Week ending January 3, 2025

MARKET MONITOR



MARKETS

2024 delivered a dynamic, record-breaking market environment, building on the many successes of 2023 despite uncertainty from various significant global elections, continued geopolitical tensions, concentrated markets, and stretched valuations. In the face of these challenges, resilient economic growth, robust earnings, and long-awaited monetary easing fueled investor optimism, propelling major global indices higher in 2024.

Source: Bloomberg and Goldman Sachs Asset Management. As of December 31, 2024.

MARKET SUMMARY

GLOBAL EQUITIES: US equities fell last week on the back of mixed economic data and weakness amongst select Magnificent 7 firms. The S&P 500 ultimately ended the week –0.45% lower after closing out 2024 with four straight down days for the first time in almost 60 years. Elsewhere, the STOXX Europe 600 and FTSE 100 rose 0.22% and 0.92%, respectively, supported by strong energy sector performance.

COMMODITIES: Oil prices rose sharply last week behind hopes that further economic stimulus in China will help drive increased consumption in 2025. WTI and Brent crude ultimately ended the week at \$73.96 and \$76.51/bbl, respectively, as colder temperatures across the US and Europe helped to boost demand. Meanwhile, gold prices rose to \$2679.50/troy oz amid continued concern within the US housing market.

FIXED INCOME: US Treasury yields fell slightly last week despite strong manufacturing and labor market data indicating further resilience in the US economy. The 2-Year and 10-Year US Treasury yields ended the week at 4.28% and 4.60%, respectively. Across the pond, the 10-Year UK Gilt yield followed suit while the 10-Year German Bund yield closed higher, ending the week at 4.59% and 2.42%, respectively.

FX: The US dollar strengthened against a basket of currencies last week on the back of a decline in jobless claims during the historically volatile holiday season. Ultimately, the US dollar index ended the week up 0.87%. Meanwhile, the Chinese Yuan weakened against the dollar to ¥7.2081, as recent declines in Chinese manufacturing appeared to overshadow improved services activity.

ECONOMIC SUMMARY

ACTIVITY: In the US, the ISM manufacturing index increased by 0.9pt to 49.3 in December, against consensus expectations for a modest decline. The underlying composition of the print was mixed, as the new orders and production components increased, while the employment component declined. The S&P Global US manufacturing PMI was revised up by 1.1pt to 49.4 in the final December reading, above consensus expectations. Specifically, the output, new orders, and employment components were all part of the upward revision. On another note, Chicago PMI printed at 36.9 in December, below consensus expectations for 42.7 and a decrease from lasts month's reading of 40.2.

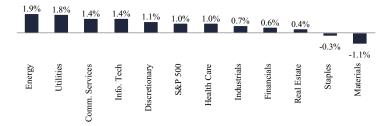
LABOR: US initial jobless claims decreased by 9k to 211k in the week ended December 28, somewhat below consensus expectations for a roughly unchanged reading. The four-week moving average of jobless claims fell by 4k to 223k. Additionally, nationwide continuing claims decreased by 52k to 1,844k in the week ended December 21, below consensus expectations. Our colleagues in GIR note that seasonal adjustment challenges can make jobless claims readings particularly volatile around the holiday season.

CHINA: China's NBS manufacturing PMI fell to 50.1 in December from 50.3 in November, led by declines in the output and employment components. Conversely, improved activity in the services and construction sectors led to an increase in the non-manufacturing PMI to 52.2, from 50.0 in November. China's Caixin manufacturing PMI also fell, coming in at 50.5 in December, against consensus expectations of 51.7.

