

**iBoxx EUR  
Corporates Net Zero  
2050 Paris-Aligned  
ESG Sub-sections  
Index Methodology**

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# iBoxx EUR Corporates Net Zero 2050 Paris Aligned ESG Sub-indices

The following additional sub-indices will be delivered as a customized solution

- iBoxx EUR Financials Senior A 1-5 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Financials Senior A 5-10 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Financials Senior AA 1-5 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Financials Senior AA 5-10 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Financials Senior BBB 1-5 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Financials Senior BBB 5-10 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Non-Financials Senior A 1-5 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Non-Financials Senior A 5-10 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Non-Financials Senior AA 1-5 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Non-Financials Senior AA 5-10 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Non-Financials Senior BBB 1-5 Net Zero 2050 Paris-Aligned ESG Index
- iBoxx EUR Non-Financials Senior BBB 5-10 Net Zero 2050 Paris-Aligned ESG Index

This document covers the family structure, rules and calculation methodology.

Index Name	Level 2	Debt	Rating	YTM
iBoxx EUR Financials Senior A 1-5 Net Zero 2050 Paris-Aligned ESG Index	Financials	Senior	A	Minimum 1 year and maximum 5 years
iBoxx EUR Financials Senior A 5-10 Net Zero 2050 Paris-Aligned ESG Index	Financials	Senior	A	Minimum 5 years and maximum 10 years
iBoxx EUR Financials Senior AA 1-5 Net Zero 2050 Paris-Aligned ESG Index	Financials	Senior	AA	Minimum 1 year and maximum 5 years
iBoxx EUR Financials Senior AA 5-10 Net Zero 2050 Paris-Aligned ESG Index	Financials	Senior	AA	Minimum 5 years and maximum 10 years
iBoxx EUR Financials Senior BBB 1-5 Net Zero 2050 Paris-Aligned ESG Index	Financials	Senior	BBB	Minimum 1 year and maximum 5 years
iBoxx EUR Financials Senior BBB 5-10 Net Zero 2050 Paris-Aligned ESG Index	Financials	Senior	BBB	Minimum 5 years and maximum 10 years
iBoxx EUR Non-Financials Senior A 1-5 Net Zero 2050 Paris-	Non-Financials	Senior	A	Minimum 1 year and maximum 5 years

Index Name	Level 2	Debt	Rating	YTM
Aligned ESG Index				
iBovx EUR Non-Financials Senior A 5-10 Net Zero 2050 Paris-Aligned ESG Index	Non-Financials	Senior	A	Minimum 5 years and maximum 10 years
iBovx EUR Non-Financials Senior AA 1-5 Net Zero 2050 Paris-Aligned ESG Index	Non-Financials	Senior	AA	Minimum 1 year and maximum 5 years
iBovx EUR Non-Financials Senior AA 5-10 Net Zero 2050 Paris-Aligned ESG Index	Non-Financials	Senior	AA	Minimum 5 years and maximum 10 years
iBovx EUR Non-Financials Senior BBB 1-5 Net Zero 2050 Paris-Aligned ESG Index	Non-Financials	Senior	BBB	Minimum 1 year and maximum 5 years
iBovx EUR Non-Financials Senior BBB 5-10 Net Zero 2050 Paris-Aligned ESG Index	Non-Financials	Senior	BBB	Minimum 5 years and maximum 10 years

# Bond selection rules

The following selection criteria are used to determine and weigh the index constituents:

- Bond type
- Credit rating
- Time to maturity
- Amount outstanding
- ESG Criteria

## Bond Type

Only fixed-rate bonds whose cash flow can be determined in advance are eligible. The indices are comprised solely of bonds. T-Bills and other money market instruments are not eligible. The indices include only Euro and legacy currency denominated bonds. The issuer's domicile is not relevant.

In particular, bonds with the following characteristics are included:

- Fixed coupon bonds ("plain vanilla bonds")
- Zero coupon bonds
- Step-up bonds
- Callable bonds with European or American options
- Event-driven bonds with step-up and step-down coupons, such as rating- or tax-driven bonds
- Dated and undated callable subordinated corporate bonds, including fixed-to-floating rate bonds
- Soft bullet bonds. These are bonds with an initial fixed-coupon period, and a variable or step-up coupon period thereafter, that are structured so that they are expected to be redeemed at the end of the initial period
- Bonds with call options where the first and subsequent call dates are on a date when the bond is otherwise no longer eligible for the index
- Subordinated financial fixed-to-floating rate bonds with a reset date on or after the first call date
- Senior bank bonds with call options where the first call date is 25 months or less prior to final maturity

The following bond types are specifically excluded from the indices:

- Sinking funds and amortizing bonds
- Other callable and undated bonds
- Floating rate notes and other fixed-to-floater bonds
- Optionally and mandatory convertible bonds from non-financial issuers
- Subordinated financial debt with mandatory contingent conversion features that are based on an observable trigger, or with any conversion options before the first call date
- Collateralized Debt Obligations (CDOs) and bonds collateralized by CDOs

- Retail bonds
- Private placements
- Bonds with differences between accrual and coupon payment periods and monthly-paying bonds
- Extended bonds as defined under section ‘Maturity extension’ in this document
- AT1 or RT1 debt:
  - Without an explicit capital ratio or solvency/balance-sheet-based trigger
  - With conversion features based solely on regulatory discretion for conversion or write-down.

For retail bonds and private placements, publicly available information is not always conclusive and the classification of a bond as a retail bond or a private placement will be made at S&P DJI’s discretion based on the information available at the time of determination. Partial private placements where information on the specific amounts publicly placed and privately placed can be ascertained are included in the indices with the amount publicly placed. If the amount publicly placed is below the cut-off, the bond is not included in the indices. Any bond classified as retail or private placement is added to the list of excluded private placements and retail bonds. The list is published at [www.spglobal.com/spdji](http://www.spglobal.com/spdji) for future reference and to ensure consistency.

In instances where a new bond type is not specifically excluded or included according to the published index rules, S&P DJI will analyze the features of such securities in line with the principles set out in this methodology. S&P DJI may consult specific Index Committees. Any decision as to the eligibility or ineligibility of a new bond type will be published and the index rules will be updated accordingly.

### **Credit Rating**

All bonds in the indices must have an iBoxx Rating of investment grade. Ratings from the following three credit rating agencies are considered for the calculation of the iBoxx Rating:

- Fitch Ratings
- Moody’s Investor Service
- S&P Global Ratings

Investment grade is defined as BBB- or higher from Fitch Ratings and S&P Global Ratings and Baa3 or higher from Moody’s Investor Service. Bonds with an RD/SD rating are excluded from the indices. If more than one of the above agencies rates a bond, then the iBoxx rating is the average of the provided ratings. The index consolidates ratings to the nearest rating grade and does not use rating notches. If a new tranche of a bond is not rated, the rating of its parent applies.

*For more information on average ratings, please refer to the iBoxx Rating Methodology, available at [www.spglobal.com/spdji](http://www.spglobal.com/spdji).*

### **Time to Maturity**

At each rebalancing effective date, all bonds must have a minimum time to maturity of at least 12 months, calculated from the rebalancing effective date to the expected workout date using the respective bond’s day count convention.

All bonds must have an initial time to maturity of at least 18 months, calculated from the bond’s first settlement date to the expected workout date.

For the specific bond types below, the indices determine the bond’s expected workout date as follows:

- Plain vanilla bonds: the expected workout date is the final maturity date
- Dated and undated callable financial hybrid capital bonds: the expected workout date is the first

call date

- Non-financial hybrid capital bonds with an interest rate reset: the expected workout date is the first reset date
- Soft bullets: the expected workout date is the first call date
- For senior callable bank bonds, the first call date will be considered as the workout date if the call date is more than 11 months prior to the final maturity. In case the first call date is 11 months or less prior to the maturity date, the final maturity date will be assumed as the workout date to calculate the time to maturity

### **Amount outstanding**

All bonds require a specific minimum amount outstanding in order to be eligible for the index, as shown below. The figures indicate minimum issue sizes.

- Corporates: EUR 500 million – EUR 1 billion for legacy bonds (converted from pre-EUR currencies)

### **ESG Criteria**

The ESG data is sourced from different ESG vendors, based on data availability and focus.

### **Greenhouse Gas Emissions**

#### **S&P Global Trucost Green House Gas Emissions**

Scope 1, 2, and 3 emissions are sourced from S&P Global Trucost to meet decarbonization objectives which are in line with the European Union's benchmark regulations ("EU BMR"). All three scope emissions are measured in tons of CO<sub>2</sub> equivalent units.

- **Scope 1 emissions** - emissions from directly emitting sources that are owned or controlled by a company, for example, the emissions produced by the internal combustion engines of a trucking company's lorry fleet
- **Scope 2 emissions** -emissions from the consumption of purchased electricity, steam, or other sources of energy generated upstream from a company's direct operations
- **Scope 3 emissions** - all other emissions associated with a company's operations but that are not directly owned or controlled by the company. Scope 3 emissions therefore include several sources of indirect emissions in both the company's supply chain and downstream from the company's owned or controlled operations (e.g. the emissions from the in-use phase of a company's products or services, such as the driving of a lorry produced by automobile manufacturer). By such a definition, scope 3 emissions are attributed the largest quantity of a company's emissions footprint

### **Fossil Fuel Reserves**

#### **S&P Global Trucost Fossil Fuel Reserves**

Fossil fuel companies hold a vast oil, gas, and coal reserves which help determine their market value. Fossil fuel reserves pose climate risks when they are burned. S&P Global Trucost measures fossil fuel reserves across a range of activities including metallurgical coal, thermal coal, conventional oil, unconventional oil, natural gas, shale gas, and many other categories. The reserves are measured in million tons CO<sub>2</sub>.

