

British American Tobacco

FY23 results: Next-generation products turn to profits, balance sheet improved.

Reiterate Rating: BUY | PO: 2,900 GBp | Price: 2,319 GBp

FY24 guidance in line. Profitable NGPs. ITC stake.

BAT reported FY23 sales of £27,283m (-1.1% vs cons), and adj. EBIT of £12,465m (-1.1% vs cons.). FY24 guidance of LSD org. growth, LSD adjusted operating profit growth implies minor EPS estimate downgrades, but in our view investors should focus on: (1) NGP profitability (vs breakeven previously) with growth ahead; and (2) Better net debt/EBITDA leverage than expected (2.6x vs 2.7x). We lower our FY24/25/26E EPS estimates by -0.4/-1.3/-1.2%. We continue to expect strong growth in ex-US NGPs, now driving profitability, and US sales to improve in 2H24. Reiterate Buy. PO GBp2,900/\$37/ZAR700 (was ZAR690) derived from adjusted present value methodology.

FY24 guidance: Low-single-digit growth 2H24 weighted

BAT sees FY24 organic growth of LSD (cons: +1.0%) and LSD adj. operating profit growth (cons: +1.0%). As commercial actions continue in the US, we expect 1H24E adj. operating profit to fall below 1H23, but expect to see the US commercial actions to drive improvement in 2H24E. Management does not expect any improvement in the illicit vape market to drive its guidance in FY24E.

Unexpected NGP profitability to continue growing

Previously, BAT announced the NGP portfolio would be breakeven in FY23. The group in fact posted £398m adj. operating profit for the portfolio. This sets a base for profitability that should improve further in FY24 and beyond. Vapour gross margins are reaching 60%, while Modern Oral is ahead of combustibles. Innovations in Heated Products (glo Hyper Air, veo (tobacco-free)) will continue their geographic roll-outs through the year, supporting growth and market share gains, in our view.

Better leverage than expected. ITC stake: When, not if.

The group's leverage was better than consensus expectations (2.6x vs 2.7x), closing in on its mid-2-3x range target. Ongoing dividend growth (2.0%) should further reassure investors, while the group's high FCF generation should continue to enable deleveraging. Management's position on the ITC stake is becoming clearer: Once the regulatory/bureaucratic barriers are passed, it should start reducing its stake. This would further support the likelihood of a share buyback program, in our view.

Estimates (Dec) (GBp)	2022A	2023A	2024E	2025E	2026E
EPS (Adjusted Diluted)	371	376	380	410	442
EPS Change (YoY)	12.9%	1.1%	1.2%	7.8%	7.8%
Dividend / Share	231	236	239	266	287
Valuation (Dec)					
P/E	6.24x	6.17x	6.10x	5.66x	5.25x
Dividend Yield	9.96%	10.2%	10.3%	11.5%	12.4%
EV / EBITDA*	6.43x	6.93x	6.50x	6.23x	5.97x
Free Cash Flow Yield*	15.7%	16.2%	16.1%	17.0%	18.3%
* For full definitions of <i>IQ</i> method SM measures, see page 6.					

>> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take responsibility for the information herein in particular jurisdictions.

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 7 to 10. Analyst Certification on page 5. Price Objective Basis/Risk on page 5.

Timestamp: 08 February 2024 02:15AM EST

08 February 2024

Equity

Key Changes		
(GBp)	Previous	Current
2024E EPS	381.53	379.90
2025E EPS	415.35	409.65
2026E EPS	447.57	441.72
2024E EBITDA (£m)	13,480.0	13,288.1
2025E EBITDA (£m)	14,077.5	13,854.7
2026E EBITDA (£m)	14,700.6	14,468.6
2024E DPS	247.99	239.34

