

# **WTW GLOBAL EQUITY DIVERSIFIED INDEXES ON MSCI INDEXES\***

**\* Custom indexes built by MSCI on criteria  
provided by WTW**

July 2024

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## 1 Introduction

The WTW Global Equity Diversified Indexes on MSCI Indexes (*\*custom indexes built by MSCI on criteria provided by WTW*)<sup>1</sup> (herein “the Indexes”) aim to represent the performance of a strategy that seeks higher exposure to a custom multifactor S-score, calculated from three custom factors<sup>2</sup> – Value, Quality and Momentum – while targeting ex-ante risk similar to that of the respective MSCI parent index (Parent Index).

The Indexes are constructed by selecting constituents of the Parent Index and then use an optimization process that tries to meet the constraints below based on the Parent Index:

- Maximise the utility defined as the multi-factor S-score minus the sum of squared active weights of the constituents
- Reduce the weighted average greenhouse gas emissions (Scope 1 and 2) intensity of the Index by 50% by November 2030 Index Review<sup>3</sup> compared to the weighted average greenhouse gas emissions intensity of MSCI ACWI as computed in November 2019 Index Review
- Reduce the weighted average greenhouse gas emissions (Scope 1 and 2) intensity of the Index by 10% compared to that of the Parent Index at the time of Index Review
- Reduce the weighted average WTW Climate Transition Value-at-Risk<sup>4</sup> (or ‘CTVaR’) of the Index to 75% of that of the Parent Index
- Achieve a similar industry-adjusted ESG Score of the Index as that of the Parent Index

For the full list of optimization constraints applied to each Index, please refer to the section 2.3.2.

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<sup>1</sup> The Indexes are governed by a set of methodology and policy documents (“Methodology Set”), including the present index methodology document. Please refer to Appendix 9 for more details.

<sup>2</sup> Please refer to Appendix 3 for more details on definitions of the custom factors.

<sup>3</sup> Please refer to Appendix 5 for more details on the quarterly decarbonisation pathway.

<sup>4</sup> Please refer to Appendix 7 for details on the WTW Climate Transition Value-at-Risk.

## 2 Index Construction

The Indexes are constructed from the constituents of their respective Parent Indexes. The following steps are applied at initial construction of the Index.

- Defining the Parent Index
- Defining the exclusion criteria
- Defining the Custom Multi-Factor Score
- Defining the Optimization Objective and Constraints
- Determining the Optimized Index

### 2.1 Defining the Parent Index, Eligible Universe and the Base Currency for Optimization

Constructing the Indexes begins with the constituents of the respective Parent Index and then by applying screens to arrive at the eligible universe to perform the optimization. The respective Parent Indexes for the WTW Global Equity Diversified Indexes on MSCI Indexes are shown in the table below:

WTW Global Equity Diversified Index on MSCI Indexes	Parent Index
WTW Global Equity Diversified Index on MSCI ACWI	MSCI ACWI Index
WTW Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series	MSCI ACWI Islamic M-Series Index

The Indexes further differ in the constraints they apply. Please refer to section 2.3.2 Optimization Constrains for more detail.

The optimization is performed from a base currency perspective and does not allow short selling of securities. The optimization base currency is USD.

The optimization relies on the factor exposures for all the securities in the Parent Index and the factor covariance matrix of the relevant Barra Equity Model<sup>5</sup>.

<sup>5</sup> Please refer to Appendix 1 for the detailed information on model usage.

## 2.2 Eligible Universe Screening

The Indexes use company ratings and research provided by MSCI ESG Research<sup>6</sup> to determine eligibility for Index inclusion.

