



INDEX RULE BOOK

Euronext[®] Europe Sustainable 100 EW

Version 20-01 Effective from 15 May 2020

indices.euronext.com

Overview of Documents relating to the Governance of Euronext Indices

The following documents, all available on the following link: <https://www.euronext.com/en/indices/index-rules> should be read in conjunction with this document or provide other relevant information for the reader.

BENCHMARK STATEMENT

The Benchmark Statement identifies the primary features of an index family or families of indices in the context of the EU Benchmark regulation.

COMPLIANCE STATEMENT

The Compliance Statement provides details, for both significant and non-significant benchmarks, which provisions the administrator has chosen not to apply, and offers an explanation as to why it is appropriate not to apply each provision.

GOVERNANCE EURONEXT INDICES

The purpose of the 'Governance Euronext Indices' is to describe the role and responsibilities of each of the governance bodies that are part of the Benchmark Administrators of Euronext.

RULEBOOK OF EACH FAMILY OF INDICES

Each index is part of an index family that shares the basis for selection (universe) and which is managed in a comparable way. A separate rulebook is provided for each index family that will describe the specific features of that index family as well as specific elements of each index within that family.

METHODOLOGY EURONEXT INDICES(yet to be published)

The Methodology Euronext describes all aspects that apply for the

- periodical reviews,
- the calculation, and
- treatment of corporate actions

of indices provided by Euronext Indices.

PROCEDURES EURONEXT INDICES

This rulebook describes the various procedures that are applied for all Euronext Indices:

- Correction Policy
- Announcement Policy
- Complaints Procedure
- Consultations Procedure
- Procedure For Cessation of Indices

RULES OF PROCEDURE INDEPENDENT SUPERVISORS

For each Independent Supervisor Euronext publishes a 'Rule of Procedure' that describes the responsibilities and composition of each Independent Supervisor.

BENCHMARK OVERSIGHT COMMITTEE CHARTER

The Benchmark Oversight Committee Charter describes the role and responsibilities of the Benchmark Oversight Committee.

This publication is for information purposes only and is not a recommendation to engage in investment activities. This publication is provided "as is" without representation or warranty of any kind. Whilst all reasonable care has been taken to ensure the accuracy of the content, Euronext does not guarantee its accuracy or completeness. Euronext will not be held liable for any loss or damages of any nature ensuing from using, trusting or acting on information provided. All proprietary rights and interest in or connected with this publication shall vest in Euronext. No part of it may be redistributed or reproduced in any form without the prior written permission of Euronext.

Euronext refers to Euronext N.V. and its affiliates. Information regarding trademarks and intellectual property rights of Euronext is located at <https://www.euronext.com/terms-use>.

© 2019, Euronext N.V. - All rights reserved.

For further information in relation to Euronext Indices please contact: index-team@euronext.com

Index

1. General	3
1.1 Highlights Euronext® Europe Sustainable 100 EW	3
1.2 Version notes	3
2. Reference information and Publication of index levels	4
2.1 Reference table	4
2.2 Base Currency	4
2.3 Publication of index levels	4
3. Index reviews	5
3.1 Review Frequency and Relevant Dates	5
3.2 Selection steps	6
4. Periodical update of weighting	8
4.1 Weighting Factors	8
4.2 Quarterly review	8
5. Corporate Actions	9
5.1 Events that change the composition	9
5.2 Events that change the weighting factors	11
6. Index Calculation Formulas	13
7. ESG Disclosures	15

1. GENERAL

1.1 HIGHLIGHTS EURONEXT® EUROPE SUSTAINABLE 100 EW

Objective	The Euronext Europe Sustainable 100 EW family is designed to reflect the price level trends in the trading of shares listed in Europe. Changes are made on a quarterly basis and reflect the changes in size of the companies in the Universe.
Administrator	Euronext Paris is the Administrator of the Europe Sustainable 100 EW index family.
Supervisor	Euronext internal supervisor
Universe	The index universe consists of the 500 companies included in the Euronext Europe 500 index.
Liquidity Analysis	The stocks with an average daily turnover below 10 million € over a year are eliminated.
Selection basis	All the companies part of the Universe are ranked by descending corporate responsibility score. The 200 highest-ranking listed companies are pre-selected. The 100 stocks with the lowest 1 year drawdown are selected.
Review Cut Off Date	Penultimate Friday of February, May, August and November. Penultimate means the Friday before the last Friday.
Weighting basis	Equally Weighted
Review frequency	Quarterly, effective after the Third Friday of March, June, September and December.
Index family	Price index; Net return index, Gross return index and Decrement 50 points on Gross return.
Trademarks	Euronext N.V. or its subsidiaries (hereinafter jointly "Euronext") owns all intellectual and other property rights to the index, including the name, the composition and the calculation of the index. Euronext® is a registered trademark of Euronext.