Joffrey Bellicha Meller >>

Research Analyst MLI (UK) +44 20 7995 7497 joffrey.bellichameller@bofa.com

Antoine Prevot >> Research Analyst MLI (UK) antoine.prevot@bofa.com

Stock Data

Price (Ord, Ord, ADR)	2,319 GBp / 557.41 ZAR /
	29.41 USD
Price Objective	2,900 GBp / 700.00 ZAR /
	37.00 USD
Date Established	11-Jan-2024 / 7-Feb-2024
	11-Jan-2024
Investment Opinion	A-1-7 / B-1-7 / B-1-7
52-Week Range	2,233 GBp-3,242 GBp
Market Val / Shares Out	51,863 GBP / 2,236.4
(mn)	
Average Daily Value (mn)	63.56 USD
BofA Ticker / Exchange	BTAFF / LSE
BofA Ticker / Exchange	XTALF / JNB
BofA Ticker / Exchange	BTI / NYS
Bloomberg / Reuters	BATS LN / BATS.L
ROE (2024E)	16.0%
Free Float	99.9%
ESGMeter™	High

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to "BofA ESGMeter Methodology".

Glossarv

NGP = Next-generation products

LSD = Low single digit

iQprofile[™] British American Tobacco

Key Income Statement Data (Dec)	2022A	2023A	2024E	2025E	2026E
(£ Millions)					
Sales	27,655	27,283	27,334	28,530	29,740
EBITDA Adjusted	13,428	12,465	13,288	13,855	14,469
Depreciation & Amortization	(1,305)	(1,323)	(2,478)	(2,512)	(2,547)
EBIT Adjusted	12,123	11,142	10,810	11,342	11,921
Net Interest & Other Income	(1,199)	(1,310)	(1,371)	(1,159)	(1,028)
Tax Expense / Benefit	(2,478)	2,872	(2,649)	(2,806)	(2,969)
Net Income (Adjusted)	8,420	8,379 2,231	8,476	9,063	9,609
Average Fully Diluted Shares Outstanding	2,267	2,231	2,231	2,212	2,175
Key Cash Flow Statement Data	6.617	(1.4.0.1.1)	6.076	7.576	0.12.4
Net Income (Reported) Depreciation & Amortization	6,617 1,305	(14,011)	6,976 2,478	7,576 2,512	8,134 2,547
Change in Working Capital	(285)	1,323 426	(293)	(309)	(325)
Deferred Taxation Charge	(203)	0	(233)	(505)	(525)
Other CFO	2,757	23,325	1,615	1,444	1,361
Cash Flow from Operations	10,394	11,063	10,776	11,224	11,718
Capital Expenditure	(625)	(547)	(550)	(719)	(749)
(Acquisition) / Disposal of Investments	(102)	(87.0)	(87.5)	(91.3)	(95.2)
Other CFI	187	195	87.5	91.3	95.2
Cash Flow from Investing	(540)	(439)	(550)	(719)	(749)
