

MarketVector Indexes GmbH

Voltastr. 1
60486 Frankfurt am Main
Germany

Benchmark Statement

MarketVector™ Hard Asset Indexes Family

Status: 31 December 2022

MarketVector Indexes GmbH ('MarketVector™') administers among other Indexes the MarketVector™ Hard Asset Indexes family. The MarketVector™ Hard Asset Indexes are a selection of commodity related Indexes that cover potential investment themes such as Gold or Agribusiness. MarketVector™ Hard Asset Indexes follow a unique pure-play approach. Companies must generate at least 50% of their revenues from the index target to be eligible for index inclusion.

MarketVector™ has grouped its MarketVector™ Hard Assets Indexes into one family of Indexes because the MarketVector™ Hard Asset Indexes measure the same economic reality, use common input data, and are calculated according to the same methodology.

This Benchmark Statement must be read in conjunction with the MarketVector™ Global Equity Index Guide, which is available on the MarketVector™ website (www.marketvector.com).

The European Benchmark Regulation ("BMR") on indexes used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds ("Benchmark/s" or "Index/Indexes") aims to establish a common framework to ensure the accuracy and integrity of Indexes used as Benchmarks in the EU. Article 27(1) of the BMR requires index administrators to publish a Benchmark Statement for any Benchmark or, where applicable, for any family of Benchmarks if it may be used in the EU ("Benchmark Statement"). The Benchmark Statement is a document that is aimed at helping users of an Index to understand the market or economic reality that the Index or family of Indexes seeks to measure, the sources of its input data, the reliability of the index in times of market stress and its susceptibility to manipulation.

This Benchmark Statement refers to a range of documents, policies and procedures available from MarketVector™ website at www.marketvector.com or on request to info@marketvector.com.

A. Index Description of the MarketVector™ Hard Asset Index Family

Reference in BMR	Description of Requirement	MarketVector™ Reaction and Measures
General		
1 Date of publication and last update RTS* Article 1 No. 1(a)	The benchmark statement shall state the date of publication and the date of its last update.	Date of original Benchmark Statement – February 2018. Last update – December 2022
2 1.2 Review of Benchmark Statement RTS Article 1 No. 1(a)	The administrator shall review and, where necessary, update the benchmark statement for each benchmark or family of benchmarks in the event of any changes to the information to be provided under this Article and at least every two years.	MarketVector™ will review this Benchmark Statement periodically and at least once every two years or in due course, where material changes to the information herein become necessary.
3 1.3 Use of ISIN RTS Article 1 No. 1(b)	A Benchmark Statement for a family of Indexes shall include a reference to a place where the ISINs are publicly accessible free of charge.	The ISIN together with many further identifiers and index parameters is available on www.marketvector.com below the tab “Specifications/Identifiers”.

* Regulatory Technical Standards, Delegated Regulation 2018/1643

4	1.4 Contributions of input data RTS Article 1 No. 1(c)	The benchmark statement shall state whether the benchmark or at least one benchmark in the family of benchmarks is determined using contributions of input data.	The MarketVector™ Hard Asset Indexes Family does not use contributions of input data.
---	---	--	---

5	1.5 Type of Benchmark RTS Article 1 No. 1(d)	The benchmark statement shall state whether the benchmark qualifies as one of the types of benchmarks listed under Title III of the BMR.	<p>The MarketVector™ Hard Asset Indexes Family qualifies as a family of Benchmarks that consists solely of non-significant Benchmarks according to number 27 of Article 3 (1) of the BMR.</p> <p>Accordingly, the MarketVector™ Hard Asset Indexes Family does not qualify as a family of regulated-data benchmarks, interest rate Benchmarks, commodity Benchmarks, critical Benchmark, significant Benchmarks nor a variety of these.</p>
---	---	--	---

Content

6	2.1 Market reality RTS Article 1 No. 2(a), (b)	<p>In order to define the market or economic reality the Benchmark Statement shall include the following information:</p> <ul style="list-style-type: none"> - A general description of the market or economic reality; - The geographical boundaries, if any, of 	The Indexes of the MarketVector™ Hard Asset Indexes Family refer to strictly rules-based determinations of markets as described in the Index Guide for “MarketVector™ Global Equity Indexes”. Within the MarketVector™ Hard Asset Indexes Family only MVNUCL takes into account ESG factors. All other indexes within the MarketVector™ Hard Asset Indexes Family do not apply ESG factors in its selection and weighting methodology.
---	---	---	--

the market or economic reality.

