

EM Corporate Monthly (+Chartbook)

With uncertainty lifting, high all-in yields lead to ever-tighter spreads

Another flat return month on lower spreads, higher rates

EM Corporates were flat at +0.1% TRR MoM, but spreads tightened -18bps in IG and -73bps in HY, as rates increased by 20bps to 43bps for maturities longer than two years. MoM performance improved the lower one went down the credit quality ladder, with distressed names outperforming CCC's, CCC's outperforming single B's and so on.

Clear winner in battle between tight spreads, high yields

EM Corporate valuation has become a sort of a Rorschach test between anxiety about decade-tight spreads (212bps vs. 305bps average, 1st percentile since 2012) and high yields (6.4%, vs 4.8% historical average, 90th percentile). The attractiveness of yields is the clear positive attribute as investor appetite keeps compressing spreads lower.

Differentials that attracted crossovers in Feb, now smaller

The wide LatAm HY to US HY spread differentials that we noted in [last month](#) (see report) helped lead to relative outperformance in LatAm HY (+1.0% MoM) vs US HY (+0.3% MoM) but also led to the narrowing of that relative differential. The spread difference is now at 134bps, about equal to the three-year average, having tightened -37bps MoM.

Macro has improved since we set our Year-Ahead targets

Since we last published our spread targets in our [Year-Ahead publication](#) in November, the macroeconomic outlook has improved markedly. US economic data has come in stronger than expected, and key commodity prices including Oil and Copper have moved slightly higher as fears about Chinese commodity demand have failed to materialize. While credit risks have been improving, yields have remained elevated leading to high investor demand for corporate bonds, suppressing EM corporate spreads through our targets of 250bps: to 204bps from 257 at the time of publication (Nov 16th 2023).

We update our total return forecast to 4.5% in 2024E

We recognize that the macro environment and market sentiment have improved, and we also see some room for spread widening from current decade-tight levels. We therefore update our EM Corporate index spread target for 2024E to 232bps from 250bps previously. Our prior 2024E TRR forecast was +7.5%. Between the date of our forecast and 2023 year-end the index rallied +4.8%. Our updated TRR forecast for 2024E is +4.5% for the index. We expect EM HY to return +6.3%, outperforming EM IG (+3.9%).

Cheap to lower risk via lower duration or move to Sov.

It's relatively cheap to reduce risk by lowering duration or by moving from Quasis to Sovereigns. Courtesy of the inverted curve, the difference in yield per year of duration is now 9bps vs the 24bp historical average since 2012. Spread over Sovereign for the EM Quasis we track fell -25bps over the last three months and for the majority of the Quasis it's in the first quartile of the 12-month distribution, making risk reduction via switching to Sovereigns also cheap relative to history.

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Refer to important disclosures on page 22 to 24.

12667097

Timestamp: 05 March 2024 07:01AM EST

05 March 2024

EM Corporate Strategy
Global

Anne Milne
Research Analyst
BofA
+1 646 855 4096
anne.milne@bofa.com

Jason Amoratis
Research Analyst
BofA
+1 646 556 0831
jason.amoratis@bofa.com

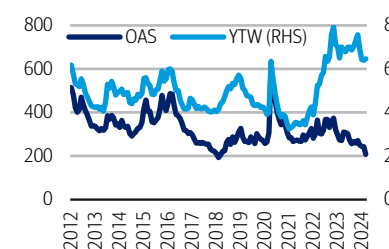
GEMS Corporate Credit Rsch
BofA
+1 646 855 4096

[See Team Page for List of Analysts](#)

To access the chartbook, please search for "EM Corporate Credit Chartbook" in the BofA RSCH portal

Exhibit 1: Index OAS vs Yield to Worst

Spreads at decade tights, yet yields near decade highs



Source: BofA Global Research, ICE Data Indices LLC
BofA GLOBAL RESEARCH

TRR = Total Rate of Return

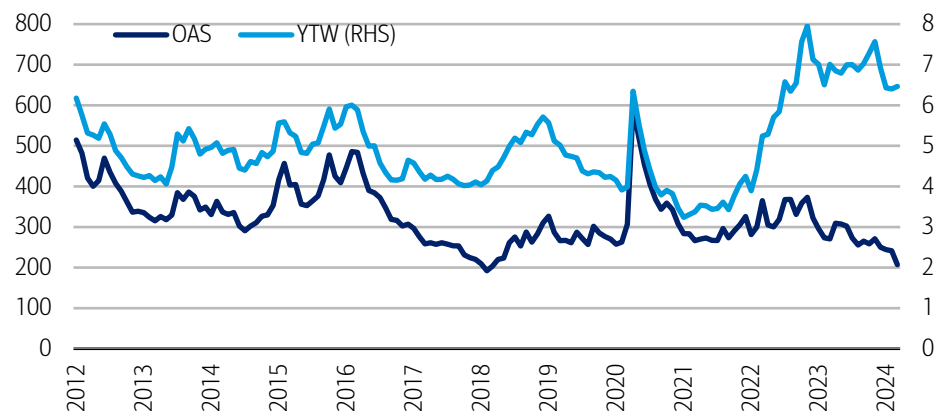
See Appendix for list of common abbreviations

Yield levels are more important than spread tightness

EM Corporate spreads are at the tightest levels in a decade (1st percentile)

Exhibit 2: Spreads at tightest levels in a decade – but yields close to decade highs too

EM Corporate index Option Adjusted Spread (bps) vs. Yield to Worst (% , right hand side)



Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

It's cheap to reduce duration because rates are inverted

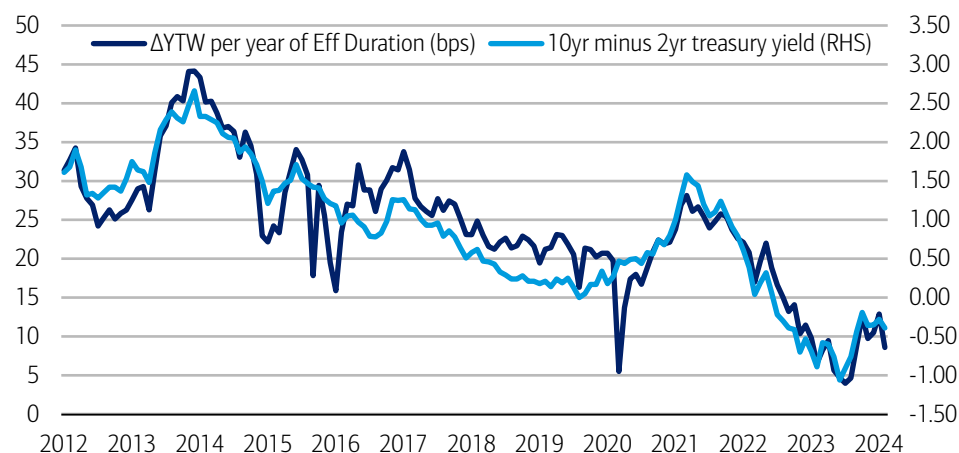
We have been anecdotally observing curves where reducing duration is possible without giving up yield, or with giving up a small amount of yield. This is due to the inverted yield curve, as shorter duration paper gets a yield boost from the short end of the curve.

To quantify this, we took all EM corporates with five or more bonds on their curve and measured the average change in YTW per year of Effective duration between bonds. Limiting our scope to bond pairs with three years of effective duration vs >10 years of duration, we plot the average change in Yield per year of effective duration in Exhibit 3. Consistent with our intuition, the cost of reducing duration is highly correlated with the UST rates slope (10 years minus two years).

Everything else equal, the cost of reducing duration risk is now lower than it has been historically, at 9bps or Yield per year of duration vs 24bps average since 2012 (5th percentile).

Exhibit 3: EM Corporate average Yield (bps) per year of Effective duration

The cost to reduce duration is 9bps of yield per year of effective duration, lower than 24bps long term avg



Source: BofA Global Research, ICE Data Indices, LLC, FRED

BofA GLOBAL RESEARCH

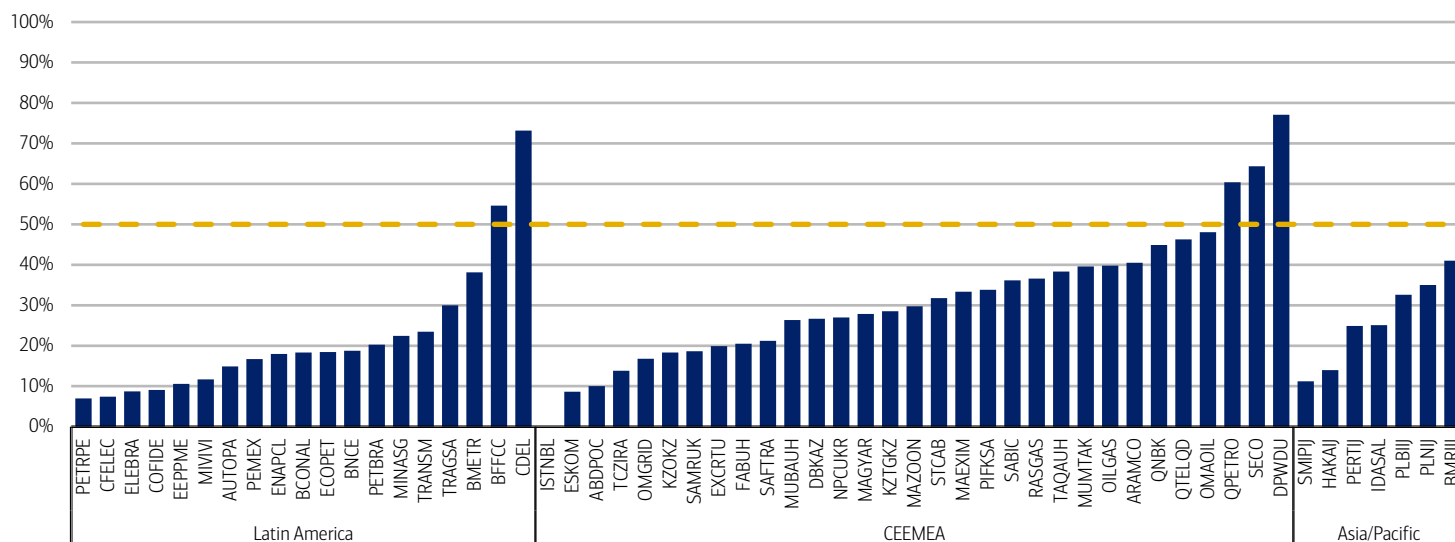


Switching to Sovereigns is also relatively cheap

The average SoS over Sovereign for Quasis we track (excluding China and Argentina) is 57bps and has tightened by -23bps in the last three months. As a result, the price of taking risk off the table by switching to Sovereigns has also become cheaper. For more information on our Spread over Sovereign methodology, please see our EM SoS (Spread over Sovereign) report, 25 July 2024.

Exhibit 4: One year retracement of Spread over Sovereign for EM Quasis in selected countries (not shown: Argentina, China, South Korea)

Fifty-two out of 57 Quasis have Spread over Sovereign 1-year retracement below 50%, and about half (28/57) have retracement in the first quartile



Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

We update our total return forecast to 4.5% in 2024E

We update our EM Corporate index spread target for 2024E to 232bps from 250bps. Our initial forecast set in November was for +7.5% for 2024E. The updated forecast factors in the strong rally of +7.1% in November and December. Our updated 2024E forecast is for a total return of +4.5% for the index: +3.9% for IG and +6.3% for HY. This factors in the (1) high yields that generate investor demand; (2) resilience of the US economy; (3) compressed US credit spreads that pull EM corporate spreads lower; (4) sound corporate fundamentals in EM; and (5) manageable net supply.

Exhibit 5: We update our spread targets for LatAm and CEEMEA

Summary of spread targets, default rate targets and corresponding returns for 2024E

As of 01 Mar 2024

	EM Corporates			IG			HY		
	EMCB	IG	HY*	LatAm	EMEA	Asia	LatAm	EMEA	Asia
Total*	IG	HY*	IG	IG	IG	IG	HY	HY	HY*
Current Spread (bps)	203	124	416	178	133	107	468	384	326
YE23 Target (bps)	232	142	476	188	128	135	500	425	500
Difference (bps)	29	18	60	10	-5	28	32	41	174
Duration (yrs)	4.8	5.2	3.9	7.2	5.8	4.4	4.7	3.1	2.5
Yield to Worst (%)	6.4	5.5	8.6	6.1	5.4	5.4	9.1	8.2	7.8
Price (\$)	92.8	93.1	91.8	92	93	93	89	95	94
Face Value (US\$b)	1,455	1,052	404	166	245	641	211	123	69
Default Rate (% mkt weight)*			3.1	0.0	0.0	0.0	3.9	3.8	0.6
Forecasted 2024 TRR for the rest of the year (%)	4.1	4.1	3.9	4.6	4.9	3.7	4.4	3.8	2.8
Total Return, 2024 (%) F	4.5	3.9	6.3	3.9	4.3	3.7	5.9	6.3	7.1

Source: BofA Global Research, ICE Data Indices, LLC

* Excludes Chinese HY property. Rates assumptions are based on the BofA forecast.