Share Issue / (Repurchase)	(2,012)	0	0	(1,000)	(1,200)
Cost of Dividends Paid	(5,073)	(5,160)	(5,363)	(5,405)	(5,913)
Increase (decrease) debt	3,481	(3,409)	(2,963)	(2,296)	(2,124)
Other CFF	(9,229)	1,111	1,063	491	393
Cash Flow from Financing	(12,833)	(7,458)	(7,263)	(8,210)	(8,844)
Total Cash Flow (CFO + CFI + CFF)	(2,979)	3,166	2,963	2,296	2,124 (2,124)
FX and other changes to cash Change in Cash	3,616 637	(1,953) 1,213	(2,963) 0	(2,296) 0	(2,124)
Change in Net Debt	2,844	(4,622)	(2,963)	(2,296)	(2,124)
Net Debt (Reported)	39,693	35,071	32,108	29,813	27,689
Net Debt (Adjusted)	39,281	34,640	31,677	29,382	27,258
Key Balance Sheet Data					
Property, Plant & Equipment	4,867	4,583	4,199	3,942	3,675
Goodwill	0	0	0	0	0,075
Other Intangibles	129,075	95,562	94,019	92,482	90,951
Other Non-Current Assets	4,195	4,385	4,385	4,385	4,385
Trade Receivables	4,367	3,621	3,643	3,802	3,963
Cash & Equivalents	3,446	4,659	4,659	4,659	4,659
Other Current Assets	7,596	5,906	5,937	6,161	6,389
Total Assets	153,546	118,716	116,841	115,432	114,023
Long-Term Debt	38,726	35,406	32,443	30,148	28,024
Other Non-Current Liabilities	21,257	14,703	14,781	15,357	15,939
Short-Term Debt	4,413	4,324	4,324	4,324	4,324
Other Current Liabilities	13,440	11,349	11,413	11,884	12,360
Total Liabilities	77,836	65,782	62,961	61,712	60,646
Total Equity Total Equity & Liabilities	75,710 153,546	52,934 118,716	53,879 116,841	53,720 115,432	53,377 114,023
Business Performance*	155,510	110,710	110,011	115,152	111,023
Return On Capital Employed	6.68%	7.49%	7.31%	7.86%	8.45%
Return On Equity	11.8%	13.1%	16.0%	17.0%	18.1%
Operating Margin	38.1%	-57.7%	39.5%	39.8%	40.1%
Free Cash Flow (MM)	8,276	8,360	8,326	8,701	9,237
Quality of Earnings*	,	,	,	,	
Cash Realization Ratio	1.23x	1.32x	1.27x	1.24x	1.22x
Asset Replacement Ratio	0.61x	NA	0.69x	0.87x	0.87x
Tax Rate	26.6%	16.8%	28.1%	27.6%	27.3%
Net Debt/Equity	52.4%	66.3%	59.6%	55.5%	51.9%
Interest Cover	7.39x	5.88x	5.69x	6.29x	6.89x
* For full definitions of <i>IQ</i> method sm measures, see page 6.	, 5,	2.00%	2.03/		3.03A

