

iBoxx USD Liquid High Yield ex-Energy Index Methodology

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1 iBoxx USD Liquid High Yield ex-Energy Index

The iBoxx USD Liquid High Yield ex-Energy Index is designed to reflect the performance of US Dollar (USD) denominated liquid high yield corporate bond market excluding Energy. The indices are an integral part of the global iBoxx index families, which provide the marketplace with accurate and objective indices by which to assess the performance of bond markets and investments. The Index is market-valued weighted with a 3% issuer cap.

The iBoxx USD Liquid High Yield ex-Energy Index is rebalanced once a month at the month end (the 'rebalancing date') and consists of sub-investment grade USD denominated bonds issued by corporate issuers from developed countries and rated by at least one of three rating services: Fitch Ratings, Moody's Investor Service, or S&P Global Ratings.

The bonds in the iBoxx USD Liquid High Yield ex-Energy Index must meet all the criteria described below as of the close of business three business days prior to the rebalancing date provided that the relevant bond data can be verified as of such date ('bond selection cut-off date'). The new Index composition becomes effective on the first business day of the next month (the 'composition month'). All iBoxx indices are priced based on multiple data inputs. The iBoxx USD Liquid High Yield ex-Energy Index follows the pricing methodology as described in the document *iBoxx Pricing Methodology* publicly available on <https://www.spglobal.com/spdji/en/> under *Methodology*.

This document covers the index selection rules and calculation methodology.

2 Bond selection rules

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

- Bond type
- Credit rating
- Expected remaining life
- Amount outstanding
- Classification
- Lockout period

2.1 Bond type

Only fixed-rate bonds whose cash flow can be determined in advance are eligible for the indices. The indices are comprised solely of bonds. T-Bills and other money market instruments are not eligible. The iBoxx USD Liquid High Yield ex-Energy Index include only USD denominated bonds.

In particular, bonds with the following characteristics are included:

- Fixed coupon bonds
- Step-up bonds with coupon schedules known at issuance (or as functions of the issuer's rating)
- Sinking funds and amortizing bonds
- Medium term notes (MTNs)
- Rule 144A offerings, where possible the registered version of the bond will be eligible for the Index
- Callable bonds
- Puttable bonds
- Pay-in kind bonds

The following instrument bond types are specifically excluded from the indices:

- Preferred shares
- Optionally and mandatory convertible bonds
- Subordinated bank or insurance debt with mandatory contingent conversion features or with any conversion options before the first call date is ineligible for the Index
- Bonds with other equity features attached (e.g., options/warrants)
- Perpetual bonds (unless callable with eligible expected remaining life as per chapter 2.3)
- Floating rate notes
- Zero coupon bonds
- Zero step-ups (GAINS)
- Bonds with differences between accrual and coupon payment periods and monthly-paying bonds

- Regulation S offerings
- Private placements
- Retail bonds
- Extended bonds as defined under section 'Maturity extension' in this document

For private placements, publicly available information is not always conclusive and the classification of a bond as a private placement will be made at S&P DJI's discretion based on the information available at the time of determination. Any bond classified as private placement is added to the list of excluded private placements. The list is published on <https://www.spglobal.com/spdji/en/> under *Indices News* for future reference and to ensure decision's 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 2.1 of 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.

2.1.1 Tender offers and calls

Any bond subject to a firm call or tender offer, with the exception of exchange offers, in the month immediately following the rebalancing date will be excluded from the Index, provided that S&P DJI is aware of such tender offer or call as of the Bond selection cut-off date.

Credit rating

All bonds in the indices must have an iBoxx Rating of sub-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

Sub-investment grade is defined as BB+ or lower from Fitch Ratings or S&P Global Ratings and Ba1 or lower from Moody's Investor Service, but not in default.

If a bond is rated by more than one of the above agencies, then the iBoxx rating is the average of the provided ratings. The rating is consolidated to the nearest rating grade. Rating notches are not used.

Defaulted bonds are ineligible for the index. Bonds in default, or that trade flat of accrued, are removed from the index at the first rebalancing following the default/start of trading flat of accrued. Issues rated D by Fitch Ratings or S&P Global Ratings, or those subject to a default press release by Moody's Investor Service, cannot enter the index; issues in the index that are subsequently downgraded to D by S&P Global Ratings or Fitch, or are subject to a default press release by Moody's Investor Service (as of the bond selection cut-off date), are removed on the subsequent rebalancing date. In case of an ID change or exchange of a 144A version into a registered bond the ratings from the 144A bond are also used for the registered bond.

