S&P Dow Jones Indices

A Division of S&P Global

S&P Pan Asia Dividend Aristocrats Methodology

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Introduction

Index Objective and Highlights

The S&P Pan Asia Dividend Aristocrats Index measures the performance of the highest dividend yielding companies within the S&P Pan Asia Broad Market Index (BMI) that have followed a managed-dividends policy of increasing dividends for at least seven consecutive years, with a one year constant dividend growth buffer. Constituents are indicated annualized dividend yield weighted, subject to the diversification constraints detailed in *Index Construction*.

The index aims to achieve a balance between high dividend yield and dividend sustainability and growth. It incorporates criteria on dividend payout ratio and maximum indicated annualized dividend yield, to exclude companies whose future dividend payout may be considered potentially less sustainable.

Supporting Documents

This methodology is meant to be read in conjunction with supporting documents providing greater detail with respect to the policies, procedures and calculations described herein. References throughout the methodology direct the reader to the relevant supporting document for further information on a specific topic. The list of the main supplemental documents for this methodology and the hyperlinks to those documents is as follows:

Supporting Document	URL
S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology	Equity Indices Policies & Practices
S&P Dow Jones Indices' Index Mathematics	Index Mathematics Methodology
Methodology	Index Mathematics Methodology
S&P Dow Jones Indices' Global Industry Classification Standard (GICS) Methodology	GICS Methodology

This methodology was created by S&P Dow Jones Indices to achieve the aforementioned objective of measuring the underlying interest of each index governed by this methodology document. Any changes to or deviations from this methodology are made in the sole judgment and discretion of S&P Dow Jones Indices so that the index continues to achieve its objective.

Eligibility Criteria

Index Universe

To qualify for index inclusion, a stock must first be a constituent of the S&P Pan Asia BMI (the Index Universe).

For information on the S&P Pan Asia BMI eligibility criteria, please refer to the S&P Global BMI, S&P/IFCI Methodology available at www.spdi.com.

Eligibility Factors

Stocks in the index universe must, as of the rebalancing reference date, satisfy the following to be eligible for index inclusion:

Market Capitalization. Have a float-adjusted market capitalization (FMC) of at least US\$ 1 billion (US\$ 800 million for current constituents).

Liquidity. Have a median daily value traded (MDVT) of at least US\$ 3 million (US\$ 2.4 million for current constituents) for the three-months prior to the rebalancing reference date.

Stock Class. Be common and ordinary shares. Preferred stocks are not eligible (including preferred shares from South Korea).

Listing Venues. All local listings are eligible. However, companies domiciled in India will have their local listing included in the index only if they have an ADR or GDR listing trading in a developed market and both the local and DR stocks meet the liquidity criteria detailed above.

All mainland Chinese-trading stocks are excluded from the index. However, any Hong-Kong listed shares included in the index universe are eligible for inclusion.

Multiple Share Classes. Each company is represented once by the listing with the highest dividend yield, subject to meeting the eligibility criteria. In the event multiple lines meet the eligibility criteria and have similar dividend yields, the Designated Listing is selected.

For more information regarding the treatment of multiple share classes, please refer to Approach C within the Multiple Share Classes section of S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Stability Criteria

Dividend Growth. Stocks must have increased total dividend per share amount every year for at least seven consecutive years, subject to the following:

- Current constituents maintaining a constant total dividend per share amount over the last two
 years remain eligible for index inclusion provided they meet the other eligibility criteria.
- However, if current constituents have more than 2 years of constant dividend, the stock is excluded from the index.

A dividend initiation or re-initiation does not count as a dividend increase.

For spin-offs, the yearly dividend increase history of the parent company is assigned to both the parent and spun-off company on the spin-off effective date. To determine annual dividend payments, the dividends of the parent and spun-off companies are combined until a full annual cycle of dividend payments is available for both post-spin-off companies. Subsequent dividend comparisons are based on the annual dividend amounts of each respective company.

In situations where a dividend payment, or payments, deviates from the company's standard dividend payment cycle, S&P Dow Jones Indices will, at its discretion, allocate payments to the appropriate year in order to take a full cycle into account.