BofA GLOBAL RESEARCH



Return Heat Maps – Global EM

Monthly and yearly Total & Excess returns

Exhibit 6: Total Returns (%) by Eff. Duration (yrs) MTD

HY outperformed IG MoM

	0..1	1..2	2..3	3..4	4..5	5..6	6..7	7..8	8..9	9+
AA2			-0.3	-0.7	-0.5	-0.6	-0.8			-0.3
AA3		0.0	-0.2	-0.4						
A1		0.0	-0.3	-0.5	-0.5	-0.8	-0.7	-0.3		0.2
A2		0.1	-0.3	-0.4	-0.5	-0.8	-0.5	-0.1		0.6
A3		0.0	-0.2	-0.2	-0.4	-1.0	-0.4	-1.0		-1.2
BBB1		0.2	-0.2	-0.2	-0.4	-0.5	-0.1	-0.5		-0.9
BBB2		0.4	0.1	-0.4	-0.1	-0.2	-0.3	0.7		-1.0
BBB3		0.2	0.3	-0.2	-0.3	0.1	-0.3	0.0		-0.1
BB1		0.5	0.5	0.6	0.7	0.8	0.9			1.0
BB2		1.6	0.5	0.4	0.2	-0.1				
BB3		1.0	1.1	0.3	0.9	1.6				
B1		0.7	1.1	1.0	6.6					
B2		2.6	1.5	3.6						
B3		1.5	1.5							
CCC1			3.5							

Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 7: Total Returns (%) by Eff. Duration (yrs) YTD

HY outperformed IG YTD

	0..1	1..2	2..3	3..4	4..5	5..6	6..7	7..8	8..9	9+
AA2			0.0	-0.5	-0.8		-1.2			-3.2
AA3		0.4	0.0	-0.1						
A1		0.3	-0.1	-0.3	-0.6	-0.7	-1.5			-1.7
A2		0.5	0.1	-0.1	-0.3	-0.6	-0.9	-0.9		-1.2
A3		0.4	0.2	-0.1	-0.2	-0.9	-0.6	-1.0		-2.6
BBB1		0.7	0.1	0.3	0.0	-0.6	-0.1	-0.8		-3.2
BBB2		1.0	0.7	0.0	0.0	0.0	0.2	0.2		-2.8
BBB3		1.1	0.9	0.1	0.0	1.2	0.4	-0.2		-0.8
BB1		1.2	1.9	2.2	1.7	0.2	1.4			-1.0
BB2		3.3	1.4	1.1	0.7	-0.9				
BB3		2.7	3.0	1.0	2.2	1.6				
B1		1.7	2.3	2.3	7.0					
B2		5.7	3.3	7.1						
B3		1.8	4.3							
CCC1			4.8							

Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 8: Excess Returns (%) MTD by Effective Duration and Rating

Long-tenor debt performance in excess to Treasuries was decent MoM

	0..1	1..2	2..3	3..4	4..5	5..6	6..7	7..8	8..9	9+
AA2			0.4	0.5	0.8	1.2	1.2			1.9
AA3		0.4	0.6	0.8						
A1		0.2	0.4	0.6	0.9	0.9	1.2	1.6		2.5
A2		0.3	0.5	0.8	1.0	0.9	1.4	1.8		2.8
A3		0.2	0.5	0.9	1.0	0.7	1.4	1.0		1.1
BBB1		0.4	0.5	1.0	1.1	1.2	1.9	1.4		1.2
BBB2		0.6	0.9	0.8	1.4	1.5	1.6	2.5		1.2
BBB3		0.5	1.0	0.9	1.1	1.7	1.6	1.8		2.0
BB1		0.8	1.3	1.7	2.2	2.5	2.7			3.0
BB2		1.9	1.2	1.5	1.6	1.4				
BB3		1.2	1.9	1.4	2.3	3.3				
B1		1.0	1.8	2.0	8.0					
B2		2.9	2.2	4.7						
B3		1.8	2.2							
CCC1			4.2							

Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 9: Excess Returns (%) YTD by Effective Duration and Rating

Long-tenor debt performance in excess to Treasuries was decent YTD

	0..1	1..2	2..3	3..4	4..5	5..6	6..7	7..8	8..9	9+
AA2			0.4	0.4	0.3		0.6			0.3
AA3		0.4	0.5	0.8						
A1		0.2	0.3	0.5	0.6	0.9	0.3			2.1
A2		0.3	0.5	0.8	0.9	1.2	0.9	1.2		2.2
A3		0.3	0.7	0.8	1.2	0.7	1.2	1.2		1.2
BBB1		0.5	0.6	1.1	1.2	1.0	1.9	1.3		0.3
BBB2		0.9	1.2	0.9	1.2	1.5	2.0	2.3		0.7
BBB3		1.0	1.4	1.0	1.2	2.8	2.2	1.8		2.4
BB1		1.2	2.3	3.0	3.0	1.7	3.1			1.9
BB2		3.2	1.9	2.0	2.0	0.5				
BB3		2.6	3.4	1.9	3.6	3.3				
B1		1.5	2.6	3.0	8.1					
B2		5.6	3.6	7.9						
B3		1.8	4.6							
CCC1			5.2							

Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Broad Market Performance Summary

Exhibit 10: Rates climbed MoM; EM HY closed some of the spread differential with US HY

Index Option Adjusted Spread Changes (bps)

Market	Index	Level	Spread Change (bps)			
			WOW	MTD	YTD	YoY
2yr Trsy	GA02	4.63%	-8	+40	+37	-26
5yr Trsy	GA05	4.25%	-8	+38	+40	-7
10yr Trsy	GA10	4.24%	-10	+29	+36	+18
30yr Trsy	GA30	4.36%	-9	+16	+32	+35
EM Corporates	EMCB	207bp	-4	-36	-37	-58
EM Corporates Diversified	EMCL	209bp	-4	-38	-35	-59
EM Sovereigns	EMGB	268bp	-4	-31	-19	-57
EM Local Sovereigns	LDMP	6.69%	+11	+13	+11	-28
EM Local Corps	LCCB	40bp	-1	-6	-4	-13
US IG	COA0	100bp	+7	-2	-4	-27
EM IG	EMIB	120bp	+3	-18	-14	-24
LatAm IG	EMIL	174bp	+9	-15	-9	-21
EMEA IG	EMIE	128bp	+5	-23	-13	-12
Asia IG	EMIA	103bp	+1	-17	-17	-31
US HY	HOA0	329bp	+7	-30	-10	-89
EM HY	EMHB	436bp	-23	-88	-102	-156
LatAm HY	EMHL	463bp	-16	-67	-62	-94
EMEA HY	EMHE	377bp	-43	-97	-117	-123
Asia HY	EMHA	468bp	-4	-122	-185	-315

Source: ICE Data Indices, LLC, BofA Global Research.

BofA GLOBAL RESEARCH

Exhibit 11: Rates component drove part of the relative IG underperformance MoM

Market Performance Summary: Total Returns (%)

Market	Index	Price	Total Returns (%)			
			WOW	MTD	YTD	YoY
EM Corporates	EMCB	91.1pt	+0.2%	+0.1%	+0.3%	+7.3%
EM Corporates Diversified	EMCL	91.1pt	+0.2%	+0.1%	+0.2%	+7.8%
EM Sovereigns	EMGB	86.2pt	+0.8%	+0.5%	-0.7%	+9.9%
EM Local Sovereigns	LDMP	95.9pt	+0.1%	+0.3%	+0.8%	+8.6%
EM Local Corps	LCCB	102.6pt	+0.3%	+0.5%	+1.2%	+6.0%
US IG	COA0	91.7pt	+0.2%	-1.4%	-1.3%	+6.9%
EM IG	EMIB	92.1pt	+0.3%	-0.3%	-0.4%	+6.3%
LatAm IG	EMIL	90.7pt	+0.2%	-0.4%	-0.8%	+6.6%
EMEA IG	EMIE	91.9pt	+0.2%	-0.0%	-0.7%	+5.1%
Asia IG	EMIA	92.5pt	+0.3%	-0.3%	-0.1%	+6.6%
US HY	HOA0	92.4pt	+0.2%	+0.3%	+0.3%	+11.4%
EM HY	EMHB	88.7pt	+0.0%	+1.0%	+2.2%	+10.2%
LatAm HY	EMHL	85.9pt	+0.0%	+0.9%	+1.3%	+12.7%
EMEA HY	EMHE	93.5pt	+0.1%	+0.8%	+2.3%	+13.1%
Asia HY	EMHA	88.7pt	-0.2%	+1.6%	+4.7%	+1.4%
Mexico	EMXZ	85.3pt	+0.2%	-0.2%	-0.2%	+9.6%
South Korea	EKRZ	95.9pt	+0.3%	-0.4%	-0.1%	+6.2%
Brazil	EBRZ	94.8pt	+0.0%	+0.8%	+1.0%	+11.4%
UAE	EAEZ	93.2pt	+0.2%	+0.1%	-0.5%	+4.4%
India	EINZ	92.1pt	+0.1%	+0.3%	+1.7%	+11.3%
China	ECNZ	91.6pt	+0.3%	+0.0%	+0.6%	+4.0%
EM As	EMAQ	92.1pt	+0.3%	-0.3%	-0.5%	+5.7%
EM BBBs	EM2B	92.5pt	+0.2%	-0.1%	-0.1%	+7.4%
EM BBs	EM3B	89.8pt	+0.0%	+0.6%	+1.4%	+9.6%
EM Bs	EM6B	93.4pt	+0.1%	+2.0%	+4.0%	+10.8%
EM CCCs	EM7B	72.4pt	-0.2%	+2.0%	+5.4%	+12.7%
EM Equities (MXEF)	MXEF	1020.9pt	-0.8%	+4.6%	-0.3%	+4.2%
US Equities (SPX)	SPX	5096.3pt	+0.2%	+5.2%	+6.8%	+28.0%

Source: ICE Data Indices, LLC, BofA Global Research

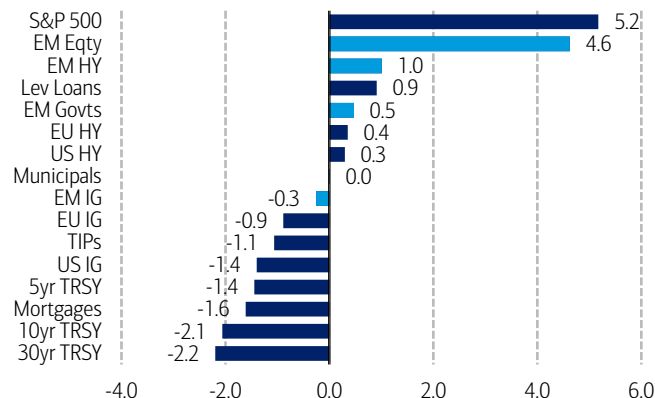
BofA GLOBAL RESEARCH



Total Return Performance

Exhibit 12: Cross Asset Total Returns: MoM February 2024 (%)

Equities outperformed in February

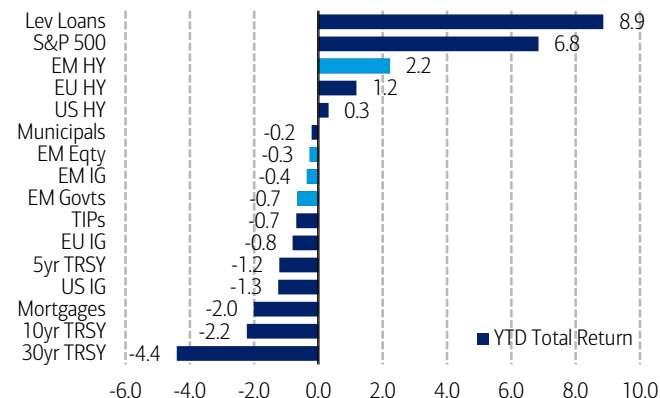


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 13: Cross Asset Total Returns: YTD February 2024 (%)

Leveraged Loans and equities outperformed YTD across assets

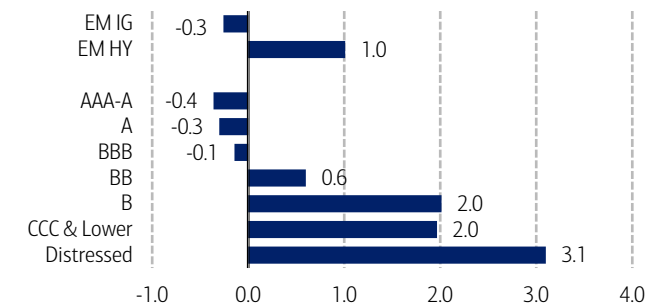


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 14: Total Returns by Rating: MoM February 2024 (%)

Single-B's and CCCs outperformed higher credit quality debt MoM

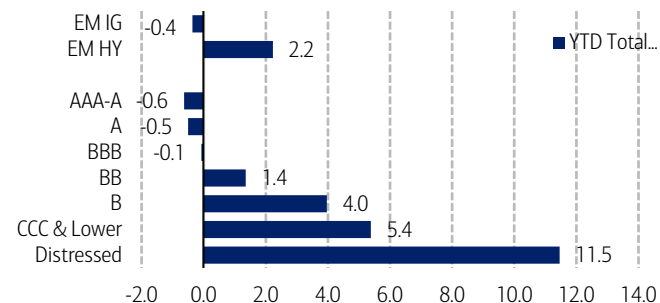


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 15: Total Returns by Rating: YTD February 2024 (%)

Lower credit quality debt outperformed higher credit quality debt YTD

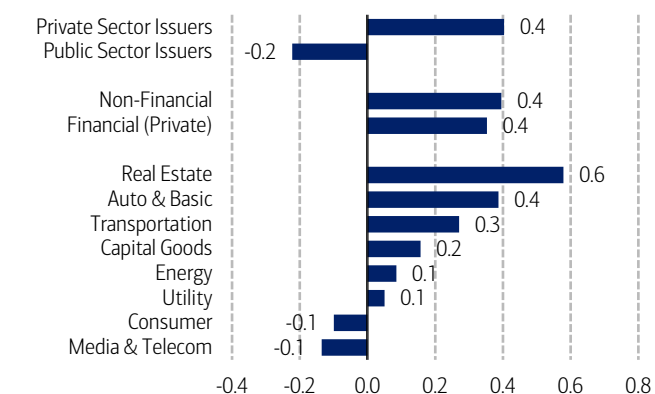


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 16: Total Returns by Sector: MoM February 2024 (%)

Real Estate, Auto parts, Basic Industry outperformed MoM

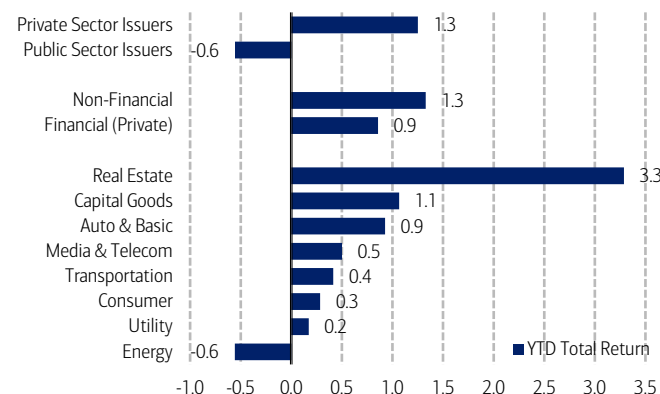


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 17: Total Returns by Sector: YTD February 2024 (%)

Private sector issuer outperformed YTD

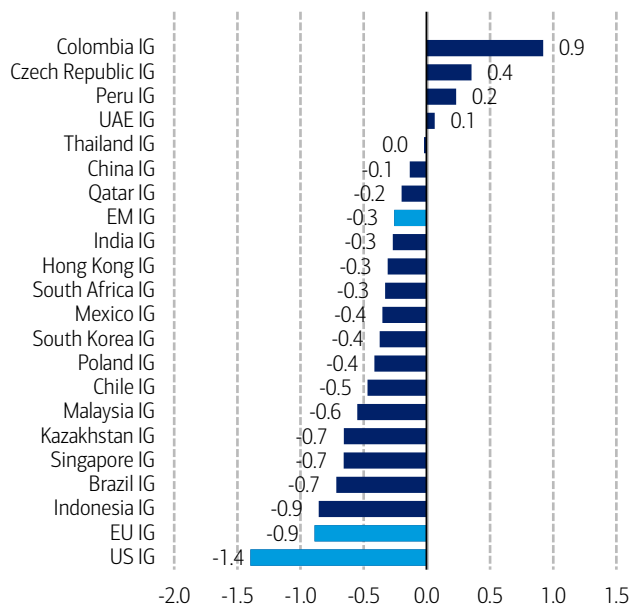


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 18: Country IG Total Returns: MoM February 29, 2024 (%)