Bonds with a rating downgrade to RD/SD remain eligible in the indices until the second rebalancing after the downgrade. If such bonds are not upgraded by T-3 of the second rebalancing following the initial downgrade, the bonds are removed. RD/SD rated bonds remain eligible in the indices for the first rebalancing after their downgrade to allow for sufficient time to complete a distressed debt exchange or change of terms (assuming the bonds meet all other criteria).

For more information average ratings, please refer to the iBoxx Rating Methodology, available at <https://www.spglobal.com/spdji/en/>.

2.3 Time to maturity

2.3.1 Expected remaining life

All bonds must have at the rebalancing day an expected remaining life:

- Of at least one year, and
- All new insertions must have an expected remaining life of at least one year and 6 months.

The expected remaining life is calculated from the rebalancing date to the assumed workout date of the bond, by using the day count convention of the bond. The workout date for a bond is determined based on the bond features as follows:

- For plain vanilla bonds, the expected workout date is the final maturity date
- For dated and undated callable financial hybrid capital bonds, the workout date is assumed to be the first call date
- For soft bullets, the expected workout date is determined using the first call date

2.3.2 Expected remaining life at issuance

All bonds must have at issuance an expected remaining life of 15 years or less.

2.4 Issue amount outstanding

The outstanding face value of a bond must be greater than or equal to USD 400 million as of the bond selection cut-off date. Partial buybacks or increases affect the outstanding face value of a prospective bond. S&P DJI considers changes to the outstanding face value of a candidate bond as a result of partial or full buybacks or increases, provided that S&P DJI is aware of such changes as of the bond selection cut-off date. In the case of 144A securities that are registered as global securities, the remaining amount of the 144A version and the registered version are recombined if the bond is not exchanged in full if the remaining amount of the 144A version reduces the amount outstanding below the eligibility threshold.

2.5 Issuer amount outstanding

The outstanding face value of all bonds denominated in USD from the issuer in the broader “iBoxx USD High Yield Developed Markets Index” and the “iBoxx USD Corporates (IG)” universe must be greater than or equal to USD 1 billion as of the bond selection cut-off date. The issuer amount outstanding is based on the issuer ticker.

To avoid turnover due to redemptions and new issuances the following adjustments are made to the issuer amount outstanding:

- New inclusions will consider the issuer amount outstanding as of the bond selection period as well as the projected amount outstanding at the next rebalancing.
- Bonds are only removed from the index due to the issuer amount outstanding cut-off if the expected amount outstanding for the next rebalancing is also expected to be below the cut-off amount.
- Using the expected issuer amount outstanding at next month’s rebalancing to determine the eligibility based on the issuer amount outstanding threshold is intended to reduce unnecessary turnover by only adding bonds that are expected to comply with the issuer amount outstanding rule in the coming month and only remove bonds expected to fail the rule going forward.

2.6 Lockout period

A bond that drops out of the iBoxx USD Liquid High Yield ex-Energy Index at the rebalancing day is excluded from reentering the Index for a three month period. The rule for the lockout period takes

precedence over the other rules for the iBoxx USD Liquid High Yield ex-Energy Index selection. A locked out bond will not be selected, even if it qualifies for the index.

3 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

Bonds issued by public or private corporations. Bonds secured by a ‘floating charge’ over some or all assets of the issuer are considered corporate bonds. Corporate bonds are further classified into Financials and Non-Financials bonds and then into their multiple-level economic sectors, according to the issuer’s business scope. The category Guaranteed & Wrapped is added under Financials for corporate bonds whose timely coupon and/or principal payments are guaranteed by a non-affiliated insurer or through a letter of credit from a non-affiliated bank. Each bond in the index is assigned to one of the following sectors.

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

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

3.2 Excluded market sectors

Corporate bonds belong to the below listed market sub sector are specifically excluded from the iBoxx USD Liquid High Yield ex-Energy Index:

Economic Sector	Market Sector	Market Sub-Sector	Definition
Energy	Oil & Gas	Oil & Gas Producers	corporate entities engaged in exploration, drilling, production, refining and supply of oil and gas products
		Oil Equipment / Services & Distribution	suppliers of equipment and services related to the oil & gas exploration, production, refining or distribution
		Alternative Energy	Companies that produce alternative fuels (e.g. bio-fuels) and/or are involved in the development of alternative fuelling infrastructure. Includes companies that develop or manufacture renewable energy

Economic Sector	Market Sector	Market Sub-Sector	Definition
	Renewable Energy		equipment.

3.3 Denomination

Bonds must be denominated in US Dollar.

