.88	0.37		1.33	1.83	0.12		1.17	0.08	-0.21			0.15	-0.01	1.00	0.55	0.53	0.13
France		0.62	0.25	0.09	0.51		-0.20	0.03	0.65	0.55	0.39	-0.04	2.69	1.69	0.52	0.78	0.83		-0.17	-0.29		2.69	1.07	-0.19	0.58	0.41	0.22	0.06	1.23	0.72	0.76	0.05
Switzerland	0.51	0.49	-0.01	0.11	0.40		-0.05	0.02	0.94	0.87	0.06	0.14	0.91	0.88	-0.20	0.15	0.50		-1.50	-0.21		2.93	0.51	0.43	0.58	0.38	0.34	0.08	1.43	0.56	0.88	0.27
Spain	0.85		0.26	-0.16	1.19		0.06	0.17	1.17		0.72	0.02	2.20	1.60	0.37	0.35	0.67		0.67	-0.77	0.75		-0.03	-0.04		1.17	0.58	-0.08	2.20	2.07	-0.30	0.51
Italy		0.72	-0.02	-0.28	0.78	0.84	-0.08	-0.13	1.71	1.09	1.11	-0.05	2.43	1.54	0.14	0.56	0.67	1.33	0.67	-1.67		3.42	-2.07	-0.88	2.33		2.00	0.16	0.78	0.76	0.15	-0.20
Netherlands		0.42	0.00	0.04	0.67		-0.05	0.07	0.67	0.66	0.21	-0.02	3.17	1.85	0.74	0.67		1.71		0.71		2.11		0.49	2.00	0.60	1.75	0.24	1.43	0.72	0.93	0.29
Sweden	0.46	0.53	0.17	-0.19	0.66	0.75	0.08	-0.19	1.27	1.08	0.68	0.08	1.73	1.77	-0.60	0.42	3.00	1.88	0.50	0.69	2.89	2.09	0.89	0.41	0.29	0.43	0.03	-0.33	1.46	0.80	0.46	0.10
Sectors																																
Discretionary	0.36	0.39	-0.03	-0.09	0.42	0.56	-0.21	-0.12	0.86	0.63	0.38	-0.04	1.67	1.13	0.75	0.37	2.00	1.15	1.00	0.09	2.43	2.25	0.43	-0.46	0.57	0.49	0.17	0.01	1.56	0.73	1.08	0.17
Staples	0.55	0.62	-0.12	-0.04	0.48	0.39	0.20	-0.04	0.65	0.70	-0.02	-0.06	1.11	0.93	0.11	0.19	0.75	0.84	-0.25	-0.01	2.80	3.36	0.02	-0.18	0.42	0.33	0.21	0.02	0.85	0.55	0.43	0.02
Energy	0.41	0.38	0.26	-0.23	0.21	0.38	-0.25	-0.33	2.33	1.08	1.76	-0.17	0.38	0.57	0.00	-0.63	2.00	0.73	2.00	-0.07	4.50	5.60	0.00	-1.40	0.11	0.41	-0.39	-0.79	1.75	1.00	0.75	0.24
Financials	0.96	0.99	-0.08	-0.05	1.13	1.16	-0.05	-0.03	1.60	1.42	0.64	0.13	2.26	1.90	-0.22	0.39	1.25	1.47	-0.08	-0.28	1.07	1.60	-1.73	-0.40	2.00	0.60	1.00	0.27	0.86	1.00	0.02	-0.25
Health Care	0.71	0.60	0.20	0.06	0.62	0.54	0.12	0.07	0.78	0.48	0.52	0.12	1.60	1.16	0.16	0.42	1.33	0.78	0.96	-0.03	2.55	2.90	0.09	-0.28	0.75	0.75	0.18	-0.05	1.11	0.75	0.42	0.14
Industrials	0.78	0.67	0.16	0.03	0.81	0.73	0.14	0.07	0.90	0.71	0.51	0.05	5.08	2.44	0.43	1.16	0.70	0.85	-0.30	-0.19	2.43	1.77	0.87	0.20	0.71	0.57	0.30	0.00	1.69	0.86	0.93	0.15
Materials	0.29	0.32	-0.12	-0.01	0.48	0.46	-0.07	0.00	0.40	0.46	0.19	0.04	0.71	0.88	-0.55	0.00	0.75	1.60	-0.92	-0.51	2.00	1.86	-0.08	0.05	0.52	0.34	0.30	0.07	1.36	0.55	1.02	0.20
Technology	0.54	0.57	0.04	0.07	0.84	0.82	0.16	0.13	1.17	1.11	0.31	0.24	3.25	2.64	-1.42	0.81	6.00	3.40	0.00	1.40	3.25	2.85	1.05	0.35	0.80	1.14	0.00	-0.40	0.78	0.53	0.23	0.13
Communication Svs	1.42	0.81	0.94	0.20	1.00	0.72	0.45	0.13	1.00	0.74	0.50	0.11	1.63	2.10	-1.58	0.48	1.67	1.00	0.17	0.33	1.86	1.78	0.41	-0.01	0.80	1.00	-0.45	-0.45	0.73	0.68	-0.37	0.04
Utilities	0.52	0.90	-0.36	-0.36	0.41	0.86	-0.37	-0.40	0.62	1.19	-0.88	-0.81	0.67	0.87	-1.00	0.16	-	-	-	-	1.09	1.03	0.09	0.03	0.75	0.94	-0.08	-0.06	1.88	1.79	0.78	-0.12
Real Estate	0.75	0.82	-0.17	-0.11	0.93	0.75	-0.07	-0.10	1.67	1.23	1.10	0.41	-	10.6	-	7.54	-	-	-	-	0.67	0.50	0.24	0.07	0.33	0.75	0.33	-0.58	1.20	0.92	-0.30	0.02
Styles																																
Top Value	0.70	0.58	0.33	-0.11	0.79	0.49	0.54	-0.04	1.53	1.08	1.03	0.05	0.96	1.10	-0.28	0.08	1.17	1.06	0.71	-0.23	1.64	2.08	0.24	-1.23	0.27	0.54	-0.13	-0.42	1.00	0.57	0.25	0.15
High Growth	0.83	0.68	0.49	-0.10	1.14	1.10	0.40	-0.37	1.38	1.31	0.38	-0.32	4.75	3.41	1.57	0.97	1.67	2.50	0.07	-1.59	1.25	1.42	-0.18	-0.09	1.70	0.76	1.10	0.25	2.20	1.34	1.20	0.32
Rising Price Momentum	1.15	0.94	0.50	-0.21	0.96	1.05	0.33	-0.65	1.38	1.25	0.78	-0.43	8.60	9.29	2.74	0.69	1.83	2.12	0.33	-0.57	1.77	1.56	0.57	0.31	1.67	1.32	0.75	-0.13	2.60	1.48	1.78	-0.07
High Quality	1.10	0.66	0.73	0.04	0.50	0.53	0.13	-0.12	0.56	0.66	-0.04	-0.08	3.00	2.11	1.06	0.53	1.50	1.07	0.70	0.11	5.43	3.47	1.05	0.70	0.95	0.86	0.23	-0.03	1.47	0.91	0.75	0.11
High Risk	0.48	0.43	0.21	-0.07	0.32	0.49	-0.21	-0.17	0.63	0.70	-0.01	0.04	1.94	1.48	0.52	0.31	0.89	1.04	0.03	-0.17	2.44	1.66	1.06	0.24	0.50	0.55	-0.09	-0.13	2.13	1.08	0.91	0.21
Low Size	0.68	0.61	-0.07	0.09	0.48	0.48	0.18	-0.10	1.16	0.95	0.32	0.27	1.76	1.60	-0.85	0.54	1.00	1.00	0.00	0.09	1.50	1.74	-0.06	-0.14	0.27	0.51	-0.37	-0.13	1.11	0.84	0.16	0.09
Exposure Baskets																																
Developed Europe	1.07	0.96	0.38	-0.04	0.82	0.80	0.19	-0.10	1.11	1.09	0.12	0.06	1.99	1.62	-0.24	0.48	1.67	1.09	0.84	0.05	1.50	1.42	0.30	-0.03	0.79	0.82	0.03	-0.04	1.70	1.23	0.59	0.16
USA	0.56	0.50	0.20	-0.01	0.60	0.55	0.22	-0.12	1.01	0.67	0.66	0.03	2.67	2.04	-0.19	0.56	1.63	1.50	0.26	-0.09	1.74	1.86	-0.17	-0.17	0.67	0.54	0.21	0.02	0.89	0.68	0.37	0.04
EM	0.62	0.39	0.40	0.07	0.49	0.48	0.15	0.03	0.58	0.61	0.14	-0.02	1.22	0.96	0.08	0.26	1.27	1.19	-0.73	0.16	3.38	2.52	1.12	0.36	0.49	0.40	0.17	0.01	1.30	0.70	0.63	0.22
Global Diversified				-0.02	0.55		-0.20			0.66														-0.09				-0.12	0.91	0.59		0.10
					-				-								-								-							