1.2 VERSION NOTES

Version	Effective date	New or changed parts
19-01	1 June 2019	Selection method updated: now based on Euronext Europe 500 index instead of previous 500 largest companies from various countries.
20-01	15 May 2020	Integration of ESG Disclosures

2. REFERENCE INFORMATION AND PUBLICATION OF INDEX LEVELS

2.1 REFERENCE TABLE

Index name	Isincode	Mnemo	Bloomberg Code	Reuters code	Base date	Base value	Publication since	Type of index
Euronext® Europe Sustainable 100 EW	NL0012758627	ES1EP	E100ESGP	.ES1EP	24/02/2017	1 000	23/02/2018	Price
Euronext® Europe Sustainable 100 EW NR	NL0012758635	ES1EN	E100ESGN	.ES1EN	24/02/2017	1 000	23/02/2018	Net Return
Euronext® Europe Sustainable 100 EW GR	NL0012758643	ES1EG	E100ESGG	.ES1EG	24/02/2017	1 000	23/02/2018	Gross Return
Euronext® Europe Sustainable 100 EW Decrement 50 Points	NL0012758650	ES1ED	EU100ESG	.ES1ED	24/02/2017	1 000	23/02/2018	Decrement 50 pints on GR

The backtest history of these indices is available from 30/12/2005.

2.2 BASE CURRENCY

All Indices have Euro as their Base Currency.

2.3 PUBLICATION OF INDEX LEVELS

The index is calculated based on the most recent prices of transactions concluded on the main markets in each of the countries that are included in the index. The level of the index is in principle published every 15 seconds. The index is calculated from 09:00 hours until Euronext Markets stop regular daytime trading on the days when Euronext Markets are open for trading.

The official opening level is the first level published after a share price is available for all constituents. Index levels published before the official opening level is published are considered pre-opening index levels.

If, for whatever reason, share prices are not available for all constituents five minutes after Euronext Markets (as defined in the Euronext harmonised rule book) started regular daytime trading, the official opening level will be published as soon as the companies whose share prices are available of the current trading day represent at least 80% of the value of the index at the close of the previous trading day.

The closing level is the last level disseminated on the trading day.

