

METHODOLOGY BOOK FOR: -MSCI EMU SELECT ESG 50 EQUAL WEIGHTED INDEX

- MSCI EMU SELECT ESG 50 EQUAL WEIGHTED 5% DECREMENT INDEX (NET)

- MSĆI EMU SELECT ESG 50 EQUAL WEIGHTED 5% DECREMENT INDEX (GROSS)

-MSCI ÉMU SELECT ESG 50 EQUAL WEIGHTED 4% DECREMENT INDEX (NET)

- MSĆI EMU SELECT ESG 50 EQUAL WEIGHTED 4% DECREMENT INDEX (GROSS)

June 2019



Contents	1 Introduction	
	2 ESG Research Framework5	
	2.1 MSCI ESG Ratings5	
	2.2 MSCI ESG Controversies	
	2.3 MSCI ESG Business Involvement Screening Research	
	2.4 MSCI Climate Change Metrics6	
	3 Constructing the Index7	
	3.1 Eligible Universe Screening7	
	3.1.1 Euro denominated securities7	
	3.1.2 Liquidity criteria7	
	3.1.3 ESG Ratings Eligibility7	
	3.1.4 ESG Controversies Score Eligibility	
	3.1.5 Controversial Business Involvement Criteria	
	3.2 Security Selection	
	3.3 Security weighting9	
	3.4 Applying the MSCI Decrement Indexes Methodology9	
	4 Maintaining the Index10	
	4.1 Quarterly Index Reviews10	
	4.1.1 Staggered Rebalance10	
	4.2 Daily decrement calculation10	
	4.3 Ongoing Event-Related Changes	
	Appendix 1: Values- and Climate Change-Based Exclusion	
	Criteria	
	Appendix 2: Parameters used for the MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Net)	
	Appendix 3: Parameters used for the MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Gross)	



Appendix 4: Parameters used for the MSCI EMU Select ESG 50
Equal Weighted 4% Decrement Index (Net)18
Appendix 5: Parameters used for the MSCI EMU Select ESG 50
Equal Weighted 4% Decrement Index (Gross)19



1 Introduction

The MSCI EMU Select ESG 50 Equal Weighted Index aims to represent the performance of a set of 50 stocks from the European Economic and Monetary Union region that that have a large free-float adjusted market capitalization and a robust ESG profile. The Index aims to achieve diversification through equal weighting of the constituents according to the MSCI Equal Weighted Indexes Methodology.¹

The MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Net) and MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Gross) aim to represent the net and gross performance of the MSCI EMU Select ESG 50 Equal Weighted Index respectively, while applying a constant markdown ('synthetic dividend') of 5% on an annual basis, expressed as a percentage of performance.

The MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Net) and MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Gross) aim to represent the net and gross performance of the MSCI EMU Select ESG 50 Equal Weighted Index respectively, while applying a constant markdown ('synthetic dividend') of 4% on an annual basis, expressed as a percentage of performance.

¹ Please refer to the MSCI Equal Weighted Indexes methodology at <u>www.msci.com/index-methodology</u>

© 2019 MSCI Inc. All rights reserved. Please refer to the disclaimer at the end of this document.



2 ESG Research Framework

The MSCI EMU Select ESG 50 Equal Weighted Index uses company ratings and research provided by MSCI ESG Research. The index uses the following MSCI ESG Research products: MSCI ESG Ratings, MSCI ESG Controversies, MSCI Business Involvement Screening Research, AND MSCI Climate Change Metrics.

For details on MSCI ESG Research's full suite of ESG products, please refer to: <u>https://www.msci.com/esg-integration</u>

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: <u>https://www.msci.com/esg-ratings</u>

2.2 MSCI ESG CONTROVERSIES

MSCI ESG Controversies (formerly 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, please refer to : <u>https://www.msci.com/documents/10199/acbe7c8a-a4e4-49de-9cf8-5e957245b86b</u>



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 <u>http://www.msci.com/resources/factsheets/MSCI_ESG_BISR.pdf</u>

2.4 MSCI CLIMATE CHANGE METRICS

MSCI Climate Change Metrics is designed to support investors seeking to achieve a range of objectives, including measuring and reporting on climate risk exposure, implementing low carbon and fossil fuel-free strategies, and factoring climate change research into their risk management processes. It provides Carbon Emissions, Fossil Fuel exposure, environmental impact (i.e., clean technology) data and screens, as well as climate-related risk exposure and management assessment on companies.

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



3 Constructing the Index

The MSCI EMU Select ESG 50 Equal Weighted Index is constructed from the MSCI EMU Investable Market Index (IMI) (the "Parent Index"). The following steps are applied at initial construction of the Index.

- Eligible Universe Screening
- ESG Eligibility Criteria
- Security Selection
- Security Weighting

In addition to the above steps, the following step is applied to the MSCI EMU Select ESG 50 Equal Weighted Index to construct the "MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Net)", "MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Gross)", "MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Net)" and the "MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Gross)".

• Applying the MSCI Decrement Indexes methodology²

3.1 ELIGIBLE UNIVERSE SCREENING

3.1.1 EURO DENOMINATED SECURITIES

Only Euro denominated stocks within the Parent Index are eligible for inclusion in the Index.

3.1.2 LIQUIDITY CRITERIA

Securities with 3-month Annualized Traded Value (3-month ATV) greater than 2.52 billion Euros are eligible for inclusion in the Index.

To avoid multiple securities of the same company in the final index, only the most liquid security for each issuer per its 3-month Annualized Traded Value (3-month ATV) is eligible for inclusion in the Index. For any issuer, should two securities have the same 3-month ATV, the one with the higher free float-adjusted market capitalization is included.

3.1.3 ESG RATINGS ELIGIBILITY

The MSCI EMU Select ESG 50 Equal Weighted Index uses MSCI ESG Ratings to identify companies that have demonstrated an ability to manage their ESG risks and

© 2019 MSCI Inc. All rights reserved. Please refer to the disclaimer at the end of this document.

² Please refer to the MSCI Decrement Indexes methodology at <u>www.msci.com/index-methodology</u>



opportunities. Companies having MSCI ESG Rating of 'AAA' or 'AA' are eligible for inclusion in the MSCI EMU Select ESG 50 Equal Weighted Index³.

3.1.4 ESG CONTROVERSIES SCORE ELIGIBILITY

The MSCI EMU Select ESG 50 Equal Weighted Index uses MSCI ESG Controversies Scores to identify those 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 2 or higher to be eligible for inclusion in the MSCI EMU Select ESG 50 Equal Weighted Index⁴.

3.1.5 CONTROVERSIAL BUSINESS INVOLVEMENT CRITERIA

The MSCI EMU Select ESG 50 Equal Weighted Index uses 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 values- and climate change-based criteria are excluded from the eligible universe. Please refer to Appendix 1 for details on these criteria.

- Compliance with all the UN Global Compact Principles
- Controversial Weapons
- Nuclear Weapons
- Thermal Coal
- Oil Sands
- Civilian Firearms
- Conventional Weapons
- Tobacco
- Gambling
- Alcohol
- Adult Entertainment
- Nuclear Power

³ Unrated companies (Companies not assessed by MSCI ESG Research on MSCI ESG Rating) are excluded from the eligible universe. For more details refer to the MSCI ESG Universal Index:

https://www.msci.com/eqb/methodology/meth_docs/ESG_Universal_Index_Methodology.pdf

⁴ Unrated companies (Companies not assessed by MSCI ESG Research on MSCI ESG Controversies Score) are excluded from the eligible universe. For more details refer to the MSCI ESG Universal Index: https://www.msci.com/eqb/methodology/meth_docs/ESG_Universal_Index_Methodology.pdf



3.2 SECURITY SELECTION

From the securities in the eligible universe that meet above screening and ESG eligibility criteria, the largest 50 securities based on their free-float adjusted market capitalization are selected for inclusion in the Index. Should there be two securities with the same free float adjusted market capitalization, the one with higher liquidity per its 3-month ATV is selected.

3.3 SECURITY WEIGHTING

The securities selected for inclusion in the Index are assigned equal weights at initial construction and at every Index Review, in accordance with the MSCI Equal Weighted Indexes methodology.

3.4 APPLYING THE MSCI DECREMENT INDEXES METHODOLOGY

The MSCI Decrement Indexes Methodology⁵ is applied on the MSCI EMU Select ESG 50 Equal Weighted Index to construct the following indexes

- MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Net)
- MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Gross)
- MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Net)
- MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Gross)

The parameters for the application of the decrement methodology in the above indexes are noted in Appendix 2 through 5.

⁵Please refer to the MSCI Decrement Indexes methodology at <u>www.msci.com/index-methodology</u>



4 Maintaining the Index

4.1 QUARTERLY INDEX REVIEWS

The MSCI EMU Select ESG 50 Equal Weighted Index is reviewed on a quarterly basis as per the steps described in Section 3, coinciding with the May and November Semi-Annual Index Reviews and the February and August Quarterly Index Reviews of the Parent Index.

In general, MSCI uses MSCI ESG Research data (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 Index. 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 Index.

The pro forma index is in general announced nine business days before the effective date.

4.1.1 STAGGERED REBALANCE

The quarterly Index rebalance is staggered over a period of 5 days starting on the 4th business day of each June, September, December and March. Five versions of the Index are calculated, based on the steps described above, having their effective date from the 4th to 8th business day respectively. These indexes are then equal weighted to arrive at the final index, which rebalances to equal weights daily during this five-day period.

4.2 DAILY DECREMENT CALCULATION

The performance of the MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Net), MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Gross), MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Net) and the MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Gross) is computed by reducing the performance of the MSCI EMU Select ESG 50 Equal Weighted Index, by a fixed percentage, on a daily basis using parameters detailed in Appendix 2-5.

4.3 ONGOING EVENT-RELATED CHANGES

The following section briefly describes the treatment of common corporate events within the MSCI EMU Select ESG 50 Equal Weighted Index. Changes in index market capitalization that occur because of corporate event implementation will be offset by a corresponding change in the Variable Weighting Factor (VWF) of the constituent.



No new securities will be added (except where noted below) to the Index between Index Reviews. For cases where additions are noted below, securities will be added to the index only if added to the parent index. 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 not 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: Values- and Climate Change-Based Exclusion Criteria

The MSCI EMU Select ESG 50 Equal Weighted Index is constructed with an aim to reflect the performance of companies that are consistent with specific values- and climate change-based criteria.

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.
- 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).
 - All companies that manufacture or assemble delivery platforms that were not developed or not significantly modified for the exclusive delivery of nuclear weapons.
 - All companies that manufacture components for nuclear-exclusive delivery platforms.
- Oil Sands



- All companies deriving 5% or more revenue from oil sands extraction are excluded.
- Civilian Firearms
 - All companies classified as "Producer" of firearms and small arms ammunitions for civilian markets. It does not include companies that cater to the military, government, and law enforcement markets.
 - All companies deriving 5% or more revenue from the distribution of firearms.
- Conventional Weapons
 - All companies that manufacture conventional weapons components or conventional weapons and weapons systems and earn 5% or more in revenue from these activities.
- Tobacco
 - All companies classified as a "Producer".
 - All companies deriving 10% or more aggregate revenue from the production, distribution, retail and supply of tobacco-related products.
- Gambling
 - All companies classified as gambling "Operations" or "Support" that earn 10% or more revenue from gambling-related products.
- Alcohol
 - All companies classified as alcohol "Producer" that earn either 10% or more revenue from alcohol-related products.
- Adult Entertainment
 - All companies classified as a "Producer" that earn either 10% or more in revenue from adult entertainment materials.

Climate Change-based Exclusions Criteria

- Thermal Coal Mining
 - All companies deriving 5% or more revenue from the mining of thermal coal are excluded.
- Thermal Coal-based Power Generation
 - All companies deriving 5% or more revenue from the thermal coal-based power generation are excluded.
- Nuclear Power



- All companies with 20% or more of installed capacity attributed to nuclear sources.
- All companies involved in nuclear fuel enrichment for nuclear power generation.
- All companies involved in uranium mining for nuclear power generation.
- All companies involved in nuclear reactor design or construction for nuclear power generation.



Appendix 2: Parameters used for the MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Net)

The following parameters are used for the calculation of MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Net)

	MSCI Decrement Indexes Methodology Parameters	Parameters
1	Currency of Calculation	EUR
2	Return Variant of the Parent Index	Daily Net Total Return
3	Decrement Type	Fixed Percentage
4	Decrement Application	Geometric
5	Decrement Value	5%
6	Day-count Convention	Actual / 365
7	Index Floor	0
8	Decrement Frequency	Daily



Appendix 3: Parameters used for the MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Gross)

The following parameters are used for the calculation of MSCI EMU Select ESG 50 Equal Weighted 5% Decrement Index (Gross)

	MSCI Decrement Indexes Methodology Parameters	Parameters
1	Currency of Calculation	EUR
2	Return Variant of the Parent	Daily Gross Total
	Index	Return
3	Decrement Type	Fixed Percentage
4	Decrement Application	Geometric
5	Decrement Value	5%
6	Day-count Convention	Actual / 365
7	Index Floor	0
8	Decrement Frequency	Daily



Appendix 4: Parameters used for the MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Net)

The following parameters are used for the calculation of MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Net)

	MSCI Decrement Indexes Methodology Parameters	Parameters
1	Currency of Calculation	EUR
2	Return Variant of the Parent Index	Daily Net Total Return
3	Decrement Type	Fixed Percentage
4	Decrement Application	Geometric
5	Decrement Value	4%
6	Day-count Convention	Actual / 365
7	Index Floor	0
8	Decrement Frequency	Daily



Appendix 5: Parameters used for the MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Gross)

The following parameters are used for the calculation of MSCI EMU Select ESG 50 Equal Weighted 4% Decrement Index (Gross)

	MSCI Decrement Indexes Methodology Parameters	Parameters
1	Currency of Calculation	EUR
2	Return Variant of the Parent	Daily Gross Total
	Index	Return
3	Decrement Type	Fixed Percentage
4	Decrement Application	Geometric
5	Decrement Value	4%
6	Day-count Convention	Actual / 365
7	Index Floor	0
8	Decrement Frequency	Daily



Contact us

AMERICAS

Americae

clientservice@msci.com

Americas	1 000 300 4307	
Atlanta	+ 1 404 551 3212	
Boston	+ 1 617 532 0920	
Chicago	+ 1 312 675 0545	
Monterrey	+ 52 81 1253 4020	C
New York	+ 1 212 804 3901	
San Francisco	+ 1 415 836 8800	
São Paulo	+ 55 11 3706 1360	C
Toronto	+ 1 416 628 1007	

1 888 588 /567 *

EUROPE, MIDDLE EAST & AFRICA

Cape Town	+ 27 21 673 0100
Frankfurt	+ 49 69 133 859 00
Geneva	+ 41 22 817 9777
London	+ 44 20 7618 2222
Milan	+ 39 02 5849 0415
Paris	0800 91 59 17 *

ASIA PACIFIC

China North	10800 852 1032 *
China South	10800 152 1032 *
Hong Kong	+ 852 2844 9333
Mumbai	+ 91 22 6784 9160
Seoul	00798 8521 3392 *
Singapore	800 852 3749 *
Sydney	+ 61 2 9033 9333
Taipei	008 0112 7513 *
Thailand	0018 0015 6207 7181 *
Tokyo	+ 81 3 5290 1555

* = toll free

ABOUT MSCI

MSCI is a leader provider of critical decision support tools and services for the global investment community. With over 45 years of expertise in research, data and technology, we power better investment decisions by enabling clients to understand and analyze key drivers of risk and return and confidently build more effective portfolios. We create industry-leading research-enhanced solutions that clients use to gain insight into and improve transparency across the investment process.

To learn more, please visit <u>www.msci.com</u>.



Notice and disclaimer

This document and all of the information contained in it, including without limitation all text, data, graphs, charts (collectively, the "Information") is the property of MSCI Inc. or its subsidiaries (collectively, "MSCI"), or MSCI's licensors, direct or indirect suppliers or any third party involved in making or compiling any Information (collectively, with MSCI, the "Information Providers") and is provided for informational purposes only. The Information may not be modified, reverse-engineered, reproduced or redisseminated in whole or in part without prior written permission from MSCI.

The Information may not be used to create derivative works or to verify or correct other data or information. For example (but without limitation), the Information may not be used to create indexes, databases, risk models, analytics, software, or in connection with the issuing, offering, sponsoring, managing or marketing of any securities, portfolios, financial products or other investment vehicles utilizing or based on, linked to, tracking or otherwise derived from the Information or any other MSCI data, information, products or services. The user of the Information assumes the entire risk of any use it may make or permit to be made of the Information. NONE OF THE INFORMATION PROVIDERS MAKES ANY EXPRESS OR IMPLIED WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE INFORMATION (OR THE RESULTS TO BE OBTAINED BY THE USE THEREOF), AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, EACH INFORMATION PROVIDER EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES (INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF OR APARTICULAR PURPOSE) WITH RESPECT TO ANY OF THE INFORMATION. COMPLETENESS, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) WITH RESPECT TO ANY OF THE INFORMATION.

Without limiting any of the foregoing and to the maximum extent permitted by applicable law, in no event shall any Information Provider have any liability regarding any of the Information for any direct, indirect, special, punitive, consequential (including lost profits) or any other damages even if notified of the possibility of such damages. The foregoing shall not exclude or limit any liability that may not by applicable law be excluded or limited, including without limitation (as applicable), any liability for death or personal injury to the extent that such injury results from the negligence or willful default of itself, its servants, agents or sub-contractors.