### 2.2.1 ESG Controversies Score Eligibility

The Indexes use MSCI ESG Controversies Scores to identify companies that are involved in very serious controversies involving the environmental, social, or governance impact of their operations and/or products and services. Companies are required to have an MSCI ESG Controversies Score of 1 or above to be eligible for inclusion in the Index.<sup>7</sup>

### 2.2.2 ESG Ratings Eligibility

The Indexes use MSCI ESG Ratings to identify companies that have demonstrated an ability to manage their ESG risks and opportunities.<sup>8</sup>

### 2.2.3 Controversial Business Involvement Criteria

The Indexes use MSCI ESG Business Involvement Screening Research and MSCI Climate Change Metrics to identify companies that are involved in the following business activities. Companies that meet the below mentioned business involvement criteria are excluded from the Indexes. Please refer to Appendix 2 for details on these criteria.

- Compliance with the United Nations Global Compact Principles
- Controversial Weapons
- Thermal Coal Mining
- Thermal Coal Power
- Tobacco
- Oil Sands

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<sup>6</sup> See section 4 for further information regarding ESG and climate data used in the Indexes that MSCI Limited and MSCI Deutschland GmbH sources from MSCI ESG Research LLC, a separate subsidiary of MSCI Inc. MSCI ESG Research is solely responsible for the creation, determination, and management of such data. MSCI Limited and MSCI Deutschland GmbH are the benchmark administrators for the MSCI Indexes.

<sup>7</sup> The exclusion of the companies using these criteria is applied from Feb 2013 Index Review.

<sup>8</sup> The exclusion of the companies using these criteria is applied from Feb 2013 Index Review.

## 2.3 Defining the Optimization Objective and Constraints

### 2.3.1 Optimization Objective

The optimization objective is to maximize utility defined as the custom multifactor S-score minus the scaled sum of squared active weights (i.e. Herfindahl Index<sup>9</sup>) subject to ex-ante total risk being less than or equal to the ex-ante total risk of the respective Parent Index at the time of rebalancing along with various optimization constraints specified in 2.3.2.

#### Calculation of the Custom multifactor S-score

First, for each security in the Parent Index, a custom multi-factor score is computed as the average of custom factor exposures adjusted for region-sector mean.<sup>10</sup>

$$MF(i) = \frac{1}{3} * CV(i) + \frac{1}{3} * CQ(i) + \frac{1}{3} CM(i)$$

Where,

$MF(i)$  = Custom multi-factor score for each security i

$CV(i)$  = Custom Value factor score for each security i

$CQ(i)$  = Custom Quality factor score for each security i

$CM(i)$  = Custom Momentum factor score for each security i

Then the custom multifactor S-score for each stock is calculated as:

$$\alpha(i) = \frac{2}{(1 + \exp(-MF(i)))} - 1$$

### 2.3.2 Optimization Constraints

The Indexes are constructed using the Barra Open Optimizer in combination with the relevant Barra Equity Model. The optimization uses the universe of eligible securities and the specified optimization objective and constraints to determine the Index.

<sup>9</sup> The risk aversion parameter is set to 0.075.

<sup>10</sup> Please refer to Appendix 3 for more details on the computation of the custom value, custom quality and custom momentum scores. Please refer to Appendix 4 for more details on the regions.

At each quarterly Index Review in May, August, November and February, the following optimization constraints are applied to the Indexes which aim to ensure investability while achieving relatively high exposure to the custom multifactor S-score with diversification and control over ex-ante total risk.<sup>11</sup>

The Indexes differ in the constraints they apply. The WTW Global Equity Diversified Index on MSCI ACWI additionally applies a decarbonization constraint relative to its Parent Index, a self-decarbonization constraint and a constraint on the custom multifactor S-score. Those constraints are not applicable for the WTW Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series. For more detail, please refer to constraint 15, 16 and 17 in the table below:

No	Category	Parameter	WTW Global Equity Diversified Index on MSCI ACWI	WTW Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series
1	Stock	Active Stock weight is less than or equal to +/-X% w.r.t. Parent Index	1%	1%
2		Max Stock weight is less than or equal to N times its weight in Parent Index	2x	2x
3		Max Stock weight is less than or equal to	Max(5%,1x of Parent weight)	Max(5%,1x of Parent weight)
4		Min Stock weight is greater than X%	0%	0%
5	Issuer	Active Issuer weight is less than or equal to +/-X% w.r.t. Parent Index	1%	1%
6		Max Issuer weight is less than or equal to	Max(5%,1x of Parent weight)	Max(5%,1x of Parent weight)
7	Sector	Active Sector weight is less than or equal to +/-X% w.r.t. Parent Index	5%	5%
8	Country	Active Country weight is less than or equal to +/-X% w.r.t. Parent Index	2.50%	2.50%
9		Max Country weight is less than or equal to N times its weight in Parent Index	3x	3x
10	Currency	Active Currency weight is less than or equal to +/-X% w.r.t. Parent Index	2.50%	2.50%
11	Factor	Active GEMLT Beta exposure is less than or equal to +/-X w.r.t. Parent Index	0.1	0.1
12		Active GEMLT Size exposure is less than or equal to +/-X w.r.t. Parent Index	0.1	0.1

<sup>11</sup> Please refer to Appendix 6 for more details on handling infeasible optimization.



No	Category	Parameter	WTW Global Equity Diversified Index on MSCI ACWI	WTW Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series
13	ESG <sup>12</sup>	Weighted Average Industry-Adjusted ESG Score of the Index is equal to or greater than X% of Weighted Average Industry-Adjusted ESG Score of the Parent Index	100%	100%
14	Climate	Weighted Average WTW CTVaR <sup>13</sup> of Index is equal to or greater than X% of Weighted Average WTW CTVaR of the Parent Index <sup>14</sup>	75%	75%
15		Weighted Average GHG Emissions Intensity (Scope 1+2 / EVIC) of Index equal to or lower than X% of Weighted Average GHG Emissions Intensity of the Parent Index	90% <sup>15</sup>	Not applied
16		Weighted Average GHG Emissions Intensity (Scope 1+2/ EVIC) of Index is equal or lower than GHG Emissions Intensity Target	Achieve 50% <sup>16</sup> of MSCI ACWI Nov 2019 Index Review Weighted Average GHG Emissions Intensity by Nov 2030 Index Review	Not applied
17	Custom multifactor S-Score	Weighted Average Custom multifactor S-Score of Index is equal to or greater than +X of Weighted Average Custom multifactor S-Score of Parent Index	0.05	Not applied

## 2.4 Determining the Optimized Index

The weights of the securities are an outcome of the optimization process. The optimization uses the eligible universe as the universe of eligible securities and the specified optimization objective and constraints to determine the Optimized Index.

## 2.5 Treatment of Unrated Companies

Companies not assessed by MSCI Research on data for the following MSCI ESG Research products are not eligible for inclusion in the indexes:<sup>17</sup>

<sup>12</sup> The industry-adjusted ESG Score constraint is applied from Feb 2013 Index Review.

<sup>13</sup> Please refer to Appendix 7 for details on the WTW Climate Transition Value-at-Risk.

<sup>14</sup> The WTW CTVaR constraint is applied from August 2021 Index Review.

<sup>15</sup> The GHG Emissions Intensity relative to the Parent constraint is applied from November 2013 Index Review.

<sup>16</sup> The Quarterly Decarbonization constraint and Custom multifactor S-Score constraints are applied from Feb 2020 Index Review. Please refer to Appendix 5 for more details on the quarterly decarbonisation pathway.

<sup>17</sup> The exclusion of the companies using these criteria is applied from Feb 2013 Index Review.

- MSCI ESG Controversies
- MSCI ESG Ratings

### **3 Maintaining the Indexes**

#### **3.1 Quarterly Index Reviews**

The Indexes are reviewed on a quarterly basis to coincide with the regular Index Reviews of the MSCI Global Investable Market Indexes. The changes are implemented as of the close of the last business day of February, May, August and November.

In general, the pro forma Indexes are announced nine business days before the effective date.