3.4 Issuer

The bond must be corporate credit, i.e., debt instruments backed by corporate issuers that are not secured by specific assets. Debt issued by governments, sovereigns, quasi-sovereigns, and governmentbacked or guaranteed entities is excluded.

For the purposes of selecting candidates for the Index, an 'issuer' is defined by the Bloomberg ticker (i.e., all bonds sharing a ticker are attributed to the same issuer).

3.5 Issuer country

Bonds from countries classified as developed markets based on the *S&P Global iBoxx Global Economic Development Classification Methodology* are eligible for the Index. The issuer or, in the case of a finance subsidiary, the issuer's guarantor, must be domiciled, incorporated and the country of risk must be in the countries listed as developed markets in *S&P iBoxx Country Classifications*. The classification is available at: <https://www.spglobal.com/spdji/en/> under Methodology -> S&P iBoxx Country Classifications.

Inclusion and exclusion of countries

A new country is added to the Index if it is classified as developed market based on the *S&P Global iBoxx Global Economic Development Classification Methodology*. A country is no longer eligible for the Index if it is classified as emerging market based on the *S&P Global iBoxx Global Economic Development Classification Methodology*. The *S&P Global iBoxx Global Economic Development Classification Methodology* is updated annually. The inclusion/exclusion of a country becomes effective at the end of October.

4 Index calculation

4.1 Static data

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

4.2 Bond prices

For more details, please refer to the *iBoxx Pricing Methodology* document, available in the *Methodology* section of the webpage at <https://www.spglobal.com/spdji/en/>.

4.3 Rebalancing process

The index rebalances monthly after market close on the last business day of the month. Any inclusion after the index cut-off day (T-3) is not considered in the rebalancing process but becomes effective at the end of the following month. New bonds issued are considered if publicly known to settle until the last calendar day of the month, inclusive, and if the rating and amount outstanding has become known at least three trading days before the end of the month.

Preview lists of eligible bonds are published on a weekly basis starting on the first Friday three business days after the previous month-end rebalance, as well as on the sixth calendar day of the month (or next index publication day if the sixth calendar day falls on a non-business day). Preview lists of eligible bonds are additionally published on before the end of the month. Final components are published two business days before the end of the month (T-2).

Two business days before the end of each month, the rating and amount information for the constituents is updated and the list is adjusted for all rating and amount changes which are known to have taken place three business days before the end of the month which could also result in exclusion of the bond. However, if bonds which are part of broader U.S. Dollar indices become eligible into the Index two business days prior to rebalancing because of rating and/or amount changes, the bonds are included in the index.

4.3.1 Rebalancing procedure

In a first step the selection criteria set out in chapter 2 are applied to the universe of USD denominated bonds.

- Bond ratings and amount outstanding are used as of the bond selection cut-off date
- Maturity dates remain fixed for the life of the bond
- Only bonds with a first settlement date on or before the rebalancing date are included in the selection process

4.4 Index weights

Once the eligible bond universe has been defined, the weight for each bond is determined and if necessary capped applying an issuer cap of 3%. The weights and capping factors are determined on the last business day of each month using the end-of-month market values.

4.5 Index Calculus

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

4.6 Treatment of the special intra-month events

Data for the application of corporate actions in the Index 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.

4.6.1 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.

4.6.2 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).

4.6.3 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.

4.6.4 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

4.7 Index history

The Index history starts on 30 September 2009. The Index has a base value of 100 on that date.

4.8 Settlement conventions

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

4.9 Calendar

S&P DJI publishes an index calculation calendar available on <https://www.spglobal.com/spdji/en/> under *iBoxx Indices Calendars*. This calendar provides an overview of the index calculation holidays of the iBoxx bond index families each year.

4.10 Publication of the index

The index calculates as an end-of-day index and distributes once daily after close of U.S. markets.

Bond and index analytical values calculate end of day Monday to Friday using that day's closing prices. In addition, bond and index analytical values calculate 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, available on <https://www.spglobal.com/spdji/en/> 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 on <https://www.spglobal.com/spdji/en/> for registered users.

Data publication and access

The table below summarizes the publication of the indices at <https://www.spglobal.com/spdji/en/> for registered users and on the FTP server.

In addition to the indices detailed in this methodology, other indices covered by this document may be available. For a list of available indices, please refer [here](#).

Table: Frequency, File type and Access

Frequency	File Type	Access
Daily	Underlying file – Bond level	FTP Server
	Indices file – Index level	FTP 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 non-business day)	Forwards	FTP Server
Monthly	End of Month Components	FTP Server / website
	XREF files	FTP Server

Below is a summary of the identifiers for each publication channel:

Table: Identifier overview:

Index Name	iBoxx USD Liquid High Yield ex-Energy	
Version	TRI	CPI
ISIN	GB00BZB0Y670	GB00BZB0Y787
Sedol	BZB0Y67	BZB0Y78
Ticker	IBXXEOG1	IBXXEOG2
RIC	.IBXXEOG1	.IBXXEOG2

4.12 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.