Source: BofA European Equity Quant Strategy, IBES, Factset, MSCI

Latest C-suite changes, insider trading and buyback program screens

Exhibit 52: Partners, DSV and Orsted are the largest companies in Europe that saw C-suite changes last month

Latest European companies which saw CEO/President/CFO change effective in February 2024

BBG					New CEO Effective		New President Effective		New CFO Effective
Ticker	Name	Sector	Country	New CEO	Date	New President	Date	New CFO	Date
BYIT LN	Bytes Technology	Technology	UK	Samantha Jayne Mudd	21/02/2024				
STORB SS	Storskogen	Industrials	Sweden	Christer Hansson	19/02/2024				
				Daniel Ernest Henri Julien;					
TEP FP	Teleperformance	Industrials	France	Bhupender Singh	15/02/2024				
KGH PW	KGHM Polska Miedz	Materials	Poland	Zbigniew Bryja	14/02/2024	Zbigniew Bryja	14/02/2024	Zbigniew Bryja	14/02/2024
KEMIRA FH	Kemira	Materials	Finland	Antti Kalevi Salminen	12/02/2024	Antti Kalevi Salminen	12/02/2024		
PKN PW	ORLEN	Energy	Poland	Witold Literacki	07/02/2024				
BT/A LN	BT	Comm. Svs	UK	Allison Kirkby	01/02/2024				
DSV DC	DSV	Industrials	Denmark	Jens Hesselberg Lund	01/02/2024				
BAER SW	Julius Baer	Financials	Switzerland	Nic Dreckmann	01/02/2024				
KBCA BB	KBC Ancora	Financials	Belgium	Frederik Vandepitte	01/02/2024				
KESKOB FH	Kesko	Staples	Finland	Jorma Antero Rauhala	01/02/2024	Jorma Antero Rauhala	01/02/2024		
SESG FP	SES	Comm. Svs	France	Adel Bedry Al-Saleh	01/02/2024				
TELIA SS	Telia	Comm. Svs	Sweden	Patrik Eduard Hofbauer	01/02/2024	Patrik Eduard Hofbauer	01/02/2024		
888 LN	888	Discretionary	UK					Sean Ernest Wilkins	01/02/2024
BPOST BB	bpost	Industrials	Belgium					Philippe Dartienne	01/02/2024
GNC LN	Greencore	Staples	UK					Catherine Gubbins	06/02/2024
INTRUM SS	Intrum	Industrials	Sweden					Emil Folkesson	16/02/2024
PGHN SW	Partners	Financials	Switzerland					Joris Gröflin	01/02/2024
B4B GR	METRO	Staples	Germany					Eric Riegger	01/02/2024
ORSTED DC	Orsted	Utilities	Denmark					Trond Ødegård Westlie	27/02/2024
AKH NO	Aker Horizons	Industrials	Norway					Kristoffer Dahlberg	01/02/2024
POM FP	Plastic Omnium	Discretionary	France					Olivier Dabi	01/02/2024
BOO LN	boohoo	Discretionary	UK					Stephen Morana	19/02/2024
CTY1S FH	Citycon	Real Estate	Finland					Sakari Järvelä	01/02/2024
SQZ LN	Serica Energy	Energy	UK					Martin Francis David Copeland	01/02/2024
MEKO SS	MEKO	Discretionary	Sweden					Christer Johansson	19/02/2024
ENQ LN	Enquest	Energy	UK					Jonathan Michael Copus	01/02/2024
BYIT LN	Bytes Technology	Technology	UK	Samantha Jayne Mudd	21/02/2024				

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Source: BofA European Equity Quant Strategy, Factset. Disclaimer: The screen above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark.



