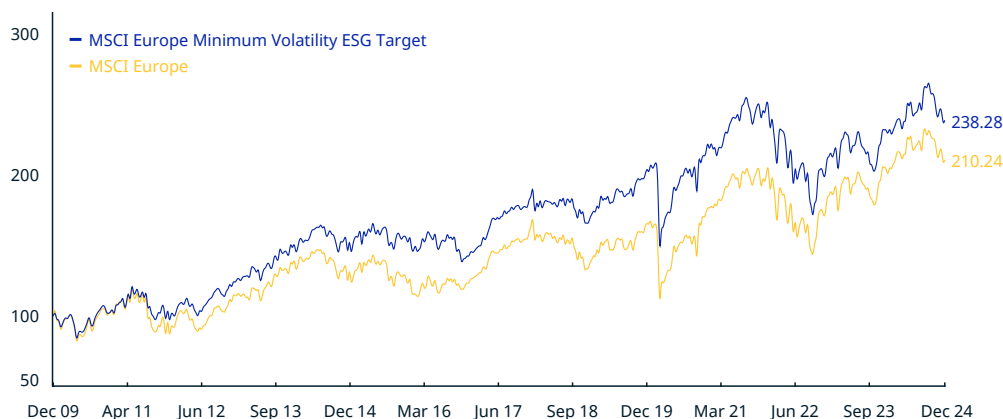


# MSCI Europe Minimum Volatility ESG Target Index (USD)

The MSCI Europe Minimum Volatility ESG Target Index is based on MSCI Europe Index, its parent index, which includes large and mid-cap stocks across 15 Developed Market (DM) countries\* in Europe. The index is designed to represent the performance of a strategy that seeks systematic integration of environmental, social and governance (ESG) norms in minimum volatility investing by seeking to minimize risk along with the improvement in the ESG profile of the index. The Index aims to achieve lowest risk while improving the ESG score relative to the underlying parent index.

For a complete description of the index methodology, please see [Index methodology - MSCI](#).

## CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (DEC 2009 – DEC 2024)



## ANNUAL PERFORMANCE (%)

Year	MSCI Europe Minimum Volatility ESG Target	MSCI Europe
2024	2.17	1.79
2023	16.58	19.89
2022	-20.79	-15.06
2021	15.37	16.30
2020	7.45	5.38
2019	22.90	23.77
2018	-8.13	-14.86
2017	24.62	25.51
2016	-6.72	-0.40
2015	3.32	-2.84
2014	-0.04	-6.18
2013	24.45	25.23
2012	18.54	19.12
2011	-2.51	-11.06

## INDEX PERFORMANCE – NET RETURNS (%) (DEC 31, 2024)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since Nov 30, 2007
					3 Yr	5 Yr	10 Yr		
MSCI Europe Minimum Volatility ESG Target	-2.81	-10.31	2.17	2.17	-1.92	3.18	4.72	3.69	
MSCI Europe	-2.44	-9.74	1.79	1.79	1.20	4.90	4.98	2.41	

## FUNDAMENTALS (DEC 31, 2024)

Div Yld (%)	P/E	P/E Fwd	P/BV
3.48	16.34	14.45	2.36
3.26	14.66	13.17	2.04

## INDEX RISK AND RETURN CHARACTERISTICS (NOV 30, 2007 – DEC 31, 2024)

	Beta	Tracking Error (%)	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since Nov 30, 2007	MAXIMUM DRAWDOWN (%)	Period YYYY-MM-DD
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr			
MSCI Europe Minimum Volatility ESG Target	0.81	5.34	20.78	16.79	17.25	14.38	-0.27	0.12	0.27	0.22	54.96	2007-12-10–2009-03-09
MSCI Europe	1.00	0.00	3.43	17.80	19.37	16.43	-0.06	0.22	0.27	0.15	62.35	2007-12-10–2009-03-09

<sup>1</sup> Last 12 months

<sup>2</sup> Based on monthly net returns data

<sup>3</sup> Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

\* DM countries in Europe include: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the UK.

The MSCI Europe Minimum Volatility ESG Target Index was launched on Sep 28, 2017. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance – whether actual or back-tested – is no indication or guarantee of future performance.

