

MSCI IndexMetrics®

MSCI WORLD LOW CARBON TARGET INDEX MSCI EM LOW CARBON TARGET INDEX

September 2022



Please refer to the disclaimer at the end of this document



MSCI World Low Carbon Target Index

Key Metrics

	MSCI World Index	MSCI World Low Carbon Target Index - Current	MSCI World Low Carbon Target Index - Simulated
Total Return* (%)	0.6	-0.0	-0.7
Total Risk (%)	15.8	15.8	16.0
Return / Risk	0.04	-0.00	-0.04
Sharpe Ratio	0.02	-0.02	-0.06
Active Return (%)	0.0	-0.6	-1.3
Tracking Error (%)	0.0	0.4	0.8
Information Ratio		-1.50	-1.68
Historical Beta	1.00	1.01	1.02
Number of Constituents***	1552	1310	1045
Turnover** (%)	1.6	11.4	20.0
Price to Book***	3.1	3.1	3.1
Price to Earnings***	22.6	22.1	22.1
Dividend Yield*** (%)	1.8	1.8	1.8

Period: Dec 31, 2020 to Aug 31, 2022. * Gross returns annualized in USD ** Annualized one-way index turnover over index reviews *** Monthly averages

Performance (%)

	MSCI World Index	MSCI World Low Carbon Target Index - Current	MSCI World Low Carbon Target Index - Simulated
YTD	-17.5	-18.1	-18.9
1 Yr	-14.7	-15.4	-16.4
3 Yr			
5 Yr			
10 Yr			

Gross returns for the period ending Aug 31, 2022. Returns are annualized for periods longer than a year



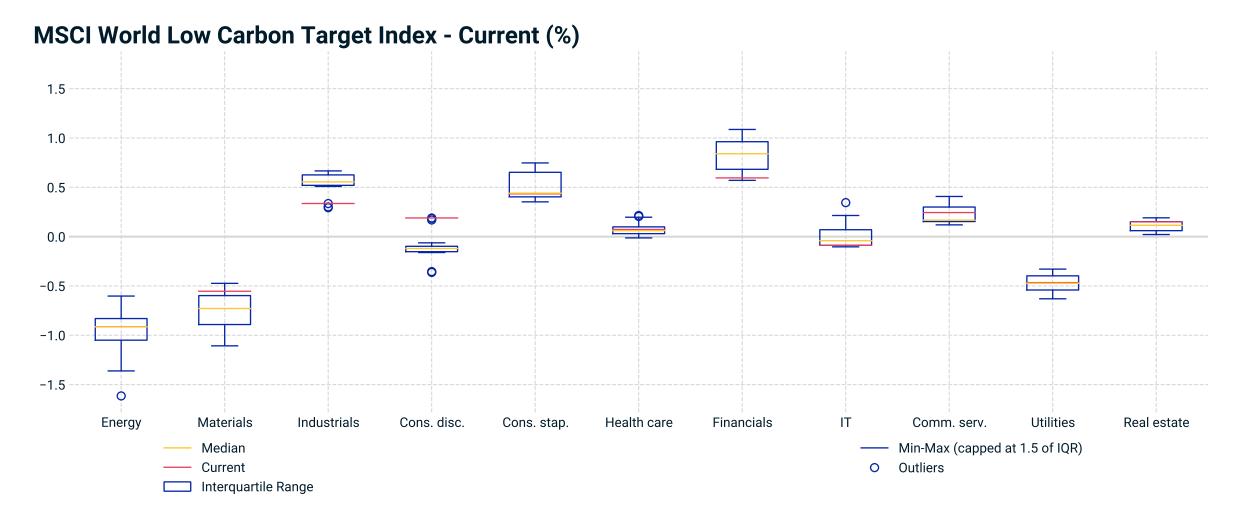
Index Performance (USD) 120 115 110 105 100 95 ' DEC ' AUG τ. JUL AUG JUN FEB MAY JUN SEP OCT NOV FEB APR JUL MAR MAR MAY APR '21 '22 MSCI World Index MSCI World Low Carbon Target Index - Simulated MSCI World Low Carbon Target Index - Current



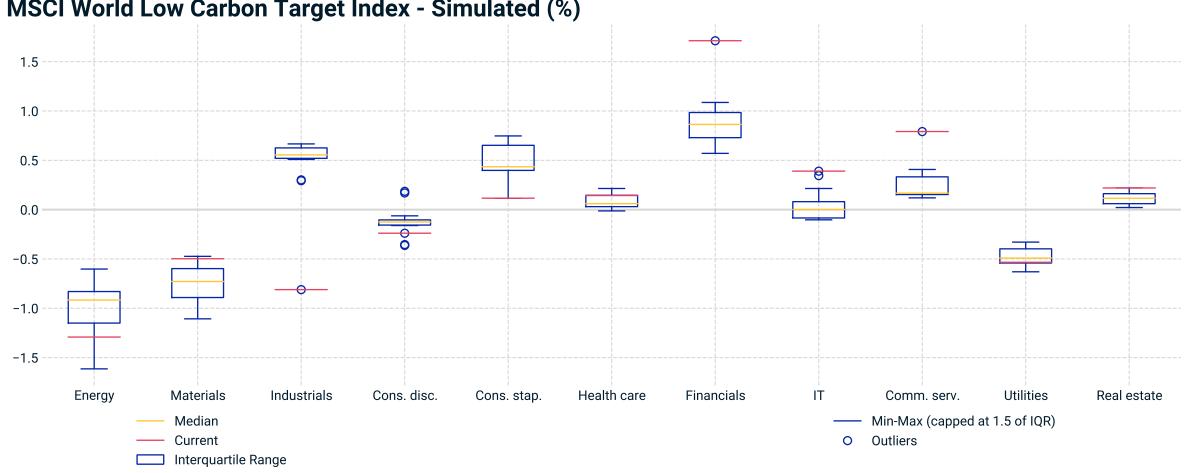
Relative Performance

MSCI 🌑









MSCI World Low Carbon Target Index - Simulated (%)

MSC

Period: Dec 31, 2020 to Aug 31, 2022, monthly data.