5 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](#).

6 Changes to the iBoxx USD Liquid High Yield ex-Energy Index

31-Mar-2025	Annual Index Review 2024 <ul style="list-style-type: none"> Removal of the minimum run rule
01-Mar-2024	Annual Index Review 2023 <ul style="list-style-type: none"> Inclusion of payment-in-kind (PIK) bonds
30-Jun-2023	Annual Index Review 2022 <ul style="list-style-type: none"> Introduction of 'Maturity extension' section Index eligibility of bonds with extended workout dates Distressed Debt Exchanges – Rule Update Economic Sector classification change from Oil & Gas to Energy Name change from Markit iBoxx USD Liquid High Yield ex-Oil & Gas Index to iBoxx USD Liquid High Yield ex-Energy Index
30-Jun-2022	Monthly forward start date updated from 10th calendar day to 6th calendar day
31-Mar-2022	Implementation of Annual Index Review 2021 <ul style="list-style-type: none"> Introduction of new market sector classification "Education" with market sub-sector classification "Academic & Educational Services"
01-Sep-2021	Monthly forward start date updated from 12th calendar day to 10th calendar day
01-Mar-2021	Governance and Regulatory Compliance section added
28-Feb-2021	Implementation of Annual Index Review 2020 <ul style="list-style-type: none"> Updated Issuer amount outstanding determination parameters Removed Rating Stabilization Rule Updated Insurance classification
31-Jul-2020	Implementation of Annual Index Review 2019 <ul style="list-style-type: none"> Introduction of updated corporate classification schema Implementation of updated Bank Tier Classification Updates as part of the changes in definition and treatment of hybrid bond
14-Apr-2016	Launch of the Markit iBoxx USD Liquid High Yield ex-Oil & Gas Index

7 Further information

Client support

For client support please contact index_services@spglobal.com.

Formal complaints

Formal complaints should be emailed to spdji_compliance@spglobal.com.

Please note: 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.

ESG Disclosures

EXPLANATION OF HOW ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY ¹		
1	Name of the benchmark administrator.	S&P Dow Jones Indices Limited
2	Underlying asset class of the ESG benchmark.²	N/A
3	Name of the S&P Dow Jones Indices benchmark or family of benchmarks.	iBoxx Benchmark Statement
4	Do any of the indices maintained by this methodology take into account ESG factors?	No
Appendix latest update:		May 2023
Appendix first publication:		May 2023

1. 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).

2. The 'underlying assets' are defined 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.

Disclaimer

Performance Disclosure/Back-Tested Data

Where applicable, S&P Dow Jones Indices and its index-related affiliates (“S&P DJI”) defines various dates to assist our clients by providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index’s Launch Date are considered back-tested. S&P DJI defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company’s public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed “Date of introduction”) is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index’s public release date.

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.

Information presented prior to an index’s launch date is hypothetical back-tested performance, not actual performance, and is based on the index methodology in effect on the launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Also, the treatment of corporate actions in back-tested performance may differ from treatment for live indices due to limitations in replicating index management decisions. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or guarantee of future results.

Typically, when S&P DJI creates back-tested index data, S&P DJI uses actual historical constituent-level data (e.g., historical price, market capitalization, and corporate action data) in its calculations. As ESG investing is still in early stages of development, certain datapoints used to calculate certain ESG indices may not be available for the entire desired period of back-tested history. The same data availability issue could be true for other indices as well. In cases when actual data is not available for all relevant historical periods, S&P DJI may employ a process of using “Backward Data Assumption” (or pulling back) of ESG data for the calculation of back-tested historical performance. “Backward Data Assumption” is a process that applies the earliest actual live data point available for an index constituent company to all prior historical instances in the index performance. For example, Backward Data Assumption inherently assumes that companies currently not involved in a specific business activity (also known as “product involvement”) were never involved historically and similarly also assumes that companies currently involved in a specific business activity were involved historically too. The Backward Data Assumption allows the hypothetical back-test to be extended over more historical years than would be feasible using only actual data. For more information on “Backward Data Assumption” please refer to the FAQ. The methodology and factsheets of any index that employs backward assumption in the back-tested history will explicitly state so. The methodology will include an Appendix with a table setting forth the specific data points and relevant time period for which backward projected data was used. Index returns shown do not

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