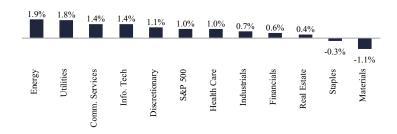
MARKET WATCH

S&P 500 INDEX SECTOR RETURNS

MONTH-TO-DATE. AS OF 01/03/25

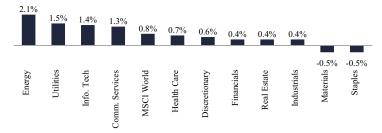


YEAR-TO-DATE, AS OF 01/03/25

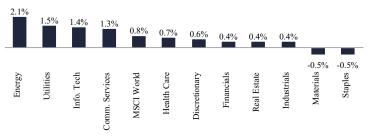


MSCI WORLD INDEX SECTOR RETURNS

MONTH-TO-DATE, AS OF 01/03/25



YEAR-TO-DATE, AS OF 01/03/25



Style Performance

US EQUITY SIZE & STYLE RETURNS

Month-to-Date			(as of 01/03/25)	Year-to-Date		
Value	Core	Growth		Value	Core	Growth
0.78%	1.14%	1.45%	Large	0.78%	1.14%	1.45%
0.78%	1.24%	2.54%	Medium	0.78%	1.24%	2.54%
1.00%	1.72%	2.41%	Small	1.00%	1.72%	2.41%

MSCI WORLD SIZE & STYLE RETURNS

Month-to-Date			(as of 01/03/25)	Year-to-Date		
Value	Core	Growth		Value	Core	Growth
0.44%	0.83%	1.14%	Large	0.44%	0.83%	1.14%
0.48%	0.69%	1.12%	Medium	0.48%	0.69%	1.12%
0.47%	0.95%	1.43%	Small	0.47%	0.95%	1.43%

US FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date			(as of 01/03/25)	Year-to-Date		
Short	Intermed.	Long		Short	Intermed.	Long
-0.03%	-0.05%	-0.36%	Government	-0.03%	-0.05%	-0.36%
-0.01%	-0.05%	-0.34%	Corporate	-0.01%	-0.05%	-0.34%
0.29%	0.31%	0.29%	High Yield	0.29%	0.31%	0.29%

EUROPEAN FIXED INCOME MATURITY AND QUALITY RETURNS

	Month-to-Date			(as of 01/03/25)	Year-to-Date		
Shor	rt	Intermed.	Long		Short	Intermed.	Long
-0.15	%	-0.49%	-1.18%	Government	-0.15%	-0.49%	-1.18%
-0.11	%	-0.39%	-0.73%	Corporate	-0.11%	-0.39%	-0.73%
		0.03%		High Yield		0.03%	

ECONOMIC WATCH

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Monday, January 6	Tuesday, January 7	Wednesday, January 8	Thursday, January 9	Friday, January 10	Critical Future Events
US Services PMI (Cons: 58.5, Prior: 56.1)	US JOLTS Job Openings (Cons: 7.770M, Prior: 7.744M) US ISM Non-Manuf PMI (Cons: 53.2, Prior: 52.1)	FOMC Minutes	US National Day Holiday	US Nonfarm Payrolls (Cons: 154K, Prior: 227K) US Unemployment Rate (Cons: 4.2%, Prior: 4.2%) US Avg Hourly Earnings MoM (Cons: 0.3%, Prior: 0.4%)	BoJ Meeting – Jan 24 FOMC Meeting – Jan 29 ECB Meeting – Jan 30 BoE Meeting – Feb 6

Source: MSCI, Bloomberg, and Goldman Sachs Asset Management. For style performance, Large, Mid, and Small for US Equity refer to the Russell 1000, Russell Midcap, and Russell 2000 indices, respectively. Value refers to companies with lower price-to-book ratios and lower expected growth values, and Growth refers to higher price-to-book ratios and higher forecasted growth values. For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Treasury, Bloomberg Corporate Credit, and Bloomberg High Yield indices, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2021, the Barclays indices are branded "Bloomberg indices". Please see end disclosures for footnotes. Past performance does not guarantee future results, which may vary.