MSCI World Low Carbon Target Index - Current (%)

	Min	Max	Average	Current
Energy	-1.6	-0.6	-1.0	-0.9
Materials	-1.1	-0.5	-0.8	-0.6
Industrials	0.3	0.7	0.5	0.3
Cons. Disc.	-0.4	0.2	-0.1	0.2
Cons. Stap.	0.4	0.7	0.5	0.4
Health Care	-0.0	0.2	0.1	0.1
Financials	0.6	1.1	0.8	0.6
ІТ	-0.1	0.3	0.0	-0.1
Comm. Serv.	0.1	0.4	0.2	0.2
Utilities	-0.6	-0.3	-0.5	-0.5
Real Estate	0.0	0.2	0.1	0.1

MSCI World Low Carbon Target Index - Simulated (%)

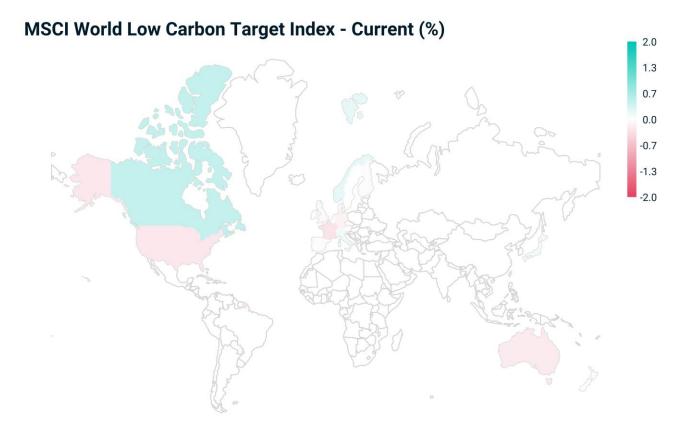
	Min	Max	Average	Current
Energy	-1.6	-0.6	-1.0	-1.3
Materials	-1.1	-0.5	-0.7	-0.5
Industrials	-0.8	0.7	0.5	-0.8
Cons. Disc.	-0.4	0.2	-0.1	-0.2
Cons. Stap.	0.1	0.7	0.5	0.1
Health Care	-0.0	0.2	0.1	0.1
Financials	0.6	1.7	0.9	1.7
IT	-0.1	0.4	0.0	0.4
Comm. Serv.	0.1	0.8	0.3	0.8
Utilities	-0.6	-0.3	-0.5	-0.5
Real Estate	0.0	0.2	0.1	0.2

Period: Dec 31, 2020 to Aug 31, 2022, monthly data.

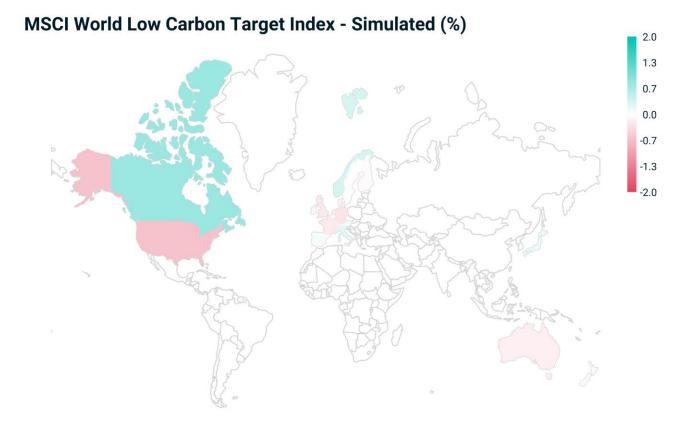
Period: Dec 31, 2020 to Aug 31, 2022, monthly data.



Active Country Exposures Geo Map



Active Country Exposures Geo Map



ESG Metrics

	MSCI World Index	MSCI World Low Carbon Target Index - Current	MSCI World Low Carbon Target Index - Simulated
Integration			
ESG Score	6.8	6.8	6.8
ESG Leaders (AAA-AA) (%)	38.7	39.8	39.1
ESG Laggards (B-CCC) (%)	1.9	1.8	1.8
ESG Trend Positive (%)	36.3	36.4	36.4
ESG Trend Negative (%)	2.7	2.5	2.7
ndex ESG Rating	AAA	AAA	AAA
Environmental Pillar Score	6.1	6.3	6.3
Social Pillar Score	5.2	5.2	5.2
Governance Pillar Score	5.7	5.7	5.7
Key Governance Metrics			
Board Independence (wtd Avg %)	80.0	79.8	79.4
Female Directors (wtd Avg %)	33.5	33.5	33.3
Deviation from One Share One Vote (%)	20.9	21.0	21.6
/alues and Norms			
Fobacco Involvement (%)	1.0	1.1	1.5
Civilian Firearms Producers (%)	0.1	0.1	0.1
Γies to Controversial Weapons (%)	0.6	0.7	0.0
Global Compact Compliance Violation (%)	0.4	0.0	0.0
Red Flag Controversies (%)	0.5	0.0	0.0
Orange Flag Controversies (%)	34.3	33.8	32.4

Integration, Values and Norms

As of August 31, 2022.



ESG Metrics

Climate Change			
	MSCI World Index	MSCI World Low Carbon Target Index - Current	MSCI World Low Carbon Target Index - Simulated
Climate Footprint			
Carbon Intensity – Scope 1 + 2 + 3 (Wtd Avg t CO2e/\$M EVIC)	354	256	135
Carbon Intensity – Scope 1 + 2 (Wtd Avg t CO2e/\$M EVIC)	45	18	17
Carbon Emissions to Sales – Scope 1 + 2 + 3 (Wtd Avg t CO2e/\$M Sales)	1042	860	689
Carbon Emissions to Sales – Scope 1 + 2 (Wtd Avg t CO2e/\$M Sales)	151	75	86
Low Carbon Transition Risks			
Low Carbon Transition Score	6.1	6.2	6.3
Solutions (%)	8.7	9.1	9.9
Product & Operational Transition (%)	15.2	11.9	9.0
Asset Stranding (%)	0.5	0.3	1.0
Exposure to Asset Stranding Risks			
Potential Carbon Emissions (t CO2e/\$M Invested)	1339	335	178
Fossil Fuel Reserves (%)	6.5	4.2	2.8
Fhermal Coal Mining (%)	0.8	0.5	0.0
Thermal Coal-Based Power Generation (%)	2.8	1.1	1.3
Unconventional Oil & Gas Extraction (%)	4.2	2.5	2.0
Exposure to Clean Technology Solutions			
Clean Technologies Solutions (> 20% Revenue)	9.8	10.1	10.5
Clean Technologies Solutions Revenue (wtd Avg %)	5.5	5.7	5.9
Green/fossil Fuel-Based Net Revenue Exposure	2.1	3.6	4.7
Other Climate Metrics			
Exposure to Carbon-Related Assets (%)	8.2	6.5	5.9
Climate-Related Controversies (%, Score ≤ 4)	0.8	0.4	0.0
Low Carbon Transition Management Score (% Top Quartile)	72.1	74.0	72.5

As of August 31, 2022.