Exhibit 53: LVMH, Nestle and HSBC are the largest companies that saw net insider buying in February 2024

Top 25 European stocks with the largest net insider buying in February 2024 (shares bought – sold as percentage of total outstanding shares)

BBG Ticker	Name	Industry	Country	No of shares purchased	No of shares sold	Net % of shares outstanding bought	Mkt value of net shares outstanding bought (EUR mn)
DIM FP	Sartorius Stedim Biotech	Health Care	France	3,433,478	()	3.72	800.00
MC FP	LVMH	Consumer Discretionary	France	101,538	0	0.02	80.11
HMB SS	H&M Hennes & Mauritz	Consumer Discretionary	Sweden	6,234,475	0	0.43	79.91
BMW GR	BMW	Consumer Discretionary	Germany	481,923	0	0.43	48.55
	=	3	France	,	0	0.08	46.67
SW FP	Sodexo Sandvik	Consumer Discretionary Industrials	Sweden	600,000	0	0.41	
SAND SS	ACS Actividades			2,201,375	0	0.18	42.57 38.66
ACS SM		Industrials	Spain	983,600	-		
DANSKE DC	Danske Bank	Financials	Denmark	1,687,392	-217,532	0.17	38.34
HSBA LN	HSBC	Financials	United Kingdom	5,632,930	-559,974	0.03	35.41
VOLVB SS	Volvo	Industrials	Sweden	1,212,000	-10,500	0.08	27.14
SCAB SS	Svenska Cellulosa	Materials	Sweden	1,810,000	0	0.28	22.87
PNDORA DC	Pandora	Consumer Discretionary	Denmark	142,875	0	0.16	20.88
RCO FP	Remy Cointreau	Consumer Staples	France	152,585	0	0.30	18.11
GMAB DC	Genmab	Health Care	Denmark	61,000	0	0.09	16.35
INDUA SS	Industrivarden	Financials	Sweden	500,000	0	0.28	15.25
COLR BB	Colruyt	Consumer Staples	Belgium	272,700	0	0.21	10.59
VRLA FP	Verallia	Materials	France	286,180	0	0.23	9.38
DG FP	VINCI	Industrials	France	71,257	-3,500	0.01	7.70
MAERSKB DC	A.P. Moller – Maersk B	Industrials	Denmark	17,383	-13,912	0.05	5.84
NESN SW	Nestle	Consumer Staples	Switzerland	48,757	0	0.00	5.00
NEX FP	Nexans	Industrials	France	51,979	0	0.12	4.82
ROCKB DC	ROCKWOOL	Industrials	Denmark	13,500	0	0.12	3.98
NETC DC	Netcompany	Information Technology	Denmark	101,000	0	0.20	3.95
ISS DC	ISS A/S	Industrials	Denmark	230,000	0	0.12	3.89
MING NO	SpareBank 1 SMN	Financials	Norway	287,082	0	0.20	3.67

Source: BofA European Equity Quant Strategy, Factset. Disclaimer: The screen above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark.

BofA GLOBAL RESEARCH

Exhibit 54: Hermes, L'Oreal and Novartis are the largest companies that saw net insider selling in February 2024

Top 25 European stocks with the largest net insider selling in February 2024 (shares sold – bought as percentage of total outstanding shares)

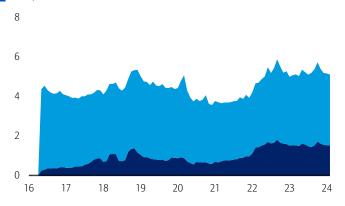
DDC T' I				No of shares	N 61		Mkt value of net shares outstanding
BBG Ticker	Name	Industry	Country	purchased	No of shares sold	outstanding sold	
TEL2B SS	Tele2	Communication Services	Sweden	0	-31,329,970	-4.67	-260.90
GLO FP	GL Events	Industrials	France	0	-2,398,623	-8.00	-44.13
REL LN	RELX	Industrials	United Kingdom	0	-1,115,144	-0.06	-43.89
EQT SS	EQT	Financials	Sweden	418,630	-1,400,000	-0.08	-26.25
BOOZT SS	Boozt	Consumer Discretionary	Sweden	0	-1,908,000	-2.87	-21.55
RIO LN	Rio Tinto	Materials	United Kingdom	0	-351,874	-0.03	-21.43
GSK LN	GSK	Health Care	United Kingdom	2,962	-922,852	-0.02	-20.04
OR FP	L'Oreal	Consumer Staples	France	272	-20,000	0.00	-8.81
MYCR SS	Mycronic	Information Technology	Sweden	0	-157,231	-0.16	-4.57
SL IM	Sanlorenzo	Consumer Discretionary	Italy	0	-89,453	-0.26	-3.88
LISN SW	Lindt & Spruengli	Consumer Staples	Switzerland	0	-320	-0.03	-3.85
UBSG SW	UBS	Financials	Switzerland	0	-150,000	0.00	-3.72
RMS FP	Hermes	Consumer Discretionary	France	0	-1,636	0.00	-3.53
CFR SW	Cie Financiere Richemont	Consumer Discretionary	Switzerland	0	-25,239	0.00	-3.47
IMB LN	Imperial Brands	Consumer Staples	United Kingdom	0	-157,283	-0.02	-3.32
LOGN SW	Logitech	Information Technology	Switzerland	650	-38,760	-0.02	-3.11
CCH LN	Coca-Cola HBC	Consumer Staples	United Kingdom	1,926	-39,335	-0.01	-2.59
SKG ID	Smurfit Kappa	Materials	Ireland	0	-50,000	-0.02	-2.18
SAABB SS	Saab	Industrials	Sweden	914	-28,770	-0.02	-1.93
RAND NA	Randstad	Industrials	Netherlands	0	-36,747	-0.02	-1.90
NOVN SW	Novartis	Health Care	Switzerland	0	-17,627	0.00	-1.71
DSY FP	Dassault Systemes	Information Technology	France	20,000	-60,000	0.00	-1.66
ISP IM	Intesa Sanpaolo	Financials	Italy	0	-522,081	0.00	-1.51
ABBN SW	ABB	Industrials	Switzerland	0	-27,000	0.00	-1.08
LR FP	Legrand	Industrials	France	0	-10,900	0.00	-0.98

