MSCI ESG FOCUS INDEX METHODOLOGY

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# MSCI ESG FOCUS INDEX METHODOLOGY

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INTRODUCTION

The MSCI ESG Focus Index (the ‘Index’) is designed to maximize its exposure to positive environmental, social and governance (ESG) factors while exhibiting risk and return characteristics similar to those of the underlying market capitalization weighted index. The index is constructed by selecting constituents of a market capitalization weighted index (the ‘Parent Index’) through an optimization process that aims to maximize exposure to ESG factors for a target tracking error budget under certain constraints.

The Index is sector-diversified and targets companies with high ESG ratings in each sector. Tobacco and Controversial Weapons companies are not eligible for inclusion in the Index.
2 ESG RESEARCH FRAMEWORK

MSCI ESG Research provides in-depth research, ratings and analysis of the environmental, social and governance-related business practices of thousands of companies worldwide. It consists of an integrated suite of tools and products to efficiently manage research, analysis and compliance tasks across the spectrum of ESG factors.

The MSCI USA ESG Select Index uses company ratings and research provided by MSCI ESG Research. In particular, this index uses the following three MSCI ESG Research products: MSCI ESG Ratings, MSCI ESG Controversies Score, and MSCI ESG Business Involvement Screening Research.

For details on MSCI ESG Research’s full suite of ESG products, please refer to:
http://www.msci.com/products/esg/about_msci_esg_research.html

2.1 MSCI ESG RATINGS

MSCI ESG Ratings provides research, analysis and ratings of how well companies manage environmental, social and governance risks and opportunities.

MSCI ESG Ratings provides an overall company ESG rating - a seven point scale from ‘AAA’ to ‘CCC’. In addition, the product provides scores and percentiles indicating how well a company manages each key issue relative to industry peers.

For more details on MSCI ESG Ratings, please refer to

2.2 MSCI ESG CONTROVERSIES

MSCI ESG Controversies (earlier known as MSCI Impact Monitor) provides assessments of controversies concerning the negative environmental, social, and/or governance impact of company operations, products and services. The evaluation framework used in MSCI ESG Controversies is designed to be consistent with international norms represented by the UN Declaration of Human Rights, the ILO Declaration on Fundamental Principles and Rights at Work, and the UN Global Compact. MSCI ESG Controversies Score falls on a 0-10 scale, with “0” being the most severe controversy.

For more details on MSCI ESG Controversies Score, please refer to
https://www.msci.com/documents/10199/acbe7c8a-a4e4-49de-9cf8-5e957245b86b
2.3 MSCI ESG BUSINESS INVOLVEMENT SCREENING RESEARCH

MSCI ESG Business Involvement Screening Research (BISR) aims to enable institutional investors to manage environmental, social and governance (ESG) standards and restrictions reliably and efficiently.

For more details on MSCI ESG Business Involvement Screening Research, please refer to http://www.msci.com/resources/factsheets/MSCLI_ESG_BISR.pdf
3 CONSTRUCTING THE MSCI ESG FOCUS INDEX

Constructing the MSCI ESG Focus Index involves the following steps:

- Defining the underlying Parent Index;
- Defining the exclusion criteria;
- Defining the optimization constraints; and
- Determining the optimized portfolio.

3.1 DEFINING THE PARENT INDEX

From the constituents of the Parent Index, securities of companies involved in following businesses are excluded from the Parent Index.

<table>
<thead>
<tr>
<th>ESG Focus Index</th>
<th>Parent Index</th>
<th>Business Exclusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI EAFE ESG Focus Index</td>
<td>MSCI EAFE Index</td>
<td>Tobacco and Controversial Weapons Companies</td>
</tr>
<tr>
<td>MSCI EM (Emerging Markets) ESG Focus Index</td>
<td>MSCI EM (Emerging Markets) Index</td>
<td>Tobacco and Controversial Weapons Companies</td>
</tr>
<tr>
<td>MSCI USA ESG Focus Index</td>
<td>MSCI USA Index</td>
<td>Tobacco and Controversial Weapons Companies</td>
</tr>
<tr>
<td>MSCI World ESG Focus Index</td>
<td>MSCI World Index</td>
<td>Tobacco and Controversial Weapons Companies</td>
</tr>
<tr>
<td>MSCI Taiwan ESG Focus Index</td>
<td>MSCI Taiwan Index</td>
<td>Tobacco and Controversial Weapons Companies</td>
</tr>
</tbody>
</table>

Please refer to Appendix 1 for more details on exclusions.

3.2 DEFINING THE EXCLUSION CRITERIA

Securities of companies involved in very severe business controversies are not eligible for inclusion in the MSCI ESG Focus Index. This is implemented by excluding constituents of Parent Index with ESG Controversy Score = 0 (‘Red Flag’ companies).
3.2.1 OTHER EXCLUSION CRITERIA

- Missing Controversy Score – Companies not assessed by MSCI ESG Research on Impact Monitor Controversy Scores are excluded from the Parent Index.
- Missing IVA Rating or ESG Score – Companies which are not rated by MSCI ESG Research on IVA assessment.