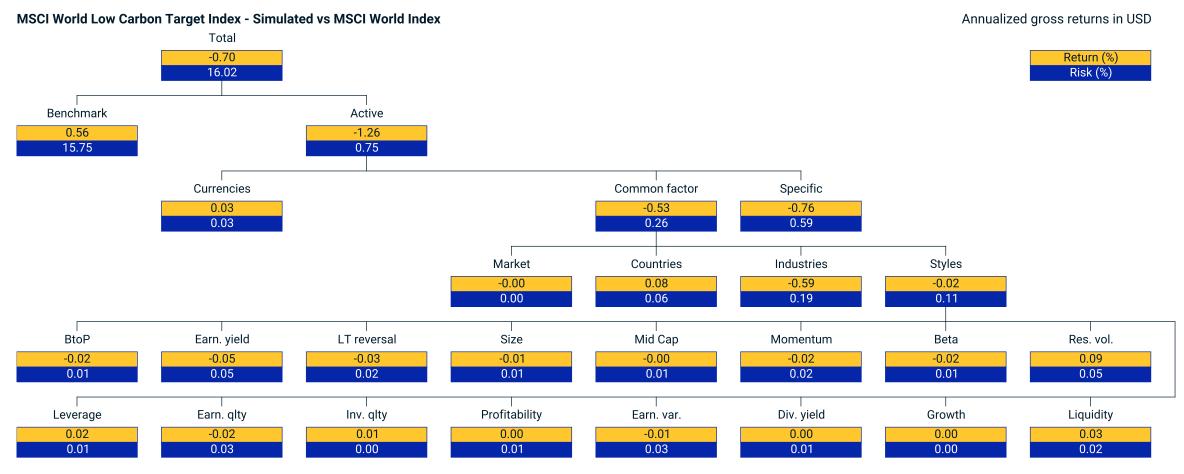
GEMLT Active Perf. Attribution



Period: Dec 31, 2020 to Aug 31, 2022.



GEMLT Active Perf. Attribution



Period: Dec 31, 2020 to Aug 31, 2022.



GEMLT Active Perf. Attribution: Styles

Average exposure Res. vol. Liquidity Leverage Inv. qlty Profitability Div. yield Growth Mid Cap Size Earn. var. Earn. glty BtoP Beta LT reversal Momentum Earn. yield -0.025 -0.100-0.075 -0.050 0.000 0.025 0.075 0.100 0.050 Active annualized return contribution (%)

MSCI World Low Carbon Target Index - Current



GEMLT Active Perf. Attribution: Styles

Average exposure Res. vol. Liquidity Leverage Inv. qlty Growth Div. yield Profitability Mid Cap Size Earn. var. BtoP Earn. glty Momentum Beta LT reversal Earn. yield -0.025 -0.075 -0.050 0.000 0.025 0.050 0.075 Active annualized return contribution (%)

MSCI World Low Carbon Target Index - Simulated



GEMLT Active Perf. Attribution: Industries

MSCI World Low Carbon Target Index - Current Top / Bottom 10

			Average exposure		
	-0.010	-0.005	0.000	0.005	0.010
Energy Equipment and Services					
Oil and Gas and Consumable Fuels					
Internet Software and Services					
Construction and Containers and Paper					
Food and Beverage and Tobacco					
Diversified Financials					
Consumer Durables and Apparel					
Media					
Aerospace and Defense					
IT Services and Software					
Semiconductors					
Gold					
Aluminium and Diversified Metals					
Real Estate Management					
Health Care Services					
Steel			•		
Household and Personal Products					
Utilities					
Integrated Oil and Gas	•				
Oil and Gas Exploration and Production	•				
	-0.4	-0.2	0.0	0.2	0.4
		Ac	tive annualized return contribution (%	b)	

Average experies



GEMLT Active Perf. Attribution: Industries

MSCI World Low Carbon Target Index - Simulated Top / Bottom 10

	Average exposure				
	-0.010	-0.005	0.000	0.005	0.010
Energy Equipment and Services					
Oil and Gas and Consumable Fuels					
Internet Software and Services					
Construction and Containers and Paper					
Food and Beverage and Tobacco				•	
Diversified Financials					
Automobiles and Components			•		
Aerospace and Defense					
Real Estate					
Insurance					
Pharmaceuticals and Life Sciences					
Semiconductors					
Aluminium and Diversified Metals			•		
Health Care Services					
Real Estate Management					
Steel					
Household and Personal Products					
Utilities					
Integrated Oil and Gas					
Oil and Gas Exploration and Production	•				
	-0.4	-0.2	0.0	0.2	0.4
		Act	ive annualized return contribution	n (%)	



GEMLT Active Perf. Attribution: Countries

MSCI World Low Carbon Target Index - Current Top / Bottom 10

				Average exposure			
	-(0.004	-0.002	0.000	0.002	0.004	
Israel					<u> </u>		
Norway							
Germany							
Japan							
Austria							
Netherlands							
United States							
Sweden							
Switzerland				·····			
France							
Argentina							
Bahrain							
Spain							
Canada							
Italy							
Hong Kong							
Denmark							
Portugal							
Ireland							
Australia							
	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03
			Acti	ve annualized return contributior	n (%)		



Period: Dec 31, 2020 to Aug 31, 2022.

GEMLT Active Perf. Attribution: Countries

MSCI World Low Carbon Target Index - Simulated Top / Bottom 10

				Average exposure			
	-0.0	04	-0.002	0.000	0.002	0.004	
Israel					•		
Germany							
Norway					<u> </u>		
Japan							
Netherlands							
United States							
Singapore							
United Kingdom							
Sweden							
Switzerland							
Argentina							
New Zealand							
Spain							
Denmark							
Canada							
Hong Kong							
Italy							
Portugal							
Ireland							
Australia							
	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03
				annualized return contribution			

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MSCI EM Low Carbon Target Index

Key Metrics

	MSCI EM (Emerging Markets) Index	MSCI EM Low Carbon Target Index - Current	MSCI EM Low Carbon Target Index - Simulated
Total Return* (%)	-11.9	-12.2	-12.5
Total Risk (%)	10.8	10.7	10.7
Return / Risk	-1.11	-1.14	-1.17
Sharpe Ratio	-1.13	-1.17	-1.20
Active Return (%)	0.0	-0.3	-0.6
Tracking Error (%)	0.0	0.5	0.6
Information Ratio		-0.55	-1.06
Historical Beta	1.00	0.99	0.99
Number of Constituents***	1402	1169	1019
Turnover** (%)	4.8	12.7	16.9
Price to Book***	1.9	1.9	1.9
Price to Earnings***	15.5	15.3	15.3
Dividend Yield*** (%)	2.3	2.3	2.3