1. BlueStar® Agribusiness 50
 - Currency: USD
 - Approach: Pure-Play
 - Potential market participants: Agribusiness companies.
 - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
 - Full market capitalization: 670bln USD
 - Investable market capitalization: 489bln USD
 - Number of constituents of the eligible universe: 72
 - Number of constituents of the Index: 50

2. MarketVector™ Global Uranium & Nuclear Energy Infrastructure
 - Currency: USD
 - Approach: Pure-Play
 - Potential market participants: Companies in the uranium and nuclear energy infrastructure segment.
 - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
 - Full market capitalization: 163bln USD
 - Investable market capitalization: 117bln USD
 - Number of constituents of the eligible universe: 27
 - Number of constituents of the Index: 25

3. MarketVector™ US Listed Oil Services 10% Capped
 - Currency: USD
 - Approach: Pure-Play
 - Potential market participants: US listed companies in the oil and gas upstream services segment
 - Geographical boundaries: Global exposure. Stocks must be listed on a US exchange.
 - Full market capitalization: 220bln USD
 - Investable market capitalization: 140bln USD
 - Number of constituents of the eligible universe: 40
 - Number of constituents of the Index: 25

4. MVIS® Australia Resources
 - Currency: AUD
 - Approach: Pure-Play
 - Potential market participants: Australia incorporated or active companies with an Australian listing.
 - Geographical boundaries: Must be listed in Australia and either incorporated or with significant activities there,
 - Full market capitalization: 635bln AUD
 - Investable market capitalization: 467bln AUD
 - Number of constituents of the eligible universe: 77
 - Number of constituents of the Index: 32

5. MVIS® Global Agribusiness
 - Currency: USD
 - Approach: Pure-Play
 - Potential market participants: Agribusiness companies
 - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
 - Full market capitalization: 724bln USD
 - Investable market capitalization: 518bln USD
 - Number of constituents of the eligible universe:108
 - Number of constituents of the Index: 49

 6. MVIS® Global Clean-Tech Metals
 - Currency: USD
 - Approach: Pure-Play
 - Potential market participants: Companies involved in mining, refining, and recycling of metals used in clean-energy technology
 - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
 - Full market capitalization: 597bln USD
 - Investable market capitalization: 385bln USD
 - Number of constituents of the eligible universe: 97
 - Number of constituents of the Index: 49

 7. MVIS® Global Clean-Tech Metals ex-China Index
 - Currency: USD
 - Approach: Pure-Play
 - Potential market participants: Companies involved in mining, refining, and
-

- recycling of metals used in clean-energy technology
 - Geographical boundaries: Global exposure excluding locally traded stocks in China. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
 - Full market capitalization: 493bln USD
 - Investable market capitalization:: 312bln USD
 - Number of constituents of the eligible universe: 75
Number of constituents of the Index: 36
8. MVIS® Global Junior Gold Miners
- Currency: USD
 - Approach: Pure-Play
 - Potential market participants: Companies involved in gold/silver mining, small-cap segment.
 - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
 - Full market capitalization: 114bln USD
 - Investable market capitalization: 78bln USD
 - Number of constituents of the eligible universe: 105
 - Number of constituents of the Index: 93
9. MVIS® Global Oil Refiners
- Currency: USD
 - Approach: Pure-Play
 - Potential market participants: Oil refining companies.
 - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
-

- Full market capitalization: 555bln USD
- Investable market capitalization: 304bln USD
- Number of constituents of the eligible universe: 33
- Number of constituents of the Index: 25

10. MVIS® Global Rare Earth/Strategic Metals

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in rare earth/strategic metals mining, refining and recycling.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 84bln USD
- Investable market capitalization: 61bln USD
- Number of constituents of the eligible universe: 38
- Number of constituents of the Index: 24

11. MVIS® Global Uranium & Nuclear Energy

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies in the uranium and nuclear energy segment.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 311bln USD
- Investable market capitalization: 165bln USD

- Number of constituents of the eligible universe: 29
- Number of constituents of the Index: 25