WEEKLY MARKET RECAP

INDEX RETURNS				
	1 WEEK	MTD	QTD	YTD
EQUITIES				
S&P 500	-0.45%	1.05%	1.05%	1.05%
DJ Industrial Average	-0.59%	0.46%	0.46%	0.46%
Russell 2000	1.13%	1.72%	1.72%	1.72%
Russell Midcap	0.25%	1.24%	1.24%	1.24%
STOXX Europe 50 (€)	-0.51%	-0.45%	-0.45%	-0.45%
STOXX Europe 600 (€)†	0.22%	0.13%	0.13%	0.13%
MSCI EAFE Small Cap	-0.31%	-0.04%	-0.04%	-0.04%
FTSE 100 (£)	0.92%	0.64%	0.64%	0.64%
FTSE MIB (€)	-0.10%	-0.17%	-0.17%	-0.17%
CAC 40 (€)†	-0.91%	-1.26%	-1.26%	-1.26%
SWISS MKT (CHF)	0.30%	0.20%	0.20%	0.20%
TOPIX (¥) *	-0.60%	0.00%	0.00%	0.00%
Hang Seng (HKD)	-1.37%	-1.22%	-1.22%	-1.22%
MSCI World	-0.45%	0.81%	0.81%	0.81%
MSCI China Free†	-2.45%	-1.80%	-1.80%	-1.80%
MSCI EAFE	-0.87%	-0.30%	-0.30%	-0.30%
MSCI EM	-0.81%	-0.13%	-0.13%	-0.13%
MSCI Brazil (BRL)	-0.57%	-0.53%	-0.53%	-0.53%
MSCI India (INR)	1.20%	1.69%	1.69%	1.69%
FIXED INCOME				
Bloomberg Aggregate	0.18%	-0.13%	-0.13%	-0.13%
Bloomberg Euro Aggregate	-1.58%	-1.13%	-1.13%	-1.13%
Bloomberg US High Yield	0.40%	0.31%	0.31%	0.31%
Bloomberg Euro High Yield (€)	0.08%	0.03%	0.03%	0.03%
Bloomberg Muni Aggregate	0.61%	0.29%	0.29%	0.29%
Bloomberg TIPS	0.09%	-0.18%	-0.18%	-0.18%
JPM EMBI Glbl. Divers.	0.31%	0.27%	0.27%	0.27%
JPM GBI-EM Glbl. Divers.	-0.40%	0.01%	0.01%	0.01%
OTHER				
DJ US Real Estate	0.84%	0.45%	0.45%	0.45%
FTSE EPRA/NAREIT Dvlpd. Ex-US	-0.43%	0.30%	0.30%	0.30%
S&P GSCI	2.01%	0.76%	0.76%	0.76%
Alerian MLP *	2.07%	1.55%	1.55%	1.55%
VIX	1.13%	-7.03%	-7.03%	-7.03%

COMMODITIES				
	01/03/25	12/31/24	09/30/24	12/31/23
WTI Oil (\$/barrel)	\$73.96	\$71.72	\$68.17	\$71.65
Brent Oil (\$/barrel)	\$76.51	\$74.64	\$71.77	\$77.04
Gold (\$/oz)	\$2679.50	\$2666.00	\$2681.30	\$2091.80
Natural Gas (\$/mmBtu)	\$3.35	\$3.63	\$2.92	\$2.51

CURRENCIES							
	01/03/25	12/31/24	09/30/24	12/31/23			
Euro (\$/€)	1.0302	1.0354	1.1133	1.1041			
Pound (\$/£)	1.2427	1.2510	1.3376	1.2746			
Japanese Yen (¥/\$)	157.21	157.31	143.68	141.02			
Swiss Franc (CHF/€)	0.9365	0.9401	0.9426	0.9289			
Chinese Yuan Renminbi (CNY/\$)	7.2081	7.1874	7.0206	7.0842			

