

# **MSCI Climate Change Paris-Aligned Select Indexes Methodology**

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## Contents

<b>1. Introduction .....</b>	<b>3</b>
<b>2. Constructing the Indexes .....</b>	<b>4</b>
2.1 Applicable Universe .....	4
2.2 Minimum Requirements .....	4
2.3 Initial Universe .....	5
2.4 Eligible Universe .....	5
2.5 Intermediate Universe.....	6
2.6 Final Universe .....	7
2.7 Treatment of Unrated Companies .....	9
<b>3. Maintaining the Indexes .....</b>	<b>10</b>
3.1 Semi-Annual Index Reviews .....	10
3.2 Ongoing Event-Related Changes .....	10
<b>4. MSCI ESG Research .....</b>	<b>12</b>
4.1 MSCI Climate Change Metrics .....	12
4.2 MSCI Impact Solutions: Sustainable Impact Metrics .....	13
4.3 MSCI ESG Controversies .....	13
4.4 MSCI ESG Business Involvement Screening Research.....	13
<b>Appendix I: MSCI Low Carbon Transition Risk Assessment .....</b>	<b>15</b>
<b>Appendix II: Calculation of Target Metrics .....</b>	<b>17</b>
<b>Appendix III: Decarbonization Trajectory of Indexes .....</b>	<b>20</b>
<b>Appendix IV: Iterative Down Weighting Process .....</b>	<b>21</b>
<b>Appendix V: Business Exclusion Criteria .....</b>	<b>24</b>
<b>Appendix VI: Minimum Requirements of EU CTB .....</b>	<b>27</b>
<b>Appendix VII: The Capping Methodology .....</b>	<b>28</b>
<b>Appendix VIII: Methodology Set.....</b>	<b>30</b>
<b>Appendix IX: Changes to this Document .....</b>	<b>31</b>
<b>Contact Us.....</b>	<b>34</b>

## 1. Introduction

The Commission Delegated Regulation (EU) 2020/1818 defines two labels: Climate Transition Benchmarks (CTBs) and Paris Aligned Benchmarks (PABs). These labels aim to provide transparent and credible standards for benchmarks targeting, among other things, a pre-defined decarbonization trajectory.

The MSCI Climate Change Paris-Aligned Select Indexes ("Indexes") are designed to meet the EU Paris Aligned Benchmarks under the EU Benchmark Regulation and are constructed from their corresponding Parent Indexes, considering the minimum requirements of the EU Benchmark Regulation. The Indexes aim to represent the performance of an investment strategy that reweights securities based upon the opportunities and risks associated with the climate transition risks and opportunities while satisfying the corresponding minimum requirements as per the EU Benchmark Regulation<sup>1</sup>. Additionally, the Indexes apply certain values-based exclusion criteria.

To avoid concentration, the Index is then capped as per the MSCI 20/35 Indexes methodology.<sup>2</sup>

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<sup>1</sup> The corresponding minimum requirements are defined in Commission Delegated Regulation (EU) 2020/1818, available under [https://eur-lex.europa.eu/eli/reg\\_del/2020/1818/oj](https://eur-lex.europa.eu/eli/reg_del/2020/1818/oj). MSCI's approach to meeting these requirements is described in the MSCI EU CTB/PAB Index Framework, available under <https://www.msci.com/index/methodology/latest/EUCTBPABIndexFramework>. In case changes to the Index methodology are required to maintain compliance with the regulatory CTB/PAB labels, MSCI will issue an announcement prior to implementing the changes in the methodology. MSCI will not conduct a formal consultation for such an update.

<sup>2</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 VIII for more details.

## 2. Constructing the Indexes

The Indexes use company ratings and research provided by MSCI ESG Research<sup>3</sup> for the Index construction.

### 2.1 Applicable Universe

The applicable universe includes all the existing constituents of the parent index ("Parent Index"). This approach aims to provide an opportunity set with sufficient liquidity and capacity.

The Indexes and their respective Parent Indexes are listed in the table below:

MSCI Climate Change Paris-Aligned Select Index	Parent Index
MSCI World Climate Change Paris-Aligned Select Index	MSCI World Index

### 2.2 Minimum Requirements

The requirements<sup>4</sup> for the MSCI Climate Change Paris-Aligned Select Indexes are detailed in Table 1.

Table 1: Requirements for the MSCI Climate Change Paris-Aligned Select Indexes

Requirements	MSCI Climate Change Paris-Aligned Select Indexes
<b>Minimum reduction in Weighted Average Scope 1+2+3 Carbon Emissions Intensity (WACI) relative to Parent Index</b>	50%
<b>Minimum reduction in Weighted Average Potential Emissions Intensity relative to Parent Index</b>	50%
<b>Baseline Exclusions</b>	<ul style="list-style-type: none"> <li>• Controversial Weapons</li> <li>• ESG Controversy Score<sup>5</sup> of 0</li> <li>• Orange Flag Environmental Controversies</li> <li>• Tobacco Manufacturers</li> </ul>
<b>Activity Exclusions</b>	<ul style="list-style-type: none"> <li>• Thermal Coal</li> <li>• Oil &amp; Gas</li> </ul>

<sup>3</sup> Please refer to Section 4 for further information regarding the ESG and climate data used in the Indexes that MSCI Limited 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>4</sup> The minimum requirements under Commission Delegated Regulation (EU) 2020/1818 are available under [https://eur-lex.europa.eu/eli/reg\\_del/2020/1818/oj](https://eur-lex.europa.eu/eli/reg_del/2020/1818/oj). MSCI's approach to meeting these requirements is described in the MSCI EU CTB/PAB Index Framework, available under <https://www.msci.com/index/methodology/latest/EUCTBPABIndexFramework>.

<sup>5</sup> 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. For more details on MSCI ESG Controversies, please refer to [www.msci.com/documents/esg-controversies](https://www.msci.com/documents/esg-controversies)

	<ul style="list-style-type: none"> <li>Fossil Fuel (Thermal Coal, Liquid Fuel, Natural Gas) based power generation<sup>6</sup></li> </ul>
<b>Minimum average reduction (per annum) in WACI relative to WACI at the Base Date</b>	7%
<b>Minimum ratio of Green Revenue/ Fossil fuels-based Revenue relative to Parent Index</b>	At least a Factor of 4
<b>Active weight in High Climate Impact Sector relative to Parent Index as defined in Section 2.5</b>	0%
<b>Corporate Target Setting</b>	Aims to achieve higher allocation to companies that set targets, publish emissions and have reduced their Carbon Intensity by 7% over each of the last 3 years. <sup>7</sup>

## 2.3 Initial Universe

Securities in the Parent Index are selected and reweighted using the “Combined Score” as defined in Section 3.4 – Determination of Combined Score of the MSCI Climate Change Index methodology<sup>8</sup> and as per the formula below –

$$\text{Security Weight} = \text{Combined Score} * \text{Weight in Parent Index}$$

The above weights are then normalized to 100%.