Company Sector

Tobacco

Company Description

London based British American Tobacco is the largest European tobacco company with operations in most major markets across the globe. The company's biggest market is the US, where it generates around 55% of EBIT. BAT's main brands are Kent, Dunhill, Lucky Strike, Pall Mall, Rothmans, Newport, Camel and Natural American Spirit. The company also plays in the Heated Tobacco category with its brand glo, in vaping where its main brand is Vuse and in Modern Oral with Velo.

Investment Rationale

Our Buy rating on BAT is based on three key points: 1) The next-generation product portfolio now represents c.13% of revenues and is breaking even, offsetting in our view the negative regulatory risks in US menthol cigarettes, 2) US market shares are stabilizing and volume declines should normalize, 3) The group's high FCF generation offers ample room to deleverage and then restart a share buyback program.

Stock Data

Price to Book Value

1.0x

BofA Old vs New estimates

Exhibit 1: BofA Old vs New estimates

BofAe EPS FY24/25/26 decline by -0.4/-1.3/-1.2% respectively

		2024E		1	2025E			2026E	
€mn	New	Old	% change	New	Old	% change	New	Old	% change
Revenue	27,334	27,839	-1.8%	28,530	29,106	-2.0%	29,740	30,335	-2.0%
EBITDA	13,288	13,473	-1.4%	13,855	14,069	-1.5%	14,469	14,691	-1.5%
US	6,632	6,719	-1.3%	6,813	6,903	-1.3%	7,039	7,130	-1.3%
AME	9,974	9,557	4.4%	10,600	10,210	3.8%	11,263	10,855	3.8%
APMEA	5,725	6,258	-8.5%	5,999	6,566	-8.6%	6,193	6,789	-8.8%
EBITDA margin (%)	48.6%	48.4%		48.6%	48.3%		48.7%	48.4%	
EBIT	12,495	12,666	-1.3%	13,027	13,225	-1.5%	13,606	13,811	-1.5%
EBIT margin (%)	45.7%	45.5%		45.7%	45.4%		45.8%	45.5%	
EPS	379.90	381.33	-0.4%	409.65	415.11	-1.3%	441.72	447.29	-1.2%
DPS	239.34	247.87	-3.4%	266.27	269.82	-1.3%	287.12	290.74	-1.2%
FCF	8,326	8,554	-2.7%	8,701	9,025	-3.6%	9,237	9,582	-3.6%
Net Debt (cash)	31,677	33,503	-5.5%	29,382	31,076	-5.5%	27,258	28,691	-5.0%
EV/EBITDA	5.3x	5.5x	-4.7%	5.0x	5.3x	-4.6%	4.8x	5.1x	-4.6%
PE	6.2x	6.2x	0.4%	5.7x	5.7x	1.3%	5.3x	5.2x	1.3%
FCF yield (%)	15.9%	16.4%		16.6%	17.3%		17.6%	18.4%	
ND/EBITDA	2.3x	2.4x	-4.2%	2.1x	2.2x	-4.1%	1.8x	1.9x	-3.6%

Source: BofA Global Research estimates

BofA GLOBAL RESEARCH

Valuation: Reiterate Buy

We reiterate our Buy rating and mildly adjust our South African PO from ZAR690 to ZAR700 driven by FX. Our other POs remain unchanged (GBp2,900/USD37). Our valuation is based on an adjusted present valuation model, detailed below, with unchanged drivers.

Exhibit 2: Free cash flow net present value derivation table

Drivers unchanged: Beta 1.0, risk free rate 3.5%, equity risk premium 6.0%, regulatory risk premium 3.0%, terminal growth -1.0%

	FY24E	FY25E	FY26E	FY27E	FY28E	FY29E	FY30E	TV
Net Revenue	27,334	28,530	29,740	30,977	31,751	32,545	33,196	
EBITA (after restructuring)	12,495	13,027	13,606	14,207	13,812	13,994	13,942	
Other charges/income	-110	-110	-110	-110	-110	-110	-110	
Depreciation	793	827	862	898	800	820	837	
Decrease/(Increase) in working capital	-293	-309	-325	-343	-351	-360	-367	
Operating Cash Flow	12,885	13,436	14,033	14,653	14,151	14,345	14,302	
Net CapEx	-550	-719	-749	-781	-800	-820	-837	
Tax	-2,649	-2,806	-2,969	-2,969	-3,370	-3,485	-3,541	
Free Cash Flow	9,686	9,911	10,315	10,904	9,981	10,040	9,924	
Discount factor	0.95	0.85	0.75	0.66	0.59	0.52	0.46	
Discounted Free Cash Flow	9,232	8,377	7,730	7,245	5,878	5,243	4,595	33,339
Revenue Growth	0.6%	4.4%	4.2%	4.2%	2.5%	2.5%	2.0%	
EBITA margin	45.7%	45.7%	45.8%	45.9%	43.5%	43.0%	42.0%	
CapEx/Depreciation	69%	87%	87%	87%	100%	100%	100%	
Depreciation/Sales	2.9%	2.9%	2.9%	2.9%	2.5%	2.5%	2.5%	
Net Capex/Sales	2.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	
Underlying Tax Rate	23.8%	23.8%	23.8%	23.8%	24.4%	24.9%	25.4%	
Tax Shield								
Cost of Debt (pre tax)	5.7%	5.7%	5.7%	5.7%	5.7%	5.7%	5.7%	
Net Debt	31,677	29,382	27,258	24,926	17,534	17,778	17,735	
Interest	-1,790	-1,660	-1,540	-1,408	-991	-1,004	-1,002	
Tax shield	426	395	367	335	242	250	255	
Discount factor	0.98	0.94	0.90	0.87	0.83	0.80	0.77	
Discounted Tax Shield	419	373	331	291	201	200	195	3,617