## Fossil Fuel operations and Power Generation

### S&P Global Trucost Sector Revenues

S&P Global Trucost defines 464 sectors that are closely aligned with the North American Industry Classification System (NAICS). S&P Global Trucost's sectors form the basis for the classification process used in the Environmental Register (TER) research process. Companies' revenues for a given financial year are assigned to each relevant S&P Global Trucost sector, mapping a single company to a number of S&P Global Trucost sectors. The sector revenue mapping can be used for excluding companies with a large % of revenue generated from environmental harmful activities (e.g. coal exploration).

As of each rebalancing reference date, companies considered for the iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices are excluded from the eligible universe if the sum of their revenues derived from the relevant S&P Global Trucost sectors breach the following revenue thresholds:

Exclusion Type	S&P Global Trucost Revenue Sectors	Revenue Threshold
Coal Exploration or Processing	Bituminous Coal and Lignite Surface Mining Bituminous Coal Underground Mining All Other Petroleum and Coal Products Manufacturing Pipeline Transportation	≥ 1%
Oil Exploration or Processing	All Other Petroleum and Coal Products Manufacturing Crude Petroleum and Natural Gas Extraction Drilling Oil and Gas Wells Support Activities for Oil and Gas Operations Petroleum Lubricating Oil and Grease Manufacturing Mining and Oil and Gas Field Machinery Manufacturing Tar Sands Extraction Petroleum Refineries Petrochemical Manufacturing Pipeline Transportation	≥ 10%
Natural Gas Exploration or Processing	Crude Petroleum and Natural Gas Extraction Drilling Oil and Gas Wells Support Activities for Oil and Gas Operations Mining and Oil and Gas Field Machinery Manufacturing Natural Gas Liquid Extraction Natural Gas Distribution Industrial Gas Manufacturing Pipeline Transportation	≥ 50%
Power Generation	Coal Power Generation Petroleum Power Generation Natural Gas Power Generation Biomass Power Generation	≥ 50%

These exclusions use the sector revenues dataset from S&P Global Trucost.

For more information, please refer to <https://www.spglobal.com/esg/trucost>. For information on Trucost's methodology, please refer [here](#).

### ESG Risk Scores

### Sustainalytics ESG Risk Ratings

Sustainalytics [ESG Risk Ratings](#) are designed to help investors identify and understand financially material ESG risks at the security and portfolio level and how they might affect the long-term performance for equity and fixed income investments. The ESG Risk Ratings, combined with qualitative analyses, provide clients with a differentiated risk signal and deeper insights into the materiality of certain ESG issues for a company and what the company is or is not doing to manage them effectively.

The company's overall score applies the concept of risk decomposition to derive the level of unmanaged risk for a company, which is assigned to one of five risk categories. The score ranges from 0 and 100, with 0 indicating that risks have been fully managed (no unmanaged ESG risks) and 100 indicating the highest level of unmanaged risk. It is calculated as the difference between a company's overall exposure score and its overall managed risk score, or alternatively by adding the Corporate Governance unmanaged risk score to the sum of the company's issue unmanaged risk scores.

*For more information, please refer to the [Sustainalytics ESG Risk Ratings Methodology](#).*

## **Controversies**

### **Sustainalytics Controversy Score**

Sustainalytics Controversies Research identifies companies' involved in incidents and events that may pose a business or reputation risk to a company due to the potential impact on stakeholders or the environment. The controversy score is based on the most up-to-date information from a wide range of reliable international and local news and NGO sources. Controversies are rated on a scale from one to five with five denoting controversies that have the most severe impact to stakeholders and the environment, leading to business risks to companies. In particular, the iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices excludes companies that have a controversy score of 5.

*For more information, please refer to [Sustainalytics Controversies Research](#).*

## **UNGC/GSS screening**

### **Sustainalytics Global Standards Screening**

Companies are expected to operate within internationally accepted norms and standards related to:

- Human Rights
- Society
- Labor
- Environment

Sustainalytics Global Standards Screening (GSS) assesses companies compliance with the United Nations (UN) Global Compact Principles. It identifies companies that are violating or are at risk of violating these principles, by assigning one of the following three statuses:

- Non-Compliant. Classification given to companies that do not act in accordance with the UNGC principles and its associated standards, conventions, and treaties
- Watchlist. Classification given to companies that are at risk of violating one or more principles, for which all dimensions for Non-Compliant status could not be established or confirmed
- Compliant. Classification given to companies that act in accordance with the UNGC principles and its associated standards, conventions, and treaties

The nature and scope of impact on stakeholders is one of the primary ways Sustainalytics determine compliance status.

Companies classified as Non-Compliant, according to Sustainalytics, are ineligible for the index. Companies not covered by Sustainalytics are excluded from the index.

For more information, please refer to the [Sustainalytics Global Standards Screening](#).

## Product Involvement

### Sustainalytics Product Involvement Screening

Product Involvement (PI) provides research on company involvement in products and services, which allow for screening companies according to specific criteria motivated by ethical, impact, compliance or ESG risk considerations. Level of Involvement refers to the company's direct exposure to such products through revenue generation, while Significant Ownership indicates where the company has indirect involvement above a specified level of ownership of a subsidiary company with involvement. Companies not covered by Sustainalytics are excluded from the index. Issuers with exposure to the following activities and at the following thresholds are excluded:

Product Involvement	Category of Involvement	Level of Involvement Revenue Threshold	Significant Ownership Threshold
Controversial Weapons	<b>Tailor Made and Essential:</b> The company is involved in the core weapon system, or components/ services of the core weapon system that are considered tailor-made and essential for the lethal use of the weapon.	> 0%	≥ 25%
	<b>Non-Tailor Made and NonEssential:</b> The company provides components/services for the core weapon system, which are either not considered tailor-made or not essential to the lethal use of the weapon.	> 0%	≥ 25%
Tobacco	<b>Production:</b> The company manufactures tobacco products.	> 0%	≥ 25%
	<b>Related Products/Services:</b> The company supplies tobaccorelated products/services.	≥ 5%	≥ 25%
	<b>Retail:</b> The company derives revenues from the distribution and/or retail sale of tobacco products.	≥ 5%	≥ 25%
Small Arms	<b>Civilian Customers (Assault Weapons):</b> The company manufactures and sells assault weapons to civilian customers.	> 0%	≥ 25%
	<b>Civilian Customers (NonAssault Weapons):</b> The company manufactures and sells small arms (non-assault weapons) to civilian customers.	> 0%	≥ 25%
	<b>Key Components:</b> The company manufactures and sells key components of small arms.	> 0%	≥ 25%

	<b>Military / Law Enforcement Customers:</b> The company manufactures and sells small arms to military/law enforcement.	> 0%	≥ 25%
	<b>Retail/Distribution (Assault Weapons):</b> The company is involved in the retail and/or distribution of assault weapons.	≥ 5%	NA
	<b>Retail/Distribution (NonAssault Weapons):</b> The company is involved in the retail and/or distribution of small arms (non-assault weapons)	≥ 5%	NA
Military Contracting	<b>Weapons:</b> The company manufactures military weapon systems and/or integral, tailor-made components or these weapons.	≥ 10%	NA
	<b>Weapons-Related Products and Services:</b> The company provides tailor-made products and/or services that support military weapons.	≥ 10%	NA
Thermal Coal	<b>Extraction:</b> The company extracts thermal coal	≥ 5%	NA
	<b>Power Generation:</b> The company generates electricity from thermal coal	≥ 5%	NA
Oil Sands	<b>Extraction:</b> The company extracts oil sands.	≥ 5%	NA
Shale Energy	<b>Extraction:</b> The company is involved in shale energy exploration and/or production	≥ 5%	NA
Oil & Gas	<b>Production:</b> The company is involved in oil and gas	≥ 10%	NA
	exploration, production, refining, transportation and/or storage.		
	<b>Power Generation:</b> The company generates electricity from oil and/or gas.	≥ 50%	NA

For more information, please refer to the [Sustainalytics' Product Involvement Research Methodology](#).

**Green Bonds**

The index leverages external, independent data sources for determining “Green” bonds. The data is provided by Climate Bonds Initiative (CBI), Environmental Finance (EF) and S&P Market Intelligence Reference Data and contains self-labelled as well as other eligible Green bond issuances. The index considers bonds broadly based on the International Capital Market Association’s (ICMA) voluntary Green Bond Principles (GBP). The methodology uses dual sourcing, supplemented with (in-house) professional expertise, to determine whether multiple sources classify a given bond as “Green” based on the use of proceeds. This ensures each bond is “Green” labelled based upon at least 2 independent sources. All bonds need to have a clear commitment for the use of proceeds. Data is further verified based on publicly available prospectus and other relevant documents. Bonds for which the classification is pending or unlabeled are not considered “Green”.

ICMA is a regulatory authority and trade association that serves European capital markets to promote greater transparency, efficiency and harmony.