MTD IG Corporate Credit Total Returns (%) by Country

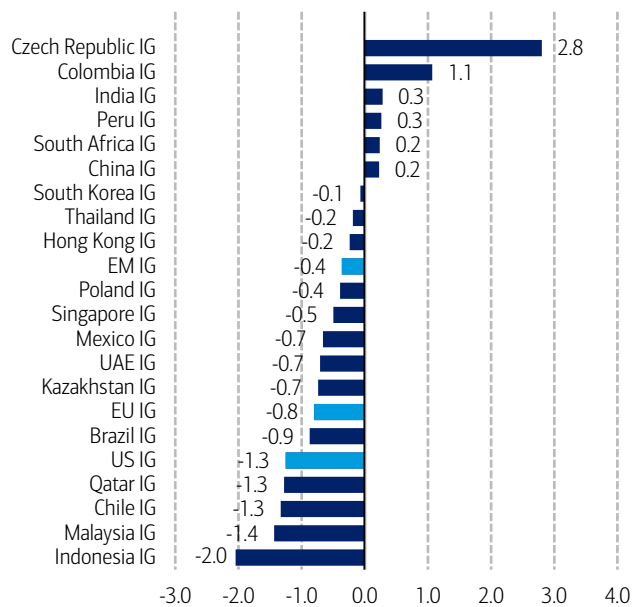


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 19: Country IG Total Returns: YTD February 29, 2024 (%)

Czech Rep. (EUR denom. debt) and Colombia IG outperformed YTD

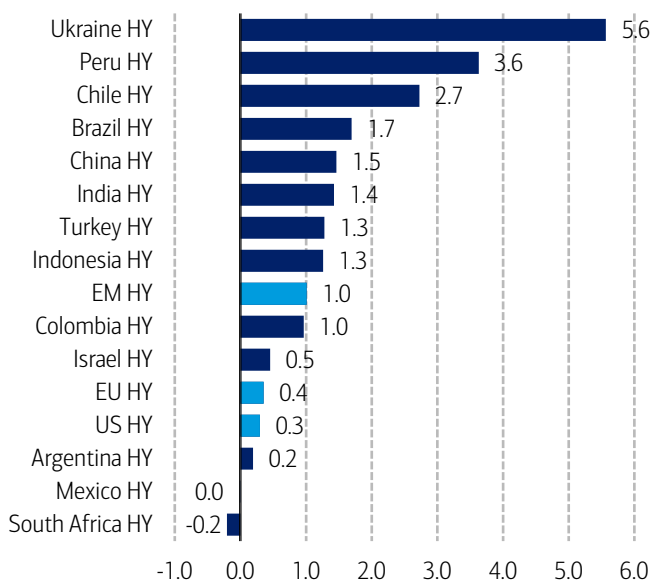


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 20: Country HY Total Returns: MoM February 29, 2024 (%)

Ukraine HY, Peru HY, and Chile HY outperformed MoM

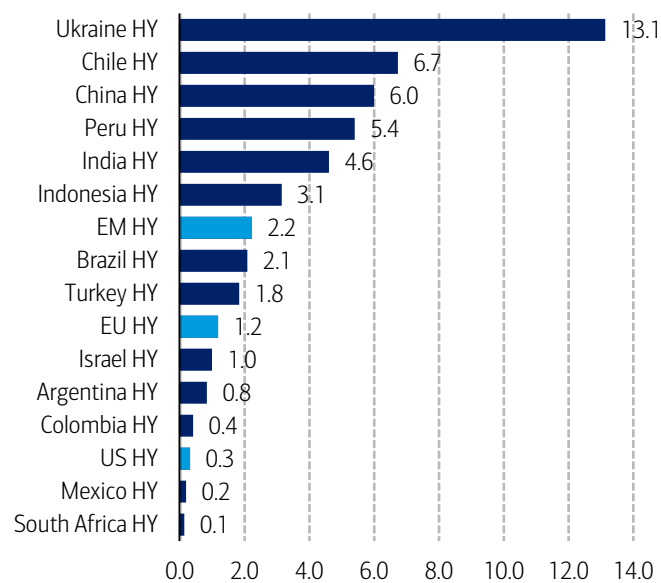


Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 21: Country HY Total Returns: YTD February 29, 2024 (%)

Ukraine HY, Chile HY, and China HY outperformed MoM



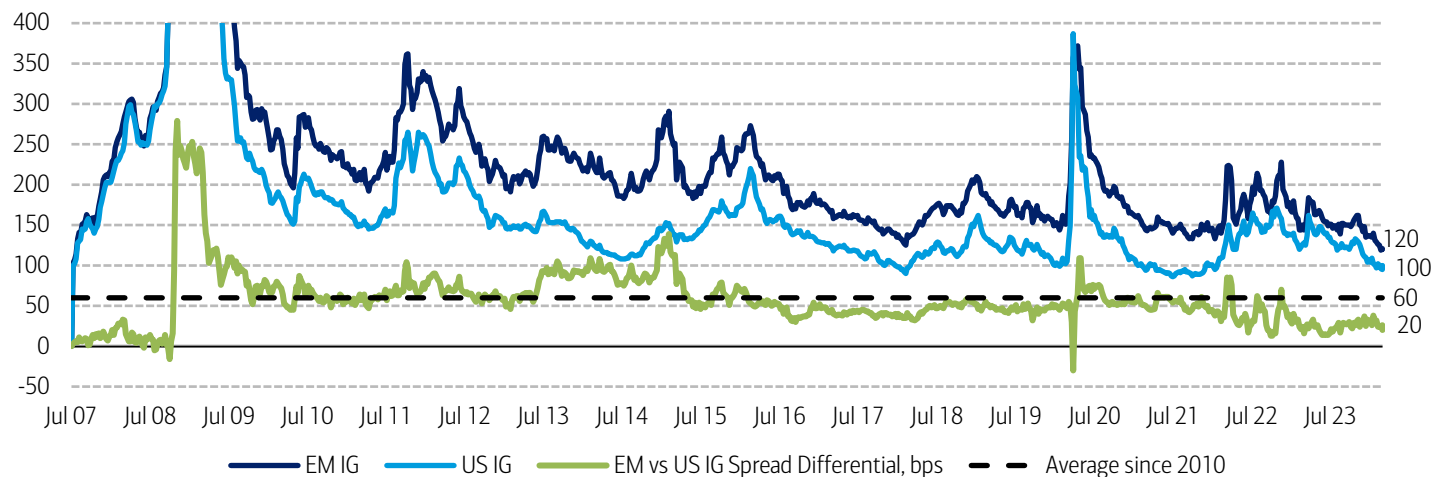
Source: ICE Data Indices, LLC, Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

EM vs. US Corporate Relative Value

Exhibit 22: EM IG spreads at cycle lows and EM IG-US IG spread differential near decade lows, with regional differentiation

EM IG vs US IG OAS spread differential

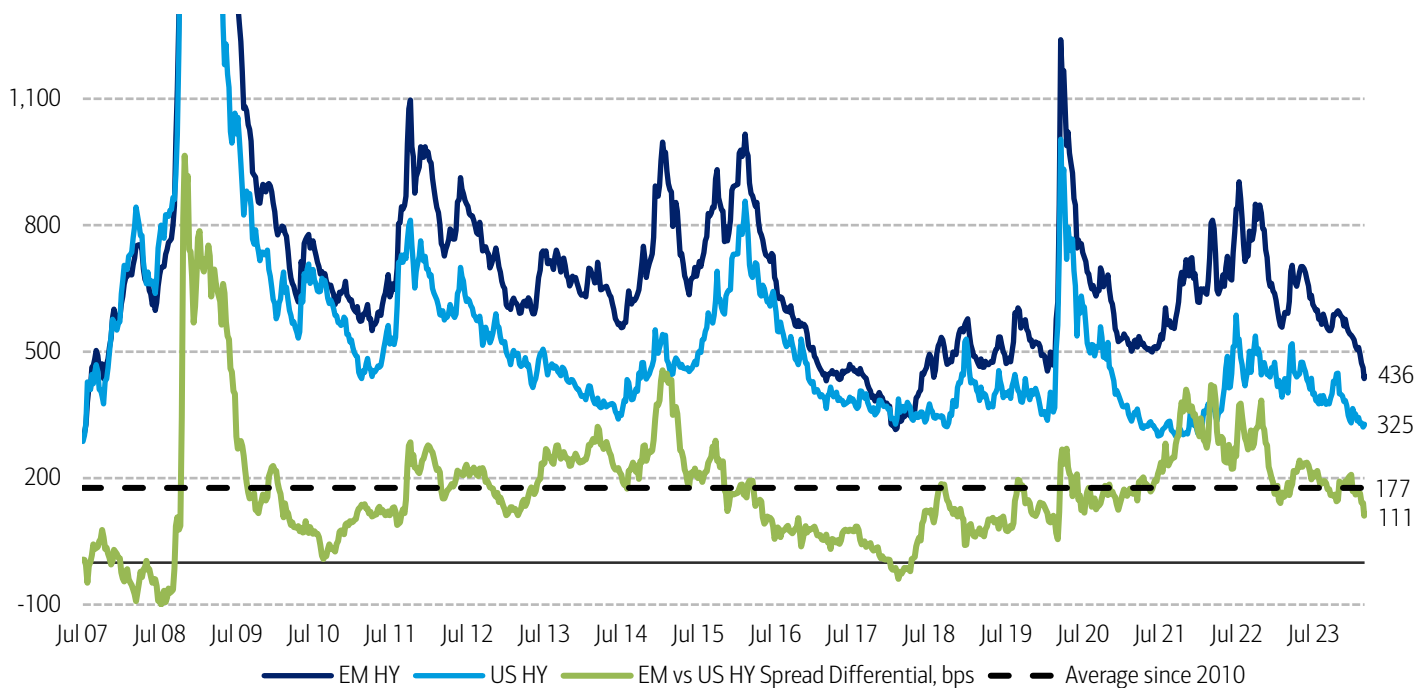


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 23: EM HY spread to US dipped in February

EM HY vs US HY OAS spread differential

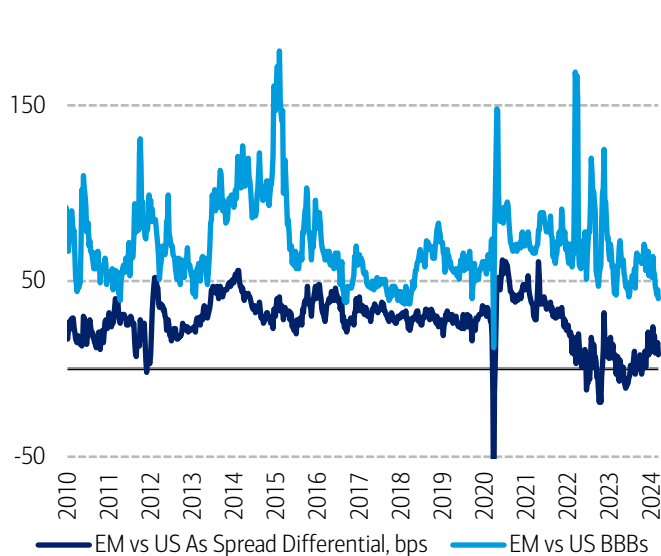


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 24: Relative spreads to US compressed in February for BBBs (now at 40bps) but remained steady for Single A's (8bps)

EM spread to US by rating in IG

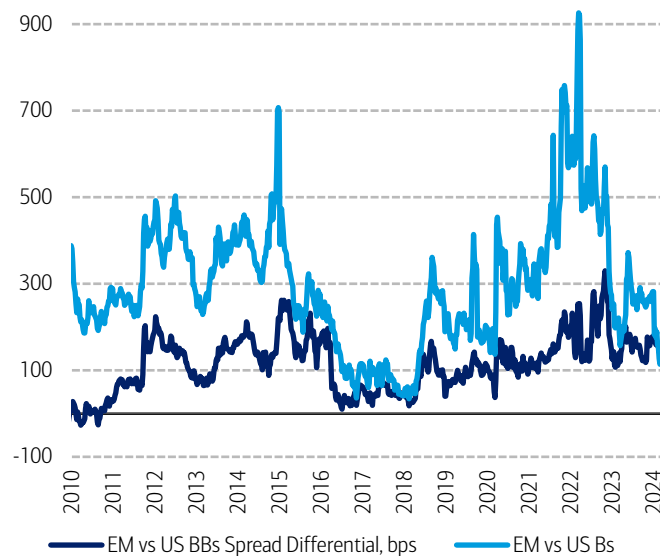


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 25: EM differential for single B's (118bps) lower than the differential for BB's (138bps)

EM spread to US by rating in HY

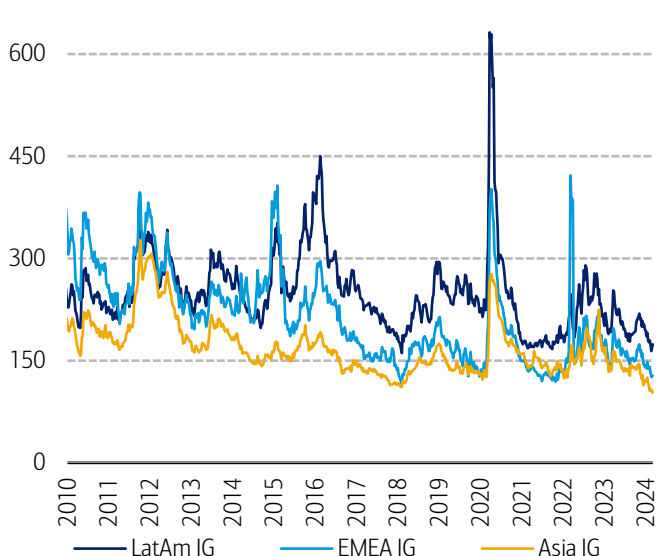


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 26: LatAm IG spreads remain wider to other regions and all regions IG spreads are the tighter end of 10-year history

EM IG aggregate spreads by region

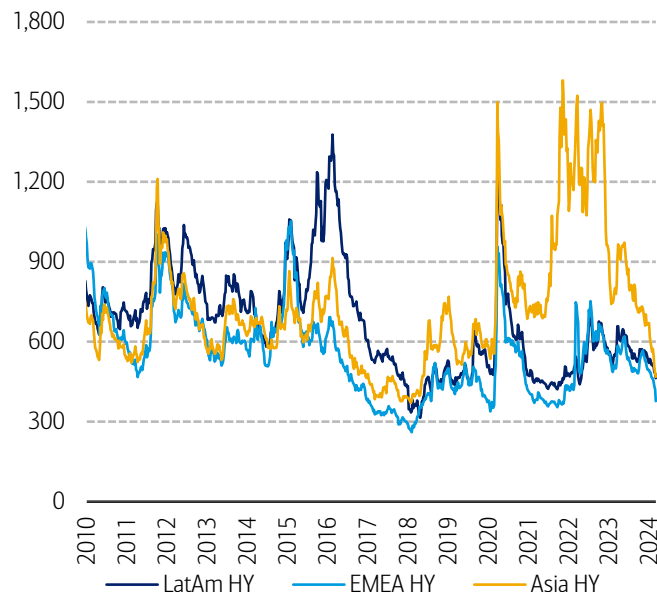


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 27: CEEMEA HY spreads compressed -44bps MoM, compared with -17bps for LatAm HY and -13bps for Asia HY