Payout Ratio. Stocks must have a non-negative dividend payout ratio up to a maximum of 100% for addition to the index. Current index constituents remain eligible for index inclusion if they have a non-negative dividend payout ratio. A dividend payout ratio is considered negative when the annual Earnings Per Share (EPS) is negative.

The dividend payout ratio is calculated as the annual Dividend Per Share divided by the annual Earnings Per Share, using data from the last 12 months as of the rebalancing reference date (the last business day of December).

Dividend Yield. Stocks must have a maximum 10% indicated annualized dividend yield as of the rebalancing reference date. The cap aims to exclude companies whose dividends may not be sustainable over time, as well as companies whose stock prices have deteriorated rapidly.

Dividend Payment Types

S&P Dow Jones Indices only considers cash dividend payments declared as regular by the paying company for index eligibility, selection, and weighting purposes. Cash dividend payments declared as special by the paying company, including recurring special cash dividends, are not considered. For both eligibility and weighting purposes, annualized cash dividend amounts, before withholding tax, are used. Annualized declared dividends of Australian companies do not reflect franking credits.

Index Construction

Constituent Selection

At each annual reconstitution, all eligible stocks are selected and form the index, subject to the *Stock Diversification Rule*.

Stock Diversification Rule. At each reconstitution the index must have a minimum of 40, and a maximum of 100, index constituents.

If the number of eligible stocks is less than 40, then:

- The minimum FMC is relaxed from US\$1 billion to US\$500 million. Index universe stocks with an FMC of at least US\$500 million, that also satisfy all other index eligibility criteria, are added in decreasing order of dividend yield until the minimum constituent count is met.
- If there are still not 40 eligible stocks, index universe stocks with a history of increased or stable dividends for more than seven consecutive years, also satisfying all other index eligibility criteria, are added in decreasing order of dividend yield until there are 40 eligible stocks.

If the number of eligible stocks exceeds 100, stocks are ranked based on indicated annualized dividend yield as of the rebalancing reference date. The top 100 highest ranking stocks are selected.

Constituent Weightings

Constituents are weighted by indicated annualized dividend yield, subject to the following:

- 1. If any single stock weight is greater than 5%, the stock is capped at 5% and any excess weight is proportionally redistributed to all uncapped stocks.
- 2. After this redistribution, if any single country weight is greater than 30%, the country is capped at 30% and any excess weight is proportionally redistributed to all uncapped countries.
- 3. After this redistribution, if the weight of any GICS Sector is greater than 30%, the sector is capped at 30% and any excess weight is proportionally redistributed to all uncapped sectors.
- 4. Steps 1, 2, and 3 are repeated iteratively until no stock, country, and sector breaches the respective weight caps.

For more information on GICS, please refer to S&P Dow Jones Indices' Global Industry Classification Standard (GICS) Methodology.

Index Calculations

The index is calculated by means of the divisor method used for all S&P Dow Jones equity indices.

For more information on the index calculation methodology, please refer to the Non-Market Capitalization Weighted Indices section of S&P Dow Jones Indices' Index Mathematics Methodology.

Index Maintenance

Rebalancing

Annual Reconstitution. The index is fully reconstituted annually, effective after the close of business on the last trading date of January. The reference date for the data used in the review is the last business day of December. At this reconstitution, an updated universe is used and all stocks are screened for all eligibility criteria.

Semi-Annual Review. In addition to the annual reconstitution and monthly dividend review (defined below), the index also undergoes a secondary review in July to ensure that the constituent weighting criteria are being adhered to. If, as of the reference date, weights require realignment the excess weight is redistributed among other stocks based on current constituent weights and become effective after the close of the last trading date of July. The reference date is the last business day of June.

Additions and Deletions

Additions. With the exception of spin-offs, no additions are made to the index between annual reconstitutions.

Deletions. Index constituents are removed from the index between reconstitutions if the stock is removed from the index universe due to corporate events such as mergers, acquisitions, takeovers or delisting.