3.3 DEFINING THE OPTIMIZATION CONSTRAINTS

Constituents are selected to maximize exposure to higher ESG IVA scores, subject to maintaining risk and return characteristics similar to the Parent Index. ESG IVA scores are normalized and used in the optimization process. Optimization maximizes the Index’s exposure to ESG IVA scores for a given predicted tracking error. The following predicted tracking error targets are used for the construction of MSCI ESG Focus Indexes –

<table>
<thead>
<tr>
<th>No.</th>
<th>ESG Focus Index</th>
<th>Predicted Tracking Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MSCI EAFE ESG Focus Index</td>
<td>0.5%</td>
</tr>
<tr>
<td>2</td>
<td>MSCI EM (Emerging Markets) ESG Focus Index</td>
<td>1.0%</td>
</tr>
<tr>
<td>3</td>
<td>MSCI USA ESG Focus Index</td>
<td>0.5%</td>
</tr>
<tr>
<td>4</td>
<td>MSCI World ESG Focus Index</td>
<td>0.5%</td>
</tr>
<tr>
<td>5</td>
<td>MSCI Taiwan ESG Focus Index</td>
<td>1.0%</td>
</tr>
</tbody>
</table>

Optimization is a quantitative process that considers the market capitalization weights from the Parent Index, ESG scores and additional constraints to select and weight the constituents of the Index.

Normalization of the ESG scores allows the optimization process to assess each score in the context of the overall distribution of the ESG scores.

Please refer to Appendix 2 for the Optimization constraints.

3.4 DETERMINING THE OPTIMIZED PORTFOLIO

The Index is constructed using the Barra Open Optimizer in combination with the relevant Barra Equity Model. The optimization uses universe of eligible securities and the specified optimization objective and constraints to determine the constituents of the MSCI ESG Focus Index.
## 4 MAINTAINING THE MSCI ESG FOCUS INDEX

### 4.1 QUARTERLY INDEX REVIEWS

The Index is rebalanced on a quarterly basis to coincide with the regular Index Reviews (Semi-Annual Index Reviews in May and November and Quarterly Index Reviews in February and August) of the MSCI Global Investable Market Indexes. The changes are implemented at the end of February, May, August and November. The pro forma indexes are in general announced nine business days before the effective date.

ESG scores used for the Quarterly Index Reviews will be taken as of the end of the month preceding the Index Review, i.e., January, April, July and October.

At each Index Review, the optimization process outlined in Section 3 is implemented. Companies can only be added to the Index only at regular Index Reviews.

### 4.2 ONGOING EVENT-RELATED MAINTENANCE

The general treatment of corporate events in the MSCI ESG Focus 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.

Additionally, if the frequency of Index Reviews in the Parent Index is greater than the frequency of Index Reviews in the MSCI ESG Focus Index, the changes made to the Parent Index during intermediate Index Reviews will be neutralized in the MSCI ESG Focus Index.

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

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

<table>
<thead>
<tr>
<th>EVENT TYPE</th>
<th>EVENT DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>New additions to the Parent Index</td>
<td>A new security added to the parent index (such as IPO and other early inclusions) will not be added to the index.</td>
</tr>
</tbody>
</table>
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 this Index 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: TOBACCO AND CONTROVERSIAL WEAPONS
EXCLUSION CRITERIA

- Tobacco Involvement
  Companies which meet the following Tobacco involvement criteria are excluded from the Index
  - All companies classified as “Producer” or “Licensor”
  - All companies classified as “Distributor”, “Retailer”, or “Supplier” that earn 15% or more of revenues from tobacco products
  - All companies classified as “Ownership by a Tobacco Company” or “Ownership of a Tobacco Company”

- Controversial Weapons Involvement
  Companies which meet the following Controversial Weapons criteria are excluded from the Index
  - Cluster Bombs
    MSCI ESG Research’s cluster bomb research identifies public companies that are involved in the production of cluster bombs and munitions, or the essential components of these products.
  - Landmines
    MSCI ESG Research’s landmines research identifies public companies that are involved in the production of anti-personnel landmines, anti-vehicle landmines, or the essential components of these products.
  - Depleted Uranium Weapons
    MSCI ESG Research’s depleted uranium weapons research identifies public companies involved in the production of depleted uranium weapons and armor.
  - Chemical and Biological Weapons
    MSCI ESG Research’s chemical and biological weapons research identifies public companies that are involved in the production of chemical and biological weapons, or the essential components of these products.