Source: BofA Global Research estimates



Exhibit 2: Free cash flow net present value derivation table

Drivers unchanged: Beta 1.0, risk free rate 3.5%, equity risk premium 6.0%, regulatory risk premium 3.0%, terminal growth -1.0%

FY24E FY25E FY26E FY27E FY28E FY29E FY30E TV BofA GLOBAL RESEARCH

Exhibit 3: PO derivation tableDerivation table implies £29 PO, or £65.6bn market cap

PO derivation table	£m
Free Cash Flow NPV	81,639
Net Debt	-34,640
Non-controlling interest	1,424
Associates	15,758
Equity Value	59,539
Tax shield	6,037
Implied share price	65,576
Price Objective (12 months)	29

Source: BofA Global Research estimates

BofA GLOBAL RESEARCH



Price objective basis & risk

British American Tobacco (BTAFF)

Our PO of £29/ZAR700/\$37 is based on the Adjusted Present Value methodology (a variation of the DCF) whereby we discount the business' operating cash flows at the cost of equity (for BAT we use 12.8%, inclusive of 3.0% regulatory/litigation risk premium) and the tax shield at the cost of debt (4.5%). We assume a terminal growth rate of -1%.

Upside risks to our PO are a relaxation of the regulatory risk faced by the sector, a better than expected sales performance of Next Generation Products (both on sales and margins) and reversal of market share losses in the US .

Downside risks to our PO are an intensification of the regulatory risk (especially in the US), lower-than-expected sales performance in vaping and THP, market share losses, weaker than expected US combustibles market.

Analyst Certification

I, Joffrey Bellicha Meller, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

EMEA - HPC, Food & Tobacco Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	Beiersdorf	BDRFF	BEI GY	Victoria Petrova
	Beiersdorf	BDRFY	BDRFY US	Victoria Petrova
	British American Tobacco	BTAFF	BATS LN	Joffrey Bellicha Meller
	British American Tobacco	BTI	BTI US	Joffrey Bellicha Meller
	British American Tobacco	XTALF	BTI SJ	Joffrey Bellicha Meller
	Haleon	HLNCF	HLN LN	Victoria Petrova
	Haleon	HLN	HLN US	Victoria Petrova
	Henkel	HENOY	HENOY US	Victoria Petrova
	Henkel	HENOF	HEN3 GY	Victoria Petrova
	Nestle	NSRGF	NESN SW	Victoria Petrova
	Nestle	NSRGY	NSRGY US	Victoria Petrova
NEUTRAL				
	Imperial Brands	IMBBF	IMB LN	Joffrey Bellicha Meller
	Imperial Brands	IMBBY	IMBBY US	Joffrey Bellicha Meller
	Reckitt Benckiser	RBGPF	RKT LN	Victoria Petrova
	Reckitt Benckiser	RBGLY	RBGLY US	Victoria Petrova
UNDERPERFORM				
	Danone	DANOY	DANOY US	Victoria Petrova
	Danone	GPDNF	BN FP	Victoria Petrova
	Unilever	UL	UL US	Victoria Petrova
	Unilever	UNLYF	ULVR LN	Victoria Petrova
	Unilever	UNLVF	UNA NA	Victoria Petrova
RSTR				
	Essity	ETTYF	ESSITYB SS	Othmane Bricha
RVW				
	BIC	BICEF	BB FP	Othmane Bricha
	Ontex	ONXXF	ONTEX BB	Othmane Bricha



IQmethod[™] Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) × (1 – Tax Rate) + Goodwill Amortization	Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill
Return On Equity	Net Income	Amortization Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations — Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt — Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations – Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt + Other LT Liabilities	Sales

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

Memethod3*is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of

iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

Redatabase is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

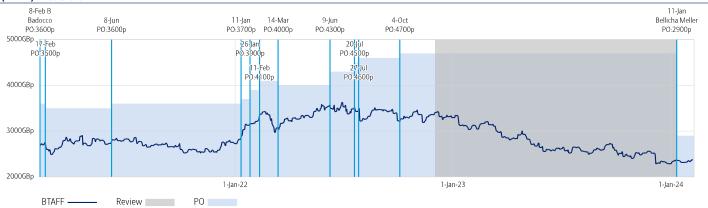
IQprofile^{≤M}, **IQ**method^{≤M} are service marks of Bank of America Corporation. **IQ**database® is a registered service mark of Bank of America Corporation.