Source: BofA European Equity Quant Strategy, Factset. Disclaimer: The screen above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark



Exhibit 55: The expected 12m fwd cash yield ticked down last month to 5.1%, with expected 1.5% yield on buyback and 3.6% on dividends

12m fwd expected buyback (dark blue) and dividend yield (light blue) for Europe Stoxx 600 index

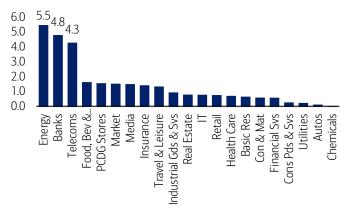


Source: BofA European Equity Quant Strategy, FactSet

BofA GLOBAL RESEARCH

Exhibit 56: Energy, Banks and Telecoms show the highest 12m fwd expected buyback yield

12m fwd expected buyback yield by European sector (%)



Source: BofA European Equity Quant Strategy, Factset

BofA GLOBAL RESEARCH

Exhibit 57: There were 61 new buyback programs announced in Europe in the last month

European companies that have announced new buyback programs in February 2024

DBK Gricker Name Country Sector date Value Expiry date
Bank Banco De Sabadell Spain Banks O1/O2/2024 EUR 340mn expiry will follow soon
DSV DC DSV Denmark Industrial Gds & Svs O1/02/2024 DKK 1bn (1.7mn shares) 23/04/2024 23/04/2024 23/04/2024 24/05 25/04/2024 25/05/2024
SHEL LN Shell UK Energy 01/02/2024 USD 800mn 02/05/2024 program is for 2024 so before 31/12/2024 program is for 2024 so before 31/12/2024 program is for 2024 so before 31/12/2024 program is for 2024 so by 31/12/2024 (EUR 1.1bn of October 2023 buybacks will be returned by 31/03/2024 and rest is subject to shareholder approval) BEI GR Beiersdorf Germany PCDG Stores 05/02/2024 EUR 500mn program to begin in May 2024 and end by 31/12/2024 BP/LN BP UK Energy 06/02/2024 USD 8.0mn program to begin in May 2024 and end by 31/12/2024 BP/LN BP UK Energy 06/02/2024 USD 3.5bn (out of which USD 1.75bn will be executed prior to Q1 '24 reporting) executed prior to Q1 '24 reporting) around 55 bps of its common equity tier 1 ratio as at Dec. 31, 2023 (approx. EUR 1.7bn) details will be announced along with launch EQNR NO Equinor Norway Energy 07/02/2024 USD 60h for 2024 (first tranche of USD 1.2bn will be start from 08/02/2024 and end by 05/04/2024) STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024)
DANSKE DC DANSKE BANK Denmark Banks 02/02/2024 USD 800mn program is for 2024 so before 31/12/2024 program is for 2024 so before 31/12/2024 [EUR 5.6bn (out of which EUR 1.1bn is from October 2023 buybacks will be returned by 31/03/2024 and rest is subject to shareholder approval) BEI GR Beiersdorf Germany PCDG Stores 05/02/2024 EUR 5.6bn (out of which USD 1.75bn will be executed prior to Q1 '24 reporting) BP/ LN BP UK Energy 06/02/2024 USD 3.5bn (out of which USD 1.75bn will be executed prior to Q1 '24 reporting) EVENT OF 100-12bn of buyback for 2024/25 out of which USD 1.75bn will be executed prior to Q1 '24 reporting) EVENT OF 100-12bn of buyback for 2024/25 out of which USD 1.75bn will be announced along with launch of USD 1.01-12bn of buyback for 2024/25 out of which USD 1.2bn will be announced along with launch of USD 1.01-12bn of buyback for 2024/25 out of which USD 1.2bn will be announced along with launch of USD 1.01-12bn of buyback for 2024/25 out of which USD 1.2bn will be announced along with launch of USD 1.01-12bn of buyback for 2024/25 out of which USD 1.2bn will be announced along with launch of USD 1.01-12bn of buyback for 2024/25 out of which USD 1.2bn will program is for 2024 years so by 31/12/2025 start from 08/02/2024 and end by 05/04/2024 program is for 2024 so by 31/12/2025 with of the program is for 2024 so further of USD 1.2bn will run from NOK 400mn 03/04/2024 with program is for 2024 so further of DKK 1.3bn will run from 08/02/2024 to 01/07/2024 (BR 1.7bn) 1.2bn will run from 08/02/2024 to 01/07/2024)
Program is for 2024 so by 31/12/2024 (EUR 1.1bn of Program is for 2024 so by 31/12/2024 (EUR 1.1bn of Program is for 2024 so by 31/12/2024 (EUR 1.1bn of Program is for 2024 so by 31/12/2024 (EUR 1.1bn of Program is for 2024 so by 31/12/2024 (EUR 1.1bn of From October 2023 buybacks will be returned by 31/03/2024 and rest is subject to shareholder approval) BEI GR
Puccilim Unicredit Unicr
DCGIM Unicredit Italy Banks 05/02/2024 2023 announced buyback of EUR 2.5bn) 31/03/2024 and rest is subject to shareholder approval) BEI GR Beiersdorf Germany PCDG Stores 05/02/2024 EUR 500mn program to begin in May 2024 and end by 31/12/2024 BP/ LN BP UK Energy 06/02/2024 USD 3.5bn (out of which USD 1.75bn will be executed prior to Q1 '24 reporting) ISP IM Intesa Sanpaolo Italy Banks 06/02/2024 around 55 bps of its common equity tier 1 ratio as at Dec. 31, 2023 (approx. EUR 1.7bn) details will be announced along with launch USD 10-12bn of buyback for 2024/25 out of which USD 1.2bn will program is for 2 years so by 31/12/2025 STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024) 31/01/2025