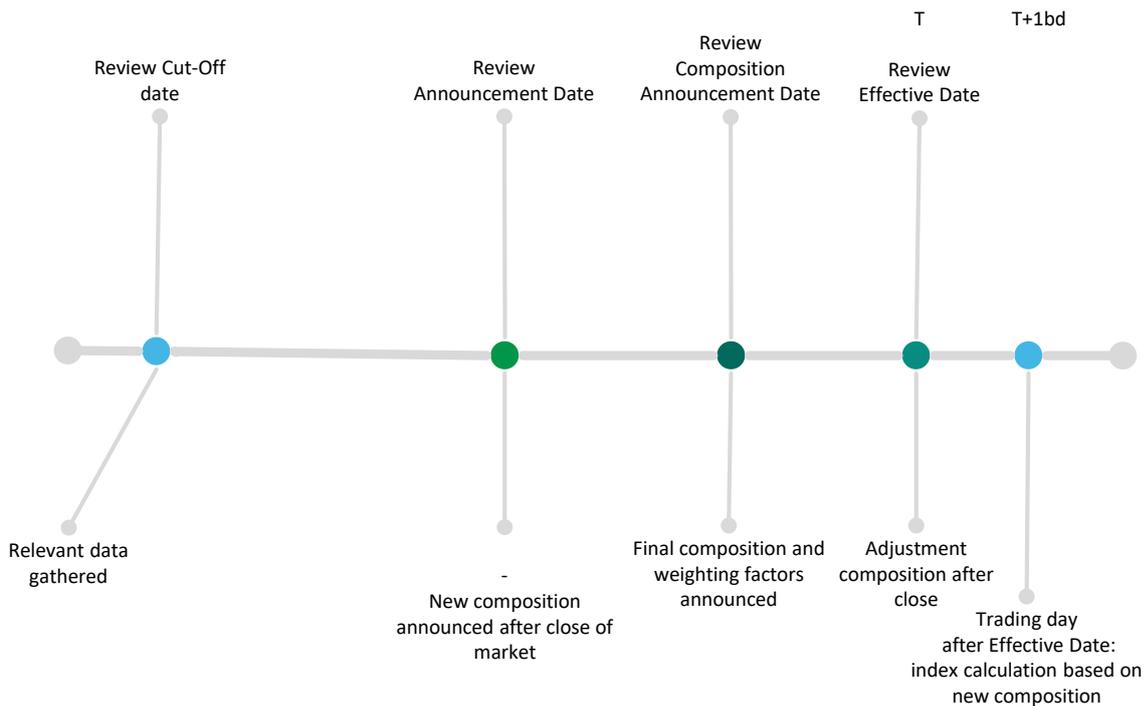
3. INDEX REVIEWS

3.1 REVIEW FREQUENCY AND RELEVANT DATES

The Review Cut-Off Date is after the market close of the penultimate Friday of February, May, August and November (for the quarterly reviews).

The Review Composition Announcement Date is at least two days before the Review Effective Date. Review There is no separate announcement for the reviews, so the Review Announcement Date is not applicable.

The Review Effective Date is after the market close of the third Friday of September, March, June and December.



3.2 SELECTION STEPS

3.2.1 Step 1: Index Universe

The Index Universe consists of the 500 companies included in the Euronext Europe 500 index. At reviews this means included in the reference index after the Review Effective Date.

3.2.2 Step 2: Eligibility screening at reviews and Liquidity Analysis

Step 2a Liquidity Analysis

The stocks with an average daily turnover below 10 million € over a year are eliminated. Should this step lead to a number of stocks below 300, new stocks will be added based on the highest average daily turnover until there are 300 stocks.

3.2.3 Step 3: Selection Ranking

Vigeo-Eiris assesses and rates the performances of companies according the Equitics® methodology based on 38 criteria, divided in to six key areas of corporate environmental, social and governance responsibility. Each company is assigned an [ESG](#) score (0 to 100, the higher the better).

The 200 best ESG Scores as determined by Vigeo-Eiris are retained. In case the marginally selected stocks (ex: ranked 200, 201 and 202) have the same score, those latest will all be selected, meaning that more than 200 stocks can be retained at this stage.

The stocks are ranked by descending 1 year maximum percentage drawdown.

The annual maximum drawdown is defined as the peak-to-trough decline of an investment over a year. The prices used for the computation will be adjusted for corporate actions such as Stock Splits, Bonus issues, Rights issues, Special dividends and Spin-offs.

$$Max\ Drawdown = \min_{t \in [0, T]} \left\{ \frac{P_t}{\max P_{0 \rightarrow t}} - 1 \right\}$$

In case of an equal drawdown percentage, the ranking is done by descending ESG Score. In case of an equal ESG Score, the ranking is done by descending free float market capitalisation on the review cut-off. The 100 top ranked stocks are selected.

3.2.4 Step 4: Selection of constituents at the annual and quarterly reviews (in March, June, September and December)

The 100 top ranked stocks are selected.

Vigeo-Eiris ESG Score

The ESG score is based on a 2-step approach:

Step 1:

Vigeo-Eiris assesses and rates the performances of companies according the Equitics® methodology based on 38 criteria, divided in to six key areas of corporate environmental, social and governance responsibility, namely:

- Environment: Protection, safeguard, prevention of attacks on the environment, implementation of an adequate managerial strategy, ecodesign, protection of biodiversity and reasonable control of environmental impacts on the overall life cycle of products and services .
- Human Rights: Respect of trade unions' freedom and promotion of collective negotiation, non-discrimination and promotion of equality, eradication of banned working practices, and prevention of inhumane or humiliating treatments.
- Human Resources: Constant improvement of industrial relations, career development, as well as quality of working conditions.
- Community Involvement : Contribution to economic and social development of the territories of establishment and their human communities, concrete commitment in favor of the control of societal impacts of products and services, transparent and participative contribution to causes of general interest .
- Business Behaviour: Taking into account clients' rights and interests, integration of social and environmental standards both in the process of selection of suppliers and in the overall supplying chain, efficient prevention of corruption, and respect of competition laws.
- Corporate Governance : Efficiency and integrity, insurance of both independence and effectiveness of the Board of Directors, effectiveness and efficiency of audit and control systems, and in particular inclusion of social responsibility risks, respect of shareholders' rights and most of all of the minorities, transparency and moderation in executive remuneration.