RATES & SPREADS				
	01/03/25	12/31/24	09/30/24	12/31/23
RATES				
Secured Overnight Financing Rate *	4.40%	4.49%	4.96%	5.38%
US Treasuries 2-Year	4.28%	4.25%	3.65%	4.25%
ECB Depo Rate	4.00%	3.75%	3.50%	2.00%
US Treasuries 10-Year	4.60%	4.58%	3.80%	3.86%
US Treasury 2-10 Slope	0.32%	0.33%	0.15%	-0.39%
German Bunds 2-Year	2.16%	2.08%	2.07%	2.40%
German Bunds 10-Year	2.42%	2.37%	2.12%	2.02%
Japanese Govt Bonds 10-Year	1.10%	1.10%	0.86%	0.61%
UK Gilts 10-Year	4.59%	4.57%	4.00%	3.54%
Swiss Govt Bonds 10-Year	0.37%	0.33%	0.41%	0.70%
French OATs 10-Year	3.29%	3.19%	2.92%	2.56%
Italian BTPs 10-Year	3.59%	3.52%	3.45%	3.70%
Spanish Bonos 10-Year	3.11%	3.06%	2.93%	2.99%
SPREADS				
HY Corp. Spread (bps)	274	287	300	323
IG Corp. Spread (bps)	79	80	88	98
EMD Spread (bps)	379	384	420	438

Global Equity Valuations

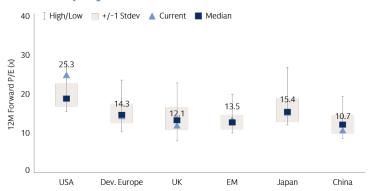


Chart Source: Goldman Sachs Asset Management and Bloomberg as of close of trading on December 31, 2024. Chart data shows next 12-month P/E ratio from January 2015 to the current period. 12m forward P/E(x) refers to price-to-earnings ratio for the next 12 months, which is a valuation measure applied to respective broad equity indices. Please see additional disclosures at the end of this presentation.

Weekly Market Recap Notes:

All data is denominated in USD unless noted otherwise.

† Data is released weekly, as of Monday.

If data displays an asterisk:

- * Data is lagged by 1 day.
- ** Data is lagged by 2 days.

Source: MSCI and Goldman Sachs Asset Management. Past performance does not guarantee future results, which may vary. Please see end disclosures for footnotes.

IMPORTANT INFORMATION

Page 1 Chart of the Week Notes: Source: Bloomberg and Goldman Sachs Asset Management. As of December 31, 2024. US Large Cap refers to the S&P 500 Total Return Index, Japan Equity to TOPIX Total Return Index, US Small Cap to Russell 2000 Total Return Index, Global Developed Markets Equities ("Global Dev. Equity") to MSCI World, Europe Equity to STOXX 600 Total Return, Gold to S&P GSCI Gold Index Total Return, US High Yield bonds ("US HY") to Bloomberg US Corporate High Yield Total Return Index, Emerging Market ("EM") Equity to MSCI EM Index, US Investment Grade bonds ("US IG") to Bloomberg US Corporate Total Return Value Unhedged USD Index, Cash to Bloomberg Short Treasury Total Return Index, US 10yr Treasury to S&P US Treasury Bond Current 10-Year Total Return Index, Energy to S&P GSCI Energy Index, and China Equity to MSCI China. Past performance does not predict future returns and does not guarantee future results, which may vary. It is not possible to invest directly in an unmanaged index.

Page 1 Market Summary Notes: "WTI" refers to West Texas Intermediate crude oil, a common US benchmark for oil prices. "Brent" refers to a global benchmark for oil prices worldwide. "Bbl" refers to barrel. "Oz" refers to ounce.

Page 1 Economic Summary Notes: "ISM" refers to the Institute for Supply Management. "PMI" refers to Purchasing Managers' Index. "pt" refers to point. "GIR" refers to Goldman Sachs Global Investment Research. "NBS" refers to National Bureau of Statistics.

Page 2 Style Performance Notes: For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg US Treasury, the Bloomberg US Corporate Credit, and the Bloomberg US High Yield indices, respectively. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2016, the Barclays indices are co-branded "Bloomberg Barclays indices".