BEI GR Beiersdorf Germany PCDG Stores 05/02/2024 EUR 500mn program to begin in May 2024 and end by 31/12/2024 BP/LN BP UK Energy 06/02/2024 USD 3.5bn (out of which USD 1.75bn will be executed prior to Q1 '24 reporting) Intesa Sanpaolo Italy Banks 06/02/2024 USD 3.5bn (out of which USD 1.75bn will be executed prior to Q1 '24 reporting) EQNR NO Equinor Norway Energy 07/02/2024 USD 6bn for 2024 (first tranche of USD 1.2bn will be announced along with launch STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 08/02/2024 to 01/07/2024) BEI GR Beiersdorf Germany PCDG Stores 05/02/2024 EUR 5.00mn program to begin in May 2024 and end by 31/12/2025 program will be launched in June 2024 so further details will be announced along with launch USD 10-12bn of buyback for 2024/25 out of which USD 1.2bn will program is for 2 years so by 31/12/2025 BEI GR BEI GR Beiersdorf Germany PCDG Stores 05/02/2024 NOK 400mn 03/04/2024 DEKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024) BEI GR BEI GR Beiersdorf Germany PCDG Stores 05/04/2024 BEI GR BEI GR BEI GR BEI GER 5.00mn program to begin in May 2024 and end by 31/12/2025 program to begin in May 2024 and end by 31/12/2025 program will be launched in June 2024 so further details will be announced along with launch USD 10-12bn of buyback for 2024/25 out of which USD 10-12bn will program is for 2 years so by 31/12/2025
BEI GR Beiersdorf Germany PCDG Stores 05/02/2024 EUR 500mn program to begin in May 2024 and end by 31/12/2024 BP/ LN BP Banks Bonks
BP/LN BP UK Energy 06/02/2024 USD 3.5bn (out of which USD 1.75bn will be executed prior to Q1 '24 reporting) BP/LN BP Intesa Sanpaolo Italy Banks 06/02/2024 Banks 06/02/2024 around 55 bps of its common equity tier 1 ratio as at Dec. 31, 2023 (approx. EUR 1.7bn) USD 10-12bn of buyback for 2024/25 out of which USD 1.2bn will be announced along with launch details will be announced along with launch USD 10-12bn of buyback for 2024/25 out of which USD 1.2bn will program is for 2 years so by 31/12/2025 STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 08/02/2024 to 01/07/2024) DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024)
BP/LN BP UK Energy 06/02/2024 executed prior to Q1 '24 reporting' 30/06/2024 ISP IM Intesa Sanpaolo Italy Banks 06/02/2024 around 55 bps of its common equity tier 1 ratio as at Dec. 31, 2023 (approx. EUR 1.7bn) details will be announced along with launch USD 10-12bn of buyback for 2024/25 out of which EQNR NO Equinor Norway Energy 07/02/2024 USD 6bn for 2024 (first tranche of USD 1.2bn will program is for 2 years so by 31/12/2025 start from 08/02/2024 and end by 05/04/2024) STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024)
EQNR NO Equinor Norway Energy O7/02/2024 USD 6bn for 2024 (first tranche of USD 1.2bn will program is for 2 years so by 31/12/2025
FORTH NO RADIC Pandora PNDORA DC Pandora Pando
EQNR NO Equinor Norway Energy 07/02/2024 USD 6bn for 2024 (first tranche of USD 1.2bn will start from 08/02/2024 and end by 05/04/2024) program is for 2 years so by 31/12/2025 STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024) 31/01/2025
STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024) 31/01/2025
STB NO Storebrand Norway Insurance 07/02/2024 NOK 400mn 03/04/2024 PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024) 31/01/2025
PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 DKK 4bn (first tranche of DKK 1.3bn will run from 08/02/2024 to 01/07/2024) 31/01/2025
PNDORA DC Pandora Denmark Consumer Pds & Svs 07/02/2024 08/02/2024 to 01/07/2024) 31/01/2025
08/02/2024 to 01/07/2024)
CAPIED DC Carleborg Dopmark Food Poy & Tobacco 07/02/2024 DKK 1bp 10/04/2024
CARLB DC Carlsberg Denmark Food, Bev & Tobacco 07/02/2024 DKK 1bn 19/04/2024
ULVR LN Unilever UK PCDG Stores 08/02/2024 EUR 1.5bn program is for 2024 so by 31/12/2024 (program will
launch in Q2)
ROCKB DC Rockwool Denmark Construction and Materials 08/02/2024 EUR 160mn 07/02/2025
PUB FP Publicis France Media 08/02/2024 EUR 200mn 31/05/2024
SIE GR Siemens Germany Industrial Gds & Svs 12/02/2024 EUR 6bn (approx 80mn shares) 31/01/2029
ML FP Michelin France Automobiles and Parts 12/02/2024 EUR 1bn program is for 2024-2026 so by 31/12/2026
GALP PL Galp Energia Portugal Energy 12/02/2024 EUR 350mn 13/12/2024
ABN NA ABN Amro Bank Netherlands Banks 14/02/2024 EUR 500mn 30/06/2024
GMAB DC Genmab Denmark Health Care 14/02/2024 190,000 shares 15/03/2024
VPK NA Royal VPK Netherlands Industrial Gds & Svs 14/02/2024 EUR 300mn 31/12/2024
STLAM IM Stellantis Netherlands Automobiles and Parts 15/02/2024 EUR 3bn 31/12/2024
REL LN Relx UK Media 15/02/2024 GBP 1bn (first tranche of GBP 250mn will run until 24/04/2024) 31/12/2024
NWG LN Natwest UK Banks 16/02/2024 GBP 300mn 18/07/2024 (might get extended till 15/08/2024)
NEX FP Nexans France Industrial Gds & Svs 16/02/2024 175,000 shares 31/03/2024
SAN SM Santander Spain Banks 19/02/2024 EUR 1.46bn program will end by next June so by 30/06/2025



16

Exhibit 57: There were 61 new buyback programs announced in Europe in the last month