Disclosures

Important Disclosures

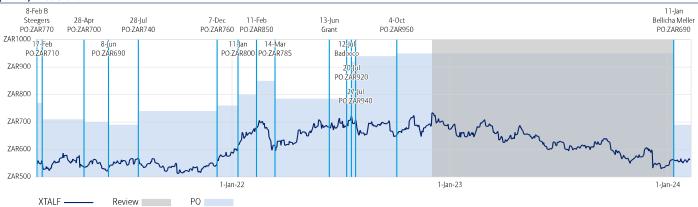
BAT (BTAFF) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

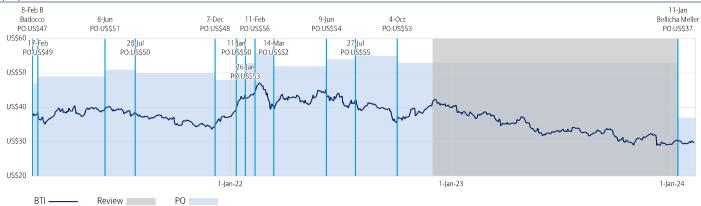
BAT (XTALF) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

BAT (BTI) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.



Equity Investment Rating Distribution: Tobacco Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	3	60.00%	Buy	1	33.33%
Hold	1	20.00%	Hold	0	0.00%
Sell	1	20.00%	Sell	0	0.00%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

R1 Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

R2Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

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.

Price Charts for the securities referenced in this research report are available on the Price Charts website, or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: BAT.

The issuer is or was, within the last 12 months, an investment banking client of BofAS and/or one or more of its affiliates: BAT.

BofAS or an affiliate has received compensation from the issuer for non-investment banking services or products within the past 12 months: BAT.

The issuer is or was, within the last 12 months, a non-securities business client of BofAS and/or one or more of its affiliates: BAT.

BofAS or an affiliate has received compensation for investment banking services from this issuer within the past 12 months: BAT.

BofAS or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer or an affiliate of the issuer within the next three months: BAT. BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: BAT.

The issuer is or was, within the last 12 months, a securities business client (non-investment banking) of BofAS and/or one or more of its affiliates: BAT.

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.

Other Important Disclosures

The issuer is a corporate broking client of Merrill Lynch International in the United Kingdom: BAT.

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.

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.

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. 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.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

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.bofaml.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 (HKSFC); 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)

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 HKSFC; 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 in Germany and is regulated by Merrill Lynch (DIFC) is done so in accord

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.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

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.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, 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 in any securities referred to herein.

BofA ESGMeter Methodology:

ESGMeter is a proprietary metric based on quantitative analysis and fundamental analyst inputs that reflects our assessment of a company's Environmental, Social and Governance-related attributes. The ESGMeter is intended to indicate a company's likelihood of experiencing stronger financial stability (higher return on equity and lower earnings and price volatility) over the next three years relative to peer group. There are three ESGMeter levels - Low, Medium, and High - which indicate whether a company has attributes most likely to translate into superior financial stability (in the case of a High level) or weaker financial stability (in the case of a Low level) over the next three years relative to its peer group. A Medium level suggests that a company exhibits ESG characteristics that are likely associated with financial stability results in line with its peer group over the next three years. Full details of our methodology, financial stability definition and



disclaimers are available at <u>BofA ESGMeter methodology</u>. ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of the BofA Global Research fundamental equity analyst's investment rating, volatility risk rating, income rating or price objective for that company. **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 inform

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.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

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.