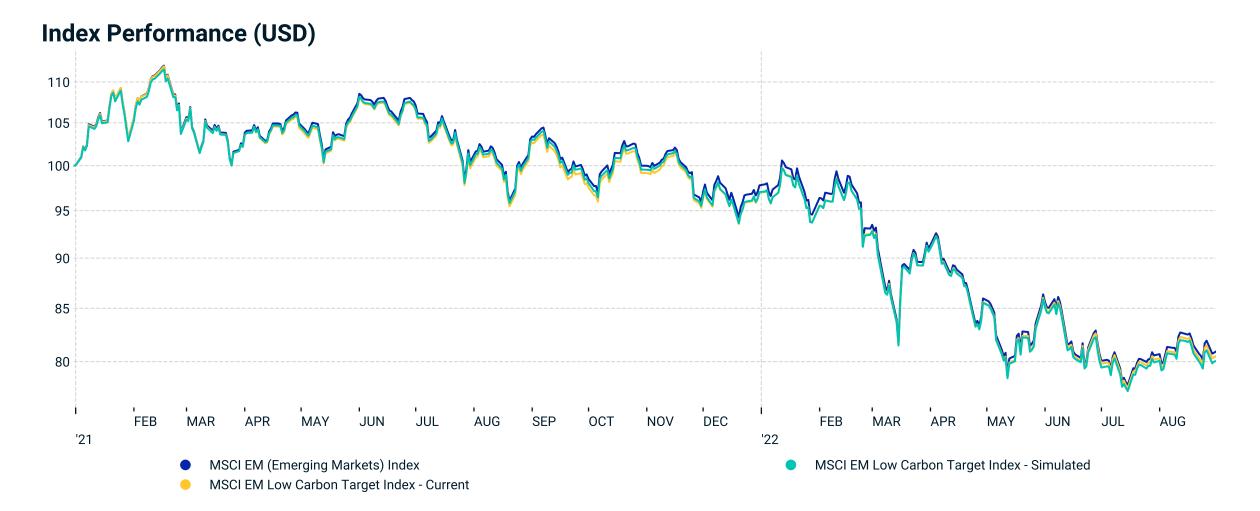
Period: Dec 31, 2020 to Aug 31, 2022. * Gross returns annualized in USD ** Annualized one-way index turnover over index reviews *** Monthly averages

Performance (%)

	MSCI EM (Emerging Markets) Index	MSCI EM Low Carbon Target Index - Current	MSCI EM Low Carbon Target Index - Simulated
YTD	-17.2	-17.0	-17.5
1 Yr	-21.5	-21.4	-22.1
3 Yr			
5 Yr			
10 Yr			

Gross returns for the period ending Aug 31, 2022. Returns are annualized for periods longer than a year

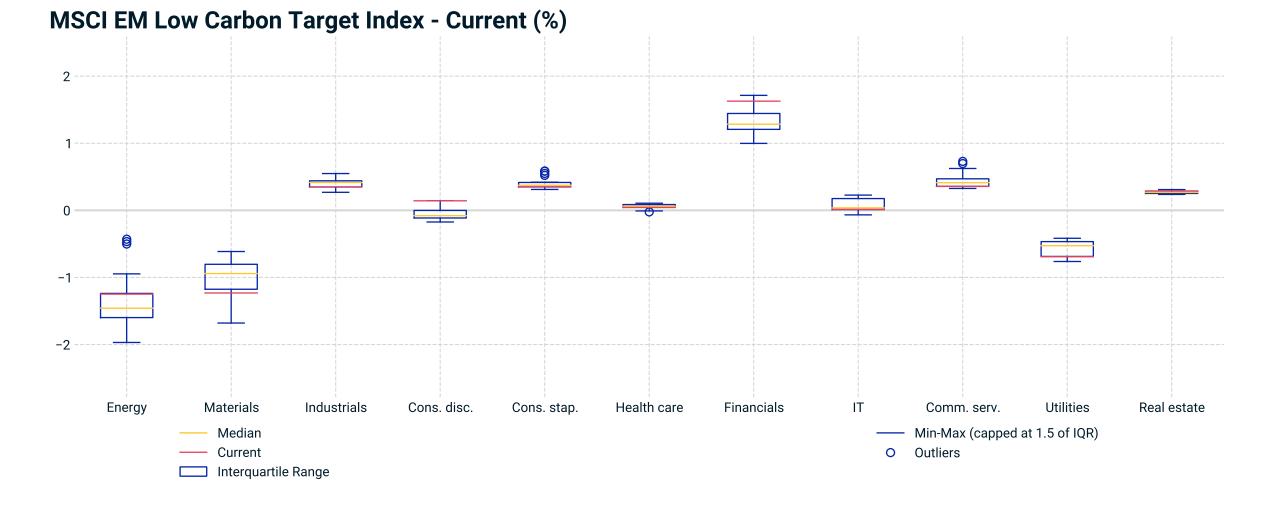




Relative Performance

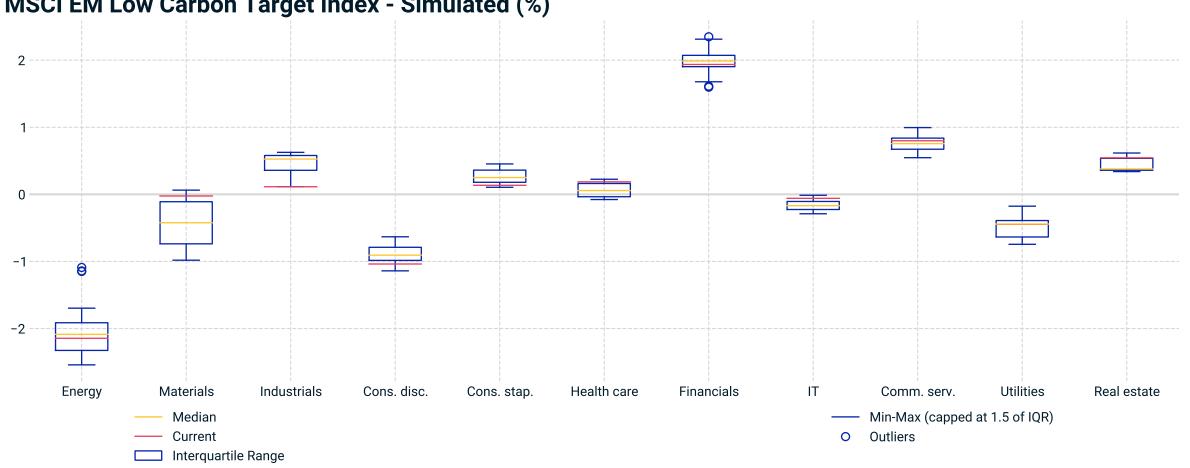






Period: Dec 31, 2020 to Aug 31, 2022, monthly data.