EM HY aggregate spreads by region

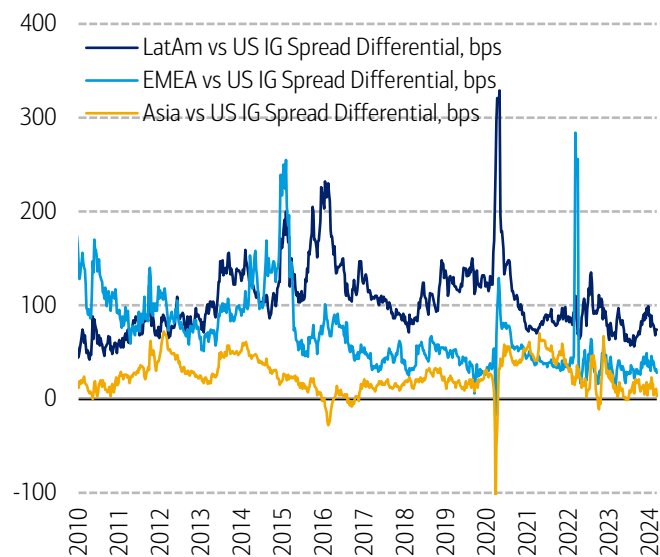


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 28: LatAm spreads to US IG wider than other regions

EM IG – US IG relative spreads by EM region

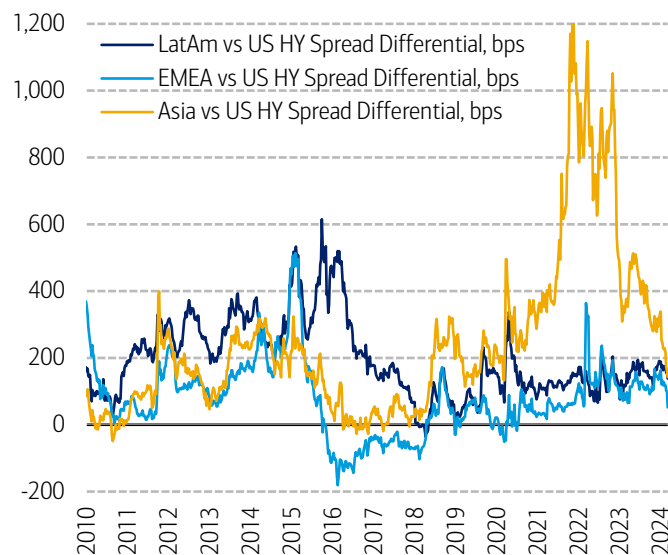


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 29: CEEMEA HY differential to US HY compressed -48bps MoM, and -21bps for LatAm HY, -17bps for Asia HY

EM IG – US HY relative spreads by EM region

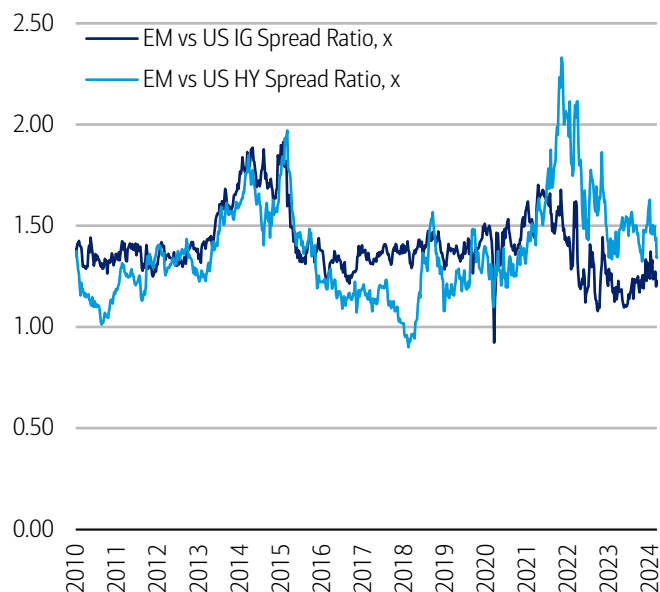


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 30: EM IG to US IG spread ratio has trended lower in last 3yrs

EM vs. US OAS spread ratios by Rating Grade

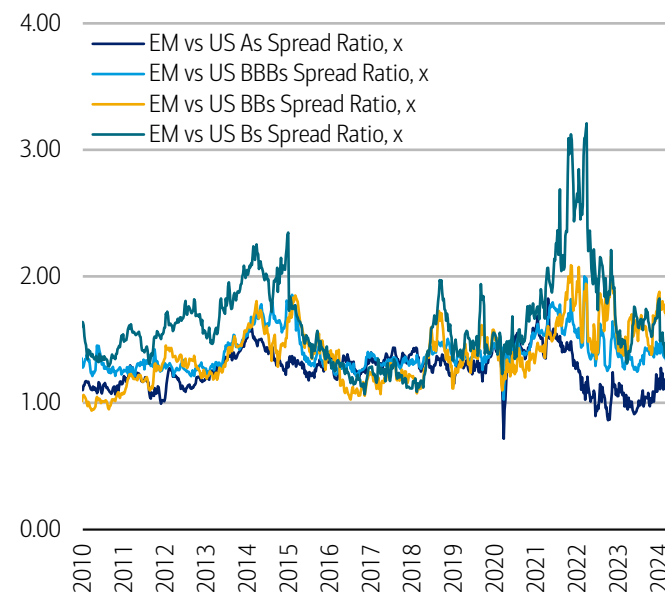


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 31: A-rated bonds drive the tight US-EM spread differential

EM vs. US OAS spread ratios by rating



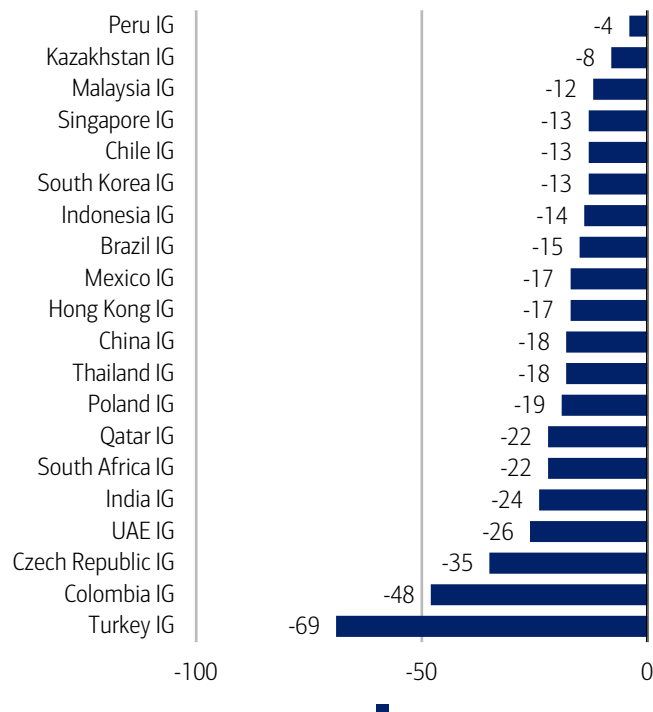
Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Country Level Spread Performance & Relative Value

Exhibit 32: Türkiye and Colombia IG names tightened most MTD

Index spread change of IG corporate bonds by country

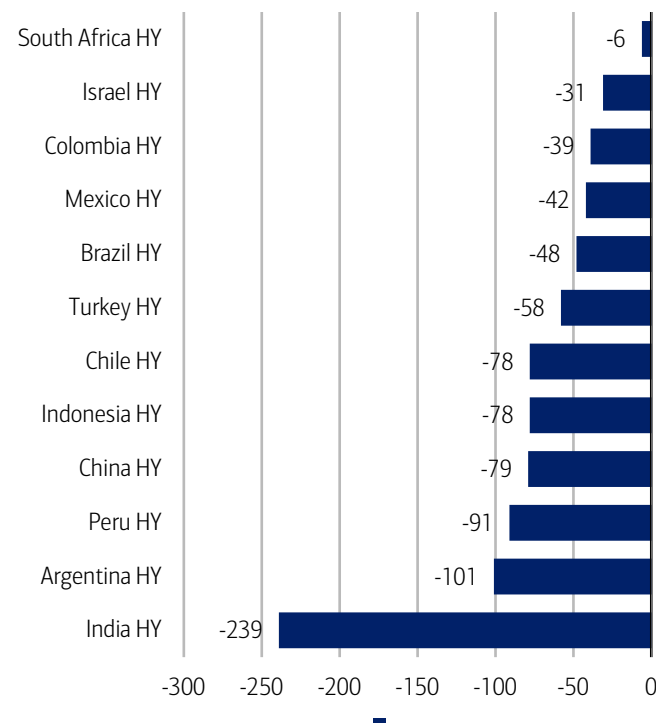


Source: ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 33: India HY and Argentina tightened the most MTD

Index spread change of HY corporate bonds by country

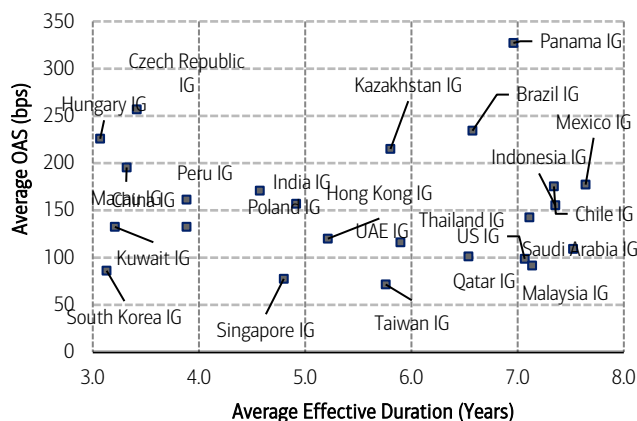


Source: ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 34: Panama IG spreads relatively wide

EM IG Country REL Val: duration (x-axis) vs. OAS (y-axis)

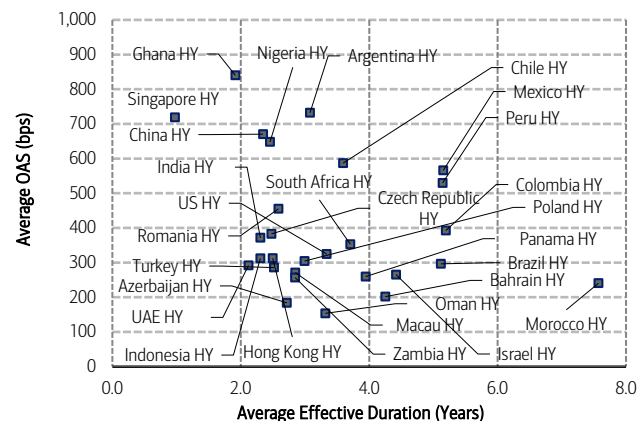


Source: ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 35: Most HY country indexes cluster in the 300-500bps range

EM HY Country REL Val: duration (x-axis) vs. OAS (y-axis)



Source: ICE Data Indices, LLC, BofA Global Research

*Not shown: countries with aggregate HY OAS > 1,000bps: Ukraine HY

BofA GLOBAL RESEARCH

Top & Bottom Bond Performers

Exhibit 36: Double-digit performance from 13 bonds MoM, mostly in distressed names

Top 25 EMCB index performers MoM by Total Return

Name	Bond ID	Crcy	Rtg	Country	Region	Sector	YTW	Price	OAS	1mo TR%
Global Logistic Properties Ltd	6FJL05XX	GLPSP	4.60	Jun 2027	USD	Real Estate	14.9	45	1,079	26.1
National Power Company Ukrenergo	63718LAA	NPCUKR	6.88	Nov 2028	USD	Agencies/Quasi	37.7	34	3,327	25.3
Emirates NBD Bank PJSC	BG070411	EBIUH	3.75	Mar 2040	USD	Financials	5.7	80	122	19.9
Mc Brazil Downstream Trading Sarl	55292WAA	MCBRAC	7.25	Jun 2031	USD	Energy	9.3	91	502	18.5
Abra Global Finance	000852AB	ABRAGF	11.50	Mar 2028	USD	Financials	16.6	86	1,217	15.0
VTR Finance N.V.	918374AA	VTRFIN	6.38	Jul 2028	USD	Media	30.5	44	2,615	14.9
New Metro Global Limited	6HF6HUXX	FTLNHD	4.63	Oct 2025	USD	Real Estate	93.6	32	8,873	14.4
Coruripe Netherlands BV	22088DAA	CORURI	10.00	Feb 2027	USD	Energy	13.8	91	924	14.0
Global Logistic Properties Ltd	EK932877	GLPSP	3.88	Jun 2025	USD	Real Estate	17.1	86	1,214	13.1
New Metro Global Limited	BN741023	FTLNHD	4.50	May 2026	USD	Real Estate	81.4	27	7,677	12.8
Global Logistic Properties Ltd	6A54AJXX	GLPSP	4.50	May 2026	USD	Real Estate	16.0	44	1,185	12.7
Pingan Real Estate Capital Ltd.	6JVYVMXX	PINGRE	3.45	Jul 2026	USD	Real Estate	12.3	82	774	11.8
Braskem Idesa SAPI	10554NAB	BAKIDE	6.99	Feb 2032	USD	Materials	12.6	72	838	10.9
Kernel Holding SA	49229QAC	KERPW	6.75	Oct 2027	USD	Food	16.8	73	1,237	9.7
Frontera Energy Corp.	35905BAC	FECCN	7.88	Jun 2028	USD	Energy	14.1	80	976	8.5
VTR Comunicaciones SpA	918367AA	VTRCOM	5.13	Jan 2028	USD	Media	19.4	62	1,502	8.1
Braskem Idesa SAPI	10554NAA	BAKIDE	7.45	Nov 2029	USD	Materials	13.8	76	948	8.0
Yanlord Land (HK) Co. Ltd.	67RJ4VXX	YLLGSP	5.13	May 2026	USD	Real Estate	19.5	75	1,490	7.6
Fortune Star (BVI) Limited	BN640981	FOSUNI	5.05	Jan 2027	USD	Capital Goods	12.9	81	839	7.6
Volcan Compania Minera S.A.A.	92863UAB	VOLCAN	4.38	Feb 2026	USD	Materials	31.7	62	2,694	7.5
BRF SA	10552TAH	BRFSBZ	5.75	Sep 2050	USD	Food	7.7	78	323	7.5
Petroleos del Peru - Petroperu SA	716564AB	PETRPE	5.63	Jun 2047	USD	Energy	8.9	68	440	7.3
Fortune Star (BVI) Limited	6FOQWDXX	FOSUNI	3.95	Oct 2026	EUR	Capital Goods	13.6	80	1,084	7.3
Petroleos del Peru - Petroperu SA	716564AA	PETRPE	4.75	Jun 2032	USD	Energy	8.5	78	422	6.9
VTR Comunicaciones SpA	918367AC	VTRCOM	4.38	Apr 2029	USD	Media	15.5	61	1,125	6.5

Source: ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 37: Worst performer MoM was in Chinese IG Real Estate