## 2.4 Eligible Universe

The Eligible Universe is constructed from the Initial Universe by excluding securities of companies that are involved in the following businesses and meet the business involvement exclusion criteria as detailed in Appendix V:

- Controversial Weapons
- Nuclear Weapons
- Tobacco
- Thermal Coal
- Oil & Gas

<sup>6</sup> As per [https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc\\_wg3\\_ar5\\_chapter7.pdf](https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_chapter7.pdf), thermal coal based power generation, liquid fuel based power generation and natural gas based power generation have median lifecycle emissions exceeding 100gCO<sub>2</sub>/kWh.

<sup>7</sup> Prior to the May 2021 Semi-Annual Index Review, this requirement has not been enforced and an increased allocation to companies which set evidence-based targets achieved by using the MSCI Climate Change Index Methodology

<sup>8</sup> For more details regarding the MSCI Climate Change Indexes, please refer to the MSCI Climate Change Indexes Methodology Book at <https://www.msci.com/index-methodology>.

Additionally, companies are required to have a minimum MSCI ESG Controversies Score of 1 or above or an MSCI Environmental Controversies Score of 2 or above to be eligible for inclusion in the Index.

## 2.5 Intermediate Universe

Each security in the Applicable Universe is classified into one of two climate impact sectors<sup>9</sup> based on its NACE section code. A stock can be assigned to either a 'High Climate Impact' or 'Low Climate Impact' sector. The Eligible Universe is broken into two smaller universes as described below:

### 2.5.1 High Climate Impact Intermediate Universe

High Climate Impact Intermediate Universe is constructed in following two steps –

- Select all securities in the High Climate Impact Sector from the Applicable Universe.
- Renormalize the weights of securities so that the aggregate weight of securities is equal to the weight of High Climate Impact Sector in the Parent Index.

#### 2.5.1.1 Increased Allocation to Companies Setting Targets

Within the High Climate Impact Intermediate Universe, securities ("securities with targets") that meet each of the below criteria are identified:

- Securities of companies that have published emissions reduction targets
- Securities of companies that publish their emissions
- Securities of companies that have reduced their emissions intensity by 7% over each of the last 3 years

The Index aims to increase the aggregate weight to securities with targets in the following steps:

1. Calculate the aggregate weight in the Parent Index of all securities with targets in High Climate Impact Sector as  $W_p$
2. Securities in the Applicable Universe are sorted in increasing order of their Scope 1+2+3 Carbon Emissions Intensity and securities in the top half of the sorted list are identified as "Top Half" securities.
3. Calculate the aggregate weight in the High Climate Impact Intermediate Universe of all "Top Half" securities with targets as  $W_o$
4. If  $W_o$  is less than 1.2 times of  $W_p$ , then the weights of all "Top Half" securities with targets in the High Climate Impact Intermediate Universe are scaled up proportionately so that their aggregate weight in the High Climate Impact Intermediate Universe is equal to 1.2 times of  $W_p$
5. The weight of the remaining securities in the High Climate Impact Sector will be reduced proportionately in order to retain the aggregate weight of the High Climate Impact Intermediate Universe.

<sup>9</sup> For details regarding the Climate Impact Sectors, please refer to the MSCI EU CTB/PAB Index Framework available under <https://www.msci.com/index/methodology/latest/EUCTBPABIndexFramework>.

## 2.5.2 Low Climate Impact Intermediate Universe

Low Climate Impact Intermediate Universe is constructed in following two steps –

- Select all securities in the Low Climate Impact Sector from the Applicable Universe.
- Renormalize the weights of securities so that the aggregate weight of securities is equal to the weight of Low Climate Impact Sector in the Parent Index.

### 2.5.2.1 Increased Allocation to Companies Setting Targets

Within the Low Climate Impact Intermediate Universe, securities (“securities with targets”) that meet each of the below criteria are identified:

- Securities of companies that have published emissions reduction targets
- Securities of companies that publish their emissions
- Securities of companies that have reduced their emissions intensity by 7% over each of the last 3 years

The Index aims to increase the aggregate weight to securities with targets in the following steps:

1. Calculate the aggregate weight in the Parent Index of all securities with targets in Low Climate Impact Sector as  $W_p$
2. Securities in the Applicable Universe are sorted in increasing order of their Scope 1+2+3 Carbon Emissions Intensity and securities in the top half of the sorted list are identified as “Top Half” securities.
3. Calculate the aggregate weight in the Low Climate Impact Intermediate Universe of all “Top Half” securities with targets as  $W_o$
4. If  $W_o$  is less than 1.2 times of  $W_p$ , then the weights of all “Top Half” securities with targets in the Low Climate Impact Intermediate Universe are scaled up proportionately so that their aggregate weight in the Low Climate Impact Intermediate Universe is equal to 1.2 times of  $W_p$
5. The weight of the remaining securities in the Low Climate Impact Sector will be reduced proportionately in order to retain the aggregate weight of the Low Climate Impact Intermediate Universe.

## 2.6 Final Universe

The Final Universe is constructed by combining the High Impact Intermediate Universe and the Low Impact Intermediate Universe. The High Impact Sector and Low Impact Sector weights are equal to their respective weight in the Parent Index.

The security weight within the High Impact and Low Impact sectors are in proportion of the security’s LCT Category<sup>10</sup> and LCT Score. Compared to the Parent Index, the Final Universe typically has

<sup>10</sup> For details regarding the LCT Category and LCT Score, please refer to Appendix I: MSCI Low Carbon Transition Risk Assessment

- Lower Carbon Footprint
- Higher Green Revenue to Fossil fuels-based Revenue ratio
- Equal weight in High Impact and Low Impact Sector

The weight of securities in the Final Universe is capped as per the below table:

No.	Constraints	Capping Level
1.	Issuer Weights Limits	Max (5%, Parent Issuer Weight) at Issuer Level for Broad Indexes <sup>12</sup>  Max (10%, Parent Issuer Weight) at Issuer Level for Narrow Indexes
2.	Active Sector Weights (the Energy GICS® <sup>10</sup> Sector is not constrained) relative to the Parent Index	+/- 5%
3.	Min Active Solutions Category Weights relative to the Parent Index	+2%
4.	High Climate Impact Sector and Low Climate Impact Sector Weights relative to the Parent	+/-0%

Please refer to Appendix IV for more details on capping and relaxations.

