

INDEX GUIDELINE

Solactive GBP Corporate IG PAB Index

Version 2.0

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INTRODUCTION

This document (the "GUIDELINE") is to be used as a guideline with regard to the composition, calculation and maintenance of the Solactive Euro IG Corporate IG PAB Index (the "INDEX"). Any amendments to the rules made to the GUIDELINE are approved by the OVERSIGHT COMMITTEE specified in Section 5.5. The INDEX is owned, calculated, administered and published by Solactive AG ("Solactive") assuming the role as administrator (the "INDEX ADMINISTRATOR") under the Regulation (EU) 2016/1011 (the "BENCHMARK REGULATION" or "BMR"). The name "Solactive" is trademarked.

The text uses defined terms which are formatted with "SMALL CAPS". Such Terms shall have the meaning assigned to them as specified in Section 6 (Definitions).

The Guideline and the policies and methodology documents referenced herein contain the underlying principles and rules regarding the structure and operation of the INDEX. SOLACTIVE does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of the INDEX nor the level of the INDEX at any certain point in time nor in any other respect. Solactive strives to the best of its ability to ensure the correctness of the calculation. There is no obligation for Solactive – irrespective of possible obligations to Issuers – to advise third parties, including investors and/or financial intermediaries, of any errors in the INDEX. The publication of the INDEX by Solactive does not constitute a recommendation for capital investment and does not contain any assurance or opinion of Solactive regarding a possible investment in a financial instrument based on this INDEX.

1. INDEX SPECIFICATIONS

1.1. SCOPE OF THE INDEX

- The INDEX is a rules-based index, engineered to measure the performance of GBP denominated investment grade corporate debt. The index provides exposure to a portfolio, which is based on ISS ESG climate analysis and is in line with a 1.5°C scenario through 2050. At the same time the index displays very similar credit and interest rate risk distributions compared to the Solactive GBP IG Corporate Index (BENCHMARK INDEX).
- To achieve the 1.5°C scenario, the weighted Gross GHG Emissions and GHG Intensity of the Index is reduced compared to the Benchmark Index.
- At the launch GROSS GHG EMISSIONS as well as GHG INTENSITY of the INDEX are reduced by a minimum of 50% compared to the Benchmark. Throughout the life of the index the GROSS GHG EMISSIONS as well as the GHG INTENSITY of the Index must always fulfill the Self-Decarbonization Trajectory as well as the 50% reduction against the Benchmark Index.
- On a semi-annual basis, for the selection days in January and July, the GROSS GHG EMISSIONS and GHG INTENSITY of the index are reduced to be in line with a yearly Self-Decarbonization Trajectory of at least 7%.
- The basis for Self-Decarbonization Trajectory is the Base Date.



1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Туре	Calculation Formula*	RIC	BBG ticker
Solactive GBP						
Corporate IG PAB	DE000SL0AY12	GBP	TR	Periodic	.SOLGIGPAB	N/A
Index						

^{*}TR means that the INDEX is calculated as Total Return index and Periodic stands for Periodic reinvestment index formula as described in the Bond Index Methodology, which is available on the Solactive website: https://www.solactive.com/documents/bond-index-methodology/

The INDEX is published on the website of the INDEX ADMINISTRATOR (www.solactive.com) and is, in addition, available via the price marketing services of Börse Stuttgart GmbH and may be distributed to all of its affiliated vendors. Each vendor decides on an individual basis as to whether it will distribute or display the INDEX via its information systems.

Any publication in relation to the INDEX (e.g. notices, amendments to the GUIDELINE) will be available at the website of the INDEX ADMINISTRATOR: https://www.solactive.com/news/announcements/.

1.3. INITIAL LEVEL OF THE INDEX

The initial level of the INDEX on December 1st, 2020 is 1000. Levels of the INDEX published for a period prior to this date have been back-tested. Historical values from the December 1st, 2020 will be recorded in accordance with Article 8 of the BMR.

