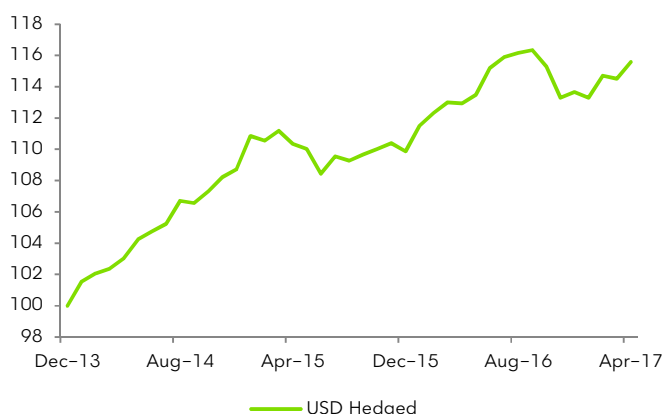


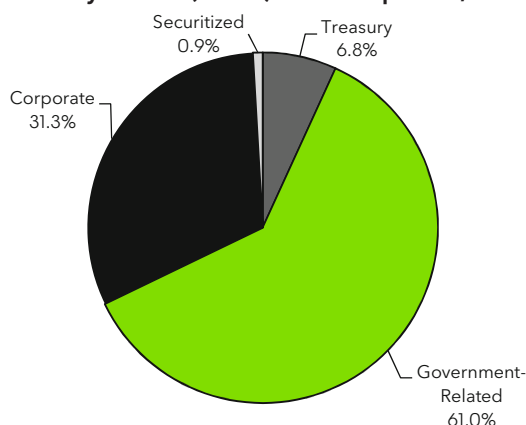
Bloomberg Barclays MSCI Global Green Bond Index

The Bloomberg Barclays MSCI Green Bond Index offers investors an objective and robust measure of the global market for fixed income securities issued to fund projects with direct environmental benefits. An independent research-driven methodology is used to evaluate index-eligible green bonds to ensure they adhere to established Green Bond Principles and to classify bonds by their environmental use of proceeds. The index was created in November 2014, with index history backfilled to January 1, 2014.

Historical Index Values - USD Hedged



Composition by Sector (MV%) - As of April 30, 2017



Rules for Inclusion: Fixed Income Criteria

Sector	Treasury, corporate, government-related, and securitized bonds are included. This includes taxable municipals.
Eligible Currencies	<ul style="list-style-type: none"> The Global Green Bond Index is a multi-currency benchmark that includes local currency debt markets tracked by the Bloomberg Barclays Global Aggregate Index. Principal and coupon must be denominated in one of the following eligible currencies: <ul style="list-style-type: none"> Americas: CAD, CLP, MXN, USD EMEA: CHF, CZK, DKK, EUR, GBP, HUF*, ILS, NOK, PLN, RUB, SEK, ZAR Asia-Pacific: AUD, HKD, JPY, KRW, MYR, NZD, SGD, THB Eligible currencies will not necessarily have debt included in the index if no securities satisfy the inclusion rules. New currency inclusion is reviewed annually through the index governance process. To be considered for inclusion, new currency candidates must be rated investment grade and sufficiently tradable, convertible and hedgeable for international investors. <p><i>*Hungarian forint-denominated debt became eligible on April 1, 2017.</i></p>
Quality	<p>Securities must be rated investment grade (Baa3/BBB-/BBB- or higher) using the middle rating of Moody's, S&P and Fitch; when a rating from only two agencies is available, the lower is used; when only one agency rates a bond, that rating is used. In cases where explicit bond level ratings may not be available, other sources may be used to classify securities by credit quality:</p> <ul style="list-style-type: none"> Local currency treasury and hard currency sovereign issues are classified using the middle issuer-level local currency and hard currency debt ratings from each agency for all outstanding bonds, even if bond-level ratings are available. Expected ratings at issuance may be used to ensure timely index inclusion or to properly classify split-rated issuers. Unrated securities may use an issuer rating for index classification purposes if available. Unrated subordinated

Rules for Inclusion: Fixed Income Criteria

securities are included if a subordinated issuer rating is available.

- German Pfandbriefe are assigned ratings that are one full rating category above the issuer's unsecured debt.