MSC



MSCI EM Low Carbon Target Index - Simulated (%)



MSCI EM Low Carbon Target Index - Current (%)

	Min	Max	Average	Current
Energy	-2.0	-0.4	-1.3	-1.2
Materials	-1.7	-0.6	-1.0	-1.2
Industrials	0.3	0.5	0.4	0.3
Cons. Disc.	-0.2	0.1	-0.1	0.1
Cons. Stap.	0.3	0.6	0.4	0.4
Health Care	-0.0	0.1	0.1	0.0
Financials	1.0	1.7	1.3	1.6
IT	-0.1	0.2	0.1	0.0
Comm. Serv.	0.3	0.7	0.4	0.4
Utilities	-0.8	-0.4	-0.6	-0.7
Real Estate	0.2	0.3	0.3	0.3

MSCI EM Low Carbon Target Index - Simulated (%)

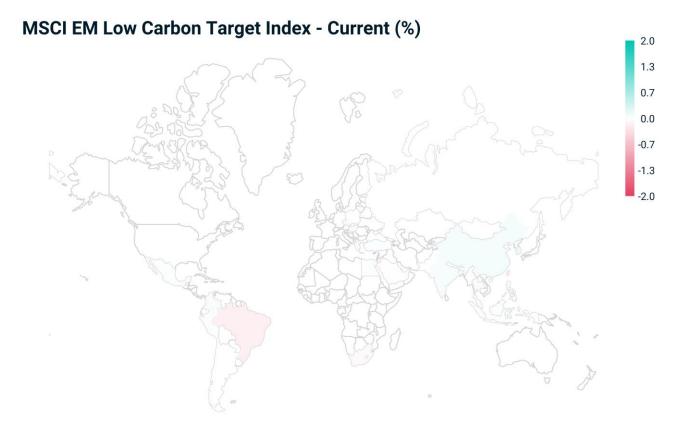
	Min	Max	Average	Current
Energy	-2.5	-1.1	-2.0	-2.1
Materials	-1.0	0.1	-0.4	-0.0
Industrials	0.1	0.6	0.5	0.1
Cons. Disc.	-1.1	-0.6	-0.9	-1.0
Cons. Stap.	0.1	0.5	0.3	0.1
Health Care	-0.1	0.2	0.1	0.2
Financials	1.6	2.3	2.0	1.9
ІТ	-0.3	-0.0	-0.2	-0.1
Comm. Serv.	0.5	1.0	0.8	0.8
Utilities	-0.7	-0.2	-0.5	-0.4
Real Estate	0.3	0.6	0.4	0.5

Period: Dec 31, 2020 to Aug 31, 2022, monthly data.

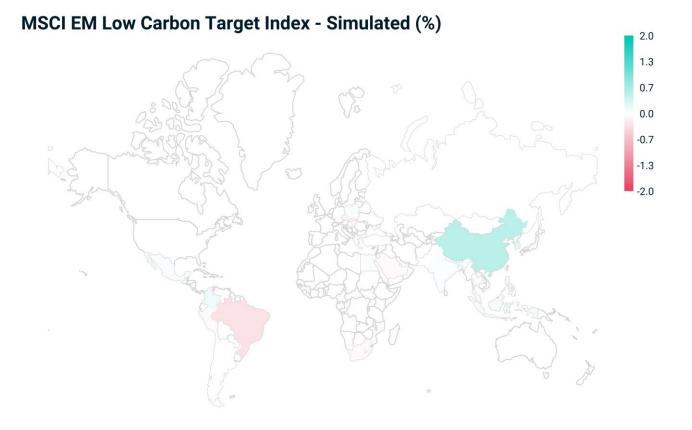
Period: Dec 31, 2020 to Aug 31, 2022, monthly data.



Active Country Exposures Geo Map



Active Country Exposures Geo Map



ESG Metrics

Integration, Values and Norms

	MSCI EM (Emerging Markets) Index	MSCI EM Low Carbon Target Index - Current	MSCI EM Low Carbon Target Index - Simulated
Integration			
ESG Score	5.3	5.3	5.4
ESG Leaders (AAA-AA) (%)	19.1	19.9	20.1
ESG Laggards (B-CCC) (%)	15.6	15.4	14.3
ESG Trend Positive (%)	29.2	28.8	29.6
ESG Trend Negative (%)	9.2	9.1	9.4
Index ESG Rating	BBB	BBB	А
Environmental Pillar Score	5.1	5.2	5.2
Social Pillar Score	5.0	5.1	5.1
Governance Pillar Score	4.3	4.4	4.4
Key Governance Metrics			
Board Independence (wtd Avg %)	61.1	61.3	61.1
Female Directors (wtd Avg %)	14.9	14.8	15.0
Deviation from One Share One Vote (%)	42.7	42.7	41.7
Values and Norms			
Tobacco Involvement (%)	0.4	0.5	0.6
Civilian Firearms Producers (%)	0.0	0.0	0.0
Ties to Controversial Weapons (%)	0.4	0.5	0.0
Global Compact Compliance Violation (%)	0.9	1.0	0.0
Red Flag Controversies (%)	0.9	1.0	0.0
Orange Flag Controversies (%)	12.2	11.4	10.2

As of August 31, 2022.