Bottom 25 EMCB Index performers MoM by Total Return

Name	Bond ID	Crcy	Rtg	Country	Region	Sector	YTW	Price	OAS	1mo TR%
Vanke Real Estate (Hong Kong)	ZQ436208	VNKRLE	3.50	Nov 2029	USD	Real Estate	20.1	45	1,586	-18.6
Vanke Real Estate (Hong Kong)	AP836979	VNKRLE	3.97	Nov 2027	USD	Real Estate	22.5	55	1,812	-12.7
Vanke Real Estate (Hong Kong)	ZQ436206	VNKRLE	3.15	May 2025	USD	Real Estate	30.6	74	2,571	-9.9
UPL Corp Ltd.	BG091488	UPLLIN	5.25	May 2025	USD	Materials	10.5	74	640	-7.8
Liquid Telecommunications	536333AB	LIQTEL	5.50	Sep 2026	USD	Telecommunications	31.1	58	2,655	-6.8
Agile Group Holdings Ltd.	ZO834600	AGILE	6.05	Oct 2025	USD	Real Estate	99.99	13	10,000	-5.5
Agile Group Holdings Ltd.	6J5U50XX	AGILE	5.50	Apr 2025	USD	Real Estate	100.0	15	10,000	-5.0
Total Play	89157FAC	TOTALP	6.38	Sep 2028	USD	Telecommunications	31.7	41	2,734	-4.6
CPI Property Group S.A.	BN617021	CPIPGR	3.75	Jul 2028	EUR	Real Estate	15.1	37	1,191	-4.2
Aeropuerto Int. de Tocumen.	00787CAD	AITOCU	4.00	Aug 2041	USD	Transportation	7.8	71	349	-4.0
UPL Corp Ltd.	AR559690	UPLLIN	4.50	Mar 2028	USD	Materials	8.4	87	405	-3.7
QNB Finance Ltd	ZO147569	QNBK	0.00	Sep 2060	USD	Financials	0.1	45	97	-3.7
QNB Finance Ltd	ZP525859	QNBK	0.00	Feb 2060	USD	Financials	5.7	64	57	-3.6
Aeropuerto Int.de Tocumen	00787CAE	AITOCU	5.13	Aug 2061	USD	Transportation	7.9	70	353	-3.6
UPL Corp Ltd.	BJ943073	UPLLIN	4.63	Jun 2030	USD	Materials	8.3	82	404	-3.6
Perusahaan Listrik Negara PT	71568PAP	PLNIJ	4.00	Jun 2050	USD	Utilities	6.3	71	177	-3.6
JBS USA	46590XAX	JBSSBZ	6.50	Dec 2052	USD	Food	6.8	96	239	-3.1
JBS USA	47214BAB	JBSSBZ	7.25	Nov 2053	USD	Food	6.9	105	248	-3.0
America Movil S.A.B. de C.V.	02364WAP	AMXLMM	6.13	Nov 2037	USD	Telecommunications	5.6	105	126	-3.0
Chile Electricity PEC S.p.A.	168831AA	CHIPEC	0.00	Jan 2028	USD	Utilities	12.8	78	848	-2.9
Perusahaan Listrik Negara PT	71568PAM	PLNIJ	4.38	Feb 2050	USD	Utilities	6.3	76	178	-2.9
Perusahaan Listrik Negara PT	71568PAK	PLNIJ	4.88	Jul 2049	USD	Utilities	6.3	82	185	-2.9
Celulosa Arauco Y Constitucion	151191BE	CELARA	4.25	Apr 2029	USD	Materials	6.4	91	211	-2.8
Coca-Cola FEMSA SAB de CV	191241AH	KOF	2.75	Jan 2030	USD	Food	5.1	88	88	-2.7
JBS USA	46590XAQ	JBSSBZ	4.38	Feb 2052	USD	Food	6.6	72	215	-2.7

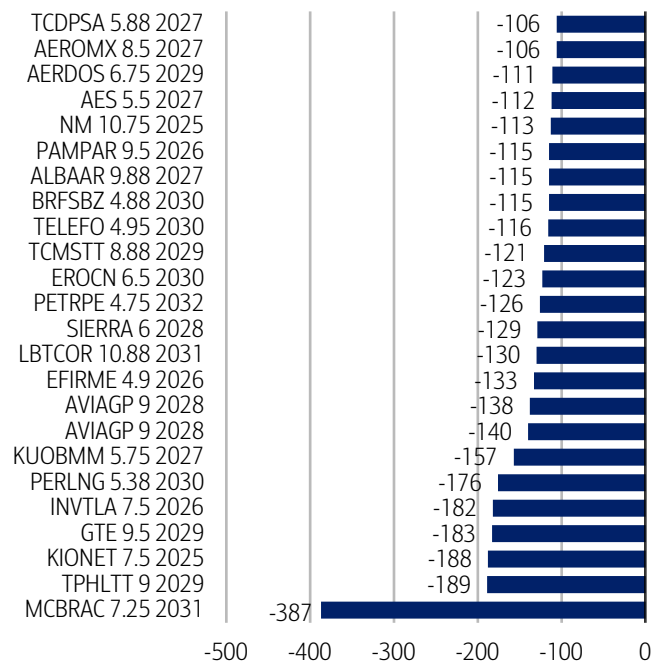
Source: ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH



Exhibit 38: LatAm: top spread performers (MoM bps OAS change)

MC Brazil 31 bonds tightened the most MoM

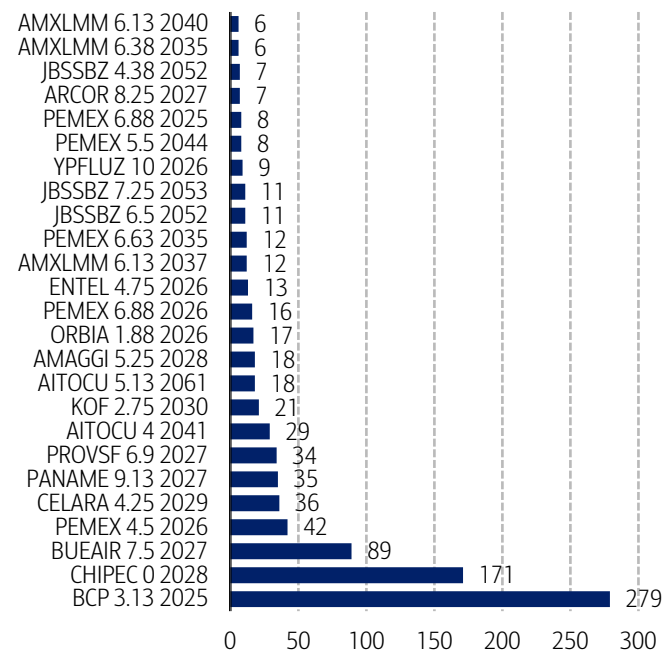


Source: ICE Data Indices, LLC, BofA Global Research.

BofA GLOBAL RESEARCH

Exhibit 39: LatAm: worst spread performers (MoM bps OAS chg.)

BCP 25s widened the most MoM

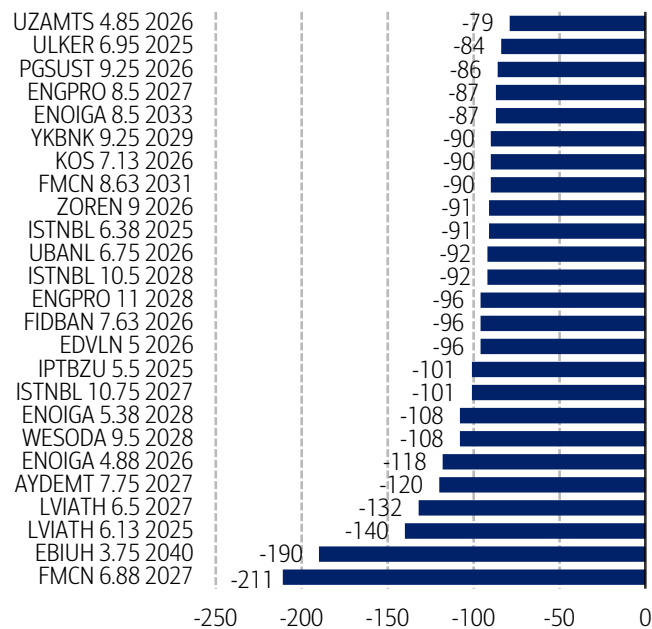


Source: ICE Data Indices, LLC, BofA Global Research.

BofA GLOBAL RESEARCH

Exhibit 40: EEMEA: top spread performers (MoM bps OAS change)

First Quantum 27s tightened the most MoM

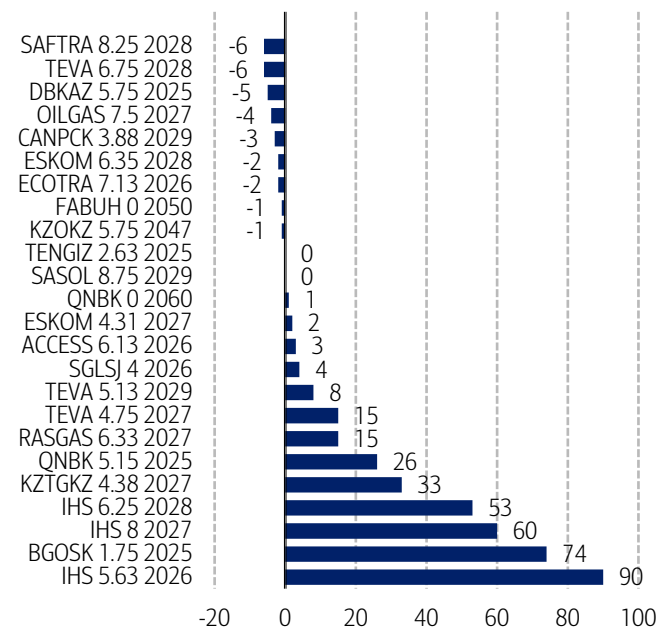


Source: ICE Data Indices, LLC, BofA Global Research.

BofA GLOBAL RESEARCH

Exhibit 41: EEMEA: worst spread performers (MoM bps OAS chg.)

HIS bonds widened the most MoM

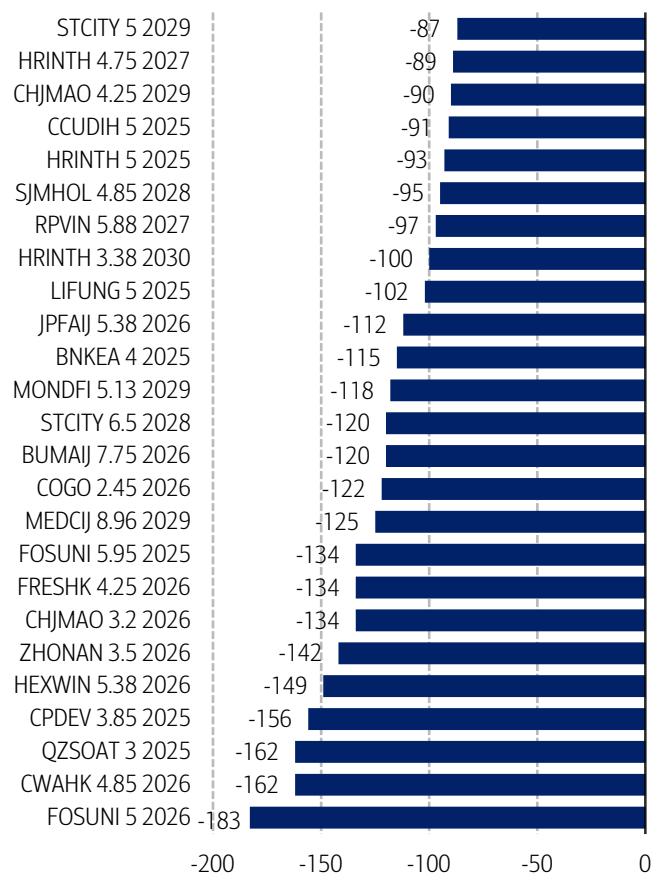


Source: ICE Data Indices, LLC, BofA Global Research.

BofA GLOBAL RESEARCH

Exhibit 42: Asia: top spread performers (MoM bps OAS change)

Fosuni 26s tightened the most MoM

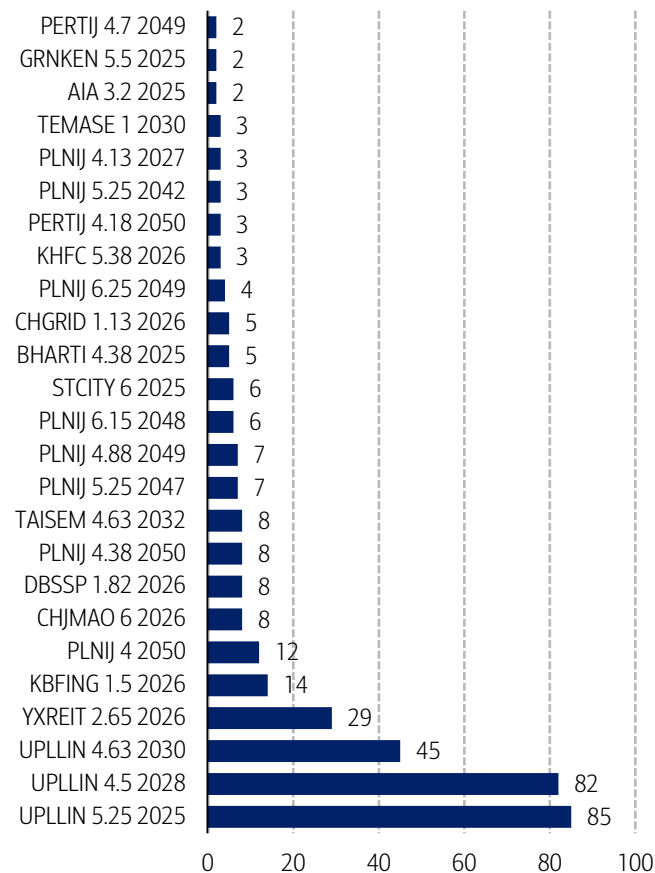


Source: ICE Data Indices, LLC, BofA Global Research.

BofA GLOBAL RESEARCH

Exhibit 43: Asia: worst spread performers (MoM bps OAS change)

UPL bonds widened the most MoM, following the Moody's downgrade



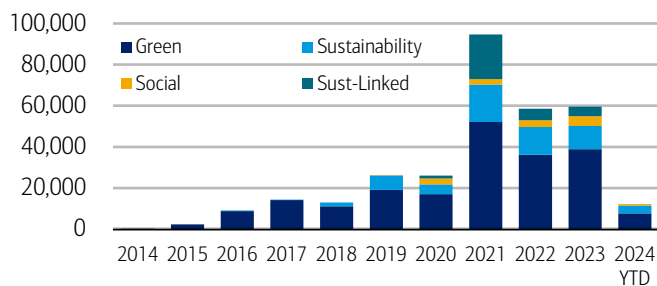
Source: ICE Data Indices, LLC, BofA Global Research.