Amount Outstanding

Fixed minimum issue size are set for all local currency markets:

- 300mn: USD (excluding MBS, ABS, and CMBS)*, CAD, EUR, CHF, AUD
- 200mn: GBP
- 35bn: JPY
- 1bn: USD MBS pass-throughs
- 25mn: USD ABS and CMBS tranches*
- 2bn: DKK, NOK, PLN, ZAR, ILS, HKD, MYR
- 2.5bn: SEK
- 10bn: MXN, CZK, THB
- 20bn: RUB
- 500mn: NZD, SGD
- 200bn: HUF
- 100bn: CLP
- 500bn: KRW

**As of April 1, 2017, ABS and CMBS tranches eligible for the US Aggregate between \$25–300mn became eligible for Global Green Bond Index.*

Coupon

- Fixed-rate coupon.
- Callable fixed-to-floating rate bonds are eligible during their fixed-rate term only.
- Bonds with a step-up coupon that changes according to a predetermined schedule are eligible.

Maturity

- Unlike other Bloomberg Barclays Aggregate Bond Indices, the Global Green Bond Index does not have a 1-year minimum time to maturity and will hold bonds until final maturity. The inclusion of Green Bonds to maturity within the indices is designed to accommodate this market practice by not forcing unwanted turnover.
- Bonds that convert from fixed to floating rate, including fixed-to-float perpetuals, will exit the index before converting to floating-rate. Fixed-rate perpetual bonds are not included.
- Sub-indices based on maturity are inclusive of lower bounds. Intermediate maturity bands include bonds with maturities of 1 to 9.999 years. Long maturity bands include maturities of 10 years or greater.

Taxability

- Only fully taxable issues are eligible.
- Build America Bonds (BABs) with the tax credit to the issuer are eligible; those with tax credits issued to investors are considered tax exempt.
- Dividend Received Deduction (DRD) and Qualified Dividend Income (QDI) eligible securities are excluded.

Market of Issue

Publicly issued in the global and regional markets.

Seniority of Debt

Senior and subordinated issues are included.

Security Types

Included

- Fixed-rate bullet, puttable, sinkable/amortizing and callable bonds
- Taxable municipal securities, including Build America Bonds (BABs)
- Original issue zero coupon bonds
- Bonds issued through underwritten MTN programs
- Enhanced equipment trust certificates (EETC)
- Certificates of deposit
- Fixed-rate and fixed-to-float (including fixed-to-

Excluded

- Contingent capital securities, including traditional CoCos and contingent write-down securities, with explicit capital ratio or solvency/balance sheet-based triggers
- Bonds with equity type features (e.g., warrants, convertibles, preferreds, DRD/QDI-eligible issues)
- Inflation-linked bonds, floating-rate issues
- Fixed-rate perpetuals
- Tax-exempt municipal securities
- Private placements, retail bonds

Rules for Inclusion: Fixed Income Criteria

- variable) capital securities
- Loan participation notes
- US Agency CMBS (as of July 1, 2014)
- Malaysian government Sukuk (as of April 1, 2015)
- Sinkable Russian OFZ bonds issued prior to 2009
- USD25/USD50 par bonds
- Structured notes, pass-through certificates
- Non-ERISA eligible CMBS
- US agency MBS hybrid ARMs
- Formosa bonds (as of April 1, 2017)
- Illiquid securities where reliable pricing is unavailable

Rules for Inclusion: Green Bond Eligibility and Classification

Overview

- Green bonds are fixed income securities in which the proceeds will be exclusively and formally applied to projects or activities that promote climate or other environmental sustainability purposes through their use of proceeds.
- For the Bloomberg Barclays MSCI Global Green Bond Index, securities are independently evaluated by MSCI ESG Research along four dimensions to determine whether they should be classified as a green bond. These eligibility criteria reflect themes articulated in the Green Bond Principles and require commitments about a bond's:
 - Stated use of proceeds;
 - Process for green project evaluation and selection;
 - Process for management of proceeds; and
 - Commitment to ongoing reporting of the environmental performance of the use of proceeds.
- Both self-labeled green bonds and unlabeled bonds will be evaluated using these criteria for potential index inclusion. So long as projects fall within an eligible MSCI ESG Research green bond category and there is sufficient transparency on the use of proceeds, a bond will be considered for the index even if it is not explicitly marketed as green.
- Meeting all four criteria is required for bonds issued after the publication of the Green Bond Principles in 2014. Green bonds issued prior to 2014 that are widely accepted by investors as green bonds may still qualify for the index, even if all four principles are not satisfied, since no formal guidelines were available to issuers at the time of issuance.

