



Invesco Global ex-Japan ESG Rising Stars Index Methodology

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Index Overview

Description

The Invesco Global ex-Japan ESG Rising Stars Index (“the Index”) is a broad-based index that provides exposure to global developed (excluding Japan), large- and mid-capitalization equities with an emphasis on companies with an improving environmental, social and governance (ESG) profile.

Index Universe

The Index Universe includes all constituents of the Invesco Indexing Investable (III) Universe designated as developed market (excluding Japan), large- or mid-capitalization securities. For full details on the III Universe, see Invesco Indexing Investable Universe Methodology at www.InvescoIndexing.com.

Security Selection

The Index includes all constituents of the Index Universe that are ESG Trend Best-In-Class securities (see Index Details on page 5 for more information).

Securities are excluded if pricing data is not available from the Calculator (see Index Calculation and the role of the Calculation Agent on page 7).

Security Weighting

Each security in the Index is weighted proportionally to its float-adjusted market capitalization. For securities with multiple liquid share classes (as defined in the Invesco Indexing Investable Universe Methodology), the security weight is scaled up to account for all liquid shares.

The maximum weight for an Index constituent is 5% or the weight of that security in the Comparative Benchmark¹, whichever is larger. The allowable weight range of each sector in the Index is +/-5% relative to the weight of the same sector in the Comparative Benchmark. The allowable weight range of each country in the Index is +/-5% relative to the weight of the same country in the Comparative Benchmark. Notwithstanding the preceding treatment, sector and country exposure may exceed +/-5% to satisfy the maximum weight limit for individual Index constituents.

All security weighting criteria are applied on the Reference Date of an Index update (see Updates on page 6).

¹ The Comparative Benchmark is defined as a float-adjusted, market-capitalization weighted benchmark of all constituents of the III Universe designated as developed market (excluding Japan), large- or mid-capitalization securities.

History

The Index was launched on January 31, 2020. History is available for the Index since its base date of June 30, 2011. The base value of the Index is 1000.

Related Indexes

Several other related Invesco equity ESG indexes are available. Similar to the Invesco Global ex-Japan ESG Rising Stars Index, these Indexes apply ESG criteria in their security selection and/or security weighting; however, they differ in their ESG and geographical exposures. Please visit www.InvescoIndexing.com/en/indexes/equity to learn more about these related indexes.

Index Details

An ESG Trend is calculated for all securities in the III Universe as the average of the year-over-year percentage change in ESG Score² for each of the past three years. For securities with less than three years of data, all available information is used, whether the average year-over-year percentage change in ESG Score over the most recent two years, or the year-over-year percentage change in ESG Score for the most recent year.

All securities in the III Universe are ranked in descending order by ESG Trend within each Economic Region³, sector, and size category (large, mid, small). Securities that fall within the top 50% of ESG Trend by name count in each Economic Region, sector, and size category are selected. If ESG Trend scores are the same for securities surrounding the 50% cutoff, preference is given to the security with the highest recent ESG Score. If the highest recent ESG Score is also the same, preference is given to the security with the largest market capitalization.

Securities are excluded if they rank in the bottom 10% of the III Universe within Economic Region by ESG Trend or by overall ESG score. Securities are also excluded if their ESG Trend is negative or if they have a Controversy Score⁴ of 4 or 5.

The remaining securities are designated as ESG Trend Best-In-Class.

² Source: Sustainalytics. Effective with the June 2022 rebalance, the ESG Score reflects Sustainalytics' ESG Risk Rating methodology. Prior to this date, the Score reflected Sustainalytics' legacy ESG rating methodology.

³ For the definition of Economic Regions, please see the Invesco Indexing Investable Universe Methodology at www.InvescoIndexing.com.

⁴ Source: Sustainalytics. Securities with Controversy Scores of 4 or 5 are marked by high / severe environmental and societal impact coupled with significant business risk and inadequate or poor management systems.

