

How climate indexes...

can help institutional investors seeking to align portfolios with global temperature goals

If average temperatures continue to rise at their current rate:



*Based on a 2 degree Celsius (2°C) temperature rise above mid-19th century levels.
Sources: Swiss Re (Apr 2021)
NOAA (Jan 2017)
IPCC (2018)³

To prevent the worst effects of climate change, we need to drive carbon emissions down to net-zero.

Source: IPCC (2021)

Net-zero targets
A clearly marked pathway for companies to reduce greenhouse gas emissions in line with the Paris Agreement goal of limiting global warming to well below 2°C, preferably no more than 1.5°C, above preindustrial levels.

Investors have a critical role to play in the transition to net-zero.

Below are five types of climate indexes from MSCI.

1 Climate Paris Aligned Index

Objective: Reduce carbon intensity by 50% compared with benchmark together annual decarbonization of 10%; increase weight in green solutions companies.

What was the historical climate performance?	69% lower carbon emissions than the reference index	Climate Paris Aligned Index 11 tons MSCI ACWI Climate Paris-Aligned Carbon dioxide equivalent (CO2e)/\$ million invested	Benchmark Index 89 tons MSCI ACWI Index CO2e/\$M invested
Key climate feature	The Climate Paris Aligned Index's carbon intensity is at least 50% that of the benchmark.*	Designed to align with a 1.5 °C scenario using MSCI Climate Value-at Risk, which provides a forward-looking, return-based assessment of how climate change could affect company valuations.	-14.44% MSCI ACWI Index A holder of MSCI ACWI would likely see an erosion of portfolio value by about 14.44% if the world were to decarbonize in line with a 1.5° warming scenario.**
Index performance	Value of a \$1,000 investment over five years: MSCI ACWI Climate Paris-Aligned: \$2,047 MSCI ACWI Index: \$1,909	Five-year annualized return 15.4% MSCI ACWI Climate Paris-Aligned 13.8% MSCI ACWI Index	

Performance reflects \$1,000 invested over a period of five years ending Sept. 30, 2021 based on return of the index over that period. The Information may contain back-tested data. Back-tested performance is not actual performance, but is hypothetical. There are frequently material differences between back-tested performance results and actual results subsequently achieved by any investment strategy.

* MSCI calculates the index's carbon intensity based on tons of carbon dioxide per USD million in company enterprise value, including cash (in USD million). ** As of May 2021 semi-annual index review.

Source: MSCI ESG Research LLC (September 2021)

2 Climate Change Indexes

Objective: Reduce carbon emission intensity by 30% compared to benchmark, annual decarbonization of 7%, increase weight in green opportunity companies.

What was the historical climate performance?	62% lower carbon emissions than reference index	Climate Change Index 34 tons MSCI ACWI Climate Change CO2e/\$M invested	Benchmark Index 89 tons MSCI ACWI Index CO2e/\$M invested
Key climate feature	The Climate Change index's carbon intensity is half that of the benchmark.	78 tons MSCI ACWI Climate Change CO2e/\$M sales	156 tons MSCI ACWI Index CO2e/\$M sales
Index performance	Value of a \$1,000 investment over five years: MSCI ACWI Climate Change: \$2,073 MSCI ACWI Index: \$1,909	Five-year annualized return 15.7% MSCI ACWI Climate Change 13.8% MSCI ACWI Index	

Performance reflects \$1,000 invested over a period of five years ending Sept. 30, 2021 based on return of the index over that period. The Information may contain back-tested data. Back-tested performance is not actual performance, but is hypothetical. There are frequently material differences between back-tested performance results and actual results subsequently achieved by any investment strategy.

Source: MSCI ESG Research LLC (September 2021)

3 Low Carbon Target Indexes

Objective: Minimize carbon footprint by 50% based on their exposure to carbon emissions and fossil fuel reserves.

What was the historical climate performance?	61% lower carbon emissions than the reference index	Low Carbon Target Index 20 tons MSCI ACWI Low Carbon Target CO2e/\$M invested	Benchmark Index 89 tons MSCI ACWI Index CO2e/\$M invested
Key climate feature	Minimize carbon intensity subject to a tracking error target of 30 basis points compared with its benchmark.	66 tons MSCI ACWI Low Carbon Target Index (tons CO2e/\$M sales)	156 tons MSCI ACWI Index (tons CO2e/\$M sales)
Index performance	Value of a \$1,000 investment over five years: MSCI ACWI Low Carbon Target: \$1,909 MSCI ACWI Index: \$1,909	Five-year annualized return 13.8% MSCI ACWI Low Carbon Target 13.8% MSCI ACWI Index	Carbon footprint Carbon footprint covers two key metrics: Low carbon emissions (relative to sales) Low potential carbon emissions (per dollar of market capitalization)

Performance reflects \$1,000 invested over a period of five years ending Sept. 30, 2021 based on return of the index over that period. The Information may contain back-tested data. Back-tested performance is not actual performance, but is hypothetical. There are frequently material differences between back-tested performance results and actual results subsequently achieved by any investment strategy.

Source: MSCI ESG Research LLC (September 2021)

4 Fossil Fuels Exclusion Index

Objective: Represent broad market performance while excluding companies that own oil, gas and coal reserves.

What was the historical climate performance?	27% lower carbon emissions than the reference index	Fossil Fuels Exclusion Index 59 tons MSCI ACWI ex Fossil Fuel CO2e/\$M invested	Benchmark Index 89 tons MSCI ACWI Index CO2e/\$M invested
Key climate feature	The index excludes companies with fossil fuel reserves.	MSCI ACWI ex Fossil Fuel 0%	5% MSCI ACWI Index
Index performance	Value of a \$1,000 investment over five years: MSCI ACWI ex Fossil Fuel: \$1,951 MSCI ACWI Index: \$1,909	Five-year annualized return 14.3% MSCI ACWI ex Fossil Fuel 13.8% MSCI ACWI Index	

Performance reflects \$1,000 invested over a period of five years ending Sept. 30, 2021 based on return of the index over that period. The Information may contain back-tested data. Back-tested performance is not actual performance, but is hypothetical. There are frequently material differences between back-tested performance results and actual results subsequently achieved by any investment strategy.

Source: MSCI ESG Research LLC (September 2021)

5 Environment Indexes

Objective: Selects companies that derive at least 50% of their revenues from environmentally beneficial products and services.

What was the historical climate performance?	46% lower carbon emissions than the reference index	Clean technology solutions (>50% revenue)	
Key climate feature	Green/fossil fuel-based net revenue exposure*	Environment Index 37 tons MSCI Global Environment Index	Benchmark Index 89 tons MSCI ACWI Index CO2e/\$M invested
Index performance	Value of a \$1,000 investment over five years: MSCI Global Environment: \$2,885 MSCI ACWI Index: \$1,909	Five-year annualized return 23.6% MSCI Global Environment 13.8% MSCI ACWI Index	

*The ratio of the weighted average clean-technologies solutions revenue (%) or "green revenue" to the weighted average fossil-fuel revenue (%) defined as the weighted average % revenue derived from any of the fossil fuel-related activities, including thermal coal mining, oil and gas extraction, thermal coal-based power generation, and oil and gas-based power generation.

Source: MSCI ESG Research LLC (September 2021)

Tools for addressing climate change

Investors use indexes from MSCI to help them make better informed decisions as they construct portfolios that integrate climate concerns.

Climate indexes can help investors:

