

BTG Pactual Global Vol Target 11 Index

June, 2024

Bloomberg

Table of contents

Introduction	3
Index Specification	3
Table 1: BTG Pactual Global Vol Target 11 Index Information	3
BTG Pactual Global Index	4
Index Specification	4
BTG Pactual Global Index Constituent Calculation	5
Glossary	6
Table 2: Index Constituents	6
Table 3: Fixed Weights	6
Benchmark Administrator	7
Environmental, Social and Governance (ESG) Disclosures	7
Disclaimer	8

Introduction

The BTG Pactual Global Vol Target 11 Index (the “Index”) is designed to adjust the exposure to the underlying index (the “Underlying Index”) and a cash index to target a volatility level of 11%. Calculation of the BTG Pactual Global Vol Target 11 Index (BTGVT11E) follows the methodology specified in the [Bloomberg Volatility Target Indices Methodology](#). This document is intended to be read in conjunction with the [Bloomberg Volatility Target Indices Methodology](#); these documents collectively constitute the index methodology for this index.

Index Specification

Cash Index	Bloomberg Overnight USD Cash Index
Exposure Threshold	None
Financing Spread	0%
Index Base Value	1000
Lag for Determination Date	1 Index Business Day immediately preceding to a Rebalance Date
Lag for Rebalance Date	1 Index Business Day immediately preceding to an Index Business Day
Lookback Window for Volatility Calculation	<ul style="list-style-type: none"> Short-term window: 20 Underlying Index Business Days Long-term window: 40 Underlying Index Business Days
Maximum Target Exposure	150%
Minimum Target Exposure	0%
Rebalance Frequency	Daily
Return Type	Excess Return
Threshold Type	Not Applicable
Underlying Index	BTG Pactual Global Index
Volatility Target	11%
Volatility Type	Realized volatility
Volatility Target Type	Type III

Table 1: BTG Pactual Global Vol Target 11 Index Information

Index Name	Index Ticker	Index Currency	Index Base Date	Index Commencement Date
BTG Pactual Global Vol Target 11 Index	BTGVT11E	USD	02 Jan 2018	27 Jul 2023

BTG Pactual Global Index

The Underlying Index, BTG Pactual Global Index, aims to reflect the performance of a portfolio allocating fixed weights to Index Constituents as detailed in Table 2. The calculation of the Underlying Index follows the methodology specified in the [Bloomberg Multi-Asset Basket of Indices Methodology](#). There are no minimum liquidity requirements. The calculation of the Index Constituents is specified under "BTG Pactual Global Index Constituent Calculation".

Index Specification

Fixings	<table border="1"> <thead> <tr> <th>Fixing</th> <th>Price Source</th> <th>FX Data Source</th> </tr> </thead> <tbody> <tr> <td>Closing Fixing</td> <td>Bloomberg Indices</td> <td>BISL Derived FX Data Methodology BFIX London 4 P.M.</td> </tr> </tbody> </table>	Fixing	Price Source	FX Data Source	Closing Fixing	Bloomberg Indices	BISL Derived FX Data Methodology BFIX London 4 P.M.		
Fixing	Price Source	FX Data Source							
Closing Fixing	Bloomberg Indices	BISL Derived FX Data Methodology BFIX London 4 P.M.							
Funded Constituents	The Index Constituents listed in Table 2.								
Index Base Date	31 st December 2013								
Index Base Value	1000.0000								
Index Business Days	New York Trading Days								
Index Commencement Date	27 th July 2023								
Index Currency	USD								
Observation Business Days	<table border="1"> <thead> <tr> <th>Data Field</th> <th>Observation Business Days</th> </tr> </thead> <tbody> <tr> <td>Index</td> <td>New York Trading Days</td> </tr> <tr> <td>Price</td> <td>New York Trading Days</td> </tr> <tr> <td>Spot Exchange Rate</td> <td>New York Trading Days</td> </tr> </tbody> </table>	Data Field	Observation Business Days	Index	New York Trading Days	Price	New York Trading Days	Spot Exchange Rate	New York Trading Days
Data Field	Observation Business Days								
Index	New York Trading Days								
Price	New York Trading Days								
Spot Exchange Rate	New York Trading Days								
Observation Lag	<table border="1"> <thead> <tr> <th>Data Field</th> <th>Observation Lag</th> </tr> </thead> <tbody> <tr> <td>Index</td> <td>0 (zero)</td> </tr> <tr> <td>Price</td> <td>0 (zero)</td> </tr> <tr> <td>Spot Exchange Rate</td> <td>0 (zero)</td> </tr> </tbody> </table>	Data Field	Observation Lag	Index	0 (zero)	Price	0 (zero)	Spot Exchange Rate	0 (zero)
Data Field	Observation Lag								
Index	0 (zero)								
Price	0 (zero)								
Spot Exchange Rate	0 (zero)								
Price Currency	The relevant currency as specified under column 'Constituent Currency' in Table 2.								
Pricing Days	The business days with respect to each Index Constituent.								
Rebalance Business Days	Index Business Days.								
Rebalance Length	1 (one) day								
Rebalance Start Date	The last Index Business Day of each month.								
Unfunded Constituents	n/a								
Units Determination Business Days	New York Trading Days								
Unit Determination Lag	1 (one)								
Weighting Scheme	Fixed Weight								

BTG Pactual Global Index Constituent Calculation

Each Index Constituent is a total return index that is calculated by adjusting for any capital adjustment events of the Underlying ETF.

The Index Constituent Value is calculated as follows:

Any dividend (where dividend refers to any cash distribution) paid, by any Underlying ETF, will be reinvested immediately on the ex-date. The additional units of any Underlying ETF, received after a stock split, or other capital adjustment event (including stock dividends and reverse splits), shall be kept and adjusted. For a spin-off, the number of 'B' shares of the spun-off company that a shareholder would receive for every 'A' shares held are determined. The spun-off shares are sold and reinvested into shares of the distributing Underlying ETF.

The Index Constituent Value for Underlying ETF i , with respect to each Index Business Day, shall be calculated in accordance with the following formulae:

$$P_t^i = P_{t-1}^i \times \frac{Price_t^i}{Price_{t-1}^i - Dividend_t^i} \times k_t^i \quad (1)$$

$$k_t^i = \frac{Price_{t-1}^i \times A^i}{Price_{t-1}^i \times A - Price_{t-1}^{i,offer} \times B^i} \quad (2)$$

$$P_{base}^i = 100 \quad (3)$$

Where:

P_t^i and P_{t-1}^i mean, with respect to Underlying ETF i , the Index Constituent Value on Index Business Day t and the immediately preceding Index Business Day $t - 1$ respectively;

$Price_t^i$ and $Price_{t-1}^i$ mean, with respect to Underlying ETF i , the Closing Price on Index Business Day t and the immediately preceding Index Business Day $t - 1$ respectively;

$Dividend_t^i$ means, with respect to Underlying ETF i , the dividend with effective date as of Index Business Day t ;

k_t^i means, with respect to Underlying ETF i , the aggregated number of units that would have been received by a holder of one unit that is going-ex for the spin-off event on Index Business Day t , which is equal to 1 if there is no spin-off event;

A^i means, with respect to Underlying ETF i , the number of units;

B^i means, with respect to Underlying ETF i , the number of units of the spun-off Underlying ETF that a shareholder would receive for every A^i units of existing Underlying ETF shares;

$Price_{t-1}^{i,offer}$ means, with respect to Underlying ETF i , the Closing Price of the spun-off Underlying ETF on the immediately preceding Index Business Day $t - 1$; and

P_{base}^i means, with respect to Underlying ETF i , the Index Constituent Value on Index Base Date.

Glossary

The following terms are used by this index in addition to those in the [Bloomberg Multi-Asset Basket of Indices Methodology](#).

Closing Price	The official closing price of the Index Constituent on the Exchange on any Index Business Day.
Exchange	The exchange or quotation system on which such Index Constituent is primarily traded, including any successor to any such exchange or quotation system to which trading in any such Index Constituent has permanently relocated (provided that BISL has determined that there is comparable liquidity for that Index Constituent on such temporary substitute exchange or quotation system as on the original exchange).
Fixed Weight	The weights of the Index Constituent at each monthly rebalance.
Index Base Date	The first date on which the Index has a value, 31 Dec 2013.
Index Business Day	A business day subject to New York trading calendar.
Index Constituent	The total return indices as detailed in Table 2.
Index Constituent Value	The total return prices of the Underlying ETF.
Rebalance Date	The last Index Business Day of every calendar month.
Weights Determination Date	The Index Business Day immediately prior to a Rebalance Date.
Underlying ETF	The ETF as detailed under 'Index Constituent Information'.

Table 2: Index Constituents

Index Constituent	Constituent Currency	Underlying ETF	Underlying ETF Ticker
S&P 500 CA Adj TR Index	USD	iShares Core S&P 500 ETF	IVV UP Equity
MSCI USA Quality CA Adj TR Index	USD	iShares MSCI USA Quality Factor ETF	QUAL UF Equity
Russell 2000 CA Adj TR Index	USD	iShares Russell 2000 ETF	IWM UP Equity
MSCI Emerging Markets CA Adj TR Index	USD	iShares MSCI Emerging Markets ETF	EEM UP Equity
Energy Select Sector CA Adj TR Index	USD	Energy Select Sector SPDR Fund	XLE UP Equity
\$ Investment Grade Corporate Bond CA Adj TR Index	USD	iShares iBoxx \$ Investment Grade Corporate Bond ETF	LQD UP Equity
S&P 500 Low Volatility CA Adj TR Index	USD	Invesco S&P 500 Low Volatility ETF	SPLV UP Equity