ESG Metrics

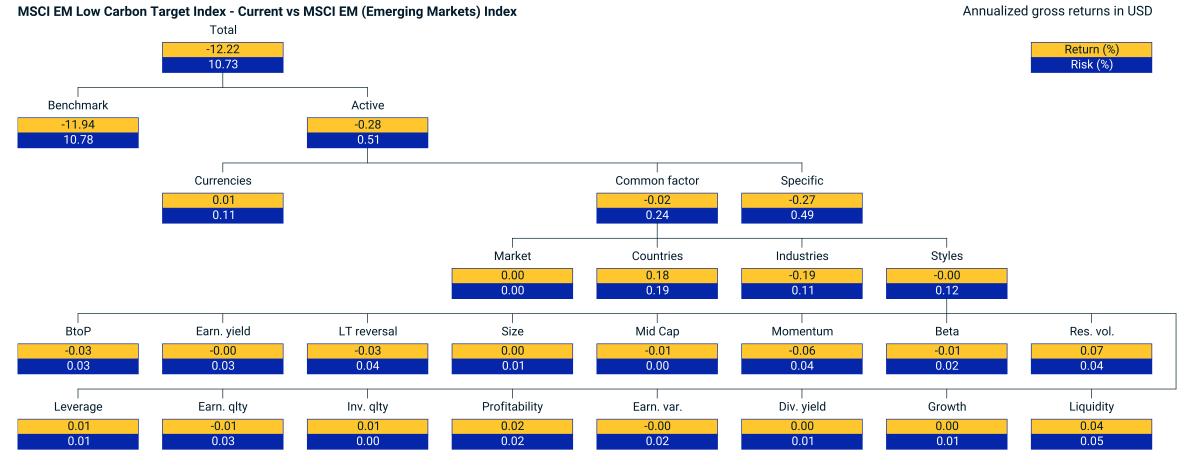
Climate Change

	MSCI EM (Emerging Markets) Index	MSCI EM Low Carbon Target Index - Current	MSCI EM Low Carbon Target Index - Simulated
Climate Footprint			
Carbon Intensity – Scope 1 + 2 + 3 (Wtd Avg t CO2e/\$M EVIC)	628	433	243
Carbon Intensity – Scope 1 + 2 (Wtd Avg t CO2e/\$M EVIC)	127	45	51
Carbon Emissions to Sales – Scope 1 + 2 + 3 (Wtd Avg t CO2e/\$M Sales)	1550	1147	895
Carbon Emissions to Sales – Scope 1 + 2 (Wtd Avg t CO2e/\$M Sales)	368	184	179
Low Carbon Transition Risks			
Low Carbon Transition Score	5.9	6.1	6.2
Solutions (%)	4.1	4.3	4.3
Product & Operational Transition (%)	20.3	17.2	16.8
Asset Stranding (%)	1.6	0.5	0.0
Exposure to Asset Stranding Risks			
Potential Carbon Emissions (t CO2e/\$M Invested)	4850	389	120
Fossil Fuel Reserves (%)	6.6	3.7	2.7
Thermal Coal Mining (%)	2.7	1.6	0.6
Thermal Coal-Based Power Generation (%)	2.7	0.8	1.5
Unconventional Oil & Gas Extraction (%)	2.2	1.6	1.7
Exposure to Clean Technology Solutions			
Clean Technologies Solutions (> 20% Revenue)	5.4	5.4	5.6
Clean Technologies Solutions Revenue (wtd Avg %)	4.7	4.7	4.8
Green/fossil Fuel-Based Net Revenue Exposure	2.6	11.4	12.1
Other Climate Metrics			
Exposure to Carbon-Related Assets (%)	7.3	5.7	4.8
Climate-Related Controversies (%, Score ≤ 4)	0.0	0.0	0.0
Low Carbon Transition Management Score (% Top Quartile)	27.5	28.1	27.6

As of August 31, 2022.



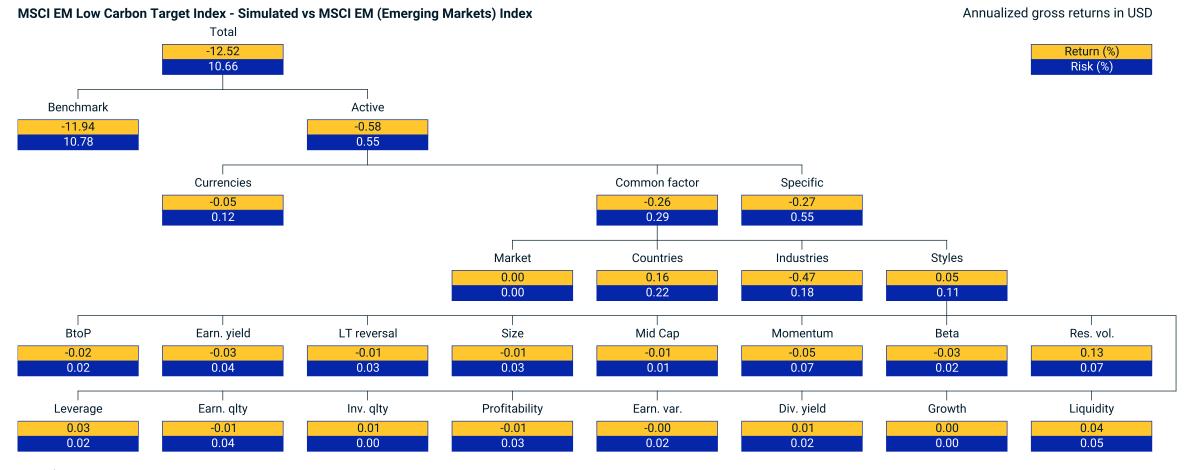
GEMLT Active Perf. Attribution



Period: Dec 31, 2020 to Aug 31, 2022.



GEMLT Active Perf. Attribution



Period: Dec 31, 2020 to Aug 31, 2022.



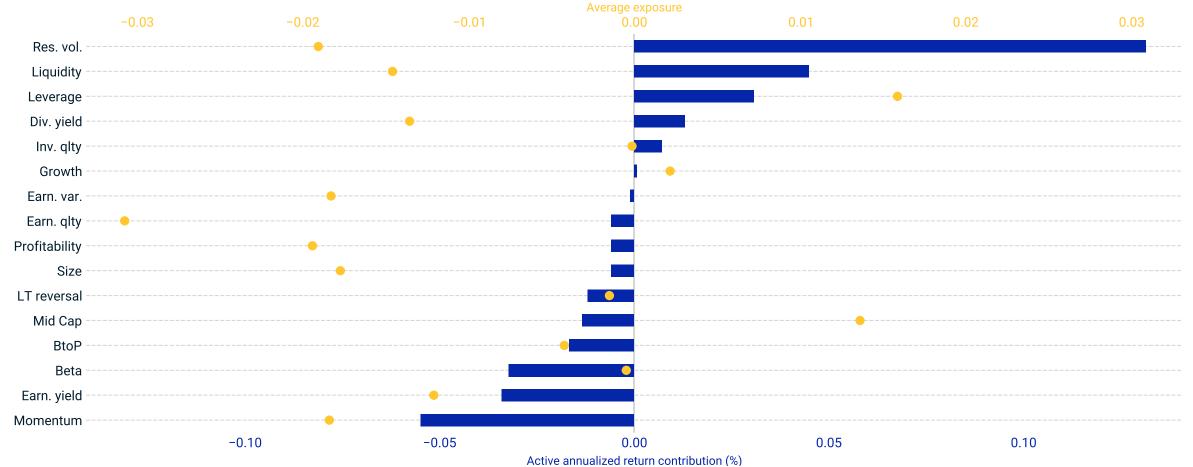
GEMLT Active Perf. Attribution: Styles

Average exposure Res. vol. Liquidity Profitability Inv. qlty Leverage Size Growth Div. yield Earn. var. Earn. yield Earn. glty --Mid Cap Beta BtoP LT reversal Momentum -0.02 -0.06 -0.040.00 0.02 0.06 0.04 Active annualized return contribution (%)