In general, MSCI uses MSCI ESG Research data<sup>18</sup> (including MSCI ESG Ratings, MSCI ESG Controversies Scores, MSCI Business Involvement Screening Research, and MSCI Climate Change Metrics) as of the end of the month preceding the Index Reviews for the rebalancing of the Indexes. For some securities, such data may not be published by MSCI ESG Research by the end of the month preceding the Index Review. For such securities, MSCI will use ESG data published after the end of month, when available, for the rebalancing of the Indexes.

#### **3.2 Ongoing Event Related Changes**

The general treatment of corporate events in the Indexes aims to minimize turnover outside of Index Reviews. The methodology aims to appropriately represent an investor’s participation in an event based on relevant deal terms and pre-event weighting of the Index constituents that are involved. Further, changes in Index market capitalization that occur as a result of corporate event implementation will be offset by a corresponding change in the Variable Weighting Factor (VWF) of the constituent.

The following section briefly describes the treatment of common corporate events within the Indexes.

No new securities will be added (except where noted below) to the Indexes between Index Reviews. Parent Index deletions will be reflected simultaneously in the Indexes.

**EVENT TYPE**

**EVENT DETAILS**

**New additions to the Parent Index**

A new security added to the Parent Index (such as IPO and other early

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<sup>18</sup> See section 4 for details of data sourced from MSCI ESG Research used in the Index.

inclusion) will not be added to the Index.

### **Spin-Offs**

All securities created as a result of the spin-off of an existing Index constituent will be added to the Index at the time of event implementation. Reevaluation for continued inclusion in the Index will occur at the subsequent Index Review.

### **Merger/Acquisition**

For Mergers and Acquisitions, the acquirer's post event weight will account for the proportionate amount of shares involved in deal consideration, while cash proceeds will be invested across the Index.

If an existing Index constituent is acquired by a non-Index constituent, the existing constituent will be deleted from the Index and the acquiring non-constituent will not be added to the Index.

### **Changes in Security Characteristics**

A security will continue to be an Index constituent if there are changes in characteristics (country, sector, size segment, etc.). Reevaluation for continued inclusion in the Index will occur at the subsequent Index Review.

Further detail and illustration regarding specific treatment of corporate events relevant to these Indexes can be found in the MSCI Corporate Events Methodology book under the sections detailing the treatment of events in Capped Weighted and Non-Market Capitalization Weighted Indexes.

The MSCI Corporate Events methodology book is available at:  
<https://www.msci.com/index-methodology>.

## **Appendix 1: New Release of BARRA® EQUITY MODEL or BARRA® OPTIMIZER**

The methodology presently uses MSCI Barra Global Equity Model for Long-Term Investors (“GEMTL”) for the optimization. A new release of the relevant Barra Equity Model or Barra Optimizer may replace the former version within a suitable timeframe.

## Appendix 2: Values- and Climate Change-Based Exclusion Criteria

The Indexes are constructed with an aim to reflect the performance of companies that are consistent with specific values- and climate change-based criteria<sup>19</sup>.

### Compliance with all the UN Global Compact Principles

- All companies that fail to comply with the United Nations Global Compact principles are excluded. In this filter, activities are not classified under any specific tolerance level.

### Values-based Exclusions Criteria

- **Controversial Weapons**
  - All companies with any tie to Controversial Weapons (cluster munitions, landmines, depleted uranium weapons, biological/chemical weapons, blinding lasers, non-detectable fragments and incendiary weapons) according to MSCI Ex-Controversial Weapons Indexes are excluded.
- **Tobacco**
  - All companies classified as a “Producer” or that derive any revenue from tobacco production.
  - All companies deriving 5% or more aggregate revenue from the distribution, retail and supply of tobacco-related products.<sup>20</sup>

### Climate Change-based Exclusions Criteria

- **Thermal Coal Mining**
  - All companies deriving 15% or more revenue from the mining of thermal coal are excluded.
- **Thermal Coal-based Power Generation**
  - All companies deriving 15% or more revenue from the thermal coal-based power generation are excluded.

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<sup>19</sup> The exclusion of the companies using these criteria is applied from Feb 2013 Index Review.