## 2.6.1 EU CTB Check

The Final Universe is assessed against the minimum requirements detailed in Table 1. In case the Final Universe is found deficient on any of the minimum requirements, then the weights of the securities in the Final Universe are determined through an iterative process as described in Appendix IV.

The weight of issuers in the iterative process is capped as per the below table:

For Broad Indexes <sup>11</sup>	Max(5%, Max (Parent Issuer Weight))
For Narrow Indexes <sup>11</sup>	Max(10%, Max(Parent Issuer Weight))

<sup>11</sup> Broad Indexes are defined as those Indexes for which the maximum market capitalization weight in the Parent Index does not exceed 10%.

Narrow Indexes are defined as those indexes for which the maximum market capitalization weight in the Parent Index is more than 10%.



## 2.6.2 Applying the MSCI 20/35 Indexes Methodology

The MSCI Capped Indexes methodology<sup>12</sup> is used to construct the Final Universe, such that the Indexes constrain the weight of the largest group entity<sup>13</sup> at 35%, and all other group entities at 20%, with a buffer of 10% applied on these limits at each index rebalancing.

## 2.7 Treatment of Unrated Companies

Companies not assessed by MSCI ESG Research on data for any of the following MSCI ESG Research products are not eligible for inclusion in the Indexes:

- MSCI ESG Controversies
- MSCI Climate Change Metrics
- MSCI Business Involvement Screening Research (BISR)

For the treatment of unrated companies in the calculation of target metrics, please refer to Appendix II.

<sup>12</sup> For details, refer to the MSCI Capped Indexes Methodology at [www.msci.com/index-methodology](http://www.msci.com/index-methodology)

<sup>13</sup> For a definition and a description of the maintenance of Group Entities, please refer to the MSCI 10/40 Indexes methodology at [www.msci.com/index-methodology](http://www.msci.com/index-methodology).

## 3. Maintaining the Indexes

### 3.1 Semi-Annual Index Reviews

The Indexes are rebalanced on a semi-annual basis, as of the close of the last business day of May and November, coinciding with the May and November Semi-Annual Index Review of the MSCI Global Investable Market Indexes. The pro forma Indexes are in general announced nine business days before the effective date.

In general, MSCI uses MSCI ESG Research data (including MSCI Climate Change Metrics, MSCI ESG Sustainable Impact Metrics, MSCI ESG Controversies and MSCI Business Involvement Screening Research) as of the end of the month preceding the Index Reviews 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.

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

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

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

#### EVENT TYPE

#### EVENT DETAILS

##### New additions to the Parent Index

A new security added to the parent index (such as IPO and other early inclusions) 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 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/latest/CE>.

## 4. MSCI ESG Research

The Indexes are a product of MSCI Inc. that utilizes information such as company ratings and research produced and provided by MSCI ESG Research LLC (MSCI ESG Research), a subsidiary of MSCI Inc. In particular, the Indexes use the following MSCI ESG Research products: MSCI Climate Change Metrics, MSCI Impact Solutions, MSCI ESG Controversies, MSCI ESG Business Involvement Screening Research. MSCI Indexes are administered by MSCI Limited and MSCI Deutschland GmbH.

### 4.1 MSCI Climate Change Metrics

MSCI Climate Change Metrics provides climate data & tools to support institutional investors seeking to integrate climate risk & opportunities into their investment strategy and processes. This includes investors seeking to achieve a range of objectives, including measuring and reporting on climate risk exposure, implementing low carbon and fossil fuel-free strategies, alignment with temperature pathways and factoring climate change research into their risk management processes, in particular through climate scenario analysis for both transition and physical risks.

The dataset spans across the four dimensions of a climate strategy: transition risks, green opportunities, physical risks and 1.5° alignment.

For more details on MSCI Climate Change Metrics, please refer to:

<https://www.msci.com/legal/disclosures/climate-disclosures>.

#### 4.1.1 Fossil Fuels and Power Generation Metrics

MSCI ESG Research identifies companies involved in fossil fuel-related assets and activities including fossil fuel reserves, resource extraction, power generation and generation capacity, revenue from such assets and activities and capital investments in such assets and activities. The metrics are based on disclosed activities, disclosed revenue and estimates of revenue that are extrapolated from company disclosures and eligible third-party sources (such as NGOs).

#### 4.1.2 Greenhouse Gas (GHG) Emissions

MSCI ESG Research collects reported emissions and uses proprietary estimation methodologies that follows the GHG Protocol in including carbon dioxide (CO<sub>2</sub>) and the five other principal GHGs: hydrofluorocarbons (HFCs), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>). Emissions of these other gases are accounted for in terms of the quantity of CO<sub>2</sub> that has an equivalent global warming potential.

#### 4.1.3 Low-Carbon Transition (LCT) Risk Assessment

MSCI ESG Research's LCT data assesses companies' exposure to risks and opportunities related to the low-carbon transition (the transition) based on the carbon-intensive nature of their business lines. In particular, in the event that the transition takes place, demand for carbon-intensive products would decline in favor of low- and zero-carbon products, which would put carbon-intensive companies and industries (for example, coal-based power generation and coal mining) at risk of having stranded assets over the long term (5+ years). MSCI ESG Research considers a company exposed to low-carbon transition risks and opportunities through two main transmission channels: (1) exposure through involvement in carbon-intensive operations, and (2) exposure through involvement in or solutions for carbon-intensive products.

## 4.2 MSCI Impact Solutions: Sustainable Impact Metrics

MSCI Impact Solutions' Sustainable Impact Metrics is designed to identify companies that derive revenue from products or services with positive impact on society and the environment. The Sustainable Impact Metrics are comprised of six Environmental Impact categories and seven Social Impact categories arranged by theme.