### **Climate Bonds Initiative (CBI)**

Climate Bonds Initiative is an international organization working to mobilize global capital for climate action. CBI achieves this through the development of the [Climate Bonds Standard](#) and [Certification Scheme](#), Policy Engagement and Market Intelligence work. CBI provide weekly and monthly files to classify green bonds based on use of proceeds.

For more information on CBI, please refer to <https://www.climatebonds.net>.

### **Environmental Finance (EF)**

Environmental Finance has a reputation in delivering market-leading content on the risks and opportunities present to the financial community of the move to a lower-carbon environment.

For more information on EF, please refer to <https://efdata.org/>.

### **S&P Market Intelligence Reference Data**

Provides green bonds classification.

S&P Market Intelligence Reference Data offers detailed reference data for bonds which enables a comprehensive view of assets from issuance to maturity. Self-labelled bonds green are captured based on information provided in the bond prospectus.

# Bond classification

All bonds are classified based on the principal activities of the issuer and the main sources of the cash flows used to pay coupons and redemptions. In addition, a bond's specific collateral type or legal provisions are evaluated. Hence, it is possible that bonds issued from different subsidiaries of the same issuer carry different classifications.

The issuer classification is reviewed regularly based on updated information received by S&P DJI, and status changes are included in the indices at the next rebalancing if necessary.

Where the sector classification of a specific entity is not clear due to the diversified business of the entity, a decision is made at S&P DJI's discretion. S&P DJI assigns the classification according to its evaluation of the business risk presented in the security prospectus and annual reports, if available. S&P DJI also compares the classification to peers in the potential sectors. Membership lists including classification are published on the FTP server and in the *Indices* section of the webpage for registered users.

## Corporates

Corporate bonds are issued by public or private corporations. Corporate bonds are further classified into Financials and Non-Financials bonds, and then into multiple-level economic sectors according to the issuer's business scope. The category insurance-wrapped is added under Financials for corporate bonds whose timely coupon and/or principal payments are guaranteed by a special mono-line insurer such as AMBAC or MBIA. The sector overview is as follows.

### iBoxx Corporates Sector Overview

	Economic Sector	Market Sector	Market Sub-Sector	
Financials	Core Financials	Banks	Banks	
		Insurance	Life Insurance	
	Nonlife Insurance			
	Financial Services	Financial Services	Equity Investment Instruments	
			General Financial	
			Nonequity Investment Instruments	
	Real Estate	Insurance-wrapped	*	
			Real Estate	Real Estate Investment & Services
				Real Estate Investment Trusts

	Economic Sector	Market Sector	Market Sub-Sector	
Non-Financials	Basic Materials	Basic Resources	Forestry & Paper	
			Industrial Metals	
			Mining	
	Consumer Goods	Chemicals	Automobiles & Parts	Chemicals
				Automobiles & Parts
		Food & Beverage	Personal & Household Goods	Beverages
				Food Producers
				Household Goods
		Consumer Services	Retail	Leisure Goods
				Personal Goods
	Tobacco			
	Travel & Leisure			
	Energy	Oil & Gas	Academic & Educational Services	
			Media	
	Health Care	Health Care	Food & Drug Retailers	
			General Retailers	
	Industrials	Renewable Energy	Travel & Leisure	
			Oil Equipment / Services & Distribution	
		Construction & Materials	Industrial Goods & Services	Oil & Gas Producers
				Renewable Energy
		Technology	Technology	Health Care Equipment & Services
				Pharmaceuticals & Biotechnology
	Construction & Materials			
	Aerospace & Defense			
Electronic & Electrical Equipment				
Telecommunications	Telecommunications	General Industrials		
		Industrial Engineering		
Utilities	Utilities	Industrial Transportation		
		Support Services		
			Software & IT Services	
			Technology Hardware & Equipment	
			Integrated Telecommunications	
			Wireless Telecommunications	
			Electricity	
			Gas / Water & Multiutilities	

## Overview of iBoxx Corporates Sectors

	Economic Sector	Market Sector	Market Sub-Sector
Financials	Core Financials	Banks	Banks
		Insurance	Life Insurance
	Nonlife Insurance		
	Financial Services	Financial Services	Equity Investment Instruments
			General Financial
			Nonequity Investment Instruments
	Real Estate	Real Estate	*
			Real Estate Investment & Services
			Real Estate Investment Trusts

	Economic Sector	Market Sector	Market Sub-Sector		
Non-Financials	Basic Materials	Basic Resources	Forestry & Paper		
			Industrial Metals		
			Mining		
	Consumer Goods	Chemicals	Automobiles & Parts	Chemicals	
				Automobiles & Parts	
		Food & Beverage	Personal & Household Goods	Beverages	
				Food Producers	
				Household Goods	
		Consumer Services	Retail	Travel & Leisure	Leisure Goods
					Personal Goods
	Tobacco				
	Academic & Educational Services				
	Energy	Oil & Gas	Renewable Energy	Media	
				Oil Equipment / Services & Distribution	
	Health Care	Health Care	Health Care	Oil & Gas Producers	
				Renewable Energy	
	Industrials	Construction & Materials	Industrial Goods & Services	Health Care Equipment & Services	
				Pharmaceuticals & Biotechnology	
				Construction & Materials	
				Aerospace & Defense	
				Electronic & Electrical Equipment	
				General Industrials	
				Industrial Engineering	
	Industrial Transportation				
	Technology	Technology	Technology	Support Services	
				Software & IT Services	
	Telecommunications	Telecommunications	Telecommunications	Technology Hardware & Equipment	
Integrated Telecommunications					
Utilities	Utilities	Utilities	Wireless Telecommunications		
			Electricity		
			Gas / Water & Multiutilities		

### Additional Classification

Corporate debt is further classified into senior and subordinated debt. Bank senior debt structure additionally differentiates between Bail-in and Preferred bonds. The Bail-in classification captures all senior notes which are subject to write-down or conversion into a subordinated instrument on the occurrence of a resolution event, as well as senior bank debt issued by bank holding companies.

Hybrid capital issued by banking and insurance institutions is further detailed into the respective tiers of subordination.

The market information on the tier of subordination for insurance capital is often less standardized and clear than the equivalent issues by banks. In these cases, the classification is based on the maturity, coupon payment and deferral provisions of the bond from the offering circulars of the bonds. The table below displays the seniority classification of debt issued by both financial and non-financial sectors.

### Seniority Levels Overview

Market Sector	Seniority Level 1	Seniority Level 2	Seniority Level 3	
Bank	SEN	Preferred	*	
		Bail-in	*	
	SUB	T2 (post-Jan '13 issuances)	T2 callable	
			T2 non-callable	
		T2 (pre-Jan '13 issuances)	LT2 callable	
			LT2 non-callable	
T1	UT2			
	T1 step			
Insurance	SEN	*	*	
		T3	*	
	SUB	T2 dated	T2 dated callable	
			T2 dated non-callable	
T2 perpetual	*			
T1	*			
Financial Services	SEN	*	*	
		T3	*	
	SUB	T2	T2 callable	
			T2 non-callable	
		T2 dated	T2 dated callable	
			T2 dated non-callable	
		T2 perpetual	*	
		T1	*	
			T1 step	
		T1 non-step		
Other	Hybrid**			
	Non-hybrid			
Other sectors	SEN	*	*	
	SUB	Other	Hybrid**	
Non-hybrid				

\*\* Bonds must satisfy the following criteria to be considered hybrids:

- Subordinated
- Deferrable coupons
- First non-call period  $\geq$  5 years
- Either perpetual or 'long-dated', where 'long-dated' is defined as  $>$  25 years of the time to maturity at issuance

# Index calculation

## Static data

Information used in the index calculation is sourced from offering circulars and checked against standard data providers.

## Bond prices

For more details, please refer to the *iBoxx Pricing Methodology* document, available in the *Methodology* section of the webpage at [www.spglobal.com/spdji](http://www.spglobal.com/spdji).

## Rebalancing process

The iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices are rebalanced monthly on the last business day of the month after the close of business. Changes to outstanding amounts are only taken into account if they are publicly known three business days before the end of the month. Changes in ratings are only taken into account if they are publicly known two business days before the end of the month. New bonds issued are taken into account if they are publicly known to settle until the last calendar day of the month, inclusive, and if their rating has become known at least three trading days before the end of the month.

Four business days before the end of each month, a preliminary membership list is published on the FTP server and in the *Indices* section at [www.spglobal.com/spdji](http://www.spglobal.com/spdji) for registered users.

Three business days before the end of each month, a membership list with final amount outstanding for each bond is published.

Two business days before the end of each month, the rating information for the constituents is updated and the list is adjusted for all rating changes which are known to have taken place two trading days before the end of the month. Bonds which are known to have been upgraded to investment grade two trading days before the end of the month are not included in the membership, but bonds which are known to have been downgraded to sub-investment grade two trading days before the end of the month do get excluded from the membership. However, if any bonds which are part of the broader EUR universe become eligible two business days prior to rebalancing because of rating or amount changes, they will be included in the Index.

On the last business day of each month, S&P DJI publishes the final membership with closing prices for the bonds, and various bonds analytics based on the index prices of the bonds.

## Index Construction

At each rebalancing, the eligible constituents are selected from the underlying parent index. Next, an optimization process is applied to the eligible constituents to efficiently track the parent index while minimizing the turnover. This section will cover the objective function and constraints which are used in the optimization process.