European companies that have announced new buyback programs in February 2024

				Announcement		
BBG Ticke	er Name	Country	Sector	date	Value	Expiry date
NXT LN	Next	UK	Retail	19/02/2024	acquisitions will be effected within certain pre-set parameters	20/03/2024
BARC LN	Barclays	UK	Banks	20/02/2024	GBP 1bn	20/11/2024
CA FP	Carrefour	France	PCDG Stores	20/02/2024	EUR 700mn	program to take place in the course of 2024 so by 31/12/2024
IHG LN	IHG	UK	Travel and Leisure	20/02/2024	USD 800mn	27/12/2024
ENG SM	Enagas	Spain	Energy	20/02/2024	EUR 6.2mn (430,000 shares)	20/08/2024
HSBA LN	HSBC	UK	Banks	21/02/2024	USD 2bn	26/04/2024
WKL NA	Wolters Kluwer	Netherlands	Media	21/02/2024	EUR 1bn	program is for 2024 so by 31/12/2024
AI FP	Air Liquide	France	Chemicals	21/02/2024	EUR 168.2mn	share repurchase period will be disclosed in a dedicated press release
LLOY LN	Lloyds Banking	UK	Banks	22/02/2024	GBP 2bn	31/12/2024
REP SM	Repsol	Spain	Energy	22/02/2024	EUR 5.4bn	program is for 2024 to 2027 so by 31/12/2027
ZURN SW	Zurich Insurance	Switzerland	Insurance	22/02/2024	CHF 1.1bn	program details to follow soon
ISS DC	Iss	Denmark	Industrial Gds & Svs	22/02/2024	DKK 1bn	19/02/2025
					EUR 1.6bn (EUR 1.1bn annual buyback program +	
CS FP	Axa	France	Insurance	22/02/2024	EUR 0.5bn dilutive share buyback related to the reinsurance agreement)	annual program so before 31/12/2024
HEI GR	Heidelberg Materials	Germany	Construction and Materials	22/02/2024	EUR 1.2bn	program to complete by end of 2026 so 31/12/2026
ALV GR	Allianz	Germany	Insurance	23/02/2024	EUR 1bn (will start in early March)	31/12/2024
STAN LN	Standard Chartered	UK	Banks	23/02/2024	USD 1bn (will start imminently)	23/08/2024
MUV2 GR	Munich Re	Germany	Insurance	26/02/2024	EUR 1.5bn	program will start in April-24 and will run till 30/04/2025
IFX GR	Infineon Tech	Germany	Technology	26/02/2024	EUR 300mn	28/03/2024
BIRG ID	Bank Of Ireland	Ireland	Banks	27/02/2024	EUR 250mn	18/12/2024
ASM NA	ASM International	Netherlands	Technology	27/02/2024	EUR 150mn	program is for 2024/25 so before 31/12/2025
HOLN SW	Holcim	Switzerland	Construction and Materials	28/02/2024	CHF 1bn	31/12/2024
GLB ID	Glanbia	Ireland	Food, Bev & Tobacco	28/02/2024	EUR 100mn (first tranche of EUR 50mn starts on 28/02/2024)	19/12/2024
SYDB DC	Sydbank	Denmark	Banks	28/02/2024	DKK 1.2bn	31/01/2025
DG FP	Vinci	France	Construction and Materials	28/02/2024	EUR 5bn	08/10/2025 (will be submitted for approval on 09/04/2024)
TEL NO	Telenor	Norway	Telecommunications	29/02/2024	NOK 70.4mn (max 1,408,636 shares)	08/03/2024
HLN LN	Haleon	UK	Health Care	29/02/2024	GBP 500mn	program is for 2024 so before 31/12/2024
PUM GR	Puma	Germany	Consumer Pds & Svs	29/02/2024	EUR 100mn	06/05/2025
SRP LN	Serco	UK	Industrial Gds & Svs	29/02/2024	GBP 140mn	program is for 2024 so before 31/12/2024
CRH LN	CRH	Ireland	Construction and Materials	29/02/2024	USD 300mn	09/05/2024
EBS AV	Erste Bank	Austria	Banks	29/02/2024	EUR 500mn	program is for 2024 so before 31/12/2024 (awaiting ECB's approval)
EMG LN	Man	UK	Financial Services	29/02/2024	USD 50mn	short term program but no specific details announced yet
TE FP	Technip Energies	France	Energy	29/02/2024	EUR 100mn (€70 million to purchase common shares for cancellation and up to €30 million to be used to fulfil the Company's obligations under equity compensation plans)	31/12/2024
NN NA	NN	Netherlands	Insurance	29/02/2024	EUR 300mn	program to run for 9 months from 02/04/2024 so before 01/01/2025

Source: Refinitiv, Bloomberg

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European Momentum Conviction Indicator

We launched our European Momentum Conviction Indicator on 06 October 2020. This indicator aims to identify episodes where volatility of a cross-sectional approach to Momentum investing is too high to support consistent returns or when trends might break. We use three inputs to construct the indicator, these inputs are equally weighted and form an indicator scaled from 0-100 (100 = highest conviction in positive Momentum performance, 0 = lowest conviction):



- a) Momentum Volatility Risk: Volatility of Momentum performance for risk-management is crucial as uncertainty on the economic cycle rises. High levels of volatility can compromise Momentum's performance. Since the strategy's volatility tends to be clustered, we use a GARCH (1, 1) model to forecast 1-step-ahead volatility levels and adjust the exposure to Momentum accordingly (high volatility levels = low confidence in Momentum).
- b) Implied Volatility for Equities: Large Momentum drawdowns tend to occur following turning points in market cycles. We use a combination of fast- and slow- moving averages of implied volatility in European markets to detect volatility shocks and retracement. A warning signal against Momentum is given when implied volatility retraces following a volatility shock. This often corresponds to the start of a recovery phase following a recessionary episode.
- c) Trend Reversal Risk: This is a contrarian signal monitoring the 2nd derivative of Momentum's short-term performance. This input identifies episodes where Momentum's performance has accelerated near term signalling the formation of a potential "Momentum bubble" or an episode of potential profit booking. We estimate the risk of trend reversal using the month-on-month difference in trends of the Momentum strategy.

We define a Momentum crash as a drawdown of the 12m price momentum long-short strategy exceeding 10% over 20 trading days. Since the performance of the strategy is computed on a daily basis, we define unique drawdown events as the maximum drawdown of the strategy over a 2-month window (1 month look-back, 1 month look forward). Following this methodology, we identify 30 Momentum crashes from January 1999 to September 2020. A Momentum crash is said to be correctly predicted if any of the input of the European Momentum Conviction Indicator is less than 50 (bearish signal on Momentum) 20 days prior to the drawdown event.

Using the definitions above, our backtested results suggest that the inputs of the European Momentum Conviction Indicator would have correctly identified 28 of these 30 drawdowns (i.e., sending a bearish signal 20 trading days prior to the event).