1.4. PRICES AND CALCULATION FREQUENCY

The Index is calculated and distributed once every Business Day based on the Last Evaluated Bid Price of the Index Components. Bonds added in a rebalancing are included the Index at the Last Evaluated Ask Price on the relevant Rebalance Day. Bonds which are excluded from the Index in a rebalance are reflected in the calculation of the level of the Index for the Rebalance Day at the Last Evaluated Bid Price on the relevant Rebalance Day. Index analytical values are calculated each Business Day using the Last Evaluated Bid Price based on Fixing Time. Prices of Index Components not listed in the Index Currency are converted using the WM 4 PM London Fixing quoted by Reuters.

2. INDEX SELECTION

On each Selection Day, all bonds which meet the Index Component Requirements are eligible for inclusion in the Index and will be added as Index Component on the Rebalance Day. Additionally, on each Selection Day, it will be evaluated whether all current Index Components still meet the Index

^{*}The calculation formula refers to the index calculation's dependency on cash reinvestment, based on whether the cash reinvestment occurs on a daily/direct basis or periodically.



COMPONENT REQUIREMENTS. Each INDEX COMPONENT that does not meet the INDEX COMPONENT REQUIREMENTS will be removed from the INDEX on the next REBALANCE DAY.

2.1. SELECTION OF THE INDEX COMPONENTS

The initial composition of the INDEX, as well as any selection for a rebalance (as specified in Section 3) is determined by using the following rules:

- A price from the PRICING PROVIDER must be available for each INDEX COMPONENT on each SELECTION DAY
- All Index Components must be a member of the Benchmark Index.

All bonds and their issuers are evaluated based on the criteria outlined in the table below. Bonds which do not comply the screens are excluded from the INDEX. The evaluation is based on data provided by the ESG DATA PROVIDER:

Theme	Topic	Exclusion criterion		
	Environment	 Verified failure to respect established norms as well as severe or very severe controversies 		
Norm-Based Research	Human Rights			
Norm-based Nescarch	Corruption			
	Labour Rights			
	Chemical weapons	_		
	Biological weapons	_		
	Nuclear weapons	Verified or alleged ongoing involvement		
Controversial	Depleted Uranium			
Weapons Research	Nuclear weapons outside the NPT			
	Cluster munitions			
	Anti-personnel mines	-		
	Coal mining and power	10/		
	generation	>=1%		
	Fossil fuel production,			
Activity Pacad	exploration, distribution, and	>=10%		
Activity-Based Screening	services.			
Screening	Electric power generation from	>=50%		
	fossil fuel sources	7-3076		
	Tobacco Cultivation &	>0%		
	Production	>070		
	Sustainable Development Goal	- Significant Negative Impact, i.e.		
	12: Responsible Consumption			
Environmental	and Production			
Objectives	Sustainable Development Goal single SDG Impact Rating of <			
Objectives	13: Climate Action	Single Soo inipact nating of < -3.0		
	ustainable Development Goal			
	14: Life Below Water			



Sustainable Development Goal 15: Life on Land

Explanation: % figures refer to revenue threshold (for degree of involvement)

The determination of the INDEX COMPONENTS is fully rule-based and the INDEX ADMINISTRATOR has no discretion.

2.2. WEIGHTING OF THE INDEX COMPONENTS

On each Selection Day each Index Component is weighted using an optimization algorithm which determines the optimal weights of each Index Component. The weights are set in such a fashion that the average Gross GHG Emissions of the Index is at its required level while all rating buckets, maturity buckets, sector buckets and turnover constraints are met. The constraints are defined as follows:

- Weighted Gross GHG Emissions must be equal or lower to the Regulatory Target GHG Emissions
- Weighted GHG Intensity must be equal to the TARGET GHG INTENSITY.
- Rating Bucket the weight of each rating bucket (AAA, Aa1, Aa2, etc.) in the INDEX may only deviate by +/-5% from the weight of the same bucket in the BENCHMARK INDEX.
- Maturity Bucket the weight of each maturity bucket (1-5 Years, 5-10 Years, 10-15 Years, 15-20 Years, 20-25 Years, 25+ Years) in the INDEX is only allowed to deviate by +/- 5% from the weight of the same bucket in the BENCHMARK INDEX.
- Sector Bucket the weight of each sector bucket in the INDEX is only allowed to deviate by +/-7.5% from the weight of the same bucket in the BENCHMARK INDEX.
- Issuer Bucket the weight of each issuer in the INDEX is only allowed to deviate by +/- 4% from the weight of the same issuer in the BENCHMARK INDEX, unless the issuer is excluded from the INDEX.
- The maximum issuer weight must be smaller than 5%.
- INDEX COMPONENTS the weight of each INDEX COMPONENT is only allowed to deviate by +1% and -0.2% from the weight of the INDEX COMPONENT in the BENCHMARK INDEX, unless the component is excluded from the Index.
- Turnover turnover is defined as two-way turnover. The turnover of the INDEX is limited to exceed the monthly turnover of the BENCHMARK INDEX by 5%. Turnover is calculated using all information as of Selection Day.
- In case the optimization is unable to find a feasible solution the constraints are loosened in the following order:
 - Turnover constraint is widened to 7.5%
 - Turnover constraint is widened to 10%
 - Sector deviation is widened to 10%



- Rating deviation is widened to 7.5%
- Sector deviation is widened to 15%
- Sector deviation is widened to 20%

3. ORDINARY REBALANCE

In order to reflect the new selection of the INDEX COMPONENTS determined on the SELECTION DAY (in accordance with Section 2.1) the INDEX is adjusted on the REBALANCE DAY after CLOSE OF BUSINESS.

For more information on the rebalance procedure please refer to the Bond Index Methodology, which is incorporated by reference and available on the Solactive website: https://www.solactive.com/documents/bond-index-methodology/.

SOLACTIVE will publish any changes made to the INDEX COMPONENTS with sufficient notice before the REBALANCE DAY on the SOLACTIVE webpage.

4. CORPORATE ACTIONS

As part of the INDEX maintenance Solactive will consider various events — also referred to as corporate actions — which result in an adjustment to the INDEX between two regular REBALANCE DAYS. Such events have a material impact on the price, weighting or overall integrity of INDEX COMPONENTS. Therefore, they need to be accounted for in the calculation of the INDEX. Adjustments to the INDEX to account for corporate actions will be made in compliance with the Bond Index Methodology.

5. DEFINITIONS

"Base Date" was initially 31/01/2020; due to substantial changes in the methodology of the input data provided by the ESG DATA PROVIDER, the decarbonization trajectory was re-based to the new BASE DATE 31/01/2022.

"BENCHMARK INDEX" is the Solactive GBP IG Corporate Index (SOLGBIGC).

"BENCHMARK REGULATION" shall have the meaning as defined in Section "Introduction".

"BMR" shall have the meaning as defined in Section "Introduction".

"Business Day" with respect to the INDEX each day Monday to Friday except common UK banking holidays (LSE Calendar).

"CLOSE OF BUSINESS" is a time stamp when an INDEX is calculated.



"ESG Data Provider" is ISS. For more information, please visit: https://www.issgovernance.com/.

"GUIDELINE" shall have the meaning as defined in Section "Introduction".

"GROSS GHG EMISSIONS" are the Greenhouse Gas Emissions of a company. As provided by the ESG DATA PROVIDER. GROSS GHG EMISSIONS are updated annually.

"GHG INTENSITY" is a metric which is used to normalize GROSS GHG EMISSIONS across different companies. Normalization is done by dividing the GROSS GHG EMISSIONS of an issuer by the book value of equity and the book value of debt of the respective issuer.

"INDEX" shall have the meaning as defined in Section "Introduction".

"INDEX ADMINISTRATOR" shall have the meaning as defined in Section "Introduction".

"INDEX CALCULATOR" is SOLACTIVE or any other appropriately appointed successor in this function.

"INDEX COMPONENT" is each bond reflected in the INDEX.