## Objective Function

The objective function is designed to efficiently track the parent index at the sector level and minimize turnover.

$$\text{Minimize} \left( \frac{1}{n} \sum_i \left[ \frac{(\text{OptimizedWeight}_i - \text{PriorWeight}_i)^2}{\text{PriorWeight}_i} \right] + \frac{1}{s} \sum_j \left[ \frac{(\text{OptimizedSectorWeight}_j - \text{ParentSectorWeight}_j)^2}{\text{ParentSectorWeight}_j} \right] \right)$$

where:

- number of bonds
- number of sectors
- targets the parent bond weight at index launch and thereafter the prior climate bondweight in each subsequent rebalance. Weights associated with bonds that drop out are reallocated to new bonds on a pro-rata basis.
- 
- are solved via optimization

### Optimization Constraints

The optimization incorporates transition risk, climate opportunities, return, risk, and tracking constraints.

### Transition Risk Constraints

Transition risk constraints meet or exceed the EU BMR regulatory requirements and reduce absolute emissions over time. Below constraints help to meet the objectives of increasing exposure to companies with lower environment, social, and governance risk scores and reducing exposure to companies which possess high fossil fuel reserves.

- **Absolute Carbon Emissions (ACE\*) Target based on S&P Global Trucost data:** At least 50% less ACE than the underlying parent index, with a 2.5% buffer
- **7% Decarbonization Trajectory ACE\* Target based on S&P Global Trucost data:** At least 7% reduction in ACE per year, compared to the index history start date of 31 January 2019, with a 2.5% buffer. If there are significant changes in the calculation methodology for GHG emissions, the base date re-sets.
- **Weighted-average Sustainalytics ESG Risk Score (waE):** At least 10% lower (better) weightedaverage Sustainalytics ESG Risk Score compared to the underlying parent index
- **Fossil Fuel Reserves Intensity (FFR\*) based on S&P Global Trucost data:** At most 20% FRR compared to the underlying parent index

\* Further defined in Constraint-Related Definitions below.

**Table 3: Transition Risk Constraints**

Constraint*	iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices	Data Source
Absolute Carbon Emission (ACE) Target	$\leq$ underlying ACE $\times$ 50% $\times$ Buffer**	S&P Global Trucost
7% Decarbonization Trajectory ACE Target	$\leq$ AnchorACE*** $\times$ x Buffer** where: t = number of months since January 31, 2019****	S&P Global Trucost
Weighted-average Sustainalytics ESG Risk Score (waE)	$\leq$ 90% $\times$ Benchmark ESG Risk Score*****	Sustainalytics
Fossil Fuel Reserves Intensity (FFR)	$\leq$ 20% $\times$ FFR of underlying index	S&P Global Trucost

\* Constraints are defined in Constraint-Related Definitions below.  
\*\* Where Buffer = 97.5% to represent a 2.5% margin to allow for drift between targeted and realized ACE.  
\*\*\* AnchorACE corresponds to the index ACE level as of the January 31, 2019 which is the history start date.  
\*\*\*\* January 31, 2019 corresponds to the start date of the history

Constraint*	iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices	Data Source
***** Companies missing a Sustainalytics ESG Risk Score are excluded from the Benchmark ESG Risk score calculation.		

### Climate Opportunities Constraints

The iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices uses climate opportunities constraints to increase exposure to green companies which issue green bonds through the concept of use of proceeds. Refer to the Green Bonds ESG Eligibility Criteria section for additional details.

### Climate Opportunities Constraints

Constraint	iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices	Data Source
Green Bond Improvement	$\geq 125\%$ x Green Bond Weight of underlying index	CBI / EF / S&P

### Risk, Exposure and Yield-to-Worst Constraints

These additional constraints are incorporated to manage concentration risk, tracking to the parent index, and yield-to-worst improvement against the parent index.

**Table 5: Risk, Exposure and Yield-to-Worst Constraints**

Constraint	iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Subindices
Yield-to-worst (YTW) Improvement	$\geq$ Parent YTW
OAD Absolute Deviation Cap	+/- 0.25yrs
DTS Relative Deviation Cap	+/- 5%
Maturity Bucket Weight Deviation Cap	$\leq 2\%$
Rating Bucket Weight Deviation Cap	$\leq 2\%$
Constraint	iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Subindices
Max Issuer Cap	$\leq 5\%$
Max Issue Deviation Cap	$\leq 10$ x Screened Parent Weight
Min Issue Deviation Cap	$\geq 0.05$ x Screened Parent Weight

### Constraint Relaxation Hierarchy

In the case that the optimization does not solve for a certain period each constraint in the hierarchy will be partially relaxed in the order listed below and repeated, where required, until a solution is found.

- Green Bond Improvement
- Fossil Fuel Reserves Constraint
- Weighted-average Sustainalytics ESG Risk Score
- OAD absolute deviation constraint
- DTS relative deviation constraint
- Max Issuer Constraint
- Min/Max Issue Constraint

- Maturity Deviation Constraint
- Ratings Deviation Constraint

The following constraints are considered hard constraints and will not be relaxed:

- Absolute Carbon Emission (ACE) Target
- 7% Decarbonization Trajectory ACE Target

### Constraint-Related Definitions

#### Absolute Carbon Emissions (ACE)

where:

- $w_i$  = weight of company i in index
- Carbon Footprint<sub>i</sub> =  $\frac{GHG1_i + GHG2_i + GHG3_i}{Debt_i}$
- $GHG1_i$  = Scope 1 GHG emissions in tCO<sub>2</sub>e for company i
- $GHG2_i$  = Scope 2 GHG emissions in tCO<sub>2</sub>e for company i
- $GHG3_i$  = Scope 3 (upstream and downstream) GHG emissions in tCO<sub>2</sub>e for company i
- $Debt_i$  = market value of debt outstanding in the parent index of company i
- $Debt^{Parent}$  = total market value of debt outstanding in the parent index

#### Fossil Fuel Reserves (FFR)

$$\sum w_i \times \frac{\text{Fossil Fuel Reserves}_i}{Debt_i}$$

$$\sum w_i \times \frac{\text{FossilFuelReserves}_i}{Debt_i}$$

where:

- $w_i$  = weight of company i in index
- $\text{Fossil Fuel Reserves}_i$  = the embedded emissions (tCO<sub>2</sub>) within the fossil fuel reserves owned by
- $Debt_i$  = market value of debt outstanding in the parent index of company i

This metric is calculated using the fossil fuel reserves dataset provided by Trucost.

The ACE target is calculated using the same currency for all underlying assets and recalculated on a yearly basis

### Index data

The calculation of the subindices is based on the benchmark prices. If no price can be established for a particular security, the indices continue to be calculated based on the last available price. This might be the case in periods of market stress, or disruption as well as in illiquid or fragmented markets. If the required inputs become impossible to obtain, S&P DJI may consult market participants prior to the next rebalancing date. Decisions are made publicly available on a timely basis and S&P DJI may refer back to previous cases.

The indices are calculated every Monday to Friday. In addition, the indices are calculated with the previous trading day's closing prices on the last calendar day of each month if that day is not a trading day as well as on common bank holidays as published in the iBoxx index calculation calendar available at [www.spglobal.com/spdji](http://www.spglobal.com/spdji). Index data is also available from the main information vendors. Bond and index analytical values are calculated every day using that day's closing prices, or the previous trading day's closing prices on the last calendar day of each month if that day falls on a weekend or a common bank holiday as published in the iBoxx index calculation calendar. Closing index values and key statistics are published at the end of each calculation day in the Indices section at [www.spglobal.com/spdji](http://www.spglobal.com/spdji) for registered users.

The rebalancing takes place after close of market on the last trading day of a rebalancing month

### **Index Calculus**

For specific index formulas please refer to the *iBoxx Bond Index Calculus Methodology* available at [www.spglobal.com/spdji](http://www.spglobal.com/spdji).

### **Index and Analytics Weight**

The iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices is weighted through an optimization process to ensure the EU BMR regulations and constraints are met. The amount outstanding of a bond is adjusted to reflect optimized weights.

All calculations are based on the adjusted amount outstanding.

### **Treatment of the special intra-month events**

Data for the application of corporate actions in the indices may not be fully or timely available at all times, e.g. the final call prices for make-whole calls or the actual pay-in-kind percentage for PIK-payment options. In such cases, S&P DJI will estimate the approximate value based on the available data at the time of calculation.

### **Funged bonds**

Bonds may be issued in several tranches. The different tranches are initially legally separate and therefore trade independently for a certain period. On and after the funge date, the tranches will be combined into one bond, i.e. the parent tranche will contain the original security, as well as the additional notional(s) from the new tranche(s). After the funge date, the prices for both the securities are the same, because they constitute one uniform bond. This is reflected in the indices as follows:

#### **Parent and new tranche are both index constituents**

- After the funge date, the price from the parent tranche is used for the funged tranche; no price for the funged bond
- Funged tranche leaves the index at the next rebalancing and parent amount outstanding increases accordingly

#### **Parent is an index constituent, but the new tranche is not**

- No special intra-month treatment necessary
- Parent amount outstanding increases at the next rebalancing

#### **Parent is not an index constituent but the new tranche is**

- No special intra-month treatment necessary
- Funged tranche leaves the index; parent tranche enters the index at the next rebalancing

## Full redemptions: exercised calls, puts and buybacks

If a bond is fully redeemed intra-month, the bond effectively ceases to exist. In all calculations, the redeemed bond is treated as cash based on the last price, the call price or repurchase price, as applicable. The redemption factor, redemption and the redemption price are used to treat these events in the index and analytics calculation. In addition, the clean price of the bond is set to the redemption price, and the interest accrued until the redemption date is treated as an irregular coupon payment.