Step2 – Overall score

- Each issuer is assigned an overall score out of 100 (the higher the better) which is a weighted and consolidated score of all sustainability factors in a given sector.

4. PERIODICAL UPDATE OF WEIGHTING

4.1 WEIGHTING FACTORS

The index calculation of this index is based on Equal Weight.

For this index only the Number of Shares is relevant.

4.2 QUARTERLY REVIEW

The new weightings in shares of the constituents are based on the new composition of the index in combination with the closing prices of the Review Composition Announcement date.

The new weightings are calculated such that each constituent will have an equal weight in the index. The weightings will be rounded to the nearest whole number. The weightings are determined based on the closing prices observed on the Review Composition Announcement Date.

5. CORPORATE ACTIONS

5.1 EVENTS THAT CHANGE THE COMPOSITION

5.1.1 Mergers and acquisitions

Acquisitions in cash

In the event of a bid in cash, the target company will be removed from the index. The removal will take place with effect after the close of the first full business day following the acceptance of the bid. If a company is removed from the index, the divisor will be adapted to maintain the index level.

Mergers and takeovers in shares

In the event of a merger, acquisition or similar situation where the bid is made in the form of shares, the constituent will be replaced by the newly formed company, provided that this company complies with the requirements for the Index Universe. The replacement will take place in line with the schedule of the transaction. The replacement of the shares of the relevant index constituent by the shares of the newly formed company will be executed on the basis of the bid ratio.

Mixed transactions

In case a of a mixed bid of cash and shares Index Design will treat the bid as a share bid if the share part amounts to at least 75% of the offer price, on the day of the publication of the terms of the offer. The replacement of the shares of the relevant index constituent by the shares of the company that continues to be traded will be executed on the basis of the bid ratio. The divisor will be adapted only for the cash part of the offer price.

Continued inclusion or specific treatments

Index Design reserves the right to apply a specific treatment in non-standard situations including but not limited to:

- Competing bids with differing closing dates or structures;
- Offers made without the intention to gain full control.

In case of a specific treatment a separate announcement detailing the specific treatment will be issued timely to the market.

Inclusion of new companies for periodical reviewed indices

As a rule newly listed companies are considered for inclusion in the index at the time of the periodical index review.

5.1.2 Suspensions, Company distress and Delistings

Suspension

If a constituent is suspended, Index Design will consider whether the constituent should be removed or not within five trading days. If it is decided to maintain the constituent a further reassessment date will be set. Index Design reserves the right to take action before that date if new developments give reason to do so.

In case a constituent is removed following suspension, it will be removed from the index as soon as possible and on a day announced by Index Design. The company will be removed from the index after the close of the markets assuming a price of zero unless Index Design sets a different price, where possible supported by an objective source.

If it has been announced that a constituent will be delisted from the relevant market, it will be removed from the index as soon as possible and on a day announced by Index Design. The company will be removed from the index based on either the last known price established during regular daytime trading or on a price determined by Index Design, whereby the company may also be removed at a price of zero.

Removing assuming a price of zero implies no divisor change because of the removal. If another price is set, the divisor will change based on the removal of the value of that company from the index portfolio when applying that price.

In the event that the trading in shares is suspended, the last known price established during regular daytime trading will be used.

5.1.3 SPLIT UP / SPIN-OFF

In the event that a company included in the index is split up, the companies resulting from the split, including the original company where appropriate will continue to be included in the index providing they meet the requirements for inclusion in the Index Universe.

The index may then temporarily consist of fewer than, or more than the standard number of constituents until the next periodical review takes place.

For the purposes of these rules a split up is taken to mean a legal demerger, a spin-off or another situation which Index Design deems to be similar.

In case the shareholder of the company which was originally included in the index does not automatically receive shares in a company which is created as a result of the split up, this company is considered to be a newly listed company.

The removal of any non-qualifying company resulting from a split up will take place after the close of the first day of trading in the shares of that company. If all companies resulting from the split are to be removed, the removal will take place at the close of the last trading day before the split.

In case a company resulting from the split up will not be admitted to listing on a main market in one of the countries that are included in the index, Index Design will select an appropriate price source for the calculation of the index and the removal of the spun off company on the first trading day after the spin off.