BofA GLOBAL RESEARCH

Labeled bond issuance in Emerging Markets

Exhibit 44: EM Labeled bond issuance by type (\$mn)

EM Corporates have issued over \$12 bn in 2024 YTD



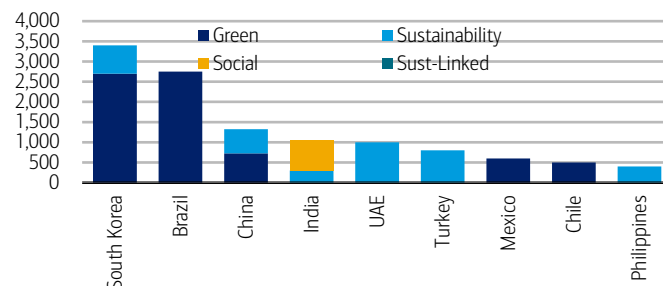
Source: BofA Global Research, Bloomberg

*Figures include USD/EUR issuance of min. \$100mn from EM corporates and financials

BofA GLOBAL RESEARCH

Exhibit 45: Biggest labeled bond issuers by country (2024 YTD)

South Korea leads labeled bond issuance YTD



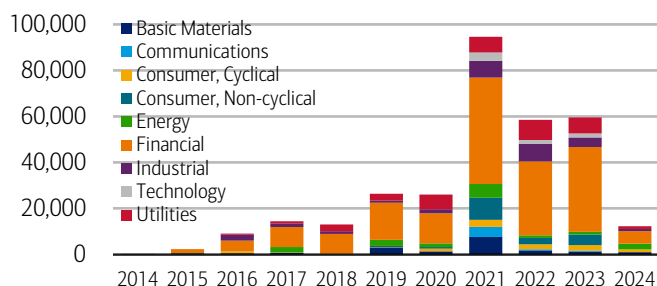
Source: BofA Global Research, Bloomberg

*Figures include USD/EUR issuance of min. \$100mn from EM corporates and financials

BofA GLOBAL RESEARCH

Exhibit 46: Financials represent the majority of labeled issuance

EM labeled EXT bond issuance by sector (\$mn)



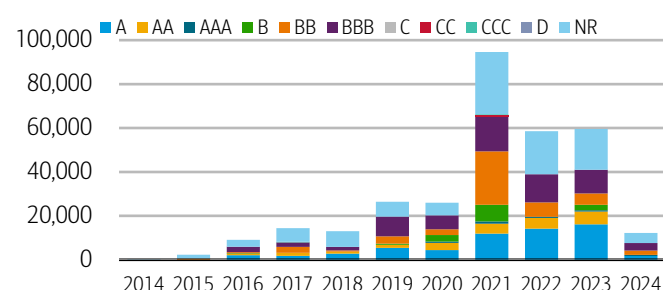
Source: BofA Global Research, Bloomberg

*Figures include USD/EUR issuance of min. \$100mn from EM corporates and financials

BofA GLOBAL RESEARCH

Exhibit 47: IG issuers represent about half of EM labeled issuance

EM labeled EXT bond issuance by risk rating (\$mn)



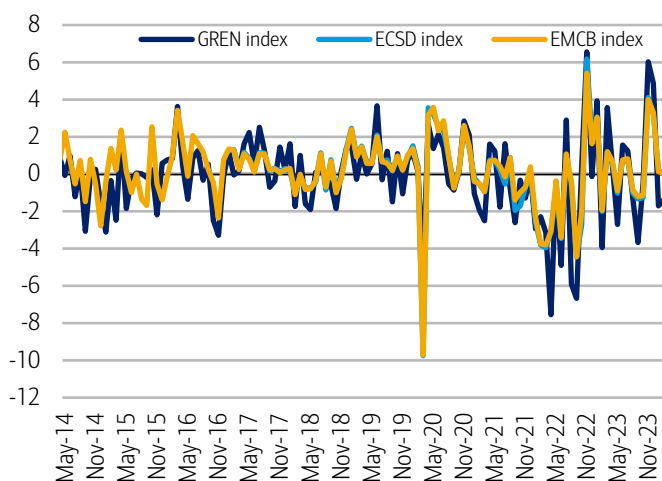
Source: BofA Global Research, Bloomberg

*Figures include USD/EUR issuance of min. \$100mn from EM corporates and financials

BofA GLOBAL RESEARCH

Exhibit 48: Labeled bond performance follows broader index

TRR% 1mo in USD

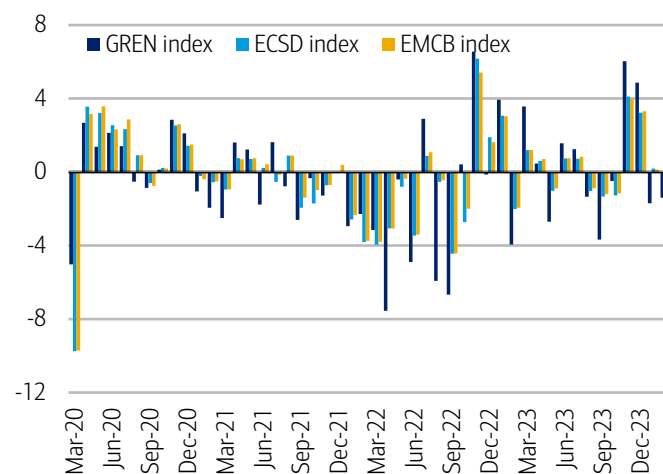


Source: ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 49: Labeled bond performance follows broader index

TRR% 1mo in USD



Source: ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 50: YTD Labeled Bond Issuance

List of Labeled EM Corporate Bonds Issued YTD

Issuer Name	Ticker	Issue date	Country of Risk	Industry	Amount MM	Cpn	Maturity	Currency	Type
Chile Government International Bond	CHILE	1/22/2024	CL	Government	1,700	4.85	1/22/2029	USD	Social bond
Export-Import Bank of Korea	EIBKOR	1/11/2024	KR	Government	800	4.63	1/11/2027	USD	Sustainability bond
Erste&Steiermaerkische Banka dd	ERSTEI	1/31/2024	HR	Financial	400	4.88	1/31/2029	EUR	Green bond
Ivory Coast Government International Bond	IVYCST	1/30/2024	CI	Government	1,100	7.63	1/30/2033	USD	Sustainability bond
Korea Electric Power Corp	KORELE	1/31/2024	KR	Utilities	1,200	4.88	1/31/2027	USD	Green bond
Mexico Government International Bond	MEX	1/25/2024	MX	Government	2,000	4.49	5/25/2032	EUR	Sustainability bond
POSCO	POHANG	1/23/2024	KR	Basic Materials	500	4.88	1/23/2027	USD	Green bond
Rizal Commercial Banking Corp	RCBPM	1/17/2024	PH	Financial	400	5.50	1/18/2029	USD	Sustainability bond
Hungary Government International Bond	REPHUN	1/25/2024	HU	Government	1,500	4.00	7/25/2029	EUR	Green bond
Shriram Finance Ltd	SHFLIN	1/22/2024	IN	Financial	750	6.63	4/22/2027	USD	Social bond
Shinhan Bank Co Ltd	SHNHAN	1/29/2024	KR	Financial	500	3.32	1/29/2027	EUR	Green bond
SK Battery America Inc	SKBTAM	1/23/2024	KR	Energy	500	4.88	1/23/2027	USD	Green bond
Shaoxing Shangyu State-owned Capital Investment Operation Co Ltd	SYSTIO	1/30/2024	CN	Consumer, Cyclical	300	5.60	1/30/2027	USD	Sustainability bond
TC Ziraat Bankasi AS	TCZIRA	1/16/2024	TR	Financial	500	8.00	1/16/2029	USD	Sustainability bond
Woori Bank	WOORIB	1/24/2024	KR	Financial	300	4.75	1/24/2027	USD	Sustainability bond
Woori Bank	WOORIB	1/24/2024	KR	Financial	400	4.75	1/24/2029	USD	Sustainability bond
Zhejiang Xinchang Investment Development Co Ltd	ZJXCID	1/11/2024	CN	Consumer, Cyclical	300	6.00	1/11/2027	USD	Sustainability bond
Ambipar Lux Sarl	AMBIBZ	2/6/2024	BR	Industrial	750	9.88	2/6/2031	USD	Green bond
Inversiones CMPC SA	CMPCCI	2/26/2024	CL	Basic Materials	500	6.13	2/26/2034	USD	Green bond
Haichuan International Investment Co Ltd	FANGYA	2/5/2024	CN	Consumer, Cyclical	150	5.45	2/5/2027	USD	Green bond
FS Luxembourg Sarl	FSBIOE	2/12/2024	BR	Energy	500	8.88	2/12/2031	USD	Green bond
Trust Fibra Uno	FUNOTR	2/13/2024	MX	Financial	600	7.38	2/13/2034	USD	Green bond
Science City Guangzhou Investment Group Co Ltd	GZDZCD	2/5/2024	CN	Consumer, Cyclical	400	6.80	8/5/2025	USD	Green bond
HDFC Bank Ltd	HDFCB	2/15/2024	IN	Financial	300	5.20	2/15/2027	USD	Sustainability bond
Hong Kong Government International Bond	HKINTL	2/7/2024	HK	Government	200	4.63	2/7/2026	USD	Green bond
Ji'an Chengtong Holding Group Co Ltd	JNCCIH	2/2/2024	CN	Industrial	174	7.50	2/2/2027	USD	Green bond
Korea Housing Finance Corp	KHFC	2/27/2024	KR	Government	500	4.88	8/27/2027	USD	Social bond
Romanian Government International Bond	ROMANI	2/22/2024	RO	Government	2,000	5.63	2/22/2036	EUR	Green bond
Turkiye Vakiflar Bankasi TAO	VAKBN	2/27/2024	TR	Financial	100	5.25	3/6/2025	EUR	Sustainability bond
Turkiye Vakiflar Bankasi TAO	VAKBN	2/29/2024	TR	Financial	100	5.25	3/8/2025	EUR	Sustainability bond
DIB Sukuk Ltd	DIBUH	3/4/2024	AE	Financial	1,000	5.24	3/4/2029	USD	Sustainability bond
Raizen Fuels Finance SA	RAIZBZ	3/5/2024	BR	Energy	1,000	6.45	3/5/2034	USD	Green bond
Raizen Fuels Finance SA	RAIZBZ	3/5/2024	BR	Energy	500	6.95	3/5/2054	USD	Green bond
Finance Department Government of Sharjah	SHJGOV	3/6/2024	AE	Government	750	6.13	3/6/2036	USD	Sustainability bond
Turkiye Vakiflar Bankasi TAO	VAKBN	3/4/2024	TR	Financial	100	5.25	3/11/2025	EUR	Sustainability bond

Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH



New Issuance

Exhibit 51: EM Corporate and Sovereign USD/EUR New Issuance Roundup (US\$ bn)

EM Corporate issuance amounts to US\$142.6bn YTD in 2024

US\$ billion	Global EM Corp	Asia	EEMEA	LatAm	IG	HY	Sov	Corp and Sov
Wk Mar 01	6.9	1.4	4.0	1.5	5.8	0.0	4.0	10.9
Wk Feb 23	3.8	0.8	2.5	0.5	3.0	0.8	3.1	6.9
Wk Feb 09	12.9	4.8	5.5	2.6	11.1	1.8	8.6	21.6
Wk Feb 02	5.6	2.0	1.3	2.3	2.2	2.8	0.0	5.6
MTD Feb	24.1	7.0	12.0	5.1	19.9	3.1	21.6	45.7
January	50.3	19.6	17.4	13.3	37.2	11.4	46.6	96.9
December	2.3	1.5	0.8	0.0	1.6	0.0	0.4	2.7
November	16.9	7.7	7.5	1.6	12.3	3.4	18.2	35.1
YTD 2024	74.5	26.6	29.5	18.3	57.1	14.5	68.1	142.6
YTD 2023	57.3	26.0	20.9	10.4	47.6	8.4	58.8	116.1
YTD 2022	72.7	45.9	14.7	12.1	58.2	9.0	30.2	102.8
YTD 2021	118.9	74.0	25.5	19.3	73.3	37.3	53.6	172.4
YTD 2020	123.2	72.5	24.5	26.2	68.4	47.0	41.2	164.4
Y/Y % Chg	+30.0%	+2.5%	+41.0%	+76.2%	+19.9%	+73.0%	+15.8%	+22.8%
FY 2023	227.3	107.3	86.8	33.2	179.5	38.6	138.1	365.4
FY 2022	203.5	140.7	39.2	23.6	161.2	15.8	100.2	303.7
FY 2021	513.5	298.1	136.2	79.2	318.1	154.8	182.2	695.6

Source: BofA Global Research, Bloomberg

*IG + HY does not include unrated bonds

BofA GLOBAL RESEARCH

Exhibit 52: New issuance detail in the past two months

New Issuance detail, EM Corporates USD and EUR denominated

Date	Name	Ticker	Coupon	Maturity	Crcncy	Rating	Country	Region	Category	Price	Par
2/28/2024	ALINMA TIER 1 SUKUK LTD	ALINMA	6.50	Perp	USD	NR	SAUDI ARABIA	EEMEA	Financial	100.0	1,000
2/28/2024	NANKAI GROUP	JINKGR	5.25	2027	USD	NR	CHINA	ASIA	Corporate	100.0	68
2/28/2024	METROPOLITAN BANK & TRUS	MBTPM	5.38	2029	USD	BBB	PHILIPPINES	ASIA	Financial	99.9	500
2/28/2024	METROPOLITAN BANK & TRUS	MBTPM	5.50	2034	USD	BBB	PHILIPPINES	ASIA	Financial	99.3	500
2/28/2024	RAIZEN FUELS FINANCE	RAIZBZ	6.45	2034	USD	BBB	BRAZIL	Latam	Corporate	99.7	1,000
2/28/2024	RAIZEN FUELS FINANCE	RAIZBZ	6.95	2054	USD	BBB	BRAZIL	Latam	Corporate	98.5	500
2/27/2024	SUCI SECOND INVEST CO	PIFKSA	5.17	2031	USD	A	SAUDI ARABIA	EEMEA	Agency	100.0	2,000
2/27/2024	TIANFENG SEC CO	TIANFS	6.50	2026	USD	BBB	CHINA	ASIA	Financial	99.4	300
2/26/2024	DIB SUKUK LTD	DIBUH	5.24	2029	USD	A	UNITED ARAB EMIRATES	EEMEA	Financial	100.0	1,000
2/22/2024	BINGHATTI SUKUK SPC LTD	BINHLD	9.63	2027	USD	B	UAE	EEMEA	Corporate	100.0	300
2/22/2024	SHINHAN CARD CO LTD	SHINCA	5.50	2029	USD	A	KOREA	ASIA	Financial	99.7	300
2/21/2024	INVERSIONES CMPC SA	CMPCCI	6.13	2034	USD	BBB	CHILE	Latam	Corporate	99.6	500
2/21/2024	FIRST ABU DHABI BANK PJS	FABUH	5.00	2029	USD	AA	UAE	EEMEA	Financial	99.3	850
2/21/2024	TURKIYE GARANTI BANKASI	GARAN	8.38	2034	USD	B	TURKIYE	EEMEA	Financial	100.0	500
2/20/2024	KOREA HOUSING FINANCE CO	KHFC	4.88	2027	USD	AA	KOREA	ASIA	Agency	99.8	500
2/20/2024	SNB SUKUK LTD	SNBAB	5.13	2029	USD	A	SAUDI ARABIA	EEMEA	Financial	100.0	850
2/19/2024	ZHEJIANG ANJI CONSTRUCT	ZHJNGC	6.30	2025	EUR	NR	CHINA	ASIA	Muni/Local Gov't	100.0	43
2/8/2024	CSN RESOURCES SA	CSNABZ	8.88	2030	USD	BB	BRAZIL	Latam	Corporate	102.6	200
2/8/2024	WE SODA INV HOLDING PLC	WESODA	9.38	2031	USD	BB	TURKIYE	EEMEA	Corporate	100.0	500
2/7/2024	BANK GOSPODARSTWA KRAJOW	BGOSK	3.25	2028	EUR	NR	POLAND	EEMEA	Agency	0.0	0
2/7/2024	DBS BANK LTD	DBSSP	3.03	2026	EUR	AAA	SINGAPORE	ASIA	Financial	100.0	1,078
2/7/2024	ESIC SUKUK LTD	ESICSU	5.83	2029	USD	BBB	UNITED ARAB EMIRATES	EEMEA	Financial	100.0	700
2/7/2024	TRUST FIBRAUNO	FUNOTR	7.38	2034	USD	BBB	MEXICO	Latam	Corporate	100.0	600
2/7/2024	ICDPS SUKUK LTD	ISCODV	4.95	2029	USD	A	SAUDI ARABIA	EEMEA	Agency	100.0	500
2/7/2024	MAZOOON ASSETS CO SAOC	MAZOOON	5.50	2029	USD	BB	OMAN	EEMEA	Corporate	99.4	500
2/7/2024	TURKIYE VARLIK FONU	TURKWF	8.25	2029	USD	B	TURKIYE	EEMEA	Agency	99.5	500
2/6/2024	CORP ANDINA DE FOMENTO	CAF	3.63	2030	EUR	AA	LATAM MULTINATIONAL	Latam	Agency	99.5	1,613
2/6/2024	HDFC BANK LTD	HDFCB	5.20	2027	USD	BBB	INDIA	ASIA	Financial	100.0	300
2/6/2024	HDFC BANK LTD	HDFCB	5.18	2029	USD	BBB	INDIA	ASIA	Financial	100.0	450