## Bonds trading flat of accrued

If a bond is identified as trading flat of accrued, the accrued interest of the bond is set to 0 in the total return index calculation and is excluded from the calculation of all bond and index analytical values.

Bonds will be considered trading flat of accrued in any of the following situations:

- a bond has been assigned a default rating and/or
- issuer has announced a failure to pay a coupon and/or
- issuer has announced an intention not to make a payment on an upcoming coupon (grace period).

## Maturity extension

### Maturity extension for perpetual bonds without a reset date

Maturity	Coupon/call structure	Workout date at issuance	Updated Workout date if not called
Perpetual	Fixed/ Callable	Assume first call date as workout date	Extend workout date until the assumed next call date - 5 years from first call date*.

\*Assumes the terms allow for a redemption at the new assumed maturity date.

### Maturity Extension for Perpetuals & Dated Fixed-to-Fixed Bonds With a Reset Date

Maturity	Coupon/Call structure	Workout Date at issuance	Updated Workout date if not called
Perpetual	Reset*/Callable	Assume first call date as workout date	Extend workout date until the end of the next reset date*
Dated	Reset/Callable	Assume reset date as workout date	Extend workout date until the end of the next reset date or final maturity date*

\*Assumes the bond terms allow for a redemption at the new assumed maturity date

## Multi-coupon bonds

Some bonds have pre-defined coupon changes that lead to a change in the annual coupon over the life of the bond. In all instances, the coupon change must be a fixed amount on top of a fixed coupon, i.e. floating coupon bonds are not eligible for the indices. The two main categories of bonds are step-up bonds and event-driven bonds.

- **Step-up bonds:** These are bonds with a pre-defined coupon schedule that cannot change during the life of the bond. The coupon schedule is used in all bond calculations.
- **Event-driven bonds:** These are bonds whose coupon may change upon occurrence (or nonoccurrence) of pre-specified events, such as rating changes, e.g. rating-driven bonds, failure

to register (register-driven bonds), or failure to complete a merger (merger-driven bonds). In the calculation of the indices and the analytics, the coupon schedule as of the calculation date is used. That is to say, any events occurring after the calculation date are ignored in the determination of the applicable coupon schedule. *Example of an event-driven bond:* A bond's rating changes on 31 December 2003 from A- to BBB+ and the coupon steps up from 6% to 6.25% from 1 March 2004 onward. The coupon dates are 1 October and 1 April each year. The correct coupon schedule for the bond and index calculations is date dependent. The index calculation on 20 December 2003 uses the 6% coupon for the whole life of the bond, while the calculation on 31 January 2004 uses a 6% coupon for the current coupon period to 29 February 2004, and a 6.25% coupon for all later interest payments. The index calculation on 20 March uses a 6% coupon until 29 February, a 6.25% coupon for the remainder of the current coupon period and a 6.25% coupon for all future coupon payments. The index calculation after 1 April uses a 6.25% coupon.

### **Ex-dividend conventions**

Some markets have ex-dividend conventions. Ex-dividend means that the next coupon is detached from the bond several days in advance of the coupon payment date. The date on which the next coupon is detached is the ex-dividend date and the period between the ex-dividend date and the coupon payment date is the ex-dividend period. If a bond is in the ex-dividend period, the next coupon payment will not be paid to a buyer of this bond, but will be paid to the original bond holder.

The indices and analytics calculations take ex-dividend conventions into account. During the ex-dividend period, the accrued interest of the bond is negative, while the next coupon payment is held separate in the variable coupon adjustment. If the bond enters the index during the ex-dividend period, then the next coupon payment and the coupon adjustment will not accrue to the index. However, if the bond was already in the index, the next coupon payment needs to be included in the total return calculations. This is controlled via the ex-dividend indicator which is 0 if the bond enters the index during the current exdividend period and 1 if not. The same treatment is also applied to all analytics calculation, i.e. the first cash flow is excluded from the calculations if the bond enters during the current ex-dividend period.

### **Index history**

The Index history starts on 31 January 2019. The indices have a base value of 100 on that date.

### **Settlement conventions**

All iBoxx indices calculate using the assumption of T+0 settlement days.

### **Calendar**

S&P DJI publishes an index calculation calendar available on [www.spglobal.com/spdji](http://www.spglobal.com/spdji) under *iBoxx Indices Calendars*. This calendar provides an overview of the index calculation holidays of the iBoxx bond index families each year.

### **Publication of the Index**

The iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices are calculated as end-of-day indices and distributed once daily after market close.

Bond and index analytical values are calculated end of day Monday to Friday using that day's closing prices. In addition, bond and index analytical values are calculated using the previous trading day's closing prices on the last calendar day of each month if that day is not a regular trading day as well as on common bank holidays as published in the iBoxx index calculation calendar. This index calculation calendar is available at [www.spglobal.com/spdji](http://www.spglobal.com/spdji) under *iBoxx Indices Calendars*. Index data is also available from the main information vendors.

Closing index values and key statistics are published at the end of each calculation day in the *Indices* section of the website for registered users.

### Data publication and access

The table below summarizes the publication of iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Sub-indices in the Indices section of the S&P DJI website at [www.spglobal.com/spdji](http://www.spglobal.com/spdji) for registered users and on the FTP server.

### Data publication and access

Frequency	File Type	Access
Daily	Underlying file – Bond level	SFTP Server
	Indices files – Index level	SFTP Server / website/ Bloomberg for index levels only
Daily from the 6th calendar day of the month (or the next index publication day if the 6th calendar day falls on a nonbusiness day)	Forwards	SFTP Server
Monthly	End of month components	SFTP Server / website

The index identifiers for the publication channels are:

Index Name	Verion	ISIN	SEDOL	BBG Ticker
iBoxx EUR Financials Senior A 1-5 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95YN93	BT95YN9	IBXXNPB1
	TRI	GB00BT95YP18	BT95YP1	IBXXNPB2
iBoxx EUR Financials Senior A 5-10 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95YQ25	BT95YQ2	IBXXNPB3
	TRI	GB00BT95YR32	BT95YR3	IBXXNPB4
iBoxx EUR Financials Senior AA 1-5 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95YS49	BT95YS4	IBXXNPB5
	TRI	GB00BT95YT55	BT95YT5	IBXXNPB6
iBoxx EUR Financials Senior AA 5-10 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95YV77	BT95YV7	IBXXNPB7
	TRI	GB00BT95YW84	BT95YW8	IBXXNPB8
iBoxx EUR Financials Senior BBB 1-5 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95YX91	BT95YX9	IBXXNPL1
	TRI	GB00BT95YY09	BT95YY0	IBXXNPL2
iBoxx EUR Financials Senior BBB 5-10 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95YZ16	BT95YZ1	IBXXNPL3

Index Name	Verion	ISIN	SEDOL	BBG Ticker
	TRI	GB00BT95Z039	BT95Z03	IBXXNPL4
iBoxx EUR Non-Financials Senior A 1-5 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95Z146	BT95Z14	IBXXNPL5
	TRI	GB00BT95Z252	BT95Z25	IBXXNPL6
iBoxx EUR Non-Financials Senior A 5-10 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95Z369	BT95Z36	IBXXNPL7
	TRI	GB00BT95Z476	BT95Z47	IBXXNPL8
iBoxx EUR Non-Financials Senior AA 1-5 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95Z583	BT95Z58	IBXXNPZ1
	TRI	GB00BT95Z690	BT95Z69	IBXXNPZ2
iBoxx EUR Non-Financials Senior AA 5-10 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95Z708	BT95Z70	IBXXNPZ3
	TRI	GB00BT95Z815	BT95Z81	IBXXNPZ4
iBoxx EUR Non-Financials Senior BBB 1-5 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95Z922	BT95Z92	IBXXNPZ5
	TRI	GB00BT95ZB47	BT95ZB4	IBXXNPZ6
iBoxx EUR Non-Financials Senior BBB 5-10 Net Zero 2050 Paris-Aligned ESG Index	CPI	GB00BT95ZC53	BT95ZC5	IBXXNPZ7
	TRI	GB00BT95ZD60	BT95ZD6	IBXXNPZ8

## Annual index review

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

# Footnotes

## Footnotes

1. Pursuant to Articles 19(a)(2) and 19(b)(1) of Regulation (EU) 2019/2089, Commission Delegated Regulation (EU) 2020/1818 lays down the minimum standards for EU CTBs and EU PABs <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32020R1818>.
2. UNFCCC. (2015). The Paris Agreement: <https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement>.
3. Financial Stability Board's Task Force on Climate-related Financial Disclosures' (TCFD). (2017). Final Report: Recommendations of the Task Force on Climate-related Financial Disclosures, available at <https://www.fsb-tcfd.org/wpcontent/uploads/2017/06/FINAL-2017-TCFD-Report-11052018.pdf>
4. A climate scenario of 1.5°C above preindustrial levels has been deemed important by the IPCC: Masson-Delmotte, V., Zhai, P., Pörtner, H. O., Roberts, D., Skea, J., Shukla, P. R. Waterfield, T. (2018). Global warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C. IPCC, available at <https://www.ipcc.ch/sr15/>.