Exhibit 58: Backtested (shaded) and live results of the European Momentum Conviction Indicator Momentum Conviction Indicator and its inputs readings 1, 4, 8 weeks before the momentum crashes

1 Wee	k Before the C	rash (defin	ed as local	l minim	um of 4W							8 Weeks	Before the C	rash (defin	ed as local	minim	um of 4W
		performa				4 W		performance)									
					1W Forward						4W Forward						8W Forward
	Momentum	Implied	Trend		Momentum		Momentum	Implied	Trend		Momentum		Momentum	Implied	Trend		Momentum
Date	Volatility	Volatility	Reversal	EMCI	Returns	Date	Volatility	Volatility	Reversal	EMCI	Returns	Date	Volatility	Volatility	Reversal	EMCI	Returns
10-Feb-99	37	1	7	15	-3%	20-Jan-99	17	1	6	8	-20%	04-Jan-99		7	38	22	-12%
29-Apr-99	71	12	51	45	-4%	08-Apr-99	96	3	47	49	-12%	11-Mar-99	98	1	5	35	-14%
28-Mar-00	2	12	13	9	-26%	07-Mar-00	8	15	4	9	-49%	08-Feb-00	0	73	1	24	-31%
04-Aug-00	42	89	27	53	1%	14-Jul-00	38	95	61	65	-14%	16-Jun-00	17	86	43	48	-7%
11-Oct-00	37	6	25	23	0%	20-Sep-00	34	51	95	60	-16%	23-Aug-00	52	83	95	77	-9%
06-Dec-00	23	32	13	23	-6%	15-Nov-00	34	15	40	30	-26%	18-Oct-00	36	35	37	36	-29%
25-Apr-01	10	55	53	39	-9%	03-Apr-01	27	94	38	53	-24%	06-Mar-01	39	36	59	44	-7%
12-Nov-01	13	38	46	33	-15%	22-Oct-01	12	98	32	47	-26%	24-Sep-01	30	100	35	55	-36%
29-Oct-02	5	3	11	6	-10%	08-Oct-02	5	96	58	53	-25%	10-Sep-02	17	91	52	53	-4%
23-Apr-03	28	93	36	52	-6%	01-Apr-03	21	16	32	23	-25%	04-Mar-03	19	2	18	13	-22%
11-Jun-03	47	94	29	56	0%	21-May-03	37	95	38	57	-16%	23-Apr-03	28	93	36	52	-25%
25-Jul-03	79	76	78	78	-4%	04-Jul-03	67	92	25	61	-11%	06-Jun-03	51	94	29	58	-9%
01-Jun-06	31	95	83	70	-7%	11-May-06	71	35	85	64	-13%	12-Apr-06	77	41	76	65	-10%
05-Aug-08	5	9	37	17	-8%	15-Jul-08	19	28	56	34	-36%	17-Jun-08	31	8	57	32	-24%
11-Dec-08	3	79	53	45	4%	20-Nov-08	5	99	13	39	-20%	23-Oct-08	6	100	6	37	-2%
30-Mar-09	2	3	12	6	-16%	09-Mar-09	1	1	23	8	-51%	09-Feb-09	2	0	24	9	-28%
30-Jul-09	49	85	51	62	-7%	09-Jul-09	47	59	53	53	-18%	11-Jun-09	41	92	39	57	-8%

Exhibit 58: Backtested (shaded) and live results of the European Momentum Conviction Indicator

Momentum Conviction Indicator and its inputs readings 1, 4, 8 weeks before the momentum crashes

1 Wee	k Before the C	Crash (defin		minin	num of 4W	4 Weeks Before the Crash							8 Weeks Before the Crash (defined as local minimum of 4W performance)						
		•	•		1W Forward						4W Forward			•	•		8W Forward		
	Momentum	Implied	Trend		Momentum		Momentum	Implied	Trend		Momentum		Momentum	Implied	Trend		Momentum		
Date	Volatility	Volatility	Reversal	EMCI	Returns	Date	Volatility	Volatility	Reversal	EMCI	Returns	Date	Volatility	Volatility	Reversal	EMCI	Returns		
01-Feb-11	28	40	41	36	0%	11-Jan-11	57	29	52	46	-16%	14-Dec-10	30	29	77	45	-8%		
03-Oct-11	12	97	36	48	-7%	12-Sep-11	38	98	21	52	-25%	15-Aug-11	17	98	58	58	-8%		
27-Jan-12	27	87	24	46	-1%	06-Jan-12	44	23	47	38	-18%	08-Dec-11	23	2	57	27	-9%		
14-Aug-12	26	35	34	32	-5%	24-Jul-12	35	67	46	49	-19%	26-Jun-12	27	13	44	28	-14%		
08-Apr-14	50	47	81	59	-6%	18-Mar-14	65	68	86	73	-10%	18-Feb-14	76	60	89	75	-9%		
19-Oct-15	23	22	48	31	2%	28-Sep-15	49	89	33	57	-12%	31-Aug-15	41	91	67	67	1%		
24-Feb-16	16	89	73	59	-9%	03-Feb-16	33	77	61	57	-15%	06-Jan-16	46	10	38	31	-10%		
15-Apr-16	11	37	27	25	-7%	24-Mar-16	31	58	66	51	-12%	25-Feb-16	14	88	74	59	-21%		
07-Nov-16	49	19	64	44	-5%	17-Oct-16	50	22	67	46	-11%	19-Sep-16	38	38	69	48	-11%		
19-Dec-16	35	66	23	41	0%	28-Nov-16	50	9	57	39	-13%	31-Oct-16	50	34	58	48	-14%		
12-Apr-19	48	34	55	46	-4%	22-Mar-19	58	59	70	62	-11%	22-Feb-19	46	65	74	62	-9%		
09-Sep-19	29	62	59	50	-6%	19-Aug-19	44	89	50	61	-14%	22-Jul-19	70	67	66	68	-10%		
01-Jun-20	2	0	49	17	-21%	11-May-20	11	2	48	20	-27%	13-Apr-20	8	99	13	40	-12%		
17-Nov-20	2	22	4	9	-8%	27-Oct-20	17	5	19	14	-32%	29-Sep-20	17	3	19	13	-33%		
01-Mar-21	14	14	17	15	-9%	08-Feb-21	23	10	46	26	-18%	11-Jan-21	13	15	47	25	-16%		
18-Jan-22	28	14	29	24	-1%	28-Dec-21	34	62	65	54	-10%	30-Nov-21	28	83	60	57	-13%		
22-Jul-22	35	8	34	26	0%	01-Jul-22	43	5	54	34	-8%	03-Jun-22	43	10	53	35	-8%		
04-Nov-22	18	45	56	40	-15%	14-Oct-22	24	70	72	55	-17%	16-Sep-22	28	12	70	36	-13%		
26-Jan-23	33	83	67	61	-7%	05-Jan-23	24	81	55	53	-11%	08-Dec-22	20	91	30	47	-13%		