Exhibit 52: New issuance detail in the past two months

New Issuance detail, EM Corporates USD and EUR denominated

Date	Name	Ticker	Coupon	Maturity	Crncy	Rating	Country	Region	Category	Price	Par
2/6/2024	KOREA DEVELOPMENT BANK	KDB	4.63	2027	USD	AA	KOREA	ASIA	Agency	99.8	1,750
2/6/2024	KOREA DEVELOPMENT BANK	KDB	4.50	2029	USD	AA	KOREA	ASIA	Agency	99.6	1,250
2/6/2024	P3 GROUP SARL	PTHREE	4.63	2030	EUR	BBB	CZECH REPUBLIC	EEMEA	Corporate	99.6	645
2/6/2024	SAUDI ELECTRICITY SUKUK	SECO	4.94	2029	USD	A	SAUDI ARABIA	EEMEA	Corporate	100.0	800
2/6/2024	SAUDI ELECTRICITY SUKUK	SECO	5.19	2034	USD	A	SAUDI ARABIA	EEMEA	Corporate	100.0	1,400
2/5/2024	AZUL SECURED FINANCE LLP	AZUBBZ	11.93	2028	USD	B	BRAZIL	Latam	Corporate	100.6	149
2/1/2024	BANC CREDITO INVERSIONES	BCICI	8.75	Perp	USD	BB	CHILE	Latam	Financial	100.0	500
1/31/2024	SCIENCE CITY GZ INV GRP	GZDZCD	6.80	2025	USD	BBB	CHINA	ASIA	Muni/Local Gov't	100.0	400
1/31/2024	HUATONG INTNL INV HLDNS	QDHTCO	6.80	2027	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	280
1/30/2024	AMBIPAR LUX SARL	AMBIBZ	9.88	2031	USD	BB	BRAZIL	Latam	Corporate	100.0	750
1/30/2024	CTP NV	CTPNV	4.75	2030	EUR	BBB	CZECH REPUBLIC	EEMEA	Corporate	99.7	813
1/30/2024	TURK IHRACAT KR BK	EXCRTU	7.50	2028	USD	B	TURKEY	EEMEA	Agency	99.2	500
1/30/2024	FS LUXEMBOURG SARL	FSBIOE	8.88	2031	USD	BB	BRAZIL	Latam	Corporate	98.7	500
1/30/2024	JIAN CHENGTOU HOLDING	JNCCIH	7.50	2027	USD	NR	CHINA	ASIA	Corporate	100.0	174
1/29/2024	HAICHUAN INTL INVESTMENT	FANGYA	5.45	2027	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	150
1/29/2024	HYUNDAI CAPITAL SERVICES	HYUCAP	5.13	2027	USD	BBB	KOREA	ASIA	Financial	99.7	500
1/29/2024	HYUNDAI CAPITAL SERVICES	HYUCAP	5.13	2029	USD	BBB	KOREA	ASIA	Financial	99.6	500
1/29/2024	3R LUX SARL	RRRPBZ	9.75	2031	USD	B	BRAZIL	Latam	Corporate	99.4	500
1/26/2024	UNITED GROUP BV	ADRBID	4.25	2029	EUR	B	SERBIA	EEMEA	Corporate	100.0	521
1/26/2024	CHANG DEVELOPMENT INT	CCUDIH	7.00	2026	USD	BBB	CHINA	ASIA	Muni/Local Gov't	100.0	100
1/26/2024	CISI FINANCIAL GROUP LTD	CISIFG	SOFR+90	2027	USD	BBB	CHINA	ASIA	Financial	100.0	300
1/25/2024	JOY TRSR ASSETS HLD	ORIEAS	5.50	2027	USD	BBB	CHINA	ASIA	Financial	99.3	550
1/25/2024	RUDONG JINXIN TRA ENG	RUDOTR	5.50	2027	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	50
1/25/2024	SHANGYU ST INV OPE	SYSTIO	5.60	2027	USD	BBB	CHINA	ASIA	Muni/Local Gov't	100.0	300
1/24/2024	UNITED GROUP BV	ADRBID	6.75	2031	EUR	B	SERBIA	EEMEA	Corporate	100.0	326
1/24/2024	UNITED GROUP BV	ADRBID	E+425	2031	EUR	B	SERBIA	EEMEA	Corporate	100.0	707
1/24/2024	SUMMER BIDCO BV	ADRBID	10.00	2029	EUR	B	SERBIA	EEMEA	Corporate	100.0	326
1/24/2024	KOREA ELECTRIC POWER CO	KORELE	4.88	2027	USD	AA	KOREA	ASIA	Corporate	99.8	1,200
1/23/2024	CODELCO INC	CDEL	6.44	2036	USD	BBB	CHILE	Latam	Corporate	99.9	1,500
1/23/2024	CODELCO INC	CDEL	6.30	2053	USD	A	CHILE	Latam	Corporate	99.6	500
1/23/2024	COSAN LUXEMBOURG SA	CSANBZ	7.25	2031	USD	BB	BRAZIL	Latam	Corporate	99.3	600
1/23/2024	HAINAN STATE FARM CAP	HNFARM	6.20	2027	USD	BBB	CHINA	ASIA	Corporate	100.0	300
1/23/2024	NOT APPLICABLE	MISTAK	4.88	2029	USD	A	QATAR	EEMEA	Financial	99.2	1,000
1/23/2024	OTP BANK NYRT	OTPHB	5.00	2029	EUR	BBB	HUNGARY	EEMEA	Financial	99.9	651
1/22/2024	MIRAE ASSET SECURITIES	DAESEC	5.88	2027	USD	BBB	KOREA	ASIA	Financial	99.3	300
1/22/2024	MIRAE ASSET SECURITIES	DAESEC	6.00	2029	USD	BBB	KOREA	ASIA	Financial	99.0	300
1/22/2024	ERSTE&STEIERMAR BANK DD	ERSTEI	4.88	2029	EUR	A	CROATIA	EEMEA	Financial	99.9	435
1/22/2024	GACI FIRST INVESTMENT	PIFKSA	5.00	2029	USD	A	SAUDI ARABIA	EEMEA	Agency	99.2	1,750
1/22/2024	GACI FIRST INVESTMENT	PIFKSA	5.25	2034	USD	A	SAUDI ARABIA	EEMEA	Agency	97.7	1,750
1/22/2024	GACI FIRST INVESTMENT	PIFKSA	5.38	2054	USD	A	SAUDI ARABIA	EEMEA	Agency	86.6	1,500
1/22/2024	SHINHAN BANK	SHNHAN	3.32	2027	EUR	AAA	KOREA	ASIA	Financial	100.0	544
1/18/2024	ARAB BK ECO DEV AFRICA	ARBBNK	3.75	2027	EUR	AA	CEEMEA multilateral	EEMEA	Agency	99.8	544
1/18/2024	BSF SUKUK LIMITED	BSFR	5.00	2029	USD	A	SAUDI ARABIA	EEMEA	Financial	99.6	700
1/18/2024	CENTRAL AMERICAN BANK	CABEI	5.00	2027	USD	AA	LATAM multilateral	Latam	Agency	99.7	1,350
1/17/2024	AGRICULTURAL BK CHINA/NY	AGRBK	SOFR+63	2027	USD	A	CHINA	ASIA	Financial	100.0	600
1/17/2024	CORP ANDINA DE FOMENTO	CAF	5.00	2029	USD	AA	LATAM multilateral	Latam	Agency	99.7	1,750
1/17/2024	NOVA LJUBLJANSKA BANK	NOVALJ	6.88	2034	USD	BB	SLOVENIA	EEMEA	Financial	100.0	300
1/17/2024	OTEL SUKUK LTD	OTELSU	5.38	2031	USD	BB	OMAN	EEMEA	Corporate	100.0	500
1/17/2024	QIIB SENIOR ORYX LTD	QIIBQD	5.25	2029	USD	A	QATAR	EEMEA	Financial	100.0	500
1/17/2024	WOORI BANK	WOORIB	4.75	2027	USD	A	KOREA	ASIA	Financial	99.6	300
1/17/2024	WOORI BANK	WOORIB	4.75	2029	USD	A	KOREA	ASIA	Financial	99.5	400
1/16/2024	POSCO	POHANG	4.88	2027	USD	BBB	KOREA	ASIA	Corporate	99.5	500
1/16/2024	SATS TREASURY PTE LTD	SATSSP	4.83	2029	USD	A	SINGAPORE	ASIA	Corporate	100.0	500
1/16/2024	SHIRAM FINANCE LTD	SHFLIN	3.25	2027	USD	BB	INDIA	ASIA	Financial	100.0	750
1/16/2024	SK BATTERY AMERICA INC	SKENER	4.88	2027	USD	AA	KOREA	ASIA	Corporate	99.7	500
1/16/2024	SNB FUNDING LTD	SNBAB	SOFR+127	2029	USD	NR	SAUDI ARABIA	EEMEA	Financial	100.0	100
1/16/2024	BUFFALO ENERGY MX HLDGS	VALIAE	7.88	2039	USD	BBB	MEXICO	Latam	Corporate	100.0	530
1/15/2024	FIRST ABU DHABI BANK PJS	FABUH	SOFR+120	2029	USD	AA	UAE	EEMEA	Financial	100.0	600
1/11/2024	HUAXIN PHARMACEUTICAL HK	TAIHUA	5.55	2027	USD	NR	CHINA	ASIA	Corporate	100.0	60
1/10/2024	CICC HK FINANCE 2016 MTN	CICCHK	5.01	2027	USD	BBB	CHINA	ASIA	Financial	100.0	500
1/10/2024	CICC HK FINANCE 2016 MTN	CICCHK	SOFR+95	2027	USD	BBB	CHINA	ASIA	Financial	100.0	700
1/10/2024	KFH SUKUK CO	KFHKK	5.01	2029	USD	A	KUWAIT	EEMEA	Financial	100.0	1,000
1/10/2024	RIZAL COMMERCIAL BANKING	RCBPM	5.50	2029	USD	BBB	PHILIPPINES	ASIA	Financial	99.5	400
1/10/2024	STATE BANK INDIA/LONDON	SBIIN	5.00	2029	USD	BBB	INDIA	ASIA	Financial	99.5	600