Stated Use of Proceeds

- Use of proceeds and project bonds are considered eligible if the use of proceeds falls within at least one of six eligible environmental categories defined by MSCI ESG Research (alternative energy, energy efficiency, pollution prevention and control, sustainable water, green building, and climate adaptation). In cases where project categories do not overlap entirely, MSCI ESG Research will consider bonds eligible if at least 90% of the projected use of proceeds falls within eligible categories.
- General purpose bonds are considered eligible if the issuer is considered pure-play, defined as a legal entity with greater than 90% of activities (as measured by revenues) within one or more of the eligible environmental categories, except where proceeds are explicitly used to finance another company's operations (e.g., through payment of a dividend to a non-pure-play parent company).
- The six eligible environmental categories defined by MSCI ESG Research are listed below.
 - Alternative Energy
 - Energy Efficiency
 - Pollution Prevention and Control
 - Sustainable Water
 - Green Building
 - Climate Adaptation
- These categories are not mutually exclusive – a bond may fall into one or more of the categories.
- Other environmental activities that do not fit into these categories, including sustainable forestry/afforestation may also be candidates for inclusion based on evaluations by MSCI ESG Research.

Process for Green Project Selection

- Bonds are considered eligible if the issuer clearly delineates the specific criteria and process for determining eligible projects or investments in the bond prospectus or supporting documentation (e.g., green bond

Rules for Inclusion: Green Bond Eligibility and Classification

supplement, website, investor presentation).

- Project criteria must outline either specific projects or the specific categories of activities to be financed. Examples of eligible criteria include “Alta Wind acquisition” or “installation of wind turbines, production of photovoltaic cells, and rehabilitation of municipal water infrastructure to reduce waste water discharge.” Examples of non-eligible criteria include “green initiatives and other projects that contribute to environmental sustainability” without further definition.
- A second-party opinion is not sufficient in the absence of clearly defined processes and criteria for project selection.

Management of Proceeds

- A formal process to ring-fence net proceeds to the eligible use of proceeds must be disclosed in the bond prospectus or supporting documentation (as defined above). Eligible mechanisms to ring-fence net proceeds include:
 - Direct recourse to eligible revenues or assets (e.g., a green securitized bond, green project bond, or green revenue bond);
 - Creation of a separate legal entity;
 - Creation of a sub-portfolio linked to the issuer’s investment operations for eligible projects;
 - Other auditable mechanism whereby the balance of tracked proceeds is reduced periodically by amounts matching investments made in eligible projects during that period.
- Third-party verification by an external auditor is preferred but not required.

Ongoing Reporting

- At issuance, issuers of index eligible green bonds must either report on projects financed by the bonds’ proceeds, or commit to doing so within one year. This reporting obligation will continue until bond proceeds have been fully dispersed or for the life of the bond, as circumstances necessitate. For reporting to be considered eligible, it must include one or more of the following:
 - A list of specific projects/investments, including amount disbursed to each individual project;
 - Aggregate project/investment categories, including amount disbursed to each project type;
 - Quantitative or qualitative reporting on the environmental impact of the project pool (e.g., greenhouse gas emissions savings, reduction in water consumption, increased energy efficiency per unit of output, etc.).
- MSCI ESG Research reserves an additional three months beyond the 12-month deadline to review an issuer’s green bond report. This allows time for the green bond report to be located and contact to be made with the issuer in case any questions or issues are raised.
- If an issuer has not published a report within 15 months of issuance, or 15 months of the prior use of proceeds report, it will be flagged as “On Watch” in the next monthly green bond technical note, with details provided in the note regarding the timing and process for removal of the bond from the index.
- If the issuer has not published a report within 18 months from issuance or the last annual report, its bond(s) will be removed from the index upon the next index rebalance. Furthermore, the bond(s) will be considered permanently ineligible for the index.

Rebalancing Rules

Frequency

For each index, Bloomberg maintains two universes of securities: the Returns (Backward) and the Projected (Forward) Universes. The composition of the Returns Universe is rebalanced at each month-end and represents the fixed set of bonds on which index returns are calculated for the next month. The Projected Universe is a forward-looking projection that changes daily to reflect issues dropping out of and entering the index but is not used for return calculations. On the last business day of the month (the rebalancing date), the composition of the latest Projected Universe becomes the Returns Universe for the following month.

- The formal list of green bonds evaluated and identified by MSCI ESG Research is updated on the 25th calendar day of each month. MSCI evaluations must be completed by the evaluation date to qualify for inclusion at the next index rebalancing.
- The Bloomberg Barclays MSCI Green Bond Index is rebalanced on the last business day of each month. New issues will not be added to the statistics universe until after the Green Bond Evaluation Date.