Updates

The Index is rebalanced annually in June, while additional Index maintenance occurs in March, September, and December. June is referred to as the “Rebalance Month”, while March, September, and December are collectively referred to as “Maintenance Months”.

Index Rebalance

During the annual Index Rebalance, the Index Universe is selected, ESG Trend scores and resulting Index constituents are refreshed, and the new Index constituents are weighted according to the security weighting methodology described in the Index Overview section (see page 3). The timing of the June Index Rebalance is aligned with the annual reconstitution of the underlying III Universe. For full details on the III Universe, see Invesco Indexing Investable Universe Methodology at www.InvescoIndexing.com.

Index Maintenance

Index Maintenance is performed at non-rebalance calendar quarters to ensure that Index constituents are also members of the III Universe. During Index Maintenance, if a current Index constituent is not a member of the underlying III Universe, that security will be removed from the Index. Securities that rank in the bottom 10% of an Economic Region by overall ESG score or by ESG Trend, those that do not have a current ESG score, and those with a Controversy Score of 4 or 5 are also removed from the Index.

As with Index Rebalances, Index Maintenance is aligned with the III Universe rebalances in March, September, and December.

Index Key Dates

The key dates are as follows. The Index Review Team (see Governance on page 9) may change these dates for reasons including market holidays. Any such changes will be publicly announced with as much advance notice as possible under the circumstances. All events take place after the close.

Event	Day	Description
Reference Date	Third Friday of month prior to Rebalance Month	Data is captured for Index construction
Announcement Date	Two business days before second Friday of Rebalance Month	Summary of Index rebalance changes are announced to public
Pro-Forma Date	Second Friday of Rebalance Month	Preliminary Index weights begin to be distributed to Index subscribers
Effective Date	Third Friday of Rebalance Month	Rebalanced Index weights are finalized

Index Calculation and the Role of the Calculation Agent

The calculation agent for the Index (“the Calculator”) is S&P Dow Jones Indices. The Calculator evaluates the closing value of the Index, updates the Index at Rebalance and Maintenance Months based on constituent selections and weightings determined either by Invesco Indexing LLC or the Calculator (with appropriate oversight and review by Invesco Indexing), taking into account Corporate Events (see Corporate Events on page 8), and disseminates the values of the Index to Invesco Indexing LLC and major index data distribution partners (see Index Information and Data Dissemination on page 11).

Calculator Input Data Used and Hierarchy of Input Data

The Index is calculated using closing prices or last transacted prices of underlying constituent securities from exchanges or exchange equivalents. Should this type of data be unavailable, the Index may be calculated using quotes or evaluated data or, in case when continued availability of transacted security prices from security exchanges is suspended, the Calculator reserves the right to exercise a judgement call, including carrying forward the latest available closing price.

Use of Discretion and/or Expert Judgement

No discretion or expert judgement is exercised by Invesco Indexing LLC in the determination of daily index pricing. Rules-based index methodologies, which cover index construction, maintenance and calculation, provide that discretion is not used in the daily pricing of the indexes except in unusual cases not effectively addressed by the methodology, which could be exercised by the Calculator. These include, but may not be limited to:

- Corporate events not previously encountered,
- Structural changes to the underlying markets,
- Operational issues at security exchanges,
- Geo-political events,
- Technological problems / failures, or
- Natural disaster or other business continuity process-related event.

In such circumstances, the calculating agent will inform Invesco Indexing LLC of any discretion being used.

Potential Limitations of the Methodology and Benchmark Calculation

The potential limitations of daily Index calculation include circumstances where the prices of constituent elements of the Index are not available, either because there are insufficient participants or because the exchange(s) / exchange equivalent(s) suffers an unexpected outage or closure or Invesco and/or the Calculator is denied permission to use such data for determining the Index. In such circumstances an announcement will be made to notify clients, including whether the Index will not be published or delayed in publication.

Corporate Events

The Calculator identifies and adjusts for corporate events based on the following policy.