# Index Governance

## Index Committee

An S&P Dow Jones Indices Index Committee maintains the indices. All committee members are full-time professionals at S&P Dow Jones Indices. Meetings are held regularly. The Index Committee oversees the management of the indices, including determinations of intra-rebalancing changes, maintenance and inclusion policies, and other matters affecting the maintenance and calculation of the indices.

In fulfilling its responsibilities, the Index Committee has full and complete discretion to (i) amend, apply, or exempt the application of index rules and policies as circumstances may require and (ii) add, remove, or by-pass any bond in determining the composition of an index.

The Index Committee may rely on any information or documentation submitted to it or gathered by it that the Index Committee believes to be accurate. The Index Committee reserves the right to reinterpret publicly available information and to make changes to the indices based on a new interpretation of that information at its sole discretion. All Index Committee discussions are confidential.

The Index Committee is separate from and independent of other analytical groups at S&P Global. In particular, the Index Committee has no access to or influence on decisions by S&P Global Ratings analysts.

S&P Dow Jones Indices' Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

*For more information on index governance policies, please refer [here](#).*

# Further Information

## **Client Support**

For client support please contact [index\\_services@spglobal.com](mailto:index_services@spglobal.com).

## **Formal Complaints**

Formal complaints should be emailed to [spdji\\_compliance@spglobal.com](mailto:spdji_compliance@spglobal.com).

Please note: [spdji\\_compliance@spglobal.com](mailto:spdji_compliance@spglobal.com) should only be used to log formal complaints.

## **General Index Inquiries**

For general index inquiries, please contact [index\\_services@spglobal.com](mailto:index_services@spglobal.com).

# Methodology Changes

<p><b>31 March 2026</b></p>	<p><b>Annual Index Review 2025</b></p> <ul style="list-style-type: none"> <li>• Introduction of 18-month minimum initial time to maturity</li> <li>• Introduction of subordinated debt classification tiers for Financial Services</li> <li>• Removing AT1 and RT1 bonds with PONV triggers from eligible bond types</li> <li>• Inclusion of bonds with European call options</li> </ul>
<p><b>29 November 2024</b></p>	<p>Sub-indices Launch</p>

# Summary of key ESG factors

EXPLANATION OF HOW ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY		
The information contained in this Appendix is intended to meet the requirements of the European Union Commission Delegated Regulation (EU) 2020/1817 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the minimum content of the explanation of how environmental, social and governance factors are reflected in the benchmark methodology and the retained EU law in the UK [The Benchmarks (amendment and Transitional Provision) (EU Exit) Regulations 2019].		
1.	<b>Name of the Benchmark Administrator.</b>	S&P Dow Jones Limited
2.	<b>Type of benchmark or family of benchmarks.*</b> * The “type of benchmark” refers to the type of ‘underlying asset’, as selected from the list provided in Annex II to in European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.	Fixed Income
3.	<b>Name of the benchmark or family of benchmarks</b>	<a href="#">iBoxx EUR Corporates Net Zero 2050 Paris-Aligned ESG Index</a>
4.	<b>Does the benchmark methodology for the benchmark or family of benchmarks take into account ESG factors?</b>	Yes
5.	<b>If the response to (4) is “Yes,” the indices stated here take into account ESG factors</b>	For a list of the benchmarks within this family that take into account ESG factors, please refer to the <a href="#">S&amp;P Dow Jones Indices Limited Benchmark Register</a> .

Where the response to (4) is ‘Yes’, the section below lists those ESG factors that are taken into account by the ESG indices governed by the methodology, including those ESG factors listed in Annex II to Delegated Regulation (EU) 2020/1816 ‘ESG factors’ are defined in Annex II of European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.			
6.	ESG Factors	S&P DJI ESG Factor	Comments
6.a List of environmental factors considered	N/A	Fossil Fuel Operations and Power Generation: <i>Coal Exploration or Processing</i>	Exclusion. For more information, please refer to the ‘ <i>Bond Selection Rules</i> ’ section, sub-section 2.5.3, of the methodology.
	N/A	Fossil Fuel Operations and Power Generation: <i>Oil</i>	Exclusion. For more information, please refer to

6.	<p>Where the response to (4) is 'Yes', the section below lists those ESG factors that are taken into account by the ESG indices governed by the methodology, including those ESG factors listed in Annex II to Delegated Regulation (EU) 2020/1816 'ESG factors' are defined in Annex II of European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.</p>		
		<i>Exploration or Processing</i>	the 'Bond Selection Rules' section, sub-section 2.5.3, of the methodology.

	N/A	Fossil Fuel Operations and Power Generation: <i>Natural Gas Exploration or Processing</i>	Exclusion. For more information, please refer to the 'Bond Selection Rules' section, sub-section 2.5.3, of the methodology.
	N/A	Fossil Fuel Operations and Power Generation: <i>Power Generation</i>	Exclusion. For more information, please refer to the 'Bond Selection Rules' section, sub-section 2.5.3, of the methodology.
	N/A	Sustainalytics Product Involvement Screening: <i>Thermal Coal</i>	Exclusion. For more information, please refer to the 'Bond Selection Rules' section, sub-section 2.5.7, of the methodology.
	N/A	Sustainalytics Product Involvement Screening: <i>Oil Sands</i>	Exclusion. For more information, please refer to the 'Bond Selection Rules' section, sub-section 2.5.7, of the methodology.
	N/A	Sustainalytics Product Involvement Screening: <i>Shale Energy</i>	Exclusion. For more information, please refer to the 'Bond Selection Rules' section, sub-section 2.5.7, of the methodology.
	N/A	Sustainalytics Product Involvement Screening: <i>Arctic Oil &amp; Gas Exploration</i>	Exclusion. For more information, please refer to the 'Bond Selection Rules' section, sub-section 2.5.7, of the methodology.
	GHG intensity of the benchmark	Absolute Carbon Emissions (ACE*) Target; 7% Decarbonization Trajectory ACE* Target	Weighting. For more information, please refer to the 'Index Calculation' section, sub-section 4.4.2.1, of the methodology.
	N/A	Fossil Fuel Reserves (FFR) Intensity Constraint	Weighting. For more information, please refer to the 'Index Calculation' section, sub-section 4.4.2.1, of the methodology.
	Percentage of green bonds in the benchmark portfolio	Green Bond Improvement	Weighting. For more information, please refer to the 'Index Calculation' section, subsections 4.4.2.2, of the

			methodology. The S&P DJI Fixed Income EU Low Carbon Benchmark Regulation Disclosure Report can be accessed <a href="#">here</a> .
<b>6.b List of social factors considered</b>	Number of benchmark constituents subject to social violations (absolute number and relative divided by all benchmark constituents), as referred to in international treaties and conventions, United Nations principles or, where applicable, national law.	Sustainalytics Global Standards Screening: <i>'Non-compliant'</i>	Exclusion. For more information, please refer to the <i>'Bond Selection Rules'</i> section, sub-section 2.5.6, of the methodology.

	International treaties and conventions, United Nations principles or, where applicable, national law used in order to determine what constitutes a 'controversial weapon'.	Sustainalytics Product Involvement Screening: <i>Controversial Weapons</i>	Exclusion. For more information, please refer to the <i>'Bond Selection Rules'</i> section, sub-section 2.5.7, of the methodology.
	Weighted average percentage of benchmark constituents in the controversial weapons sector.	Sustainalytics Product Involvement Screening: <i>Controversial Weapons</i>	Exclusion. For more information, please refer to the <i>'Bond Selection Rules'</i> section, sub-section 2.5.7, of the methodology.
	Weighted average percentage of benchmark constituents in the tobacco sector.	Sustainalytics Product Involvement Screening: <i>Tobacco</i>	Exclusion. For more information, please refer to the <i>'Bond Selection Rules'</i> section, sub-section 2.5.7, of the methodology.
	N/A	Sustainalytics Product Involvement Screening: <i>Small Arms</i>	Exclusion. For more information, please refer to the <i>'Bond Selection Rules'</i> section, sub-section 2.5.7, of the methodology.
	N/A	Sustainalytics Product Involvement Screening: <i>Military Contracting</i>	Exclusion. For more information, please refer to the <i>'Bond Selection Rules'</i> section, sub-section 2.5.7, of the methodology. The S&P DJI Fixed Income EU Low Carbon Benchmark Regulation Disclosure Report can be accessed <a href="#">here</a> .
<b>6.c List of governance factors considered</b>	N/A	Sustainalytics Controversy Score	Exclusion. For more information, please refer to the <i>'Bond Selection Rules'</i> section, sub-section 2.5.5, of the methodology. The S&P DJI Fixed Income EU Low Carbon Benchmark Regulation Disclosure Report can be accessed <a href="#">here</a> .
<b>6.d Combined ESG Factors</b>	Weighted average ESG rating of the benchmark (voluntary)	Weighted-average Sustainalytics ESG Risk Score (waE)	Weighting. For more information, please refer to the <i>'Index Calculation'</i> section, sub-section 4.4.2.1, of the methodology.
<b>7.</b>	<b>Data and standards used</b>		
<b>7.a</b>	<b>Data sources, verification and quality of data</b>	The datasets are defined as either:	