Involvement criteria:
  - Producers of the weapons
Producers of key components of the weapons
Ownership of 20% or more of a weapons or components producer

The minimum limit is raised to 50% for financial companies having an ownership in a company that manufactures controversial weapons or key components of controversial weapons

Owned 50% or more by a company involved in weapons or components production

Revenue limits:
Any identifiable revenues, i.e., zero tolerance

For details please refer to MSCI Global ex Controversial Weapons Indexes Methodology at https://www.msci.com/index-methodology.
APPENDIX 2: OPTIMIZATION CONSTRAINTS

At each Quarterly Index Review, the following optimization constraints are used to ensure replicability and investability:

**Optimization Constraints**

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>EAFE</th>
<th>EM</th>
<th>USA</th>
<th>WORLD</th>
<th>TAIWAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Predicted Tracking Error</td>
<td>0.5%</td>
<td>1.0%</td>
<td>0.5%</td>
<td>0.5%</td>
<td>1.0%</td>
</tr>
<tr>
<td>2</td>
<td>Min Constituent Weight</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
</tr>
<tr>
<td>3</td>
<td>Constituent Active Weight</td>
<td>+/-2%</td>
<td>+/-2%</td>
<td>+/-2%</td>
<td>+/-2%</td>
<td>+/-2%</td>
</tr>
<tr>
<td>4</td>
<td>Security Weight as a Multiple of its weight in the Parent Index</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>5</td>
<td>Active Sector Weights</td>
<td>+/-5%</td>
<td>+/-5%</td>
<td>+/-5%</td>
<td>+/-5%</td>
<td>+/-5%</td>
</tr>
<tr>
<td>6</td>
<td>Active Country Weights</td>
<td>+/-5%</td>
<td>+/-5%</td>
<td>Not Applicable</td>
<td>+/-5%</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>7</td>
<td>One Way Turnover during May and November Index Review</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>8</td>
<td>One Way Turnover during Feb and Aug Index Review</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>9</td>
<td>Specific Risk Aversion</td>
<td>0.075</td>
<td>0.075</td>
<td>0.075</td>
<td>0.075</td>
<td>0.075</td>
</tr>
<tr>
<td>10</td>
<td>Common Factor Risk Aversion</td>
<td>0.0075</td>
<td>0.0075</td>
<td>0.0075</td>
<td>0.0075</td>
<td>0.0075</td>
</tr>
</tbody>
</table>

**Infeasible Solution** - During the Quarterly and Semi-Annual Index Reviews, in the event that there is no optimal solution that satisfies all the optimization constraints, first the turnover constraint will be relaxed up to a maximum turnover of 30% in steps of 1% until an optimal solution is found. If a feasible solution is not found at turnover of 30%, the predicted tracking error is relaxed up to a maximum of 5 times of the original predicted tracking error in steps on 0.1%. In the event that feasible solution is not found for maximum predicted error, the Index will not be rebalanced for that index review.
The following sections have been modified since April 2016:

Section 1: Introduction and other relevant sections

- To implement name change – Index name has been changed from ‘ESG Select’ to ‘ESG Focus’

Section 3.1, 3.3 and Appendix 2:

- Added reference to ‘USA ESG Focus’ Index.

The following sections have been modified since August 2016:

- The details on the Corporate Events treatment are now included in Section 4.2.

The following sections have been modified since June 2017:

Section 3.1, 3.3 and Appendix 2:

- Added reference to ‘MSCI World ESG Focus’ Index and ‘MSCI Taiwan ESG Focus’ Index.
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<tr>
<th>City</th>
<th>Phone</th>
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<tbody>
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<td>1 888 588 4567 *</td>
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<tr>
<td>Atlanta</td>
<td>+ 1 404 551 3212</td>
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<td>Boston</td>
<td>+ 1 617 532 0920</td>
</tr>
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<td>+ 1 312 675 0545</td>
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</tbody>
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<table>
<thead>
<tr>
<th>City</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Cape Town</td>
<td>+ 27 21 673 0100</td>
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<td>Paris</td>
<td>0800 91 59 17 *</td>
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**Asia Pacific**

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<tr>
<th>City</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
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<td>China North</td>
<td>10800 852 1032 *</td>
</tr>
<tr>
<td>China South</td>
<td>10800 152 1032 *</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>+ 852 2844 9333</td>
</tr>
<tr>
<td>Mumbai</td>
<td>+ 91 22 6784 9160</td>
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<tr>
<td>Seoul</td>
<td>00798 8521 3392 *</td>
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<tr>
<td>Singapore</td>
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</tr>
<tr>
<td>Sydney</td>
<td>+ 61 2 9033 9333</td>
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<tr>
<td>Taipei</td>
<td>008 0112 7513 *</td>
</tr>
<tr>
<td>Tokyo</td>
<td>+ 81 3 5290 1555</td>
</tr>
</tbody>
</table>

* = toll free

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