5.2 EVENTS THAT CHANGE THE WEIGHTING FACTORS

5.2.1 Dividends

Criteria for determining special dividends

The price index will be adjusted for dividends that are special.

The following criteria will be applied to decide whether a dividend should be considered a special dividend:

- a) The declaration of a company of a dividend additional to those dividends declared as part of the company's normal results and dividend reporting cycle; merely an adjustment to the timing of the declaration of a company's expected dividend would not be considered as a special dividend circumstance; or
- b) The identification of an element of a dividend paid in line with a company's normal results and dividend reporting cycle as an element that is unambiguously additional to the company's normal payment.

For the purpose of clarification, no adjustment will be made for the following situations:

1. Payment of ordinary dividends, irrespective of how they are financed;
2. Issue of redeemable shares or any other entitlement in lieu of an ordinary dividend; or
3. Unexpected increase or decrease, resumption or cessation, or change in frequency to an ordinary dividend.

Adjustment for special dividend

The adjustment of the index takes place by a reduction of the closing price of the share in question. Subsequently the divisor will be adapted in order to maintain the index level. The adjustments will be based on gross amounts.

Ordinary dividends in shares

If a dividend is distributed in the form of shares only and if this is regarded as ordinary dividend, the return index will be reinvesting a cash equivalent of the dividend. If shareholders may choose between cash or shares the amount which is reinvested will be based on the cash option.

Conversion of dividends declared in other currencies

If a dividend for a constituent is declared in another currency than the Base Currency of the index, then Index Design will in first instance use the Base Currency amount if investors have the option to be paid in that currency. If the dividend amount is available only in currencies that deviate from the Base Currency, Index Design will convert the dividend amount using the reference rate for the cum-day (the business day prior to

the ex-date). In principle the reference rate will be based on the foreign exchange reference rates as published daily by the ECB.

5.2.2 Bonus issues, stock splits and reverse stock splits

For bonus issues, stock splits and reverse stock splits, the number of shares included in the index will be adjusted in accordance with the ratio given in the corporate action. The divisor will not be changed because of this. Index Design may regard a bonus issue as the issue of an entitlement in lieu of an ordinary dividend and therefore treat this as a dividend.

5.2.3 Rights issues and other rights

In the event of a rights issue an adjusted closing price will be applied as calculated by Index Design. The index is adjusted based on the value of the rights only. The divisor will be adapted in such a way that the level of the index remains the same.

The index will be adjusted only if the rights represent a positive value.

The index will also be adjusted if a value can be attributed to a subscription right for convertible bonds, bonds with warrants or warrants with preferential rights for shareholders or similar situations. If the value cannot be attributed straightforward, Index Design may also decide to include the detached instrument for one day and adjust the index at the close based on the closing price for that subscription right on that day.

5.2.4 Partial tender offers on own shares

Index Design will adjust the divisor of the index if the premium represents more than 5% of the share price of the close on the penultimate day before the ex-date (the day prior to the last day before the ex-day). The premium is calculated as the difference between the offered price and the closing price, multiplied by the percentage of the share capital targeted in the offer. If the divisor is adjusted, the number of shares in the index will be adjusted as well.

6. INDEX CALCULATION FORMULAS

The general formula for the **price index** is:

$$I_t = \frac{\sum_{i=1}^N Q_{i,t} F_{i,t} f_{i,t} C_{i,t} X_{i,t}}{d_t}$$

Where:

- t Time of calculation
- N Number of constituent equities in index
- $Q_{i,t}$ Number of shares of equity i included in the index on day t
- $F_{i,t}$ Free Float Factor of equity i ¹
- $f_{i,t}$ Capping factor of equity i ¹
- $C_{i,t}$ Price of equity i on t
- $X_{i,t}$ Current exchange rate on t ¹
- d_t Divisor of the index on day t

The **total return index** calculation takes two steps: the first step is to transpose the announced dividend payment into index points. This is called the XD adjustment. This uses the following formula:

$$\text{XD adjustment} = \sum_{i=1}^N \frac{g_i * w_i}{d}$$

Where:

- N Number of constituent equities in index
- g_i The announced dividend per share of the i^{th} component stock (for net return index withholding tax is deducted from this dividend);
- w_i The weighting of the i^{th} component stock in the index, based on number of shares included in the index, Free Float Factor, capping factor and exchange rate;
- d Divisor of the index.