<sup>20</sup> For the WTW Global Equity Diversified Index on MSCI ACWI, the Tobacco exclusion was implemented on the individual revenues from distribution, retail or supply of tobacco related products of 5% or more prior to the May 2024 Index Review. From May 2024 Index Review onwards, the Tobacco exclusion is implemented on the aggregated revenue from these business activities of 5% or more.

- **Oil Sands**
  - All companies deriving 15% or more revenue from oil sands extraction generation are excluded.

## Appendix 3: Definition of Custom Factor Scores

Each of the three custom factors uses a unique set of data inputs and weighting, which follow a different definition than the standard factors derived from the Barra Equity Model.

Each Custom Factor Score has been defined below:<sup>21</sup>

### Value

Definition: =  $1/6 \cdot BTOP + 1/6 \cdot (1/2 \cdot ETOP + 1/2 \cdot ETOPF) + 1/6 \cdot CETOP + 1/6 \cdot EBITTOEV + 1/6 \cdot DTOP + 1/6 \cdot STOP$

Where,

BTOP = Book to Price

Earnings-to-Price:

ETOP = Earnings to Price

ETOPF = Analyst predicted Earnings to Price

CETOP = Cash Earnings to Price

EBITTOEV = Enterprise Multiple (EBIT to EV)

DTOP = Dividend Yield

STOP = Inverse of Price to Sales

### Quality

Definition: =  $1/3 \cdot (1/5 \cdot GP + 1/5 \cdot GPM + 1/5 \cdot ATO + 1/5 \cdot ROA + 1/5 \cdot ROE) + 1/3 \cdot (1/3 \cdot ABS + 1/3 \cdot ACF + 1/3 \cdot CETOE) + 1/3 \cdot (1/3 \cdot AGRO + 1/3 \cdot IGRO + 1/3 \cdot CXGRO)$

Where,

Profitability:

GP = Gross Profitability

GPM = Gross Profit Margin

ATO = Asset Turnover

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<sup>21</sup> For all the calculations, missing values are ignored such that if data for any signal is missing, then the average is calculated on the remaining descriptors for which the data is available.



ROA<sup>22</sup> = Return on Assets (3-year average)

ROE<sup>23</sup> = Return on Equity (3-year average)

Earnings Quality:

ABS = Balance Sheet Accruals

ACF = Cashflow Statement Accruals

CETOE = Cash Earnings to Earnings

Investment Quality:

AGRO = Total Assets Growth Rate

IGRO = Issuance Growth

CXGRO = Capital Expenditure Growth

### Momentum

Definition: =  $\frac{1}{4} * HALPHA + \frac{1}{4} * HALPHA\_UNADJ + \frac{1}{4} * (HALPHA / H\SIGMA) + \frac{1}{4} * (HALPHA / H\SIGMA)\_UNADJ$

Where,

HALPHA = Historical Alpha

HALPHA\_UNADJ = Historical Alpha (not adjusted for sector-region mean)

HALPHA / H\SIGMA = Historical Alpha / Historical Sigma (the non-transformed signals are used for ratio calculation; the ratio is subsequently transformed)

(HALPHA / H\SIGMA)\_UNADJ = Historical Alpha / Historical Sigma (not adjusted for sector-region mean)

Each of the above-mentioned signals and the resulting combined signals as well as the custom factor scores above are Z-score transformed based on the Parent Index and then winsorized at +/-3 and adjusted for the sector region-mean Z-score, unless stated otherwise. This transformation is happening at each nested level before the resulting signal is included into a combined signal.

<sup>22</sup> If one or two of the last 3 years are missing, then the average based on the remainder of the 3 years.

<sup>23</sup> If one or two of the last 3 years are missing, then the average based on the remainder of the 3 years.

The regions are defined as the constituents of corresponding MSCI indexes in Appendix 4. The sectors are defined as the Global Industry Classification Standard (GICS®) sector of the Parent Index.