Corporate Events	Index Adjustments
Rights Offer	The spot price of the underlying security will be adjusted and the shares will be increased with respect to rights offering ratio for in the money offers
Spin-Off	Spin-off stock is added to the Index after market close of ex-date at zero weight. Parent and spin-off will split the original weight proportional to market cap on first day of trading
Share Acquisition	The acquired company is deleted from the Index. The shares and weight of the acquirer will be adjusted with respect to the stock terms of the acquisition
Share changes	Index shares of affected stock increase/decrease
Addition	Except for spin-offs, there are no intra-rebalancing additions
Deletion	Delisting, acquisition or any other corporate event resulting in the deletion of the stock from the Index causes the weight of the rest of the stocks in the Index to change. Relative weights stay the same

As mentioned above in the Index Calculation and the Role of the Calculation Agent section, the Calculator manages corporate events for this Index using its standard corporate event framework and its divisor index methodology.

Index Policy

All Index constituents are evaluated daily for data needed to calculate Index levels and returns. The Index follows the general Index policies of the Calculator as described below.

Announcements

All events affecting the daily Index calculation are typically announced in advance via the Index Corporate Events report (.SDE) delivered daily via FTP to all clients. Any unusual treatment of corporate events or short notice of an event may be communicated via email to Index clients. Best efforts are made to announce any changes to Index methodology well ahead of time via the Invesco Indexing website and via email to all Index clients.

Pro-Forma Files

Invesco Indexing provides constituent pro-forma files (PRO.SDC) each time the Index rebalances. The pro-forma file is typically provided daily in advance of the rebalancing date and contains all constituents and their corresponding weights effective for the upcoming rebalancing. The actual weight of each security at the Index rebalance typically differs from the pro-forma weights due to market movements.

Holiday Schedule

The Index is calculated daily, throughout the calendar year. The only days the Index is not calculated are on days when all exchanges where the Index's constituents are listed are officially closed.

Governance

The Index is managed by the Index Review Team (IRT). The IRT consists solely of members of Invesco Indexing. The IRT meets at least annually to review and revise Index methodology described in this document as appropriate. The IRT meets at least annually to review additions and deletions to the Index. All changes to the Index on Rebalance and Maintenance Months are subject to the approval of the IRT, and the IRT may make adjustments to the Index at its discretion when such changes are reasonable.

Index Methodology Update and Cessation Policy

Invesco Indexing periodically, at least annually, reviews each Index and its accompanying methodology, in addition to periodic rebalancing (if applicable), in an effort to ensure the Index continues to accurately represent that portion of the market it was originally intended to, and delivers the outcomes one would expect from the Index's exposures.

The procedures for the internal review of the methodologies, changes to the methodologies and procedures performed when the Index administered is ceasing publication are described in detail in the Changes to Benchmark Methodology and Cessation Policy.

Return Types and Tickers

The Calculator computes three return types for the Index on a daily basis: price return, total return, and net total return. Each return type is computed for the Index with a base currency of Japanese yen (JPY). The total return Index assumes dividends are reinvested in the Index after the close on the ex-date. The net total return Index reflects the return for which dividends are reinvested after the deduction of withholding tax. The tax rate applied is the rate to non-resident institutions that do not benefit from double taxation treaties.

Return Type	Ticker
Price Return	IIGKUP
Total Return	IIGKUPT
Net Total Return	IIGKUPN

Index Information and Data Dissemination

Data Vendors

Daily Index levels for all return types are available from major quote vendors and at www.InvescoIndexing.com. Intraday Index levels are available for the price return Index only.

FTP

Daily constituent data and Index level data are available via the Invesco Indexing secure FTP site for Index subscribers. Please contact Invesco Indexing customer service at IndexSupport@invesco.com for more information.