The second step of the calculation uses the figures calculated in step one (XD adjustment). The dividend is assumed to be reinvested at the close of the ex-date.

¹ Factor is equal to 1 if not applied for the index

$$TR_t = TR_{t-1} \left(\frac{IV_t + XD}{IV_{t-1}} \right)$$

Where:

TR_{t-1} : Total return index value yesterday;

TR_t : Total return index value on t;

IV_{t-1} : Underlying price index yesterday;

IV_t : Underlying price index on t;

The **decrement index** uses the following formula:

$$DEC_t = DEC_{t-1} * \frac{GR_t}{GR_{t-1}} - Const \cdot \frac{day}{365} \quad \text{Where:}$$

DEC_{t-1} : DEC index value previous calculation date;

DEC_t : DEC index value on t;

GR_{t-1} : Gross return index value previous calculation date;

GR_t : Gross return index value on t;

Const: 50 points

day: Number of calendar days between index business day t-1 and t

7. ESG DISCLOSURES

EXPLANATION OF HOW ESG FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY	
Item 1. Name of the benchmark administrator.	Euronext Paris
Item 2. Type of benchmark	Equity Benchmark
Item 3. Name of the benchmark or family of benchmarks.	Euronext Europe Sustainable 100 EW index
Item 4. Does the benchmark methodology for the benchmark or family of benchmarks take into account ESG factors?	Yes
Item 5. If the response to Item 4 is positive, please find below the ESG factors that are taken into account in the benchmark methodology and how they are used for selection, weighting and exclusion	
a) List of environmental factors considered:	<p>ESG score</p> <p>Selection:</p> <p>All the companies part of the Universe are ranked by descending corporate responsibility score. The 200 highest-ranking ESG scores are pre-selected. Then the 100 stocks with the lowest 1 year drawdown are selected.</p> <p>In case of an equal drawdown percentage, the ranking is done by descending ESG Score. In case of an equal ESG Score, the ranking is done by descending free float market capitalization on the review cut-off. The 100 top ranked stocks are selected.</p>
b) List of social factors considered:	Please refer to a)
c) List of governance factors considered:	Please refer to a)
Item 6. Data and standards used.	
<p>a) Data input.</p> <p><i>(i) Describe whether the data are reported, modelled or, sourced internally or externally.</i></p> <p><i>(ii) Where the data are reported, modelled or sourced externally, please name the third party data provider.</i></p>	<p>Vigeo-Eiris provides:</p> <ul style="list-style-type: none"> • ESG score <p>The ESG score is based on a 2-step approach:</p> <p>Step 1:</p> <p>Vigeo-Eiris assesses and rates the performances of companies according the Equitics® methodology based on 38 criteria, divided in to six key areas of corporate environmental, social and governance responsibility</p>

	<p>Step2 – Overall score</p> <p>Each issuer is assigned an overall score out of 100 (the higher the better) which is a weighted and consolidated score of all sustainability factors in a given sector.</p>
<p>b) Verification of data and guaranteeing the quality of those data.</p> <p><i>Describe how data are verified and how the quality of those data is ensured.</i></p>	<p>Vigeo-Eiris represents and warrants that to the best of its knowledge the Methodology is robust and reliable, rigorous and capable of validating and verifying including, but not limited to, the following:</p> <ul style="list-style-type: none"> • shall promptly correct any errors made in its computations of the Data and inform Euronext thereof, immediately. • periodically review the Methodology • has clear written rules identifying how and when discretion may be exercised when deviating from the methodology • will inform Euronext prior to making any material change to the Methodology and will provide Euronext with the rationale for such change.
<p>c) Reference standards</p> <p><i>Describe the international standards used in the benchmark methodology.</i></p>	<p>Vigeo-Eiris : the methodology behind ESG performance indicators and the assessment of controversies severity is based on the following international standards :</p> <ul style="list-style-type: none"> • Global Reporting Initiative (GRI) • OECD Guidelines for Multinational Enterprises, and sectorial guidance • G20/OECD recommendations on Corporate governance • UN Conventions and recommendations, • UN Global Compact Principles • UN Sustainable Development Goals • ILO Conventions , including the core ones, and recommendations • TFCF recommendations • Paris Agreement (UNFCCC)
<p>Information updated on:</p>	<p>30th April 2020</p>