Index Changes

During the month, indicative changes to securities (credit rating change, sector reclassification, amount outstanding changes, corporate actions, and ticker changes) are reflected daily in the Projected and Returns

Rebalancing Rules

Universe of the index. These changes may cause bonds to enter or fall out of the Projected Universe of the index on a daily basis, but will affect the composition of the Returns Universe at month-end only, when the index is next rebalanced.

Reinvestment of Cash Flows	Intra-month cash flows from interest and principal payments contribute to monthly index returns but are not reinvested at a short-term reinvestment rate between rebalance dates. At each rebalancing, cash is effectively reinvested into the returns universe for the following month so that index results over two or more months reflect monthly compounding.
New Issues	Qualifying securities issued, but not necessarily settled on or before the month-end rebalancing date, qualify for inclusion in the following month's index if the required security reference information and pricing are readily available.

Pricing and Related Issues

Sources & Frequency	<p>All index-eligible bonds are priced on a daily basis. Pricing sources by region:</p> <ul style="list-style-type: none"> • US Aggregate Index: Most index-eligible bonds are priced on a daily basis by Bloomberg's evaluated pricing service, BVAL. Certain segments of Eurodollar issues and LATAM USD-denominated bonds are priced by third-party sources. • Pan-European Aggregate Index: pricing is provided by a combination of BVAL and third-party sources. Prices for CHF-denominated bonds are sourced from the Swiss stock exchange. • Asian-Pacific Aggregate Index: pricing is provided by a combination of BVAL and third-party sources on a daily basis. • 144A/Eurodollar Indices: pricing is provided by a combination of BVAL and third-party sources. • Canadian Index: pricing is provided by Reuters. <p><i>As previously announced on April 27, 2017, Bloomberg plans to change the pricing source for the following set of Bloomberg Barclays Indices and asset classes to Bloomberg's evaluated pricing service, BVAL, on June 7, 2017.</i></p> <ul style="list-style-type: none"> - Canadian Index - Eurodollar Index - USD-denominated EM EMEA bonds - BRL, MXN, COL, PLN, CLP, ARS-denominated EM LATAM bonds - UK T-Bills
Timing	<p>Prices are snapped at the following times:</p> <ul style="list-style-type: none"> • North American currency bonds: 3pm (New York time); 4pm (New York time) for taxable municipal bonds; 4pm (Toronto time) for CAD-denominated securities. • Pan-European currency bonds: 4:15pm (London time); 4pm (London time) for CHF-denominated securities. • Asian currency bonds: 5pm (Sydney time) for AUD-denominated and NZD-denominated securities; 3pm (Tokyo time) for JPY-denominated; 5pm (Tokyo time) for all other securities. <p>If the last business day of the month is a public holiday in a major regional market, prices from the previous business day are used to price bonds in that particular market.</p>
Bid or Offer Side	Bonds in the index are priced on the bid side. The initial price for new corporate issues entering the index is the offer side; after the first month, the bid price is used. Japanese, Euro, and Sterling treasury bonds use mid prices.
Settlement Assumptions	T+1 calendar day settlement basis for all bonds except MBS, which are priced for Public Securities Association (PSA) settlement in the following month and discounted back to same-day settlement. At month-end, settlement is assumed to be the first calendar day of the following month, even if the last business day is not the last day of the month, to allow for one full month of accrued interest to be calculated.
Verification	Daily price moves for each security are analyzed by the index pricing team to identify outliers. Index users may also challenge price levels, which are then reviewed and updated as needed using input from various sources.
Currency Hedging	Returns hedged to various currencies are published for multi-currency indices. The indices' FX hedging methodology takes rolling one-month forward contracts that are reset at the end of each month and hedges each

Pricing and Related Issues

non-reporting currency-denominated bond in the index into the reporting currency terms. No adjustment is made to the hedge during the month to account for price movements of constituent securities in the returns universe of the index.

Calendar

The Global Green Bond Index is a global, multi-currency index that is generated every business day of the year except for January 1, the only holiday common to all regional calendars. During holidays observed by local markets, the index will still be generated using prices from the previous business day. FX rates are updated daily using WM Reuters 4pm (London) rates. FX forwards are also sourced from WM Company.