**INDEX CHARACTERISTICS**

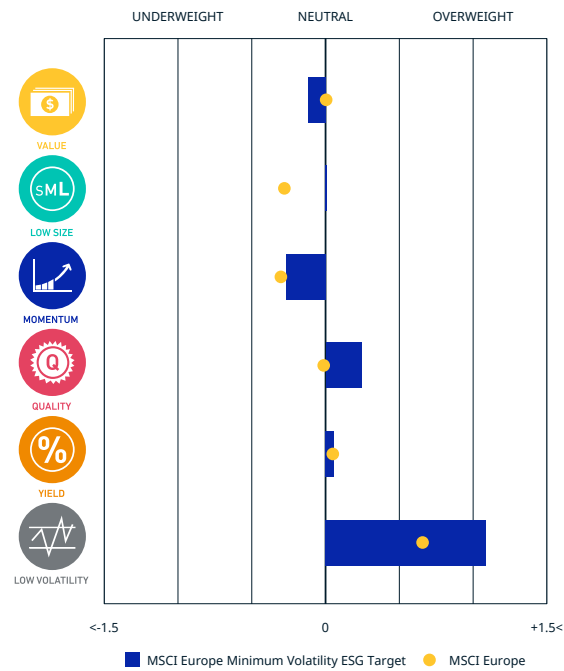
	MSCI Europe Minimum Volatility ESG Target	MSCI Europe
<b>Number of Constituents</b>	106	414
<b>Weight (%)</b>		
<b>Largest</b>	1.77	2.70
<b>Smallest</b>	0.05	0.02
<b>Average</b>	0.94	0.24
<b>Median</b>	1.04	0.10

**TOP 10 CONSTITUENTS**

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
SAGE GROUP (THE)	GB	1.77	0.15	Info Tech
SWISS RE	CH	1.60	0.42	Financials
KBC GROUPE	BE	1.60	0.17	Financials
3I GROUP	GB	1.59	0.42	Financials
SAP	DE	1.59	2.46	Info Tech
ASSICURAZIONI GENERALI	IT	1.58	0.26	Financials
DEUTSCHE BOERSE	DE	1.58	0.42	Financials
SWISS PRIME SITE	CH	1.56	0.08	Real Estate
MUENCHENER RUECKVERSICH	DE	1.54	0.65	Financials
ZURICH INSURANCE GROUP	CH	1.53	0.84	Financials
<b>Total</b>		<b>15.95</b>	<b>5.86</b>	

**FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN**

**MSCI FACTOR BOX**



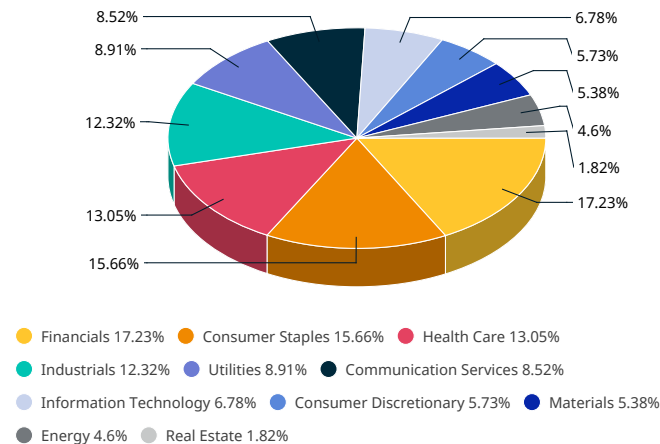
**MSCI FaCS**

- VALUE**  
Relatively Inexpensive Stocks
- LOW SIZE**  
Smaller Companies
- MOMENTUM**  
Rising Stocks
- QUALITY**  
Sound Balance Sheet Stocks
- YIELD**  
Cash Flow Paid Out
- LOW VOLATILITY**  
Lower Risk Stocks

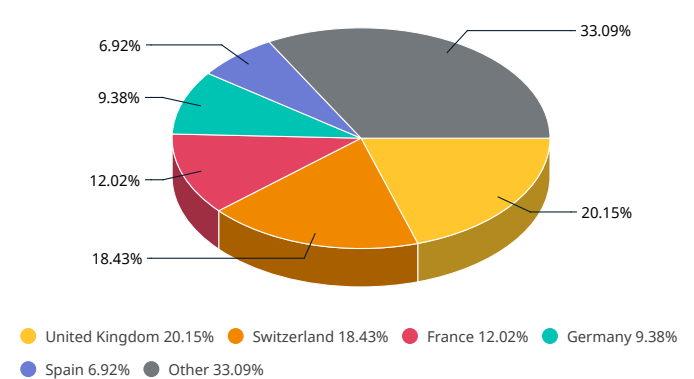
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

**SECTOR WEIGHTS**



**COUNTRY WEIGHTS**



**MSCI FACTOR BOX AND FaCS FRAMEWORK (Please refer to complete description of the MSCI FaCS methodology [here](#))**

MSCI FaCS is a standard method for evaluating and reporting the Factor characteristics of equity portfolios. MSCI FaCS consists of Factor Groups (e.g. Value, Size, Momentum, Quality, Yield, and Volatility) that have been extensively documented in academic literature and validated by MSCI Research as key drivers of risk and return in equity portfolios. These Factor Groups are constructed by aggregating 16 factors (e.g. Book-to-Price, Earnings/Dividend Yields, LT Reversal, Leverage, Earnings Variability/Quality, Beta) from the latest Barra global equity factor risk model, GEMLT, designed to make fund comparisons transparent and intuitive for use. The MSCI Factor Box, which is powered by MSCI FaCS, provides a visualization designed to easily compare absolute exposures of funds/indexes and their benchmarks along 6 Factor Groups that have historically demonstrated excess market returns over the long run.

**ABOUT MSCI**

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