Page 2 Economic Watch Notes: "PMI" refers to Purchasing Managers' Index. "ISM" refers to the Institute for Supply Management. "MoM" refers to month-overmonth. "BoJ" refers to Bank of Japan. "FOMC" refers to Federal Open Market Committee. "ECB" refers to European Central Bank. "BoE" refers to Bank of England.

Page 3 Global Equity Valuations Chart Notes: Earnings are forward looking Bloomberg estimates of operating earnings per share over the next four quarters, which may exclude one-time extraordinary gains and losses. Please see index disclosures for additional definitions on the indices.

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MARKET MONITOR: WEEK ENDING JANUARY 3, 2025

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Index Benchmarks: Equities: The S&P 500 Index is the Standard & Poor's 500 Composite Stock Prices Index of 500 stocks, an unmanaged index of common stock prices. The Dow Jones Industrial Average Index is a priceweighted average of 30 actively traded blue-chip stocks. The Russell Mid Cap Index measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 30% of the total market capitalization of the Russell 1000 Index. The Russell 2000 Index is an unmanaged index of common stock prices that measures the performance of the 2000 smallest companies in the Russell 3000 Index. The MSCI EAFE Index is a free-float weighted equity index, which covers developed markets countries in Europe. Australasia, Israel, and the Far East. The MSCI Emerging Markets (EM) Index is a free float-adjusted market capitalization index that captures large and midcap representation across 24 Emerging Markets (EM) countries. The STOXX **Europe 600 Index** is derived from the STOXX Europe Total Market Index (TMI) and is a subset of the STOXX Global 1800 Index. With a fixed number of 600 components, the STOXX Europe 600 Index represents large, mid and small capitalization companies across 18 countries of the European region. The Japan TOPIX Index is a capitalization-weighted index of the largest companies and corporations that are found in the First Section of the Tokyo Stock Exchange. The **German DAX** is a capitalization-weighted blue chip stock market index consisting of the 30 major German companies trading on the Frankfurt Stock Exchange. Euro Stoxx 50 Index, Europe's leading Blue-chip index for the Eurozone, provides a Blue- chip representation of supersector leaders in the Eurozone. The Financial Times Stock Exchange (FTSE) 100 Index is an index of the 100 companies listed on the London Stock Exchange with the highest market capitalization. FTSE MIB Index is composed of 40 Italian equities and seeks to replicate the broad sector weights of the Italian stock market. CAC 40 Index is composed of the 40 largest equities listed in France. SWISS Market Index is composed of the largest and most liquid stocks traded on the Geneva, Zurich, and Basel Stock Exchanges. Hang Seng Composite Index covers about 95% of the total market capitalization of companies listed on the Main Board of the Hong Kong Stock Exchange. The MSCI World Index is a broad global equity index that represents large and mid-cap equity performance across 23 developed markets countries. It covers approximately 85% of the free floatadjusted market capitalization in each country. The MSCI China Index captures large and mid cap representation across China H shares, B shares, Red chips, P chips and foreign listings (e.g. ADRs). With 461 constituents, the index covers about 85% of this China equity universe. Currently, the index also includes Large Cap A shares represented at 5% of their free float adjusted market capitalization. MSCI Brazil Index covers about 85% of the total market capitalization of the Brazilian equity universe. MSCI India Index covers about 85% of the total market capitalization of the Indian equity universe. The CBOE Volatility Index (VIX) is a leading measure of market expectations of near-term volatility