Table 3: Fixed Weights

Index Constituent	Fixed Weight
S&P 500 CA Adj TR Index	10%
MSCI USA Quality CA Adj TR Index	11%
Russell 2000 CA Adj TR Index	18%
MSCI Emerging Markets CA Adj TR Index	7%
Energy Select Sector CA Adj TR Index	8%
\$ Investment Grade Corporate Bond CA Adj TR Index	24%
S&P 500 Low Volatility CA Adj TR Index	22%

Benchmark Administrator

These indices has been created by Bloomberg Index Services Limited (BISL) in its capacity as a benchmark administrator for use by BTG Pactual in products issued by BTG Pactual. Notwithstanding that the index bears the name of "BTG Pactual", BISL is the benchmark administrator and retains control over all aspects of the provision of this index.

Environmental, Social and Governance (ESG) Disclosures

This Index does not take into account any ESG factors or pursue any ESG objectives. Please refer to the [Bloomberg Multi-Asset Basket of Indices Methodology](#) for ESG disclosures.

Disclaimer

BLOOMBERG, BLOOMBERG INDICES and BTG Pactual Global Vol Target 11 Index (the "Index") are trademarks or service marks of Bloomberg Finance L.P. Bloomberg Finance L.P. and its affiliates, including Bloomberg Index Services Limited, the administrator of the Indices (collectively, "Bloomberg") or Bloomberg's licensors own all proprietary rights in the Indices. Bloomberg does not guarantee the timeliness, accuracy or completeness of any data or information relating to the Indices. Bloomberg makes no warranty, express or implied, as to the Indices or any data or values relating thereto or results to be obtained therefrom, and expressly disclaims all warranties of merchantability and fitness for a particular purpose with respect thereto. It is not possible to invest directly in an Index. Back-tested performance is not actual performance. Past performance is not an indication of future results. To the maximum extent allowed by law, Bloomberg, its licensors, and its and their respective employees, contractors, agents, suppliers and vendors shall have no liability or responsibility whatsoever for any injury or damages - whether direct, indirect, consequential, incidental, punitive or otherwise - arising in connection with the Indices or any data or values relating thereto - whether arising from their negligence or otherwise. This document constitutes the provision of factual information, rather than financial product advice. Nothing in the Indices shall constitute or be construed as an offering of financial instruments or as investment advice or investment recommendations (i.e., recommendations as to whether or not to "buy", "sell", "hold", or to enter or not to enter into any other transaction involving any specific interest or interests) by Bloomberg or a recommendation as to an investment or other strategy by Bloomberg. Data and other information available via the Indices should not be considered as information sufficient upon which to base an investment decision. All information provided by the Indices is impersonal and not tailored to the needs of any person, entity or group of persons. Bloomberg does not express an opinion on the future or expected value of any security or other interest and do not explicitly or implicitly recommend or suggest an investment strategy of any kind. Customers should consider obtaining independent advice before making any financial decisions. © 2024 Bloomberg. All rights reserved. This document and its contents may not be forwarded or redistributed without the prior consent of Bloomberg.

The BLOOMBERG TERMINAL service and Bloomberg data products (the "Services") are owned and distributed by Bloomberg Finance L.P. ("BFLP") except (i) in Argentina, Australia and certain jurisdictions in the Pacific islands, Bermuda, China, India, Japan, Korea and New Zealand, where Bloomberg L.P. and its subsidiaries distribute these products, and (ii) in Singapore and the jurisdictions serviced by Bloomberg's Singapore office, where a subsidiary of BFLP distributes these products.

Bloomberg Index Services Limited is registered in England and Wales under registered number 08934023 and has its registered office at 3 Queen Victoria Street, London, England, EC4N 4TQ. Bloomberg Index Services Limited is authorized and regulated by the Financial Conduct Authority as a benchmark administrator.

Take the next step.

For additional information,
email indexhelp@bloomberg.net
or press the <HELP> key twice
on the Bloomberg Terminal*

[bloomberg.com/indices](https://www.bloomberg.com/indices)

Beijing

+86 10 6649 7500

Dubai

+971 4 364 1000

Frankfurt

+49 69 9204 1210

Hong Kong

+852 2977 6000

London

+44 20 7330 7500

Mumbai

+91 22 6120 3600

New York

+1 212 318 2000

San Francisco

+1 415 912 2960

São Paulo

+55 11 2395 9000

Singapore

+65 6212 1000

Sydney

+61 2 9777 8600

Tokyo

+81 3 4565 8900