Monthly Dividend Review

Index constituents are reviewed on a monthly basis for ongoing eligibility. For more information regarding the monthly dividend review, please refer to Approach A in the Monthly Review for Ongoing Eligibility in Dividend Focused Indices section of S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Currency of Calculation and Additional Index Return Series

The index is calculated in real-time in U.S. dollars. Underlying local currency prices are collected and are converted to U.S. dollars using real-time spot exchange rates sourced from an established market information vendor. The daily index closing values are calculated in U.S. dollars and euros.

WM/Refinitiv foreign exchange rates are taken daily at 4:00 PM London time and used in the calculation of the indices. These mid-market fixings are calculated by the WM Company based on Refinitiv data and appear on Refinitiv pages WMRA.

In addition to the indices detailed in this methodology, additional return series versions of the indices may be available, including, but not limited to: currency, currency hedged, decrement, fair value, inverse, leveraged, and risk control versions. For a list of available indices, please refer to the S&P DJI
Methodology & Regulatory Status Database.

For information on various index calculations, please refer to S&P Dow Jones Indices' Index Mathematics Methodology.

For the inputs necessary to calculate certain types of indices, including decrement, dynamic hedged, fair value, and risk control indices, please refer to the Parameters documents available at www.spdii.com.

Corporate Actions

Corporate Action	Adjustment Made to Index	Divisor Adjustment?
Rights Offering	The price is adjusted to the Price of the Parent Company minus (the Price of the Rights Offering/Rights Ratio). Index shares changes o that the company's weight remains the same as its weight before the rights offering.	No
Stock Dividend, Stock Split, Reverse Stock Split	Index shares are multiplied by and price is divided by the split factor.	No
Share Issuance, Share Repurchase, Equity Offering or Warrant Conversion	None.	No
Special Dividends	Price of the stock making the special dividend payment is reduced by the per share special dividend amount after the close of trading on the day before the dividend ex-date.	Yes
Constituent Change	There are no intra-rebalancing additions except for spin-offs.	-
	Deletions due to delistings, acquisition or any other corporate event resulting in the deletion of the stock from the index causes the weights of the rest of the stocks in the index to change. Relative weights stay the same.	Yes
Spin-off	In general, both the parent and spin-off companies remain in the index subsequent index rebalancing, provided that each gives an indication and/or initiate a consistent dividend paying policy.	

For more information on corporate actions, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Base Date and History Availability

Index history availability, base date, and base value for both the price return and total return series are shown in the table below.

		First Value		Base
Index	Date	Date	Base Date	Value
S&P Pan Asia Dividend Aristocrats	04/14/2009	12/21/2001	12/21/2001	1000

Index Data

Calculation Return Types

S&P Dow Jones Indices calculates multiple return types which vary based on the treatment of regular cash dividends. The classification of regular cash dividends is determined by S&P Dow Jones Indices.

- Price Return (PR) versions are calculated without adjustments for regular cash dividends.
- Gross Total Return (TR) versions reinvest regular cash dividends at the close on the ex-date without consideration for withholding taxes.
- Net Total Return (NTR) versions, if available, reinvest regular cash dividends at the close on the ex-date after the deduction of applicable withholding taxes.

In the event there are no regular cash dividends on the ex-date, the daily performance of all three indices will be identical.

For a complete list of indices available, please refer to the daily index levels file (".SDL").

For more information on the classification of regular versus special cash dividends as well as the tax rates used in the calculation of net return, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

For more information on the calculation of return types, please refer to S&P Dow Jones Indices' Index Mathematics Methodology.

Index Governance

Index Committee

An S&P Dow Jones Indices' Index Committee maintains the index. At each meeting, the Index Committee reviews pending corporate actions that may affect index constituents, statistics comparing the composition of the index to the market, companies that are being considered as candidates for addition to the index, and any significant market events. In addition, the Index Committee may revise index policy covering rules for selecting companies, treatment of dividends, share counts or other matters.

S&P Dow Jones Indices considers information about changes to its indices and related matters to be potentially market moving and material. Therefore, all Index Committee discussions are confidential.