Source: BofA European Equity Quant Strategy. 12m Momentum performance is computed from January 1999 using daily price returns in Euro, assuming daily rebalancing and excluding transaction costs. This performance is backtested (shaded) and does not represent the actual performance of any account or fund. Backtested (shaded) performance depicts the theoretical (not actual) performance of a particular strategy over the time period indicated. No representation is being made that any actual portfolio is likely to have achieved returns similar to those shown herein. The strategy indicated above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This strategy was not created to act as a benchmark.

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Definitions

Value: Equal weighted combination of factors - Forecast/Trailing EPS Yield, Dividend Yield, Cash to Price Yield, Book to Price Yield, Price to Sales and Forecast PEG.

Growth: Equal weighted combination of factors - Forecast/Trailing EPS Growth, Forecast EPS Change and Forecast Long Term Growth.

Momentum: Equal weighted combination of factors - 3m EPS Change, EPS Revision Ratio, Sales Revision Ratio, 1m Price Change and 12m Price Change.

Quality: Equal weighted combination of factors - Return on Assets, Return on Capital, Return on Equity, 5yr Return on Equity and Leverage.

Risk: Equal weighted combination of factors - EPS Estimate Dispersion and Beta.

Size: Month end market capitalisation.

Value Factors

Forecast Earnings Yield: I/B/E/S next twelve month EPS divided by month end Price.

Trailing Earnings Yield: Trailing twelve month EPS divided by month end Price.

Dividend Yield: Trailing twelve month Dividend per share divided by month end Price.

Cash to Price: Trailing 12 month cash earnings per share divided by month end price. Cash Earnings are defined as earnings plus depreciation on fixed assets. (i.e. -not free cash flow).

Book to Price: Trailing twelve month Book Value per share divided by month end price.

Price to Sales: Month End Price divided by last reported Sales per share figure.



Forecast PEG: I/B/E/S FY1 P/E divided by I/B/E/S Long Term Growth Estimate.

Other valuations:

Free Cash Flow Yield: Trailing twelve month difference between operating cash flow and capital expenditures net of fixed assets disposals divided by the month end price

EV/EBITDA: Latest reported divided EV (market capitalisation plus total debt minus cash and cash equivalents) divided by the trailing twelve month EBITDA

Growth Factors

Forecast Earnings Growth: (I/B/E/S FY2 Mean EPS Est. less latest reported EPS) divided by the latest reported EPS.

Trailing Earnings Growth: Difference between Trailing Twelve Month EPS and Trailing Twelve Month EPS a year prior divided by absolute value of Trailing Twelve Month EPS a year prior.

Forecast EPS Change: Difference between I/B/E/S Forecast Twelve Month EPS and I/B/E/S Forecast Twelve Month EPS a year prior divided by I/B/E/S Forecast Twelve Month EPS a year prior.

Long Term Mean EPS Growth: I/B/E/S Mean Long Term Growth Estimate (+5years).

Momentum Factors

3 Month Change in Mean EPS: Difference between I/B/E/S FY1 mean EPS and I/B/E/S FY1 mean EPS 3 months prior, divided by absolute value of I/B/E/S FY1 mean EPS 3 months prior.

Earnings Revision Ratio: ((# of FY1 and FY2 upward EPS revisions over last 3 months)-(# of FY1 and FY2 downward EPS revisions over last 3 months))/ # of FY1 and FY2 estimates over last 3 months.

Sales Revision Ratio: ((# of FY1 and FY2 upward Sales revisions over last 3 months)-(# of FY1 and FY2 downward Sales revisions over last 3 months))/ # of FY1 and FY2 estimates over last 3 months.

1m Price Momentum: Latest month-end price / 1-month ago price.

12m Price Momentum: Latest month-end price / 12-months ago price.

Risk Factors

Beta: Calculated using regression analysis on 60 months of price performance versus the benchmark. High beta stocks have a high correlation to the market, whilst low beta stocks have a low correlation to market movements.

EPS Estimate Dispersion: Coefficient of variation of I/B/E/S FY2 EPS estimates. The coefficient of variation is defined as the Standard Deviation of Estimates divided by the absolute value of the Mean Estimate.

Quality Factors

Return on Assets: Annual Earnings divided by Total Assets.

Return on Capital: Annual Earnings divided by Total Capital.

Return on Equity – 1yr: Trailing Twelve Month EPS divided by Trailing Twelve Month Book value per Share.

Return on Equity – 5yrs: Average RoE over the last 5 years.

Leverage: Annual Long Term Debt/(Annual Long Term Debt +Annual Book Value).



Ownership

Top 50 European Fund Managers Weight: Relative weight of the Top 50 European fund managers in the stock vs their European market holdings. 100=neutral, >100 is overweight and <100 is underweight

% Top 50 European Fund Managers Weight: Based on the above we calculate the percentage of fund managers who are underweight.

Dividend Factors

12m Fwd dividend yield: 12m fwd DPS per share estimate from I/B/E/S divided by month end price

5 Year Dividend Growth: CAGR of trailing FY0, FY1 and FY2 and forecast FY1 and FY2 DPS growth.

Dividend Revision Ratio: ((# of FY1 and FY2 upward DPS revisions over last 3 months)-(# of FY1 and FY2 downward DPS revisions over last 3 months))/ # of FY1 and FY2 estimates over last 3 months.

DPS Estimate Dispersion: Coefficient of variation of I/B/E/S FY2 DPS estimates. The coefficient of variation is defined as the Standard Deviation of Estimates divided by the absolute value of the Mean Estimate.

Payout Ratio: prospective FY1 DPS divided by the prospective FY1 EPS.



Disclosures

Important Disclosures

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Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R1}

 Buy
 ≥ 10%
 ≤ 70%

 Neutral
 ≥ 0%
 ≤ 30%

 Underperform
 N/A
 ≥ 20%

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

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