12. MVIS® North America Energy Infrastructure

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies in the energy infrastructure segment, incl. MLPs.
- Geographical boundaries: Global exposure.
- Full market capitalization: 504bln USD
- Investable market capitalization: 366bln USD
- Number of constituents of the eligible universe: 35
- Number of constituents of the Index: 29

13. MVIS® US Listed Oil Services 25

- Currency: USD
- Approach: Pure-Play
- Potential market participants: US listed companies in the oil and gas upstream services segment
- Geographical boundaries: Global exposure. Stocks must be listed on a US exchange.
- Full market capitalization: 220bln USD
- Investable market capitalization: 140bln USD
- Number of constituents of the eligible universe: 40
- Number of constituents of the Index: 25

7	2.2. Potential Limitations RTS Article 1 No.3 (a)	<p>The Benchmark Statement shall describe the potential limitations of each Index and circumstances in which the measurement of the market of economic reality may become unreliable. It shall include:</p> <ul style="list-style-type: none"> - A description of the circumstances in which the administrator would lack sufficient input data to determine the benchmark in accordance with the methodology. 	<p>There may be events outside the influence of MarketVector™ that limit the availability of relevant input data for an Index. Examples for possible events are the temporary closure of a stock exchange, measures imposed by a governmental body, central bank or regulatory or monetary authority like sanctions or the prohibition to trade certain securities.</p> <p>MarketVector™ policies and procedures consider such situations and provide for measures and steps to be taken to manage respective situations in the best interest of, on one side, the users of the relevant Index or Family of Indexes and, on the other side, the integrity of capital markets.</p> <p>The Index Guide of the relevant Index determines the kind of input data and the prices used for an Index. If a price is not available, the benchmark may cease to provide an accurate representation of the underlying economic reality because in these cases the last available closing price for the relevant constituent will be used to calculate the Index. This will also be the case if the relevant constituents continue to trade on venues that are not eligible for use by the relevant Index, or if they trade over-the counter.</p> <p>MarketVector™ will not use input data from a contributor if it has any indication that the Contributor does not adhere to its Code of Conduct for Contributors and in such a case shall obtain representative publicly available data.</p>
---	--	---	--

8	2.2 Use of discretion	The Benchmark Statement shall describe the	The MarketVector™ Hard Asset Indexes Family is administered based on strict
---	-----------------------	--	---

RTS Art. 1 No. 4

controls and rules that govern any exercise of judgement or discretion by the administrator or any contributors in calculating the Index.

rules and methodologies and allows very limited discretion of the administrator throughout the process determining the constituent of the index. No committee and/or individual has the power to exercise discretion if it comes to the selection of the components of an Index.

It shall also include an outline of each step of the process for any ex post evaluation of the use of discretion, together with a clear indication of the position of any persons responsible for carrying out the evaluations.

Only if input data are or appear to be qualitatively inferior or different sources provide different data, or a situation is not covered by the index rules, MarketVector™ may use discretion according to the following rules that apply for all of MarketVector™ Indexes.

1. As the result of plausibility check of liquidity and size data, ownership structures, revenue and asset breakdowns, corporate action information, dividends, volatility and other secondary data is or appears to be inferior or different in different data sources; or
2. A situation is not covered by the index rules (for example: The number or constituents required by the Index rules is higher than the number of constituents selected according to the Index methodology)
3. The index operations team must analyze if the decision in which it uses discretion is required, appropriate, commensurable and in line with the respective index scope and objective and does reasonably consider in a balance way the interest of users, investors in related products and the integrity of the market.
4. Any decision involving material judgement or discretion and the reasoning must be documented and, in case of material decisions, the respective documentation must be provided to the Independent Oversight Function (“IOF”), senior management and compliance for prior approval of the relevant decision.
5. In case of material decisions, the Independent Oversight Function, senior management and Compliance check if the decision reasonably weights

the different interest of the index users, the integrity of the market and other involved parties. It will also be reviewed if the suggested decision is the least disadvantageous measure that equally considers the relevant interests best.

6. In order to avoid similar individual decisions on the use of data in similar cases for the future an update of the index rules, the change of input data sources or providers and/or own data research where possible and reasonable and other possible mitigation measures will be considered.

9 Index Methodology
Change
RTS Art. 1 No.5

The Benchmark Statement shall specify the public consultation process that applies to any material changes of the Index methodology.

Significant changes and/or amendments to the methodology of an Index of the MarketVector™ Hard Asset Index family will be subject to public consultation according to a respective MarketVector™ procedure.