		<ul style="list-style-type: none"> <li>• <b>Reported:</b> All data in the dataset are provided as disclosed by companies, or as stated in the public domain.</li> <li>• <b>Modeled:</b> All data are derived using a proprietary modelling process with only proxies used in the creation of the dataset.</li> <li>• <b>Reported and Modeled:</b> The dataset is either a mix of reported and Modeled data or is derived by the vendor using reported data/information in a proprietary scoring or determination process.</li> </ul> <p>The index methodology uses the following ESG datasets.</p>
	<b>Data Source</b>	<b>Dataset</b>

	<b>S&amp;P Trucost Limited (a part of S&amp;P Global) (external data source)</b>	<p>This methodology uses several datasets provided by S&amp;P Trucost Limited:</p> <ul style="list-style-type: none"> <li>· Transition pathway model (Reported and Modeled)</li> <li>· Physical risk scores dataset (Reported and Modeled)</li> <li>· Greenhouse gas emissions and emissions disclosure dataset (Reported and Modeled)</li> <li>· Green-to-brown share dataset (Reported and Modeled)</li> <li>· Fossil fuel reserves (Reported and Modeled)</li> <li>· Trucost sector revenues dataset (Reported and Modeled)</li> </ul> <p>For further information, please refer to: <a href="https://www.support.marketplace.spglo.com/">https://www.support.marketplace.spglo.com/</a></p>	<a href="https://www.support.marketplace.spglo.com/">bal.com/</a>
		<a href="https://www.support.marketplace.spglo.com/en/datasets/alternative/trucost_environmental/trucost_environmental_data_met">en/datasets/alternative/trucost_environmental/trucost_environmental_data_met</a>	<a href="#">hodology_guide.pdf</a>
	<b>Sustainalytics (external data source)</b>	<p>This methodology uses the following datasets provided by Sustainalytics, a global leader in sustainability research and analytics:</p> <ul style="list-style-type: none"> <li>· Product Involvement (Reported and Modeled)</li> <li>· Global Standards Screening (Reported and Modeled)</li> <li>· Controversy Ratings (Reported and Modeled)</li> <li>· Sustainalytics ESG Risk Rating Scores (Reported and Modeled)</li> </ul> <p>For more information, please refer to <a href="http://www.sustainalytics.com">www.sustainalytics.com</a>.</p> <p>Data is also sourced externally from Climate Bonds Initiative ("CBI"), Environmental Finance and S&amp;P Market</p>	

		<p>This methodology uses several datasets provided by S&amp;P Trucost Limited:</p> <ul style="list-style-type: none"> <li>· Transition pathway model (Reported and Modeled)</li> <li>· Physical risk scores dataset (Reported and Modeled)</li> <li>· Greenhouse gas emissions and emissions disclosure dataset (Reported and Modeled)</li> <li>· Green-to-brown share dataset (Reported and Modeled)</li> <li>· Fossil fuel reserves (Reported and Modeled)</li> <li>· Trucost sector revenues dataset (Reported and Modeled)</li> </ul> <p>For further information, please refer to: <a href="https://www.support.marketplace.spglo">https://www.support.marketplace.spglo</a></p>	
	S&P Trucost Limited (a part of S&P Global) (external data source)		<a href="https://www.support.marketplace.spglo">www.support.marketplace.spglo</a>
		Intelligence Reference Data, supplemented with professional expertise and bond prospectuses.	
7.b	Verification and quality of data.	<p><b>S&amp;P DJI's Global Data Management Team</b> holds the responsibility of data quality assurance and validation of thirdparty data sources, including all ESG datasets. This process involves regular reviews of new data received, and includes comparison with previous data, coverage and identifier checks as well as escalation of suspect data to data vendors. S&amp;P DJI also hold regular feedback sessions with data partners and vendors to share any quality concerns and to remedy any issues that are observed during data validations performed by the Global Data Management Team. In addition, all users of third-party data perform their own review of data used in the maintenance of indices.</p> <p>For the <b>S&amp;P Global Trucost Research Process</b>:</p>	

S&P Global Trucost follows a four-step research process designed to minimize the environmental reporting burden of companies (“survey fatigue”) and to provide a transparent system for companies to verify their environmental performance profile, and, at any time, contribute to their most recently available data. Fourstep research process:

1. MAP company business segments:S&P Global Trucostmaps company business segments to more than 450 business activities in the S&P Global Trucost model. The model is based on the North American Industry Classification System (NAICS), but goes into greater granularity in some areas, such as power generating utilities.
2. ESTIMATE data-modelled profile:Once companybusinesssegments have been mapped to S&P Global Trucost sectors and their share of revenue apportioned to each, S&P Global Trucost is able to efficiently generate a data modelled profile for the company. S&P Global Trucost uses its environmentally extended input/output (EEIO) model to estimate data for over 800 environmental and operational metrics across the entire operations of companies, from the raw materials they depend on in their supply chains to the electricity they purchase to power their operations.
3. COLLECT public disclosure:S&P Global Trucost searchesforenvironmental performance information in annual reports, sustainability reports, websites, and other publicly disclosed sources. Third party datasets, like disclosures to the CDP, are also reviewed. We then standardize reported environmental performance data to best practice guidelines so that it can be compared across companies, regions, and business activities. To correct reporting errors,

vigorous data control procedures are applied, such as sector specialist data reviews, automated outlier identifications and year-on-year comparisons. Wherever a material metric is not disclosed, S&P Global Trucost uses its modelled value, thus ensuring that all data gaps have been filled.

4. ENGAGE with company: S&P Global Trucost then conducts an annual engagement with every company, providing the opportunity to verify environmental performance and provide additional information. Companies are further welcomed to contact S&P Global Trucost analysts at any point in their environmental reporting cycle to provide their most recently available data. This ensures S&P Global Trucost's data is both accurate and up to date.
5. For further information, please refer to: [https://www.support.marketplace.spglobal.com/en/datasets/alternative/trucost\\_environmental/trucost\\_environmental\\_data\\_methodology\\_guide.pdf](https://www.support.marketplace.spglobal.com/en/datasets/alternative/trucost_environmental/trucost_environmental_data_methodology_guide.pdf)  
**Sustainalytics Datasets:**

#### 1. Quality Approach to *Controversies* Company Research:

Continuous improvement and maintenance of quality and research standards; Continuous refinement of methodologies and guidance to adjust to emerging societal ESG developments;

Continuous screening and curation of news and NGO sources; Screening of corporate reporting and web disclosure; Senior sector lead quality reviews of controversy assessments before publication.

For high scoring controversy ratings (Categories 4 and 5), companies are contacted to verify allegations that are relevant in the controversy ratings methodology and their response is taken into consideration, and whenever relevant included; proposals for assessment changes are reviewed by an internal oversight body. If the proposal is approved, a written indicator assessment is drafted according to Sustainalytics Controversy guidelines. Before such assessment is published, a quality and editorial review is conducted.

Data and deliverable management:

Quality and reliability of Covered Company and identifier data through automated quality assurance; Quality and reliability of Sustainalytics proprietary (i.e. research) data through automated quality assurance, prior to publication; Senior sector lead quality reviews of controversy assessments before publication; Quality and reliability of biweekly client deliverables through end-of-gate quality assurance processes (automated and manual); Monitoring and investigating ESG score fluctuations and their root causes using manual and automated tools.

Update cycle:

Continuous daily news monitoring is conducted as incidents occur and feed into updates of controversy indicators; Quarterly reviews of high scoring cases regardless the occurrence of incidents; Three year back controversy screen for entities added to the research universe after every quarterly rebalance; Annual review of all company's controversy ratings when the overall Risk Rating of a company is annually updated; Analyst discretion to react to relevant developments at any time, regardless the above scheduled reviews.

#### 2. Quality Approach to *Controversial Weapons Radar (CWR)* Company Research:

Continuous improvement and maintenance of quality and research standards; Continuous refinement of methodologies and guidance to adjust to emerging societal ESG developments; Continuous screening and curation of news and NGO sources; Screening of corporate reporting and web disclosure; All involved companies are contacted for fact checking relevant in the methodology and their response is taken into consideration, and whenever relevant included; Before CWR assessment is published, a quality and editorial review is conducted and the CWR Committee signs off on entire research.

Data and deliverable management:

Quality and reliability of Covered Company and identifier data; Quality and reliability of Sustainalytics proprietary (i.e. research) data prior to publication; Quality and reliability of quarterly client deliverables through end-of-gate quality assurance processes (automated and manual).

Update cycle:

Continuous daily news monitoring is conducted as incidents occur and feed into updates of controversy indicators.

### 3. Quality Approach to *Global Standards Screening (GSS)* Company Research:

Continuous improvement and maintenance of quality and research standards; Companies are contacted to verify allegations that are relevant in the Global Standards Screening methodology and their response is taken into consideration, and whenever relevant included; Quality reviews of ESG assessments before publication.

For the Global Standards Screening, proposals for assessment changes are reviewed by an internal oversight body. If the proposal is approved, a written report is drafted according to the GSS guidelines. Before a Watchlist or Non Compliant status for an issue is published, a quality and editorial review is conducted on the report and the sources used therein.