Annual Returns, 2014-2017 (%)

	USD		EUR		JPY		GBP		CHF		CAD	
	Unhedged	Hedged	Unhedged	Hedged	Unhedged	Hedged	Unhedged	Hedged	Unhedged	Hedged	Unhedged	Hedged
2014	0.20	8.72	14.11	8.72	14.31	8.44	6.44	9.07	11.96	8.43	9.51	9.96
2015	-5.71	1.05	5.03	0.75	-5.40	0.52	-0.25	1.43	-5.02	-0.46	13.08	1.66
2016	0.36	3.44	3.36	1.96	-2.69	1.80	19.71	3.14	1.90	1.31	-3.11	3.26
2017	3.20	1.70	-0.05	1.16	-1.37	1.19	-1.44	1.40	1.07	0.99	5.22	1.61

Note: 2017 returns as of 4/28/2017.

Accessing Index Data

Bloomberg Professional® service

Bloomberg benchmarks are the global standard for capital markets investors.

- INDEX<Go> – The Bloomberg Indices landing page is a dashboard for index-related information on the terminal. Find daily and monthly index returns for key indices from each index family as well as index publications including methodologies, factsheets, monthly reports, updates and alerts.
- IN<Go> – The Bloomberg Index Browser displays the latest performance results and statistics for the indices as well as history. IN presents the indices that make up Bloomberg's global, multi-asset class index families into a hierarchical view, facilitating navigation and comparisons. The "My Indices" tab allows a user to focus on a set of favorite indices.
- PORT<Go> – Bloomberg's Portfolio & Risk Analytics solution includes tools to analyze the risk, return, and current structure of indices. Analyze the performance of a portfolio versus a benchmark or use models for performance attribution, tracking error analysis, value-at-risk, scenario analysis, and optimization.
- DES<Go> – The index description page provides transparency into an individual index including membership information, aggregated characteristics and returns, and historical performance.

Bloomberg Indices Website (www.bloombergindices.com)

The index website makes available limited index information including:

- Index methodology and factsheets
- Current performance numbers for select indices

Data Distribution

Index subscribers may choose to receive index data in files. Files may include:

- Index level and/or constituent level returns and characteristics for any indices
- Automatic delivery of files via email or SFTP following the completion of the index production process after market close
- Clients may receive standard files or may customize file contents
- Index data is also available via authorized redistributors

Sub-indices and Index Customizations

Bloomberg publishes numerous sub-indices of flagship indices and bespoke benchmarks created for specific index users. Several types of bespoke indices are available to select or customize the most appropriate benchmark for specific portfolio needs:

Sub-Index Type	Description	Examples
Enhanced Constraint	Applies a more or less stringent set of constraints to any existing index.	<ul style="list-style-type: none"> Global Aggregate ex Baa Global Aggregate 1–3 Year
Composites	Investors assign their own weights to sectors or other index sub-components within an overall index.	<ul style="list-style-type: none"> 50% Global Treasury; 50% Global Aggregate ex Treasury
Issuer Constrained	Indices that cap issuer exposure to a fixed percentage. Options available for applying issuer caps and redistributing excess MV to other issuers.	<ul style="list-style-type: none"> Global Aggregate 2% Issuer Capped
Alternative Weights	Uses other rules-based weighting schemes instead of market value weights.	<ul style="list-style-type: none"> Global Aggregate GDP Weighted Global Aggregate Fiscal Strength Weighted
ESG Screened/Weighted	Applies Environmental, Social and Governance filters and/or tilts to a standard index.	<ul style="list-style-type: none"> Global Corporate Socially Responsible Index Global Aggregate ESG Weighted
Mirror Futures Index (MFI)	An index consisting of 14 funded futures contracts weighted to match closely the beginning-of-month OAD of the index.	<ul style="list-style-type: none"> Global Aggregate Mirror Futures Index
Duration Hedged	Indices constructed to reflect the underlying return of an index with its duration fully or partially hedged using its MFI.	<ul style="list-style-type: none"> Global Aggregate Duration Hedged Index

Bloomberg Total Return Index Value Tickers: Global Green Bond Index and Related Indices

Ticker (USD Unhedged)	Index	Ticker (USD Hedged)	Index
GBGLTRUU	Global Green Bond Index	GBGLTRUH	Global Green Bond Index
GBUSTRUU	US Green Bond Index	GBUSTRUH	US Green Bond Index
GBEURUU	Euro Green Bond Index	GBEURUH	Euro Green Bond Index

Total Return Index Values are available in other currencies and on a hedged basis. Attributes such as yield and duration, are also available. Please refer to Accessing Bloomberg Barclays Index Data Using Bloomberg Tickers for a full list of tickers and attributes that are available.

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|--|---|--|
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June 2, 2016

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