### MSCI Sustainable Impact Taxonomy

Pillar	Themes	Categories
Environmental Impact	Climate Change	<ol style="list-style-type: none"> <li>1. Alternative energy</li> <li>2. Energy efficiency</li> <li>3. Green building</li> </ol>
	Natural capital	<ol style="list-style-type: none"> <li>4. Sustainable water</li> <li>5. Pollution prevention</li> <li>6. Sustainable agriculture</li> </ol>
Social Impact	Basic needs	<ol style="list-style-type: none"> <li>7. Nutrition</li> <li>8. Major Disease Treatment</li> <li>9. Sanitation</li> <li>10. Affordable Real Estate</li> </ol>
	Empowerment	<ol style="list-style-type: none"> <li>11. SME Finance</li> <li>12. Education</li> <li>13. Connectivity – Digital divide</li> </ol>

Under each of the actionable environmental and social impact themes, MSCI ESG Research has identified specific categories of products and services that it has determined companies can offer as potential solutions to environmental and social challenges.

For more details on MSCI Sustainable Impact Metrics, please refer to <https://www.msci.com/legal/disclosures/esg-disclosures>.

## 4.3 MSCI ESG Controversies

MSCI ESG Controversies provide assessments of controversies concerning the potential 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.

The MSCI ESG Controversies methodology can be found at: <https://www.msci.com/legal/disclosures/esg-disclosures>.

## 4.4 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.



The MSCI Business Involvement Screening Research methodology can be found at:  
<https://www.msci.com/legal/disclosures/esg-disclosures>.

## Appendix I: MSCI Low Carbon Transition Risk Assessment

MSCI ESG Research's Low Carbon Transition Risk assessment<sup>14</sup> is designed to identify potential leaders and laggards by measuring companies' exposure to and management of risks and opportunities related to the low carbon transition. The assessment is derived from company disclosures and estimates.

The final output of this assessment is two company-level factors as described below:

- (1) **Low Carbon Transition Category:** This factor groups companies in five categories that highlight the predominant risks and opportunities they are most likely to face in the transition (Exhibit 1).
- (2) **Low Carbon Transition Score:** This score is based on a multi-dimensional risks and opportunities assessment and considers both primary and secondary risks a company faces. It is an industry agnostic assessment of a company's position vis-à-vis the transition.

LOW CARBON TRANSITION SCORE	LOW CARBON TRANSITION CATEGORY		LOW CARBON TRANSITION RISK / OPPORTUNITY	INDUSTRY EXAMPLES
SCORE = 0	ASSET STRANDING		Potential to experience "stranding" of physical / natural assets due to regulatory, market, or technological forces arising from low carbon transition.	Coal mining & coal-based power generation; industries in the Oil & Gas value chain
	TRANSITION	PRODUCT	Reduced demand for carbon-intensive products and services. Leaders and laggards are defined by the ability to shift product portfolio to low-carbon products.	Petrol/diesel-based automobile manufacturers
		OPERATIONAL	Increased operational and/or capital cost due to carbon taxes and/or investment in carbon emission mitigation measures leading to lower profitability of the companies.	Cement, Steel
	NEUTRAL		Limited exposure to low carbon transition carbon risk. Though companies in this category could have exposure to physical risk and/or indirect exposure to low carbon transition risk via lending, investment etc.	Consumer Staples, Healthcare
SCORE = 10	SOLUTIONS		Potential to benefit through the growth of low-carbon products and services.	Renewable electricity, Electric vehicles, Solar cell manufacturers

Exhibit 1: Low Carbon Transition Categories and Scores

### Calculation methodology

The Low Carbon Transition Categories and Scores are determined by a combination of each company's current risk exposure and its efforts to manage the risks and opportunities presented by the low carbon transition. The 3-step process followed by MSCI ESG Research is explained below.

#### Step 1: Measure Low Carbon Transition Risk Exposure

The first step towards measuring the Low Carbon Transition Risk Exposure for a company is the computation of its estimated total net carbon intensity – which considers operational and product

<sup>14</sup> For more details on MSCI Climate Change Metrics, please refer to <https://www.msci.com/climate-change-solutions>

carbon emissions . In the next step, we compute Low Carbon Transition Risk Exposure Category and Score based on total net carbon intensity .

### **Step 2: Assess Low Carbon Transition Risk Management**

In the second step, MSCI ESG Research assesses a company's management of risks and opportunities presented by the low carbon transition. This assessment is based on policies and commitments to mitigate transition risk, governance structures, risk management programs and initiatives, targets and performance, and involvement in any controversies.

### **Step 3: Calculate Low Carbon Transition Category and Score**

In the final step, the Low Carbon Transition Risk Exposure Category and Score that was calculated in Step 1 is adjusted for the strength of management efforts. Following this adjustment, Low Carbon Transition Risk Exposure Score of companies with top or second quartile risk management improves and some top and second quartile companies may move up one category.



## Appendix II: Calculation of Target Metrics

### Calculation of Weighted Average Carbon Emissions Intensity

For Parent Index constituents where the Scope 1+2+3 Emissions Intensity is not available, the average Scope 1+2+3 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 Carbon Emissions Intensity =

$$\frac{\text{Scope 1 + 2 + 3 Carbon Emissions} * (1 + EVIAF)}{\text{Enterprise Value} + \text{Cash(in M\$)}}$$

Enterprise Value Inflation Adjustment Factor (EVIAF)<sup>1</sup> =

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

The Average Enterprise Value + Cash and Previous (Average Enterprise Value + Cash) are only calculated for securities in the Indexes which were also a part of the Indexes in the previous Semi-Annual Index Review.

Weighted Average Carbon Emissions Intensity of Parent Index =

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

Weighted Average Carbon Emissions Intensity of Index =

$$= \frac{\sum (\text{Average Weight} * \text{Security Level Carbon Emissions Intensity})}{\sum \text{Average Weight}}$$

The weights used for the calculation of the Weighted Average Carbon Emissions Intensity of the Index are the average weights over the current and previous Semi-Annual Index Review of the Index. The average weight will not be computed for securities which were not a part of the Index in the previous Semi-Annual Index Review.

### Calculation of Potential Carbon Emissions Intensity

For newly added companies to the index where data is not available yet, MSCI uses zero fossil fuel reserves.