conveyed by S&P 500 Index option prices. Fixed Income: The Bloomberg US Aggregate Bond Index represents an unmanaged diversified portfolio of fixedincome securities, including US Treasuries, investment-grade corporate bonds, and mortgage-backed and asset-backed securities. The Bloomberg US High-Yield Index covers the USD-denominated, non-investment grade, fixed-rate, taxable corporate bond market. The Bloomberg US Aggregate Municipal Bond Index is an unmanaged broad-based total return index composed of approximately 8,000 investment grade, fixed rate, and tax-exempt issues, with a remaining maturity of at least one year. The J.P. Morgan Emerging Markets Bond Index (EMBI Global Index) is an unmanaged market capitalization Index that tracks total returns for USD- denominated debt instruments issued by emerging market sovereign and quasi- sovereign issuers. The J.P. Morgan Government Bond Index-Emerging Markets Global Diversified (GBI-EM Global Index) is a market capitalization Index that tracks the performance of local currency debt issued by emerging market governments. Bloomberg Euro Aggregate Index refers to the Bloomberg EuroAgg Index. The index measures the market of investment grade, euro-denominated, fixed- rate bond market, including treasuries, government-related, corporate and securitized issues. Inclusion is based on currency denomination of a bond and not country of risk of the issuer. Bloomberg Euro High Yield Index refers to the Bloomberg Euro High Yield 3% Issuer Capped Index. The index measures the of non-investment grade, fixed-rate corporate bonds denominated in USD. Inclusion is based on the currency of issue, and not the domicile of the issuer. The index excludes emerging market debt. Other: The FTSE EPRA/NAREIT Developed ex US Index is a subset of the FTSE EPRA/NAREIT Developed Index and is designed to track the performance of listed real estate companies and REITS. The S&P GSCI Commodity Index is a composite index of commodity sector returns, representing an unleveraged, long-only investment in commodity futures that is broadly diversified across the spectrum of commodities. It is not possible to invest in an unmanaged index. Commodities: WTI Oil refers to West Texas Intermediate (WTI) Crude Oil, a land-locked crude, delivered via pipeline into Cushing, Oklahoma. Brent Oil refers to Brent crude oil, a waterborne crude oil produced in the North Sea. Currencies: Euro (\$/€) refers to the Euro's exchange rate with the Dollar. Pound (\$/£) refers to the British Pound's exchange rate with the US Dollar. Japanese Yen (¥/\$) refers to the US Dollar's exchange rate with the Japanese Yen. Swiss Franc (CHF/€) refers the Euro's exchange rate with the Swiss Franc. Chinese Yuan Renminbi (CNY/\$) refers to the US Dollar's exchange rate with the Chinese Yuan Renminbi. Rates: The 2-Year Treasury is a US Treasury debt obligation that has a maturity of 2 years. The 10-Year Treasury is a US Treasury debt obligation that has a maturity of 10 years. The 2-10 Treasury Slope is the difference between the 10-Year Treasury and the 2- Year Treasury. The German Bunds 2-Year is a German debt obligation that has a maturity of 2 years. The German Bunds 10-Year is a German debt obligation that has a maturity of 10 years. The Japanese Govt Bonds 2-Year is a Japanese debt obligation that has a maturity of 2 years. The Japanese Govt Bonds 10-Year is a Japanese debt obligation that has a maturity of 10 years. The UK Gilts 10-Year is a UK debt obligation that has a maturity of 10 years. The Swiss Govt Bonds 10-Year is a Swiss debt obligation that has a maturity of 10 years. The French OATs 10-Year is a French debt obligation that has a maturity of 10 years. The Italian BTPs 10-Year is a Italian debt obligation that has a maturity of 10 years. The Spanish Bonos 10-Year is a Spanish debt obligation that has a maturity of 10 years. Spreads: High Yield (HY) Corporate Spread is the Bloomberg US Corporate High Yield Average Option Adjusted Spread (OAS), which measures the spread between the US Treasury yield curve and the Bloomberg US Corporate High Yield curve. The Bank Loan Spread is the daily discount margin (3-year life) of the Credit Suisse Leveraged Loan Index, which is designed to mirror the investable universe of the USD-denominated leveraged loan market. The Investment Grade (IG) Corporate Spread is the Bloomberg US Aggregate Corporate Average OAS, which measures the spread between the US Treasury yield curve and the Bloomberg US Corporate Average curve. The EMD Spread is the J.P. Morgan EMBI Global Diversified Sovereign Spread, which measures the spread between the US Treasury yield curve and the J.P. Morgan EMBI Global Diversified Sovereign curve.

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