Exhibit 52: New issuance detail in the past two months

New Issuance detail, EM Corporates USD and EUR denominated

Date	Name	Ticker	Coupon	Maturity	Crncy	Rating	Country	Region	Category	Price	Par
1/10/2024	TURK EKONOMI BANKASI AS	TEBNK	9.38	2034	USD	CCC	TURKEY	EEMEA	Financial	100.0	400
1/10/2024	YPF SOCIEDAD ANONIMA	YPFDAR	9.50	2031	USD	CCC	ARGENTINA	Latam	Corporate	99.1	800
1/9/2024	BOC AVIATION USA CORP	BOCAVI	5.00	2029	USD	A	SINGAPORE	ASIA	Corporate	98.9	500
1/9/2024	ECOPETROL SA	ECOPET	8.38	2036	USD	BB	COLOMBIA	Latam	Corporate	99.4	1,850
1/9/2024	JIAN CHENGTOU HOLDING	JNCCIH	5.55	2027	USD	NR	CHINA	ASIA	Corporate	100.0	96
1/9/2024	HANWHA TOTALENERGIES	SAMTOT	5.50	2029	USD	BBB	KOREA	ASIA	Corporate	99.9	400
1/9/2024	YAPI VE KREDI BANKASI AS	YKBK	9.25	2034	USD	CCC	TURKEY	EEMEA	Financial	100.0	650
1/8/2024	CESKA SPORITELNA AS	CESSPO	4.82	2030	EUR	A	CZECH REPUBLIC	EEMEA	Financial	100.0	548
1/8/2024	FAB SUKUK COMPANY LTD	FABUH	4.78	2029	USD	AA	UAE	EEMEA	Financial	100.0	800
1/8/2024	SK HYNIX INC	HYUELE	5.50	2027	USD	BBB	KOREA	ASIA	Corporate	99.9	500
1/8/2024	SK HYNIX INC	HYUELE	5.50	2029	USD	BBB	KOREA	ASIA	Corporate	99.5	1,000
1/8/2024	TC ZIRAAT BANKASI AS	TCZIRA	8.00	2029	USD	B	TURKEY	EEMEA	Financial	99.5	500
1/8/2024	ZJ XINCHANG INV DEV CO	ZJXCID	6.00	2027	USD	NR	CHINA	ASIA	Corporate	100.0	300
1/5/2024	JIANGSU DONGHE INV GROUP	JDIGCL	3.75	2027	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	360
1/4/2024	BANCO DE CREDITO DEL PER	BCP	5.85	2029	USD	BBB	PERU	Latam	Financial	99.9	500
1/4/2024	BIMBO BAKERIES USA INC	BIMBOA	6.05	2029	USD	BBB	MEXICO	Latam	Corporate	103.9	450
1/4/2024	BIMBO BAKERIES USA INC	BIMBOA	5.38	2036	USD	BBB	MEXICO	Latam	Corporate	98.9	800
1/4/2024	EXPORT-IMPORT BANK KOREA	EIBKOR	4.63	2027	USD	AA	KOREA	ASIA	Agency	99.8	800
1/4/2024	EXPORT-IMPORT BANK KOREA	EIBKOR	4.50	2029	USD	AA	KOREA	ASIA	Agency	99.5	800
1/4/2024	EXPORT-IMPORT BANK KOREA	EIBKOR	4.63	2034	USD	AA	KOREA	ASIA	Agency	99.1	400
1/4/2024	GOLDEN DRAGON MOUNTAIN	JNZQHD	5.90	2024	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	119
1/3/2024	BBVA BANCOMER SA TEXAS	BBVASM	8.13	2039	USD	BB	MEXICO	Latam	Financial	100.0	900
1/3/2024	HYUNDAI CAPITAL AMERICA	HYNMTR	SOFR+150	2027	USD	BBB	KOREA	ASIA	Financial	100.0	300
1/3/2024	HYUNDAI CAPITAL AMERICA	HYNMTR	5.25	2027	USD	BBB	KOREA	ASIA	Financial	99.6	1,000
1/3/2024	HYUNDAI CAPITAL AMERICA	HYNMTR	5.30	2029	USD	BBB	KOREA	ASIA	Financial	99.8	700
1/3/2024	HYUNDAI CAPITAL AMERICA	HYNMTR	5.40	2031	USD	BBB	KOREA	ASIA	Financial	99.6	500
1/2/2024	UETD CON&DEV CAP INVEST	UECTED	7.50	2027	USD	NR	CHINA	ASIA	Corporate	100.0	75
12/28/2023	RUDONG JINXIN TRA ENG	RUDOTR	5.60	2027	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	57
12/27/2023	BANK GOSPODARSTWA KRAJOW	BGOSK	1.62	2027	EUR	A	POLAND	EEMEA	Agency	94.1	106
12/27/2023	RUDONG JINXIN TRA ENG	RUDOTR	6.45	2027	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	43
12/21/2023	LUSO INTL BANKING	LUSOIB	7.50	2034	USD	NR	CHINA	ASIA	Financial	100.0	150
12/20/2023	ISDB TRUST NO 2	ISDB	4.91	2028	USD	AAA	CEEMEA multilateral	EEMEA	Agency	100.0	200
12/19/2023	CIXI SO OVERSEAS DEV	CIXISO	5.80	2026	USD	BBB	CHINA	ASIA	Muni/Local Gov't	100.0	200
12/15/2023	BNP PARIBAS ISSUANCE BV	BNP	5.70	2026	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	50
12/13/2023	OTP JELZALOGBANK RESVENY	OTP	3.60	2029	EUR	A	HUNGARY	EEMEA	Financial	100.0	544
12/8/2023	CHANGXING URBAN CONS INV	CHXIN	6.80	2026	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	150
12/7/2023	CHANG DEVELOPMENT INT	CCUDIH	7.00	2026	USD	BBB	CHINA	ASIA	Muni/Local Gov't	100.0	100
12/5/2023	HUAXIN PHARMACEUTICAL HK	TAIHUA	6.00	2023	USD	NR	CHINA	ASIA	Corporate	100.0	42
12/5/2023	CX JINGKAI CONS DEV	ZJCXED	6.15	2026	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	28
12/1/2023	GUANGZHOU DEV DISTRICT	GZGETH	6.30	2025	USD	BBB	CHINA	ASIA	Muni/Local Gov't	100.0	500
12/1/2023	QIANTANG JIANTOU BVI	QTJTbv	6.60	2024	USD	NR	CHINA	ASIA	Muni/Local Gov't	100.0	165

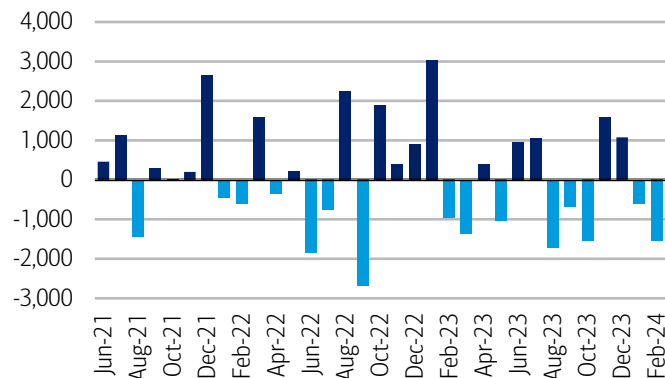
Source: BofA Global Research, ICE Data Indices, LLC, Bloomberg

BofA GLOBAL RESEARCH

Fund Flows

Exhibit 53: Monthly flows to EM EXD ETFs (US\$ mn)

As of 02/28/24, ETFS had an outflow of US\$1.6bn YTD

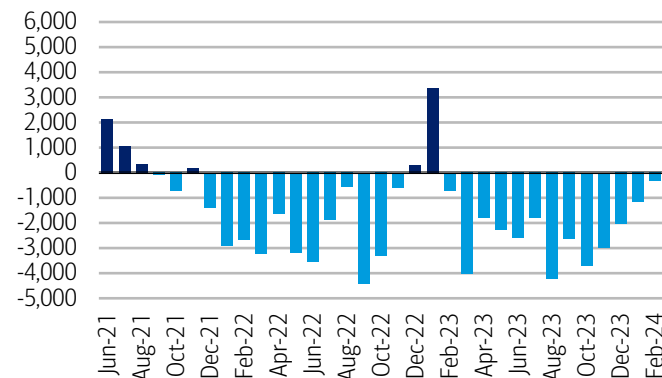


Source: BofA Global Research, EPFR Global.

BofA GLOBAL RESEARCH

Exhibit 54: Monthly flows to EM EXD mutual funds (US\$ mn)

As of 02/28/24, Mutual funds had outflow of US\$1.5bn YTD

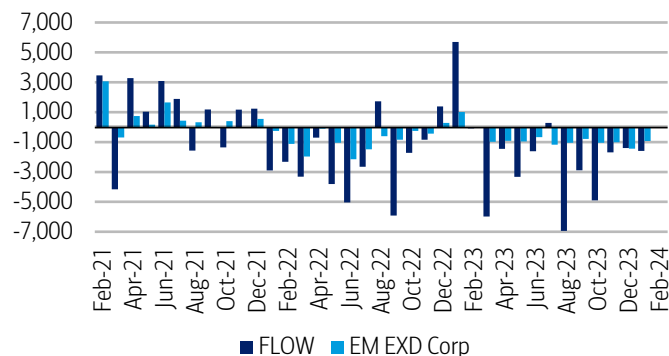


Source: BofA Global Research, EPFR Global.

BofA GLOBAL RESEARCH

Exhibit 55: Monthly Flows to EM External Debt Funds (US\$ mn)

As of 02/28/24, FLOW reported outflow of US\$1.8bn (MTD)

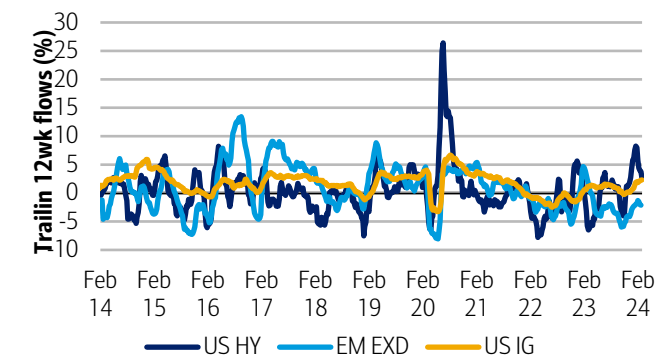


Source: BofA Global Research, EPFR Global.

BofA GLOBAL RESEARCH

Exhibit 56: Trailing 12wk Fund Flows as % of AUM

As of 02/28/24, US HY fund flows has the highest trailing in 12wk

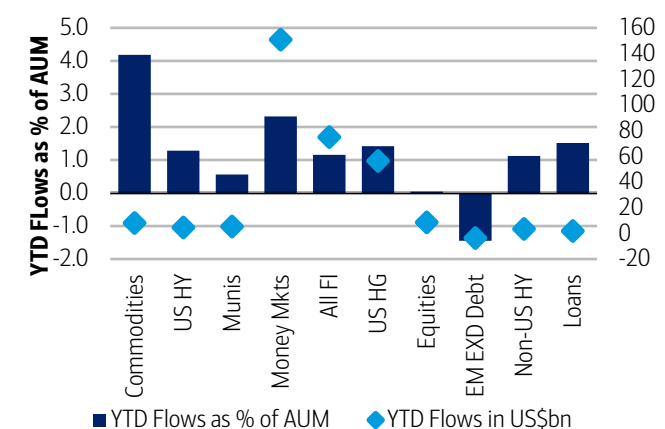


Source: BofA Global Research, EPFR Global.

BofA GLOBAL RESEARCH

Exhibit 57: 2024 YTD Fund Flows (% of AUM LHS) and US\$ bn (RHS)

As of 02/28/24, YTD fund flows are virtually allocated in money markets

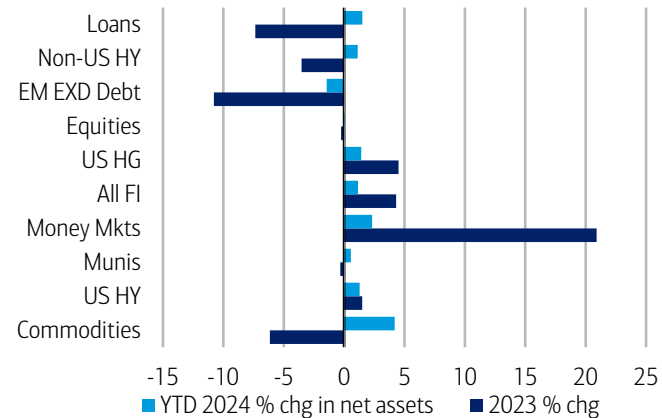


Source: BofA Global Research, EPFR Global

BofA GLOBAL RESEARCH

Exhibit 58: YTD 2024 and 2023 % Change in Net Assets

As of 02/28/24, money markets had the biggest positive change YTD



Source: BofA Global Research, EPFR Global.

BofA GLOBAL RESEARCH

Appendix – list of common abbreviations

% chg	percent change
4Q	Fourth Quarter
AT1	Additional Tier 1 Capital
AUM	Assets Under Management
CB	central banks
CEEMEA	Central Eastern Europe, Middle East, Africa
chg	change (simple difference)
CoCos	Contingent Convertibles
EBITDA	Earnings before Interest, Tax, Depreciation, Amortization
EM	Emerging Markets
Fed	The Federal Reserve
GCC	Gulf Cooperation Council
GFC	Global Financial Crisis
HG	High Grade
HY	High Yield
IG	Investment Grade
LatAm	Latin America
LHS	Left Hand Side
LTM	Last Twelve Months
MTD	Month to Date
NY	New York
OAS	Option Adjusted Spread
Quasis	Quasi Sovereign Corporations
RHS	Right Hand Side
T2	Tier 2 Capital
TRR	Total Rate of Return
Turns of leverage	Multiples (of LTM Leverage)
US	United States
USD	United States Dollar
YTW	Yield to Worst

Special Disclosures

Some of the securities discussed herein should only be considered for inclusion in accounts qualified for high risk investment.



Disclosures

Important Disclosures

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible. BofA Securities fixed income analysts regularly interact with sales and trading desk personnel in connection with their research, including to ascertain pricing and liquidity in the fixed income markets.

Other Important Disclosures

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits. Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks. The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

This report may refer to fixed income securities or other financial instruments that may not be offered or sold in one or more states or jurisdictions, or to certain categories of investors, including retail investors. Readers of this report are advised that any discussion, recommendation or other mention of such instruments is not a solicitation or offer to transact in such instruments. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor for information relating to such instruments. Rule 144A securities may be offered or sold only to persons in the U.S. who are Qualified Institutional Buyers within the meaning of Rule 144A under the Securities Act of 1933, as amended. SECURITIES OR OTHER FINANCIAL INSTRUMENTS DISCUSSED HEREIN MAY BE RATED BELOW INVESTMENT GRADE AND SHOULD THEREFORE ONLY BE CONSIDERED FOR INCLUSION IN ACCOUNTS QUALIFIED FOR SPECULATIVE INVESTMENT. Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents. The securities or other financial instruments discussed in this report may be traded over-the-counter. Retail sales and/or distribution of this report may be made only in states where these instruments are exempt from registration or have been qualified for sale. Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. This report, and the securities or other financial instruments discussed herein, may not be eligible for distribution or sale in all countries or to certain categories of investors, including retail investors.

Information relating to Affiliates of BofAS, MLPF&S and Distribution of Affiliate Research Reports:

Refer to [BofA Global Research policies relating to conflicts of interest](#).

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofam.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch Equities (Australia) Limited, regulated by the Australian Securities and Investments Commission; Merrill Lynch (Hong Kong): Merrill Lynch (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSF); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch Canada Inc, regulated by the Canadian Investment Regulatory Organization; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSF; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does not change your service provider. Please refer to the [Electronic Communications Disclaimers](#) for further information.

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your

jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities.

This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

This report may contain a trading idea or recommendation which highlights a specific identified near-term catalyst or event impacting a security, issuer, industry sector or the market generally that presents a transaction opportunity, but does not have any impact on the analyst's particular "Overweight" or "Underweight" rating (which is based on a three month trade horizon). Trading ideas and recommendations may differ directionally from the analyst's rating on a security or issuer because they reflect the impact of a near-term catalyst or event.

Certain investment strategies and financial instruments discussed herein may only be appropriate for consideration in accounts qualified for high risk investment.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned in this report. Investors in such securities and instruments effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information.

In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities.

Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public information. Facts and views presented in this material that relate to any such proceedings have not been reviewed by, discussed with, and may not reflect information known to, professionals in other business areas of BofA Securities in connection with the legal proceedings or matters relevant to such proceedings.

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit

purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies. Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

Research Analysts

Anne Milne

Research Analyst
BofAS
anne.milne@bofa.com

Carlos Assumpcao, CFA

Research Analyst
Merrill Lynch (Brazil)
carlos.assumpcao@bofa.com

Peter Bowley

Research Analyst
BofAS
peter.bowley@bofa.com

Nicolas Riva, CFA

Research Analyst
BofAS
nicolas.riva@bofa.com

Jason Amoratis

Research Analyst
BofAS
jason.amoratis@bofa.com

Kay Hope

Research Analyst
MLI (UK)
kay.hope@bofa.com

Ali Dhaloomal

Research Analyst
MLI (UK)
ali.dhaloomal@bofa.com

Joyce Liang

Research Analyst
Merrill Lynch (Hong Kong)
joyce.liang@bofa.com

Di Miao, CFA

Research Analyst
Merrill Lynch (Hong Kong)
dmiao@bofa.com

Sirius Chan

Research Analyst
Merrill Lynch (Hong Kong)
sirius.chan@bofa.com

Xiang Gao, CFA

Research Analyst
Merrill Lynch (Hong Kong)
xiang.gao@bofa.com

Lefu Li, CFA

Research Analyst
Merrill Lynch (Hong Kong)
lefu.li@bofa.com

Vikash Agarwalla, CFA

Research Analyst
Merrill Lynch (Hong Kong)
vikash.agarwalla@bofa.com

Suyang Lu

Research Analyst
Merrill Lynch (Hong Kong)
suyang.lu@bofa.com

GEMS Corporate Credit Rsch

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.