Security Level Potential Carbon Emissions Intensity =

$$\frac{\text{Absolute Potential Emissions} * (1 + EVIAF)}{\text{Enterprise Value} + \text{Cash(in M\$)}}$$

Weighted Average Potential Carbon Emissions Intensity of Parent Index =

<sup>1</sup> As per Question 1.8 in [Handbook of Climate Transition Benchmarks, Paris-Aligned Benchmark and Benchmarks' ESG Disclosures](#)

$$\sum (Weight\ in\ Parent\ Index * Security\ Level\ Potential\ Carbon\ Emissions\ Intensity)$$

Weighted Average Potential Carbon Emissions Intensity of Derived Index =

$$= \frac{\sum (Average\ Weight * Security\ Level\ Potential\ Carbon\ Emissions\ Intensity)}{\sum Average\ Weight}$$

The weights used for the calculation of the Weighted Average Potential Carbon Emissions Intensity of the Index are the average weights over the current and previous Semi-Annual Index Review of the Index. The average weight will not be computed for securities which were not a part of the Index in the previous Semi-Annual Index Review.

#### Calculation of Average Decarbonization

On average, the Indexes follow a 7% decarbonization trajectory since Inception. The Weighted Average Carbon Intensity at Inception ( $W_1$ ) is used to compute the target Weighted Average Carbon Intensity at any given Semi-Annual Index Review ( $W_t$ ) as per the below formula.

$$W_t = W_1 * 0.93^{\frac{(t-1)}{2}}$$

Where 't' is the number of Semi-Annual Index Reviews since Inception.

Thus, for the 3<sup>rd</sup> Semi-Annual Index Review since Inception ( $t=3$ ), the target Weighted Average Carbon Intensity will be  $W_1 * 0.93$ .

#### Calculation of Green Revenue to Fossil fuels-based Revenue Multiple

##### Green Revenue

For each constituent in the Parent Index, the Green Revenue% is calculated as the cumulative revenue (%) from the six CleanTech themes which are as follows:

- Alternative Energy – products and services that support the transmission, distribution and generation of renewable energy and alternative fuels to reduce carbon and pollutant emissions in supporting affordable and clean energy to combat climate change.
- Energy Efficiency – products, and services that support the maximization of productivity in labor, transportation, power and domestic applications with minimal energy consumption to ensure universal access to affordable, reliable and modern energy services.
- Sustainable Water – products, services, infrastructure projects and technologies that resolve water scarcity and water quality issues, through minimizing and monitoring current water demand, improving the quality and availability of water supply to improve resource management in both domestic and industrial use.
- Green Building – design, construction, redevelopment, retrofitting, or acquisition of green-certified properties to promote mechanisms for raising capacity for effective climate change mitigation and adaptation.
- Pollution Prevention – products, services, infrastructure projects and technologies that reduces volume of waste materials through recycling, minimizes introduction of toxic substances, and offers remediation of existing contaminants such as heavy metals and

organic pollutants in various environmental media to significantly address pollution in all levels and its negative effects

- Sustainable Agriculture - revenues from forest and agricultural products that meet environmental and organic certification requirements to address significantly biodiversity loss, pollution, land disturbance, and water overuse

The Weighted Average Green Revenue% is calculated as:

$$= \sum (Weight\ in\ Index * Green\ Revenue\%)$$

### Fossil fuels-based Revenue

For each constituent in the Parent Index, the Fossil fuels-based Revenue% is calculated as the cumulative revenue (%) from the following sources:

- Revenue% (either reported or estimated) from the mining of thermal coal (including lignite, bituminous, anthracite and steam coal) and its sale to external parties. It excludes: revenue from metallurgical coal; coal mined for internal power generation (e.g. in the case of vertically integrated power producers); intra-company sales of mined thermal coal; and revenue from coal trading (either reported or estimated)
- Revenue% from the extraction, production and refining of Conventional and Unconventional Oil & Gas. Conventional Oil and Gas includes Arctic onshore/offshore, deepwater, shallow water and other onshore/offshore. Unconventional Oil and Gas includes oil sands, oil shale (kerogen-rich deposits), shale gas, shale oil, coal seam gas, and coal bed methane.
- Revenue% from thermal coal based power generation, liquid fuel based power generation and natural gas based power generation.

The Weighted Average Fossil fuels-based Revenue% is calculated as:

$$= \sum (Weight\ in\ Index * Brown\ Revenue\%)$$

The Green Revenues to Fossil fuels-based Revenues multiple for either the Parent Index or the Index is calculated as a ratio of the Weighted Average Green Revenue to the Weighted Average Fossil fuels-based Revenue as per the formula below:

$$= \frac{Weighted\ Average\ Green\ Revenue\%}{Weighted\ Average\ Brown\ Revenue\%}$$

## Appendix III: Decarbonization Trajectory of Indexes

The Weighted Average Carbon Intensity at the Base Date ( $W_1$ ) is used to compute the target Weighted Average Carbon Intensity at any given Semi-Annual Index Review ( $W_t$ ) as per the below formula.

$$W_t = W_1 * 0.93^{\frac{(t-1)}{2}}$$

Where 't' is the number of Semi-Annual Index Reviews since Inception. The table below shows the Weighted Average Carbon Intensity at Inception ( $W_1$ ) for each of the regions where the Indexes are constructed:

Index	Parent Index	Inception Date	$W_1$ (tCO <sub>2</sub> /M\$ Enterprise Value + Cash)
MSCI World Climate Change Paris-Aligned Select Index	MSCI World Index	May 28, 2021	160.43

The calculation of the targeted decarbonization trajectory is specified in section 4 of the MSCI EU CTB/PAB Index Framework<sup>16</sup>.

<sup>16</sup> For further details on the MSCI EU CTB/PAB Index Framework, please refer to:  
<https://www.msci.com/index/methodology/latest/EUCTBPABIndexFramework>

## Appendix IV: Iterative Down Weighting Process

The iterative down weighting process is applied on the securities of the Final Universe with the objective of meeting all the minimum requirements<sup>17</sup> detailed in Table 1.