Information containing any historical information, data or analysis should not be taken as an indication or guarantee of any future performance, analysis, forecast or prediction. Past performance does not guarantee future results.

The Information should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. All Information is impersonal and not tailored to the needs of any person, entity or group of persons.

None of the Information constitutes an offer to sell (or a solicitation of an offer to buy), any security, financial product or other investment vehicle or any trading strategy.

It is not possible to invest directly in an index. Exposure to an asset class or trading strategy or other category represented by an index is only available through third party investable instruments (if any) based on that index. MSCI does not issue, sponsor, endorse, market, offer, review or otherwise express any opinion regarding any fund, ETF, derivative or other security, investment, financial product or trading strategy that is based on, linked to or seeks to provide an investment return related to the performance of any MSCI index (collectively, "Index Linked Investments"). MSCI makes no assurance that any Index Linked Investments will accurately track index performance or provide positive investment returns. MSCI Inc. is not an investment adviser or fiduciary and MSCI makes no representation regarding the advisability of investing in any Index Linked Investments.

Index returns do not represent the results of actual trading of investible assets/securities. MSCI maintains and calculates indexes but does not manage actual assets. Index returns do not reflect payment of any sales charges or fees an investor may pay to purchase the securities underlying the index or Index Linked Investments. The imposition of these fees and charges would cause the performance of an Index Linked Investment to be different than the MSCI index performance.

The Information may contain back tested data. Back-tested performance is not actual performance but is hypothetical. There are frequently material differences between back tested performance results and actual results subsequently achieved by any investment strategy.

Constituents of MSCI equity indexes are listed companies, which are included in or excluded from the indexes according to the application of the relevant index methodologies. Accordingly, constituents in MSCI equity indexes may include MSCI Inc., clients of MSCI or suppliers to MSCI. Inclusion of a security within an MSCI index is not a recommendation by MSCI to buy, sell, or hold such security, nor is it considered to be investment advice.

Data and information produced by various affiliates of MSCI Inc., including MSCI ESG Research LLC and Barra LLC, may be used in calculating certain MSCI indexes. More information can be found in the relevant index methodologies on www.msci.com.

MSCI receives compensation in connection with licensing its indexes to third parties. MSCI Inc.'s revenue includes fees based on assets in Index Linked Investments. Information can be found in MSCI Inc.'s company filings on the Investor Relations section of www.msci.com.

MSCI ESG Research LLC is a Registered Investment Adviser under the Investment Advisers Act of 1940 and a subsidiary of MSCI Inc. Except with respect to any applicable products or services from MSCI ESG Research, neither MSCI nor any of its products or services recommends, endorses, approves or otherwise expresses any opinion regarding any issuer, securities, financial products or instruments or trading strategies and MSCI's products or services are not intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. Issuers mentioned or included in any MSCI ESG Research materials may include MSCI Inc., clients of MSCI or suppliers to MSCI, and may also purchase research or other products or services from MSCI ESG Research. MSCI ESG Research materials, including materials utilized in any MSCI ESG Indexes or other products, have not been submitted to, nor received approval from, the United States Securities and Exchange Commission or any other regulatory body. Any use of or access to products, services or information of MSCI requires a license from MSCI. MSCI, Barra, RiskMetrics, IPD and other MSCI brands and product names are the trademarks, service marks, or registered trademarks of MSCI or its subsidiaries in the United States and other jurisdictions. The Global Industry Classification Standard (GICS)^w as developed by and is the exclusive property of MSCI and Standard & Poor's. "Global Industry Classification Standard (GICS)^w is a service mark of MSCI ESG Research LLC does not distribute or act as an intermediary for financial instruments or structured deposits, nor does it deal on its own account, provide

MINIO2/MINIOR notice: MSCLESG Research LLC does not distribute or act as an intermediary for financial instruments or structured deposits, nor does it deal on its own account, provide execution services for others or manage client accounts. No MSCLESG Research product or service supports, promotes or is intended to support or promote any such activity. MSCLESG Research is an independent provider of ESG data, reports and ratings based on published methodologies and available to clients on a subscription basis. We do not provide custom or oneoff ratings or recommendations of securities or other financial instruments upon request.

Privacy notice: For information about how MSCI ESG Research LLC collects and uses personal data concerning officers and directors, please refer to our Privacy Notice at https://www.msci.com/privacy-pledge.