File Types

The Invesco Indexing secure FTP site for Index subscribers will distribute the standard overnight Index files from the Calculator. These include:

File Description	File Extension
Index Levels	.SDL
Constituent Details Close	CLS.SDC
Constituent Details Adjusted Close	ADJ.SDC
Constituent Details Pro-forma	PRO.SDC
Corporate Events	.SDE

The data on these files is provided directly by the Calculator, and no descriptive information contained in these files is used by Invesco Indexing at any stage of the Index creation process. In addition, security characteristics are available upon request. The characteristics are created by Invesco Indexing periodically and are updated as necessary. The characteristics data contribute to the creation of the Index or otherwise help to describe the Index constituents. These data include sector, country, region, size classification and developed/emerging classification. Please contact Invesco Indexing customer service at IndexSupport@invesco.com for more information.

Website

Index information is available on the Invesco Indexing website at www.InvescoIndexing.com.

Definitions of Key Terms

Terms used in this document but not otherwise defined are defined in the following table. Definitions, that are marked with a (*) are sourced from Regulation (EU) 2016/1011 ("EU Benchmark Regulation") Article 3. Definitions, that are marked with a (**) are sourced from IOSCO Principles for Financial Benchmarks⁵.

Term	Definition
Administrator *	'Administrator' means a natural or legal person that has control over the provision of a benchmark;
Benchmark *	'Benchmark' means any index by reference to which the amount payable under a financial instrument or a financial contract, or the value of a financial instrument, is determined, or an index that is used to measure the performance of an investment fund with the purpose of tracking the return of such index or of defining the asset allocation of a portfolio or of computing the performance fees;
Calculation Agent **	A legal entity with delegated responsibility for determining a Benchmark through the application of a formula or other method of calculating the information or expressions of opinions provided for that purpose, in accordance with the Methodology set out by the Administrator;
Contribution of Input Data *	'Contribution of input data' means providing any input data not readily available to an administrator, or to another person for the purposes of passing to an administrator, that is required in connection with the determination of a benchmark, and is provided for that purpose.
Corporate Action	A Corporate Action occurs when there is a change to a company's capital structure. Unlike Corporate Events, Corporate Actions have a prescribed ex-date. The share price will be subject to an adjustment on the ex-date and Invesco Indexing and/or the calculating agent will adjust the index to counteract the effect that the price change would otherwise have on the index. Examples of corporate actions include rights or entitlement issues, consolidations, stock splits and capital repayments.
Expert Judgment *	'Expert judgement' means the exercise of discretion by an administrator or a contributor with respect to the use of data in determining a benchmark, including extrapolating values from prior or related transactions, adjusting values for factors that might influence the quality of data such as market events or impairment of a buyer or seller's credit quality, and weighting firm bids or offers greater than a particular concluded transaction;
Index*	'Index' means any figure: (a) that is published or made available to the public; (b) that is regularly determined: (i) entirely or partially by the application of a formula or any other method of calculation, or by an assessment; and (ii) on the basis of the value of one or more underlying assets or prices, including estimated prices, actual or estimated interest rates, quotes and committed quotes, or other values or surveys;
Input Data *	'Input data' means the data in respect of the value of one or more underlying assets, or prices, including estimated prices, quotes, committed quotes or other values, used by an administrator to determine a benchmark;
Material Change to Methodology	In determining whether a change to an Index is material, the following factors shall be taken into account: <ul style="list-style-type: none"> • Economic impact of the change; • Whether the change affects the original purpose of the Index.
Methodology **	The written rules and procedures according to which information is collected and the Benchmark is determined;
Rebalance	The regular process (typically quarterly, semi-annually or annually) in which the eligibility and weights of constituent elements of indexes are reassessed;
Subscriber **	A person or entity that purchases Benchmark determination services from an Administrator;
Transaction Data *	'Transaction data' means observable prices, rates, indices or values representing transactions between unaffiliated counterparties in an active market subject to competitive supply and demand forces;

⁵ <http://www.iosco.org/library/pubdocs/pdf/IOSCOPD415.pdf>

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