### ITERATIVE DOWNWEIGHTING

Starting with the Final Universe, an iterative down weighting process is applied in order to meet with the minimum requirements for the Indexes. The iterative down weighting stops when all the requirements defined in above are met. The steps followed in the iterative downweighting (Exhibit 2) are outlined below:

- Step 1. Check whether all targets for the Index are met. If all targets are met, then no downweighting is required.
- Step 2. Securities in the Applicable Universe are sorted in increasing order of their Scope 1+2+3 Carbon Emissions Intensity and securities in the top half of the sorted list are identified as "Top Half" securities. Securities in the bottom half of the sorted list are identified as "Bottom Half" securities.
- Step 3. If the target based on Minimum reduction in WACI relative to Parent Index and the Minimum average reduction in WACI (per annum) is not met, the lowest ranked "Bottom Half" stock in ascending order of Scope 1+2+3 Carbon Emissions Intensity is selected for downweighting and the weight is reduced by 25% of its weight in the Final Universe. Note that stocks with an LCT Category of Solutions are not eligible for downweighting<sup>18</sup>. If this target is met, but
  - a. If the target based on Weighted Average Potential Emissions Intensity relative to Parent Index is not met, the "Bottom Half" stock with highest Potential Carbon Emissions Intensity is downweighted.
  - b. Otherwise if the target based on Minimum ratio of Green Revenue/ Fossil fuels-based Revenue relative to Parent Index is not met, the "Bottom Half" stock with largest difference between its Fossil fuels-based Revenue% and its Green Revenue% is downweighted
- Step 4. If the targets are still not met, the stock is downweighted in steps of 25% of its weight in the Final Universe till a maximum downweighting of 75%.
- Step 5. Stocks of the Final Universe in the "Top Half", belonging to the same "Climate Impact Sector" as the stock being downweighted are proportionally upweighted to ensure that the overall allocation to the High Climate Impact Sector is the same as that in the Parent Index and the sum of the weights of all constituents is 1.
- Step 6. While upweighting stocks, the security weights of the stocks being upweighted is capped as per Section 2.6.2, with the excess weight being distributed among the remaining securities that are being upweighted. The issuers which already satisfy the below conditions after Section 2.6 will not be upweighted:

<sup>17</sup> In the steps detailed for the iterative process, "targets" refers to all the minimum requirements as detailed in Table 1.

<sup>18</sup> This rule was not applied for the MSCI Denmark IMI Climate Change at the time of the May and November 2023 Index Review in order to achieve a feasible solution during the rebalancing process.

- Issuers which already have a weight greater than 5% for Broad Indexes or 10% for Narrow Indexes.
- Issuers which already have a weight greater than Parent+2% for Broad Indexes or Parent+5% for Narrow Indexes.

Step 7. If the targets are still not met, the iterative process continues and Steps 3-6 are repeated.

Step 8. If the targets are not met and all “Bottom Half” stocks of the Final Universe are downweighted by 75% of the weight in the Final Universe, Steps 3-7 are repeated, with a maximum downweighting of 90% in a single downweighting step of 15 percentage points of the weight in the Final Universe.

Step 9. If the targets are not met after the maximum downweighting of 90% of all “Bottom Half” stocks, then stocks are iteratively excluded in the same order as outlined in Step 3.

Step 10. If the targets are not met after excluding all the “Bottom Half” stocks, then the index will rebalance using the constituents and weighting of stocks as after Step 9.

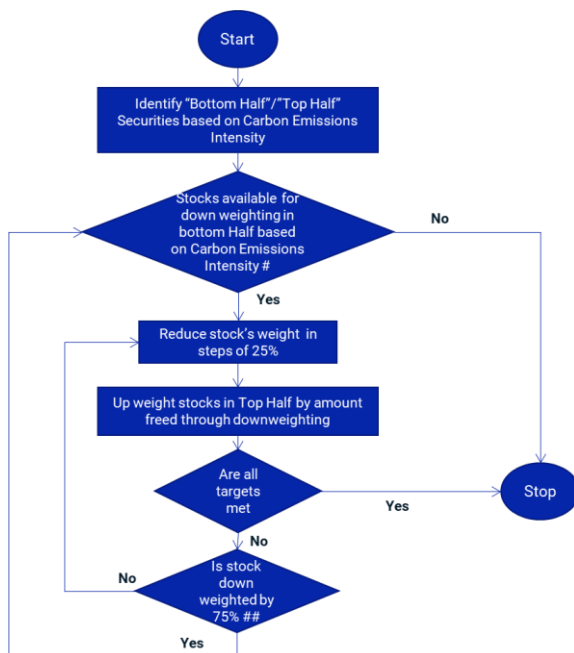


Exhibit 2: Schematic Representation of the Iterative Downweighting Process

# If the target based on Minimum reduction in WACI relative to Parent Index and the Minimum average reduction in WACI (per annum) is met but the target on Weighted Average Potential Emissions Intensity relative to Parent Index is not met, the “Bottom Half” security with the highest Potential Carbon Emissions Intensity is selected for downweighting. If the target on Weighted Average Potential Emissions Intensity relative to Parent Index is also met but the target on Minimum ratio of Green Revenue/ Fossil fuels-based Revenue relative to Parent Index is not met, the “Bottom

Half” security with the highest difference in its Fossil fuels-based Revenue% and Green Revenue% is selected for downweighting.

## If the targets are not met and all “Bottom Half” stocks of the Final Universe are downweighted by 75% of the weight in the Final Universe, maximum downweighting is relaxed to 90% in a single downweighting step of 15 percentage points of the weight in the Final Universe.

If the targets are not met after the maximum downweighting of 90% of all “Bottom Half” stocks, then stocks are iteratively excluded in the same order.

If the targets are not met after excluding all the “Bottom Half” stocks then the index will rebalance using the constituents and weighting of stocks at the final step.

## Appendix V: Business Exclusion Criteria

Companies, whose activities meet the following criteria, as determined by MSCI ESG Research, are excluded from the Index:

- **Controversial Weapons**
  - All companies involved in Controversial Weapons (i.e. 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 Ex-Controversial Weapons Indexes
- **Nuclear Weapons**
  - All companies that manufacture nuclear warheads and/or whole nuclear missiles
  - All companies that manufacture components that were developed or are significantly modified for exclusive use in nuclear weapons (warheads and missiles)
  - All companies that manufacture or assemble delivery platforms that were developed or significantly modified for the exclusive delivery of nuclear weapons
  - All companies that provide auxiliary services related to nuclear weapons
  - All companies that manufacture components that were not developed or not significantly modified for exclusive use in nuclear weapons (warheads and missiles) but can be used in nuclear weapons
  - All companies that manufacture or assemble delivery platforms that were not developed or not significantly modified for the exclusive delivery of nuclear weapons but have the capability to deliver nuclear weapons
  - All companies that manufacture components for nuclear-exclusive delivery platforms
- **Tobacco**
  - All companies deriving more than 0% revenues from the manufacturing of tobacco products
- **Unconventional Oil & Gas**
  - All companies deriving 5% or more revenues from oil sands, oil shale (kerogen-rich deposits), shale gas, shale oil, coal-seam gas, coal-bed methane as well as Arctic onshore/offshore reserves
- **Arctic Oil & Gas**
  - All companies deriving 5% or more revenue from Arctic Oil
  - All companies deriving 5% or more revenue from Arctic Gas
  - All companies with evidence of producing Arctic oil. This factor does not capture revenue from non-extraction activities (e.g. exploration, surveying, processing, refining); ownership of Arctic oil reserves with no associated extraction revenues; revenue from intra-company sales
  - All companies with evidence of producing Arctic gas. This factor does not capture revenue from non-extraction activities (e.g. exploration, surveying, processing, refining); ownership of



Arctic gas reserves with no associated extraction revenues; revenue from intra-company sales

Additionally, securities that meet any of the below criteria, corresponding to the Activity Exclusions for MSCI Climate Change Paris-Aligned Select Indexes are excluded from the Initial Universe.