The final custom multi-factor score is calculated using equal weights to these custom Value, Quality and Momentum scores.

## Appendix 4: Definition of Regions

7 custom regions are defined as the constituents of corresponding MSCI indexes as mentioned below:

No.	Region	Index
1	USA	MSCI USA Index
2	Canada	MSCI Canada Index
3	DM EME	MSCI EME Index
4	EM EMEA	MSCI EM EMEA Index
5	DM Asia	MSCI Pacific Index
6	EM Asia	MSCI EM Asia Index
7	EM Latin America	MSCI EM Latin America

## Appendix 5: Calculation of Target Metrics and Quarterly Decarbonization Trajectory of the WTW Global Equity Diversified Index on MSCI ACWI

### Calculation of GHG Intensity relative to EVIC

For Parent Index constituents where the Scope 1+2 Emissions Intensity is not available, the average Scope 1+2 Emissions Intensity of all the constituents of the MSCI ACWI in the same GICS® Industry Group in which the constituent belongs is used.

Security Level GHG Emissions Intensity =

$$\frac{\text{Scope 1 + 2 GHG Emissions} * (1 + EVIAF)}{\text{Enterprise Value} + \text{Cash(in M\$\text{)}}}$$

Enterprise Value Inflation Adjustment Factor (EVIAF) =

$$EVIAF = \left( \frac{\text{Average(Enterprise Value} + \text{Cash)}}{\text{Previous (Average(Enterprise Value} + \text{Cash))}} \right) - 1$$

Weighted Average GHG Emissions Intensity of Parent Index =

$$\sum (\text{Weight in Parent Index} * \text{Security Level GHG Emissions Intensity})$$

Weighted Average GHG Emissions Intensity of Derived Index =

$$\sum (\text{Index Weight} * \text{Security Level GHG Emissions Intensity})$$

### Calculation of Average Decarbonization for Quarterly Decarbonization Constraint

The Weighted Average GHG Emissions Intensity on the Base Date ( $W_0$ ) is used to compute the target Weighted Average GHG Emissions Intensity ( $W_t$ ) at the May, August, November and February Index Reviews as per the below formula.

$$W_t = 1.5 * W_0 * 0.975340673^t$$

Where  $W_0$  is the MSCI ACWI November 2019 Index Review<sup>24</sup> GHG Emissions Intensity (based on Scope 1+2/EVIC) at Base Date (November 2019 Index Review) and 't' is the number of the quarterly Index Reviews since the Base Date such that t=1 coincides with the February 2020 Index Review. The decarbonization parameter of 0.975340673 ensures that the targeted reduction in GHG Emissions Intensity of the Index in each index review follows a pathway such that the cumulative reduction compared to the weighted average GHG Emissions Intensity of MSCI ACWI as of November 2019 Index Review converges to 50% by November 2030 Index Review.

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<sup>24</sup> The November 2019 Index Review uses last end of month data for the Scope 1+2 / EVIC calculation, coinciding with November 29, 2019.

## Appendix 6: Handling Infeasible Optimizations

During the Index Reviews, in the event that there is no optimal solution that satisfies all the optimization constraints defined in Section 2.3.2, the following constraints will be relaxed until an optimal solution is found:

- Relax the quarterly decarbonization constraint, where the target for the GHG emissions intensity in that Index Review will be increased up to 115% of its level,  $W_t$ , in 3 steps.
- After exhausting all steps of the previous relaxation, relax the maximum asset weight multiple starting from 4x to 20x in steps of 2x.

For the MSCI Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series, the quarterly decarbonization constraint is not applied and therefore only the asset weight multiple constraint will be relaxed.

In the event that there is no optimal solution after the above constraints have been relaxed, the Indexes will not be rebalanced for that Index review.

## **Appendix 7: WTW Climate Transition Value-at-Risk (CTVaR)**

The WTW Climate Transition Value-at-Risk (CTVaR) is calculated by Willis Limited and is a measure of the risk of a reduction in an asset's value due to the global transition to net-zero emissions. It estimates the change in the value of an asset under a transition scenario, compared to its current market price. CTVaR is updated quarterly.