"INDEX COMPONENT REQUIREMENTS" shall have the meaning as defined in Section 2.1.

"INDEX CURRENCY" is the currency specified in the column "Currency" in the table in Section 1.2.

"ISSUER" is the issuing entity of the respective bond.

"OVERSIGHT COMMITTEE" shall have the meaning as defined in the Bond Index Methodology.

"PRICING PROVIDER" is available under https://www.solactive.com/documents/bond-pricing-provider.

"REBALANCE DAY" is the last Business Day of the month.

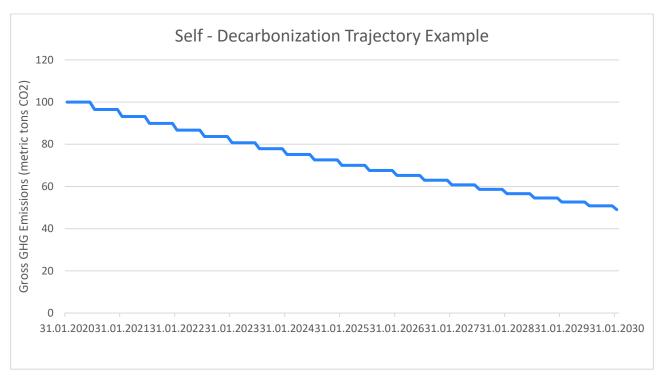
"REGULATORY TARGET GHG EMISSIONS" is the average emission level required. Until the first self-decarbonization this is a 50% reduction versus the BENCHMARK INDEX. In the following periods this is the minimum between the Self-Decarbonization Trajectory or a 50% reduction versus the BENCHMARK INDEX.

"SELECTION DAY" is 3 BUSINESS DAYS before the scheduled REBALANCE DAY, disregarding any potential change of the REBALANCE DAY.

"Self-Decarbonization-Trajectory": The INDEX follows a self-decarbonization trajectory of at least 7% annually. The decarbonization trajectory is defined by an annual minimum Gross GHG Emissions / GHG Intensity reduction of 7% compared to the GROSS GHG EMISSIONS / GHG INTENSITY of the INDEX on the BASE DATE in a geometric progression. The 7% annual reduction is split into two 3.5% semi-annual reductions which become effective in the end of January and end of July.

In the following chart a hypothetical self-decarbonization trajectory for an Paris-aligned index with GROSS GHG EMISSIONS of 100 at the BASE DATE 31/01/2020 is shown. To be compliant with the self-decarbonization trajectory the Gross GHG Emissions of the hypothetical index must always on or below the self-decarbonization trajectory.





"SOLACTIVE" shall have the meaning as defined in Section "Introduction".

"TARGET GHG INTENSITY" is the average GHG INTENSITY level required to fulfill the optimization constraint. Until the first self-decarbonization this is a 50% reduction versus the Benchmark Index. Otherwise this is the minimum between the Self-Decarbonization Trajectory and a 50% reduction versus the Benchmark Index.

Please note that the definitions included in the Bond Index Methodology apply to this guideline. In case of a discrepancy, the definition presented in the guidelines should prevail.



6. HISTORY OF INDEX CHANGES

Version	Date	Description
1.0	1 December 2020	Index Guideline creation (initial version)
1.01	24 August 2021	Clarification of exclusion criteria
1.1	12 January 2022	Update of Base Day due to Scope 3 GHG emission measurement methodology change of the ESG Data Provider, for more background see the announcement at https://www.solactive.com/methodology-change-all-solactive-owned-administered-eu-climate-transition-benchmarks-and-eu-paris-aligned-benchmarks-based-on-institutional-shareholder-services-iss-data-effective-date-05-01-2/">https://www.solactive.com/methodology-change-all-solactive-owned-administered-eu-climate-transition-benchmarks-and-eu-paris-aligned-benchmarks-based-on-institutional-shareholder-services-iss-data-effective-date-05-01-2/ . Definition of further relaxation steps in the optimization.
2.0	26 March 2024	Changing of the guideline format



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