MSCI EM Low Carbon Target Index - Current



GEMLT Active Perf. Attribution: Styles



MSCI EM Low Carbon Target Index - Simulated



GEMLT Active Perf. Attribution: Industries

MSCI EM Low Carbon Target Index - Current Top / Bottom 10

•	-0.006	-0.004	-0.002	Average exposure 0.000	0.002	0.004	0.006
Fertilizers and Agricultural Chemicals							
Energy Equipment and Services							
Construction and Containers and Paper							
Aluminium and Diversified Metals							
Transportation Non-Airline							
Airlines							
Retailing							
Telecommunication Services							
Gold							
Chemicals							
Communications Equipment							
Semiconductors Equipment							
Household and Personal Products							
Steel							
Precious Metals and Minerals							
Real Estate Management							
Utilities							
Oil and Gas and Consumable Fuels				·			
il and Gas Exploration and Production			•				
Integrated Oil and Gas							
	-0.15	-0.10	-0.05	0.00	0.05	0.10	0.15
			Active a	nnualized return contributi	ion (%)		



GEMLT Active Perf. Attribution: Industries

MSCI EM Low Carbon Target Index - Simulated Top / Bottom 10

	Average exposure						
	-0.010		-0.005	0.000	0.005	0.	010
Energy Equipment and Services					<u> </u>		
Fertilizers and Agricultural Chemicals							
Transportation Non-Airline							
Construction and Containers and Paper							
Banks							
Gold							
Computers and Electronics				🔶 📠			
Telecommunication Services							
IT Services and Software							
Internet Software and Services							
Capital Markets							
Household and Personal Products							
Precious Metals and Minerals							
Aluminium and Diversified Metals							
Real Estate Management							
Utilities							
Steel							
Oil and Gas and Consumable Fuels							
Oil and Gas Exploration and Production				· · · · · · · · · · · · · · · · · · ·			
Integrated Oil and Gas							
	-0.3	-0.2	-0.1	0.0	0.1	0.2	0.3
				ive annualized return contributio			



GEMLT Active Perf. Attribution: Countries

MSCI EM Low Carbon Target Index - Current Top / Bottom 10

	-0.004	-0.002)	Average exposure 0.000		0.002	0.004
. .	-0.004	-0.002	-	0.000		0.002	0.004
Russia							
Taiwan							
Saudi Arabia							
China International							
Inited Arab Emirates							
Kuwait							
Hungary							
Turkey							
Indonesia							
Thailand							
Egypt							
Philippines							
South Africa							
Peru							
Czech Republic							
South Korea							
Brazil							
China Domestic							
Colombia							
India							
IIIula	0.15	0.10	0.05		0.05	0.10	0.15
	-0.15	-0.10	-0.05	0.00	0.05	0.10	0.15
			Active	annualized return contribu	(ION (%)		



Period: Dec 31, 2020 to Aug 31, 2022.

GEMLT Active Perf. Attribution: Countries

MSCI EM Low Carbon Target Index - Simulated Top / Bottom 10

	-0.003	-0.002	-0.001	Average exposure 0.000	0.001	0.002	0.003
Duraia	0.000	0.002	0.001	0.000	0.001	0.002	0.005
Russia							
Saudi Arabia							
Hungary							
ted Arab Emirates							
China International							
Kuwait							
Indonesia							
Thailand							
Peru							
Pakistan							
Poland							
Egypt							
Philippines							
Turkey							
Chile							
Czech Republic							
Malaysia							
Colombia							
Brazil							
India							
	-0.15	-0.10	-0.05	0.00	0.05	0.10	0.15
				annualized return contribut	ion (%)		



Period: Dec 31, 2020 to Aug 31, 2022.





Appendix

Risk and Return Metrics

Definition Definition Total Return (%) Skewness of index returns (based on monthly data), measures the Annualized index return Skewness degree of asymmetry of the return distribution. Total Risk (%) Annualized index risk (based on monthly returns) Kurtosis of index returns (based on monthly data), measures the Return / Risk Ratio of annualized return and annualized risk Kurtosis degree of peakedness of the return distribution. The Sharpe ratio is computed as the ratio of index excess returns and annualized total Maximum Active Returns Drawdown (%) Maximum active return drawdown (based on daily data) Sharpe Ratio risk where excess return is defined as the difference between the annualized total index return and the risk free rate corresponding to the currency of analysis Maximum Active Returns Drawdown Period (months) Maximum active return drawdown period (based on daily data) Active Return (%) Difference of the annualized index return and the annualized benchmark return Asset active weight multiplied by its marginal contribution to active Active Risk Contribution (%) risk and divided by the total index active risk Tracking Error (%) Annualized standard deviation of active returns (based on monthly data) Contributions to cross-sectional volatility (based on monthly data, 12-Information Ratio Ratio of index active return and tracking error (based on monthly data) Cross-Sectional Volatility Contributions (%) month moving average) Beta is a measure of the level of co-movement between an index and its benchmark. It is Weighted average of exposures to thematic relevance scores. Historical Beta calculated as the correlation between index and benchmark returns multiplied by the Thematic Exposure (%) Thematic relevance scores are expressed as a percentage to gauge a ratio of total risk of the index and its benchmark (based on monthly data) company's economic linkage to a given theme. Average Number of Constituents Average number of constituents (based on monthly data) Average return for the index when benchmark return is Up/down Markets - Average Monthly Return (%) Annualized Average one-way index turnover over rebalancing dates Turnover (%) positive/negative (based on monthly data) Price to Book Price to book harmonic average (based on monthly data) Average active return for the index when benchmark return is Up/down Markets - Average Monthly Active Return (%) positive/negative (based on monthly data) Price to Earnings Price to earnings harmonic average (based on monthly data) Historical beta computed for the index and benchmark returns when Dividend Yield (%) Dividend yield (%) average (based on monthly data) Up/down Markets - Beta benchmark return is positive/negative (based on monthly data) Annualized lower semi-deviation of index total returns (based on monthly data) Downside Deviation (%) Correlation between the index and benchmark returns when Up/down Markets - Correlation Ratio of the Average excess return (above a specified Acceptable Return, MAR, assumed benchmark return is positive/negative (based on monthly data) Sortino Ratio to be 0%) and downside deviation Ratio of average index and benchmark returns when benchmark return Up/down Markets - Capture Ratio (%) 5th percentile of historical index returns (based on monthly data) VaR @ 95% (%) is positive/negative (based on monthly data) VaR @ 99% (%) 1st percentile of historical index returns (based on monthly data) Up/down Markets - Beta Timing Ratio of up and down market betas (based on monthly data) Expected Shortfall (CVaR) @ 95% (%) Average of returns below Var @ 95% (based on monthly data) Expected Shortfall (CVaR) @ 99% (%) Average of returns below Var @ 99% (based on monthly data) Maximum Drawdown (%) Maximum index drawdown (based on daily data) Maximum Drawdown Period (months) Maximum index drawdown period (based on daily data)