If there is no coverage or a significant drop in coverage of CTVaR in terms of number of securities in a particular Index Review, a fallback mechanism will be applied using the latest available quarterly data.

The WTW CTVaR data is recorded at quarterly frequency for March, June, September and December and is shared with MSCI on the 1<sup>st</sup> business day of these months following UK holidays.

For further details on the calculation, please refer to:

<https://www.wtwco.com/en-gb/solutions/products/climate-transition-value-at-risk>.

## **Appendix 8: MSCI Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series**

The MSCI Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series is constructed on the MSCI Global Equity Diversified Index on MSCI Indexes methodology with the following exceptions:

- The Index does not apply constraints 15, 16 and 17 per the table in section 2.3.2 Optimization Constraints.



## Appendix 9: Methodology Set

The Indexes are governed by a set of methodology and policy documents (“Methodology Set”), including the present index methodology document as mentioned below:

- Description of methodology set – [www.msci.com/index/methodology/latest/ReadMe](http://www.msci.com/index/methodology/latest/ReadMe)
- MSCI Corporate Events Methodology – [www.msci.com/index/methodology/latest/CE](http://www.msci.com/index/methodology/latest/CE)
- MSCI Fundamental Data Methodology – [www.msci.com/index/methodology/latest/FundData](http://www.msci.com/index/methodology/latest/FundData)
- MSCI Index Calculation Methodology – [www.msci.com/index/methodology/latest/IndexCalc](http://www.msci.com/index/methodology/latest/IndexCalc)
- MSCI Index Glossary of Terms – [www.msci.com/index/methodology/latest/IndexGlossary](http://www.msci.com/index/methodology/latest/IndexGlossary)
- MSCI Index Policies – [www.msci.com/index/methodology/latest/IndexPolicy](http://www.msci.com/index/methodology/latest/IndexPolicy)
- MSCI Global Industry Classification Standard (GICS) Methodology – [www.msci.com/index/methodology/latest/GICS](http://www.msci.com/index/methodology/latest/GICS)
- MSCI Global Investable Market Indexes Methodology – [www.msci.com/index/methodology/latest/GIMI](http://www.msci.com/index/methodology/latest/GIMI)
- MSCI Global ex Controversial Weapons Indexes Methodology – [www.msci.com/index/methodology/latest/XCW](http://www.msci.com/index/methodology/latest/XCW)
- ESG Factors in Methodology<sup>25</sup>

The Methodology Set for the Indexes can also be accessed from MSCI’s webpage <https://www.msci.com/index-methodology> in the section ‘Search Methodology by Index Name or Index Code’.

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<sup>25</sup> ‘ESG Factors in Methodology’ contains the list of environmental, social, and governance factors considered, and how they are applied in the methodology (e.g., selection, weighting or exclusion). It can be accessed in the Methodology Set as described above.

## Appendix 10: Changes to this Document

The following sections have been updated as of January 2024:

### Section 2.5: Treatment of Unrated Companies

- Moved treatment of companies with ratings and research not available from MSCI ESG Research from section 2.2.1 and 2.2.2 to a new section.

### Section 2.3.2: Optimization Constraints

- Added issuer-level constraints.

### Appendix 8: Methodology Set

- Added details on the Methodology Set for the Index.

The following sections have been updated as of May 2024:

### Appendix 2: Values- and Climate Change-Based Exclusion Criteria

- Clarification of implementation of Tobacco exclusions.

The following sections have been updated as of July 2024:

- Section 1, 2, 3 and 4: Expanded methodology text from WTW Global Equity Diversified Index on MSCI ACWI to WTW Global Equity Diversified Indexes on MSCI Indexes, allowing for multiple Indexes based on different Parent Indexes.
- Appendix 8: Added construction details for MSCI Islamic Global Equity Diversified Index on MSCI ACWI Islamic M-Series Index.

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