An intended change of the Index Methodology will only be published if the internal control and governance bodies including the relevant operations employee, senior management, the Independent Oversight Function and the Compliance Department, have approved it internally.

In case of material changes of the methodology of an Index an advance notice will be published and provided to users. MarketVector™ will generally publicly disseminate a notification related to an Index Guide change 60 days prior to the change on its Website. A shorter period may be applied at MarketVector™ discretion if the relevant Index has not been licensed to a third party. The notice will describe a clear period that gives the opportunity to analyze and comment upon the impact of such proposed material change. Any material comments received in relation to the Index Methodology change and MarketVector™'s response to those comments will be made publicly accessible after any

consultation, except where confidentiality has been requested by the originator of the comments.

B. Additional Information for MarketVector™ Indexes

This Benchmark Statement is part of the entire Index documentation and framework and therefore refers to the documents in the following table. These documents are publicly available on www.marketvector.com. You may need to register in order to get access to the documents.

Privacy Policy	The privacy policy describes how MarketVector™ deals with personal information of its customers, website visitors and other individuals.
-----------------------	--

Terms of Service	The Terms of Service define the way to register for Index Information and govern the use of Index data, the requirement to enter into licensing agreements for commercial use of the Indexes and Index data, complaints handling and other elements of the relationship with users of the website and clients.
-------------------------	--

Index Guide	The Index Guide contains the relevant definitions of all key terms relating to the Indexes (Article 27 (2) a) BMR). It also describes the Index methodology, key procedures and policies for the change of the Index Methodology and cessation of the Index, the use of discretion, the use of Input Data and the key rules for the Index calculation.
--------------------	--

Factsheet The Factsheet contains current information about Key Features, Index Data, Country and Size Weightings, Sector Weightings, Index Components and Symbols.

History The History of an Index means the historical pricing data that shows the value of the Index on a specific date in the past.

Components The Components document shows the current components of the index, incl. identifiers, prices, weighting factors, weights and the index divisor.

Review The latest Review document shows the latest changes during the last review. It shows which components were deleted or added to an Index and the weighting factors for the period until the next review is implemented.

Trading Calendar The Trading Calendar describes the non-dissemination days of the MarketVector™ Indexes for the current year.

Index Symbols The Index Symbols document shows the available Index identifiers as ISIN, Sedol, WKN, Bloomberg ticker and others.

C. Important Information and Disclaimer

© 2023 MarketVector Indexes GmbH (‘MarketVector™’). All rights reserved. The MarketVector™ family of indexes (MarketVector™, Bluestar®, MVIS®) is protected through various intellectual property rights and unfair competition and misappropriation laws. MVIS® is a registered trademark of Van Eck Associates Corporation that has been licensed to MarketVector Indexes GmbH. MarketVector™ and MarketVector Indexes™ are pending trademarks of Van Eck Associates Corporation. BlueStar®, BlueStar Indexes®, BIGI® and BIGITech® are trademarks of MarketVector Indexes GmbH.

MarketVector™ reviews this Benchmark Statement on an ongoing basis, at least once every two years. In case of material changes to the methodology of an Index MarketVector Indexes will make an appropriate and timely update of the Benchmark Statement to ensure that it remains correct, precise and complies with the current requirements of investors, Index users as well as rules and regulations.

MarketVector Indexes GmbH is authorized and regulated by the German Federal Financial Services Supervisory Agency (Bundesanstalt für Finanzdienstleistungsaufsicht, BaFin) as a benchmark administrator.

You require a license to launch any product whose performance is linked to the value of a particular MarketVector™ Index, for example, derivatives, bonds, swaps and OTC products and for all use of the MarketVector™ name or name of the MarketVector™ Index in the marketing of the product. See the [Terms of Service](#) for more information. The prices may vary depending on the product and the assets under management. The data comprised in the MarketVector™ Indexes is provided via this website, and via specialized data vendors. However, the subscription to such services does not cover the use of a MarketVector™ Index for a financial product.

Neither MarketVector Indexes GmbH (the «Company») nor any of its licensors makes any warranties or representations, express or implied, to the user with respect to the access to, and the use of its website or any of the data and documents contained therein. The data is provided for informational purposes only, and the Company shall not be responsible or liable for the accuracy, usefulness or availability of any information transmitted or made available through this website.