Appendix

ESG: Integration, Values and Norms

	Definition		Definition	
ESG Score	Weighted average ESG Score. The ESG Score indicates how well the index companies manage their most material ESG risks relative to sector peers. Scores range from 10 (best) to	Deviation from One Share One Vote (%)	Exposure to companies flagged for any of multiple equity classes with differential voting rights, golden shares or limitations on voting rights.	
ESG Leaders (AAA-AA) (%)	0 (worst). Exposure to companies with an ESG rating of AAA or AA (best in class relative to peers).		Exposure to companies flagged for involvement in tobacco. Specifically, tobacco producers and companies that derive 5% or more aggregate revenue from the	
ESG Laggards (B-CCC) (%)	Exposure to companies with an ESG rating of B or CCC (worst in class relative to peers).	Tobacco Involvement (%)	manufacture, distribution, retailing, licensing, and supply of tobacco products, as defined by the methodology of the MSCI Global ex Tobacco Involvement Indexes.	
ESG Trend Positive (%)	Exposure to companies with a rating upgrade in the year prior to the most recent ESG rating.	Civilian Firearms Producers (%)	Exposure to civilian firearms producers.	
ESG Trend Negative (%)	Exposure to companies with a rating downgrade in the year prior to the most recent ESG rating.		Exposure to companies with ties to controversial weapons . MSCI ESG Researc	
Index ESG Rating	The letter rating equivalent of the calculation below: ESG Score * (1 + ESG Trend Positive - ESG Trend Negative - ESG Laggards)	Ties to Controversial Weapons (%)	Controversial Weapons definition covers cluster munitions, landmines, depleted uranium weapons, biological/chemical weapons, blinding lasers, non-detectable fragments and incendiary weapons, as defined by the methodology of the MSCI	
Environmental Pillar Score	The Environmental Pillar Score indicates how well the index companies manage their most		Global Ex-Controversial Weapons Indexes.	
	material environment risks. Scores range from 10 (best) to 0 (worst).	Global Compact Compliance Violation (%)	Exposure to companies in violation of the UN Global Compact principles.	
Social Pillar Score	The Social Pillar Score indicates how well the index companies manage their most material social risks. Scores range from 10 (best) to 0 (worst).	Red Flag Controversies (%)	Exposure to companies with environment-, governance-, customer-, human rights-, or labor rights-related controversies that are assessed as "Very Severe".	
Governance Pillar Score	The Governance Pillar Score indicates how well the index companies manage their most material governance risks. Scores range from 10 (best) to 0 (worst).	Orange Flag Controversies (%)	Exposure to companies with ongoing environment-, governance-, customer-, human rights-, or labor rights-related controversies that are assessed as "Severe" and	
Board Independence (wtd Avg %)	Weighted average % of independent board members		indicate structural problems at the company.	
Female Directors (wtd Avg %)	Weighted average % of female board members.			





ESG: Climate Change

	Definition		Definition	
Carbon Intensity (Wtd Avg t CO2e/\$M EVIC)	Carbon emissions normalized by Enterprise Value Including Cash (EVIC) for the index.	Clean Technologies Solutions (> 20% Revenue)	Exposure to companies that derive 20% or more revenue from any of the five clean tech themes: alternative energy, energy	
Carbon Emissions to Sales (Wtd Avg t CO2e/\$M Sales)	Efficiency of the index in terms of carbon emissions divided by total sales.		efficiency, green building, pollution prevention, or sustainable water.	
Low Carbon Transition Score	Weighted average low Carbon Transition (LCT) score measuring companies' level of alignment to the LCT. Companies with higher LCT score are more aligned with the LCT compared to the companies with lower	Clean Technologies Solutions Revenue (wtd Avg %)	Weighted average % revenue derived from any of the five clean tech themes including alternative energy, energy efficiency, green building, pollution prevention, or sustainable water.	
	scores. Scores range from 0 to 10.		The ratio of the weighted average clean technologies solutions	
Solutions (%)	Exposure to companies involved in low/zero carbon solutions that would have negative total carbon intensity and are likely to benefit in a low carbon scenario.	Green/fossil Fuel-Based Net Revenue Exposure	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	
	Exposure to companies with moderately to highly carbon intensive products		power generation, and oil and gas-based power generation.	
Product & Operational Transition (%)	& Operational Transition (%) or operations. Such companies' products or operations could go under transition in a low carbon scenario.		Exposure to companies that belong to the following GICS	
Asset Stranding (%)	Exposure to companies with very high risk exposure to transition risk and may face asset stranding risk in the short to medium term.	Exposure to Carbon-Related Assets (%)	industries: Energy Equipment & Services (101010), Oil, Gas & Consumable Fuels (101020), Electric Utilities (551010), Gas Utilities (551020), Multi-Utilities (551030).	
Potential Carbon Emissions (t CO2e/\$M Invested)	Carbon potential emissions normalized for the index.		Exposure to companies with climate change and energy-related	
Fossil Fuel Reserves (%)	Exposure to companies that own proved & probable coal and/or oil and natural gas reserves used for energy purposes. The definition is based on the MSCI Global Ex-Fossil Fuel Indexes Methodology.	Climate-Related Controversies (%, Score ≤ 4)	controversies that are flagged as Red, Orange and Yellow, covering scores 0 to 4. Factors affecting this evaluation include a history of involvement in GHG-related legal cases, widespread or	
Thermal Coal Mining (%)	Exposure to companies that derive some of their revenue from thermal coal mining.		egregious impacts due to corporate GHG emissions, resistance to improved practices, and criticism by NGOs and/or other third- party observers.	
Thermal Coal-Based Power Generation (%)	Exposure to companies that derive some of their revenue from thermal coal-based power generation.		party observers. Exposure to companies that belong to the top quartile in terms of	
Unconventional Oil & Gas Extraction (%)	Exposure to companies that derive revenues from unconventional oil and gas including oil sands, oil shale , shale gas, shale oil, coal seam gas, and coal bed methane. It excludes all types of conventional oil and gas	Low Carbon Transition Management Score (% Top Quartile)	their Low Carbon Transition Management Score relative to companies in the relevant GICS Sub-Industry that are constituents of the MSCI ACWI IMI.	
	production.			

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