- **Thermal Coal**

- **Thermal Coal Mining:** All companies deriving 1% or more revenue (either reported or estimated) from the mining of thermal coal (including lignite, bituminous, anthracite and steam coal) and its sale to external parties. It excludes: revenue from metallurgical coal; coal mined for internal power generation (e.g. in the case of vertically integrated power producers); intra-company sales of mined thermal coal; and revenue from coal trading (either reported or estimated).
- **Thermal Coal Distribution:** All companies with evidence of thermal coal distribution or transport involvement. This includes transport of thermal coal by road, rail, shipping or air, and physical trading of thermal coal. It does not include involvement in storage of thermal coal, or involvement in metallurgical coal-related activities.
- **Thermal Coal-Based Power Generation:** All companies deriving more than 10% revenues from thermal coal-based power generation
- **Thermal Coal Reserves:** All companies that own thermal coal reserves

- **Oil Activities<sup>19</sup>**

- All companies deriving 10% or more aggregate revenue (either reported or estimated) from oil-related activities, including:
  - Extraction and production of oil and natural gas liquids
  - Refining of oil fuels
  - Oil and oil products pipelines or natural gas liquids pipelines
  - Transportation of oil and oil products
  - Distribution of oil and related products
  - Exploration as a service to the oil and natural gas industries
  - Drilling wells as a service to the exploration and production of oil and natural gas

- **Gas Activities<sup>19</sup>**

- All companies deriving 50% or more aggregate revenue (either reported or estimated) from gas-related activities, including:
  - Extraction and production of natural gas

<sup>19</sup> The combined oil & gas screen is applied for companies where the disaggregated oil/gas revenue data underlying the separate oil and gas screens is not available or is not consistent. The combined oil & gas screen excludes all companies deriving 10% or more aggregate revenue from oil and gas related activities, including distribution/retail, equipment and services, extraction and production, pipelines and transportation, and refining but excluding biofuel production and sales and trading activities. For further details, please refer to Appendix II of the MSCI EU CTB/PAB Index Framework at: <https://www.msci.com/index/methodology/latest/EUCTBPABIndexFramework>

- Processing of natural gas fuels
  - Natural gas pipelines
  - Transportation of natural gas
  - Distribution of gas and related products
  - Exploration as a service to the oil and natural gas industries
  - Drilling wells as a service to the exploration and production of oil and natural gas
- **Coal, Oil & Gas-based Power Generation**
    - All companies deriving 50% or more revenue from thermal coal-based power generation, liquid fuel-based power generation and natural gas-based power generation.
    - All companies that are deriving 50% or more power<sup>20</sup> from thermal coal.

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<sup>20</sup> As per [https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc\\_wg3\\_ar5\\_chapter7.pdf](https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_chapter7.pdf), thermal coal based power generation has median lifecycle emissions exceeding 100gCO<sub>2</sub>/kWh.

## Appendix VI: Minimum Requirements of EU CTB

The below details the minimum requirements of EU CTBs as per the EU Delegated Acts:

### Exclusions

- **Controversial Weapons:** companies involved in any activities related to controversial weapons;
- **Tobacco:** companies involved in the cultivation and production of tobacco;
- **Environmental Harm:** companies significantly harm one or more of environmental objectives;
- **Controversies:** companies in violation of the United Nations Global Compact (UNGC) principles or the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;

### Objectives

- **Relative Reduction:** 30% minimum reduction in Weighted Average Scope 1+2+3 Carbon Emissions Intensity (WACI) relative to Parent Index
- **Self-Decarbonization:** 7% minimum average reduction (per annum) in WACI relative to WACI in the Base Date
- **Exposure Constraint:** At least equivalent exposure to the High Climate Impact Sector relative to Parent Index

## Appendix VII: The Capping Methodology

The capping methodology is applied on issuer, country, and sector weights to mitigate the concentration in the Index and maintain a minimum index-level sustainable exposure.

### A. Parameters for Capping

The maximum weight of an Index constituent at an issuer level will be restricted to  $\max(5\%, \text{weight in the Parent Index})$  for Broad Indexes. The maximum weight of an Index constituent at an issuer level will be restricted to  $\max(10\%, \text{weight in the Parent Index})$  for Narrow Indexes.

The maximum/minimum GICS sector weight in the Index will not deviate more than  $\pm 5\%$  from the sector weight in the Parent Index excluding the energy sector.

The minimum solutions category weight in the Index will not deviate less than  $+2\%$  from the solutions category weight in the Parent Index.

The High Climate Impact and Low Climate Impact sector weight in the Index will be the same as in the Parent Index.

### B. The Capping Methodology

**The Capping methodology is iteratively applied with the following steps:**

- Find the most violating constraint from all the given constraints (issuer maximum bound, solutions minimum bound, sector minimum bound, sector maximum bound, and bound for maintaining the same high climate impact and low climate impact sector split as in the Parent Index). For each group (for example, IT sector) within all the constraints, the deviation ratio is calculated based on:
  - ratio of current value (for example, weight of issuer 'A' in the Index) to maximum bound (for example, maximum bound of issuer 'A' weight), in case of maximum bound constraint.
  - ratio of minimum bound value (for example, minimum bound of IT sector weight) to current value (for example, weight of IT sector in the Index), in case of minimum bound constraint.
- The most violating constraint is the maximum of all the deviation ratios.
- The most violating constraint is adjusted first to the respective bound value.
- The excess weight (difference of current value to the respective bound value) is distributed proportionally to all the other constituents
- The iterative capping stops when the most violating constraint ratio (rounded off to 5 decimals) is less than or equal to 1 or it has reached the maximum iteration count. In case of maximum iteration count, the capping steps will return the solution found until this maximum iteration step.
- If the most violating constraint ratio value for each group (for example, IT sector in sector minimum bound) is repeated in more than 10 iterations, the capping methodology applies relaxation steps.