Data and deliverable management:

Quality and reliability of Covered Company and identifier data through automated quality assurance; Quality and reliability of Sustainalytics proprietary (i.e. research) data through automated quality assurance, prior to publication; Quality and reliability of standard deliverables through end-of-gate quality assurance process; Quality and reliability of custom client deliverables through end-of-gate quality assurance processes (automated and

		<p>manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:  Continuous monitoring is conducted as incidents occur and feed into updates of Global Standards Screening reports • Quarterly updates to Global Standards Screening reports • New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>4. Quality Approach to <i>Product Involvement</i> Company Research:  Continuous improvement and maintenance of quality and research standards; All Product Involvement research is reviewed by senior analysts. The review comprises checking the accuracy of the involvement analysis by studying the original source as well as consistency with the research methodology and framework; Final validation of the research before publication is done by the Research Manager. Assessment changes are additionally reviewed by an internal oversight body.</p> <p>Data and deliverable management:  Quality and reliability of Covered Company and identifier data through automated quality assurance; Quality and reliability of Sustainalytics proprietary (i.e. research) data through automated quality assurance, prior to publication; Quality and reliability of standard deliverables through end-of-gate quality assurance process; Quality and reliability of custom client deliverables through end-of-gate quality assurance processes (automated and manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:  Product Involvement Research is updated annually; New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>For further information on Environmental Finance research and methodology refer <a href="https://www.bonddata.org/policy_methodology.html">https://www.bonddata.org/policy_methodology.html</a> .  The CBI Green Bond Database screening process is available at <a href="https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf">https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf</a>  For further information on S&amp;P Market Intelligence Reference Data refer to <a href="https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data">https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data</a>.</p>
7.c	Reference standards	<p>GHG Emissions data is sourced externally from <b>S&amp;P Global Trucost</b>. Trucost uses the following standards:</p> <ul style="list-style-type: none"> <li>• Scopes 1 and 2: the GHG Protocol Corporate Standard.</li> <li>• Scope 3 (upstream &amp; downstream): The Corporate ValueChain Standard, which is a supplement to the GHG Protocol specific to Scope 3.</li> </ul> <p><b>S&amp;P DJI</b> uses international sustainability disclosure frameworks such as, SASB, GRI, UN Global Compact and the recommendations of the Financial Stability Board's Task Force for Climate-related Financial Disclosures as published in the 2017 Final Report.</p>

		<p>manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:</p> <p>Continuous monitoring is conducted as incidents occur and feed into updates of Global Standards Screening reports • Quarterly updates to Global Standards Screening reports • New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>4. Quality Approach to <i>Product Involvement</i> Company Research:</p> <p>Continuous improvement and maintenance of quality and research standards; All Product Involvement research is reviewed by senior analysts. The review comprises checking the accuracy of the involvement analysis by studying the original source as well as consistency with the research methodology and framework; Final validation of the research before publication is done by the Research Manager. Assessment changes are additionally reviewed by an internal oversight body.</p> <p>Data and deliverable management:</p> <p>Quality and reliability of Covered Company and identifier data through automated quality assurance; Quality and reliability of Sustainalytics proprietary (i.e. research) data through automated quality assurance, prior to publication; Quality and reliability of standard deliverables through end-of-gate quality assurance process; Quality and reliability of custom client deliverables through end-of-gate quality assurance processes (automated and manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:</p> <p>Product Involvement Research is updated annually; New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>For further information on Environmental Finance research and methodology refer <a href="https://www.bonddata.org/policy/methodology.html">https://www.bonddata.org/policy/methodology.html</a> .</p> <p>The CBI Green Bond Database screening process is available at <a href="https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf">https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf</a></p> <p>For further information on S&amp;P Market Intelligence Reference Data refer to <a href="https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data">https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data</a>.</p>
		<p>The methodology behind Sustainalytics Global Standards Screening is based on the following international standards:</p> <ul style="list-style-type: none"> <li>• UN Global Compact Principles</li> <li>• OECD</li> <li>• World Governance Indicators</li> </ul>
		<ul style="list-style-type: none"> <li>• Industry-specific standards or initiatives. Examples are the Round Table on Sustainable Palm Oil, the standards for Systemically Important Banks, local Corporate Governance codes, and many others</li> <li>• Said industry-specific standards are incorporated in</li> </ul>

		<p>manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:  Continuous monitoring is conducted as incidents occur and feed into updates of Global Standards Screening reports • Quarterly updates to Global Standards Screening reports • New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>4. Quality Approach to <i>Product Involvement</i> Company Research:  Continuous improvement and maintenance of quality and research standards; All Product Involvement research is reviewed by senior analysts. The review comprises checking the accuracy of the involvement analysis by studying the original source as well as consistency with the research methodology and framework; Final validation of the research before publication is done by the Research Manager. Assessment changes are additionally reviewed by an internal oversight body.</p> <p>Data and deliverable management:  Quality and reliability of Covered Company and identifier data through automated quality assurance; Quality and reliability of Sustainalytics proprietary (i.e. research) data through automated quality assurance, prior to publication; Quality and reliability of standard deliverables through end-of-gate quality assurance process; Quality and reliability of custom client deliverables through end-of-gate quality assurance processes (automated and manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:  Product Involvement Research is updated annually; New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>For further information on Environmental Finance research and methodology refer <a href="https://www.bonddata.org/policy_methodology.html">https://www.bonddata.org/policy_methodology.html</a> .  The CBI Green Bond Database screening process is available at <a href="https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf">https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf</a>  For further information on S&amp;P Market Intelligence Reference Data refer to <a href="https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data">https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data</a>.</p>
		<p>assessments of companies' management of ESG issues in ESG Risk Ratings</p> <p><b>Sustainalytics Datasets:</b></p> <p>Controversies Research tracks incidents through various media and NGO sources and is not a comprehensive screening product. The following standards are included in the framework for analysis for the Controversies research, however, reference to the exact standards or norms breaches is</p>

		<p>manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:  Continuous monitoring is conducted as incidents occur and feed into updates of Global Standards Screening reports • Quarterly updates to Global Standards Screening reports • New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>4. Quality Approach to <i>Product Involvement</i> Company Research:  Continuous improvement and maintenance of quality and research standards; All Product Involvement research is reviewed by senior analysts. The review comprises checking the accuracy of the involvement analysis by studying the original source as well as consistency with the research methodology and framework; Final validation of the research before publication is done by the Research Manager. Assessment changes are additionally reviewed by an internal oversight body.</p> <p>Data and deliverable management:  Quality and reliability of Covered Company and identifier data through automated quality assurance; Quality and reliability of Sustainalytics proprietary (i.e. research) data through automated quality assurance, prior to publication; Quality and reliability of standard deliverables through end-of-gate quality assurance process; Quality and reliability of custom client deliverables through end-of-gate quality assurance processes (automated and manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:  Product Involvement Research is updated annually; New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>For further information on Environmental Finance research and methodology refer <a href="https://www.bonddata.org/policy_methodology.html">https://www.bonddata.org/policy_methodology.html</a> .  The CBI Green Bond Database screening process is available at <a href="https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf">https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf</a>  For further information on S&amp;P Market Intelligence Reference Data refer to <a href="https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data">https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data</a>.</p>
		<p>not described, given that Sustainimpact the reported allegations may have for businesses and stakeholders</p> <ul style="list-style-type: none"> <li>• UN Global Compact Principles</li> <li>• OECD</li> <li>• Industry specific standards, initiatives or principles as further elaborated in underlying conventions and authoritative guidelines</li> </ul> <p>ICMA Green Bond Principles (GBP), Social Bond Principles (SBP) and Sustainability Bond Guidelines (SBG).</p>

		<p>manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:</p> <p>Continuous monitoring is conducted as incidents occur and feed into updates of Global Standards Screening reports • Quarterly updates to Global Standards Screening reports • New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>4. Quality Approach to <i>Product Involvement</i> Company Research:</p> <p>Continuous improvement and maintenance of quality and research standards; All Product Involvement research is reviewed by senior analysts. The review comprises checking the accuracy of the involvement analysis by studying the original source as well as consistency with the research methodology and framework; Final validation of the research before publication is done by the Research Manager. Assessment changes are additionally reviewed by an internal oversight body.</p> <p>Data and deliverable management:</p> <p>Quality and reliability of Covered Company and identifier data through automated quality assurance; Quality and reliability of Sustainalytics proprietary (i.e. research) data through automated quality assurance, prior to publication; Quality and reliability of standard deliverables through end-of-gate quality assurance process; Quality and reliability of custom client deliverables through end-of-gate quality assurance processes (automated and manual); Monitoring and investigating ESG score fluctuations and their root causes using automated tools.</p> <p>Update cycle:</p> <p>Product Involvement Research is updated annually; New companies added to the universe as a result of rebalancing are researched and updated in client systems quarterly; Corporate actions are processed in client systems on a quarterly basis in order to capture any involvement changes arising from mergers, acquisitions or other corporate actions.</p> <p>For further information on Environmental Finance research and methodology refer <a href="https://www.bonddata.org/policy/methodology.html">https://www.bonddata.org/policy/methodology.html</a> .</p> <p>The CBI Green Bond Database screening process is available at <a href="https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf">https://www.climatebonds.net/files/files/Taxonomy/CBI_Taxonomy_Tables-08A%20%281%29.pdf</a></p> <p>For further information on S&amp;P Market Intelligence Reference Data refer to <a href="https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data">https://www.spglobal.com/market-intelligence/en/solutions/pricing-and-reference-data</a>.</p>
<b>Appendix latest update:</b>		31 August 2023 - Annual update to decarbonisation trajectory disclosures
<b>Appendix updates:</b>		n/a
<b>Appendix first publication:</b>		31 August 2022

# Disclaimer

## Performance Disclosure/Back-Tested Data

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Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

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