### C. Relaxation Steps

- The following conditions are alternatively relaxed until the most violating constraint ratio (rounded off to 5 decimals) is less than or equal to 1:
- Relax the minimum bound of weight for solutions category in steps of -0.5% up to a maximum of 4 iterations.
- Relax the minimum bound of sector weights in steps of -0.5%, up to a maximum of 10 iterations.

Relax the maximum bound of sector weights in steps of 0.5%, up to a maximum of 10 iterations. At each step of relaxation, if the most violating constraint ratio value for each group is repeated more than 10 times, the next step of relaxation is initiated.

## Appendix VIII: 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 –  
<https://www.msci.com/index/methodology/latest/ReadMe>
- MSCI Corporate Events Methodology –  
<https://www.msci.com/index/methodology/latest/CE>
- MSCI Fundamental Data Methodology –  
<https://www.msci.com/index/methodology/latest/FundData>
- MSCI Index Calculation Methodology –  
<https://www.msci.com/index/methodology/latest/IndexCalc>
- MSCI Index Glossary of Terms –  
<https://www.msci.com/index/methodology/latest/IndexGlossary>
- MSCI Index Policies –  
<https://www.msci.com/index/methodology/latest/IndexPolicy>
- MSCI Global Industry Classification Standard (GICS) Methodology –  
<https://www.msci.com/index/methodology/latest/GICS>
- MSCI Global Investable Market Indexes Methodology –  
<https://www.msci.com/index/methodology/latest/GIMI>
- MSCI Global ex Controversial Weapons Methodology –  
<https://www.msci.com/index/methodology/latest/XCW>
- MSCI Climate Change Indexes Methodology –  
<https://www.msci.com/index/methodology/latest/ClimateChange>
- MSCI Capped Indexes Methodology –  
<https://www.msci.com/index/methodology/latest/Capped>
- MSCI EU CTB/PAB Index Framework –  
<https://www.msci.com/index/methodology/latest/EUCTBPABIndexFramework>
- ESG Factors In Methodology\*

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’.

\* ‘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 IX: Changes to this Document

**The following sections have been modified as of May 2021:**

- Introduction – Updated to reflect that the index follows the minimum requirements as per the EU Delegated Acts instead of the TEG Final Report
- Section 3.2 – Updated minimum requirements as per the requirements of the EU Delegated Acts
- Section 3.3 – Updated to reflect the changes in the MSCI Climate Change Index Methodology. Detail on exclusion of Controversial Weapons moved to Section 3.4
- Section 3.4 – Updated to add screen on Environmental Controversy and expansion of activities under the Oil and Gas exclusions.
- Sections 3.5.1.1, 3.5.2.1 – Updated to increase allocation to companies setting targets
- Appendix III – Decarbonization Trajectory updated
- Appendix IV – Updated iterative downweighting process to identify stocks for downweighting based on the constraint not being met

**The following sections have been modified as of March 01, 2022<sup>3</sup> :**

- Section 3.4 – Updated to add exclusions based on thermal coal power and thermal coal reserves

**The following sections have been modified as of June 01, 2022:**

Section 3.4: Eligible Universe

- Updated to add exclusions based on nuclear weapons
- Updated to add reference to Appendix V

Appendix V: Business Exclusion Criteria

- Updated to add new exclusion criteria for 'Nuclear Weapons', 'Unconventional Oil & Gas', and 'Arctic Oil & Gas'

**The following sections have been modified as of May 2024:**

- Section 4: Updated links
- Appendix I: Updated language and the Low Carbon Transition Categories and Scores table.
- Appendix V: Updated the exclusion criteria for the Thermal Coal Power Generation screen
- Appendix VI: Added details on the Methodology Set for the Indexes

**The following sections have been modified as of November 2024**

Section 2.6 Final Universe

- Added details of security weighting in the Final Universe

<sup>3</sup> This change in screening criteria was implemented in the index on February 16, 2022, effective on March 01, 2022, by excluding existing constituents which meet the updated exclusion criteria. The weights of the remaining securities were subsequently renormalized to 100%.

#### Section 2.6.1 EU CTB Check

- Updated section name
- Added details regarding issuer weight capping in the iterative process.

#### Section 2.6.2 Applying the MSCI 20/35 Indexes Methodology

- Updated to reflect the new capping parameters

#### Section 2.8: Treatment of Unrated Companies

- Added the treatment of companies when business involvement screening research, ESG controversies or climate change metrics research not available from MSCI ESG Research

#### Appendix IV: Iterative Dow Weighting Process

- Updated details on the iterative process.

#### Appendix VI: Minimum Requirements of EU CTB

- New Appendix
- Added details on the minimum requirements of EU CTBs as per the EU Delegated Acts

#### Appendix VII: The Capping Methodology

- Added details on the Capping Methodology for the Indexes.

### **The following sections have been modified as of May 2025**

#### Section 1: Introduction

- Updated introduction
- Updated footnote with reference to the MSCI EU CTB/PAB Index Framework.

#### Section 2.1: Minimum Requirements

- Added reference to the MSCI EU CTB/PAB Index Framework
- Updated Table 1 'Requirements for the MSCI Climate Change Paris-Aligned Select Indexes' to reflect the updated exclusions

#### Section 2.4: Eligible Universe

- Updated table 1: Requirements for the MSCI Climate Change Paris-Aligned Select Indexes

#### Section 2.5: Eligible Universe

- Updated footnote to reference the MSCI EU CTB/PAB Index Framework for the definition of climate impact sectors and calculation of decarbonization trajectory

#### Section 4.1: MSCI Climate Change Metrics.

- Added sub-sections under Climate Change Metrics to provide additional details on Fossil Fuels related activities, Greenhouse Gas Emissions and Low Carbon Transition Risk Assessment

#### Appendix III: Decarbonization Trajectory of Indexes

- Added reference to the MSCI EU CTB/PAB Index Framework for the calculation of the decarbonization trajectory



## Appendix V: Business Exclusions Criteria

- The screening criteria were updated to reflect the transition to Oil and Gas screening activities
- Appendix VIII: Methodology Set
- Added reference to MSCI EU CTB/PAB Index Framework

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