S&P Dow Jones Indices' Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

For information on Quality Assurance and Internal Reviews of Methodology, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Index Policy

Announcements

All index constituents are evaluated daily for data needed to calculate index levels and returns. All events affecting the daily index calculation are typically announced in advance via the Index Corporate Events report (.SDE), delivered daily to all clients. Any unusual treatment of a corporate action or short notice of an event may be communicated via email to clients.

For more information, please refer to the Announcements section of S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Pro-forma Files

In addition to the corporate events file (.SDE), S&P Dow Jones Indices provides constituent pro-forma files each time the index rebalances. The pro-forma file is typically provided in advance of the rebalancing date and contains all constituents and their corresponding weights and index shares effective for the upcoming rebalancing. Since index shares are assigned based on prices seven business days prior to the rebalancing, the actual weight of each stock at the rebalancing differs from these weights due to market movements.

Please visit <u>www.spdji.com</u> for a complete schedule of rebalancing timelines and pro-forma delivery times.

Holiday Schedule

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

A complete holiday schedule for the year is available at www.spdii.com.

Rebalancing

The Index Committee may change the date of a given rebalancing for reasons including market holidays occurring on or around the scheduled rebalancing date. Any such change will be announced with proper advance notice where possible.

Unexpected Market Closures

For information on Unexpected Exchange Closures, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Recalculation Policy

For information on the recalculation policy, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

For information on Calculations and Pricing Disruptions, Expert Judgment and Data Hierarchy, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Contact Information

For questions regarding an index, please contact: index_services@spglobal.com.

Index Dissemination

Index levels are available through S&P Dow Jones Indices' Web site at www.spdji.com, major quote vendors (see codes below), numerous investment-oriented Web sites, and various print and electronic media.

Tickers

The table below lists headline indices covered by this document. All versions of the below indices that may exist are also covered by this document. Please refer to the S&P DJI Methodology & Regulatory Status Database for a complete list of indices covered by this document.

Index (Currency)	Return Type	Bloomberg	RIC
	Price Return	SPDGPAUP	.SPDGPAUP
S&P Pan Asia Dividend Aristocrats (USD)	Total Return	SPDGPAUT	.SPDGPAUT
· ·	Net Total Return	SPDGPAUN	.SPDGPAUN
	Price Return	SPDGPAEP	
S&P Pan Asia Dividend Aristocrats (EUR)	Total Return	SPDGPAET	
· ·	Net Total Return	SPDGPAEN	

Index Data

Daily constituent and index level data are available via subscription.

For product information, please contact S&P Dow Jones Indices, www.spdii.com/contact-us.

Web site

For further information, please refer to S&P Dow Jones Indices' Web site at www.spdji.com.

Appendix I

Methodology Changes

Methodology changes since January 1, 2015 are as follows:

	Effective Date	Methodology	
Change	(After Close)	Previous	Updated
Monthly Dividend Review	02/19/2021	S&P Dow Jones Indices reviews index constituents on a monthly basis. If S&P Dow Jones Indices determines that an index constituent has eliminated or suspended its dividend, omitted a payment, or reduced its calendar year dividend amount and its new yield is significantly lower than the lowest yielding constituent and will no longer qualify for the index at the subsequent reconstitution, it will be removed from the index effective prior to the open of the first business day of the following month.	Index constituents are reviewed on a monthly basis for ongoing eligibility. For more information regarding the monthly dividend review, please refer to Approach A in the Monthly Review for Ongoing Eligibility in Dividend Focused Indices section of S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.
Monthly Dividend Review	04/19/2019	S&P Dow Jones Indices reviews index constituents on a monthly basis. If S&P Dow Jones Indices determines an index constituent has eliminated, suspended its dividend or omitted a payment, it will be removed from the Index effective prior to the open of the first business day of the following month. In addition, constituent stocks are reviewed on a monthly basis for dividend cuts. Constituent stocks may, at the discretion of the Index Committee, be removed effective prior to the open of the first business day of the following month if the constituent company lowers but does not eliminate its dividend, and its new yield is significantly lower than the lowest yielding constituent and the index committee can determine based on current information that the company will not qualify for inclusion at the next reconstitution. The determination of qualifying for the index at the subsequent annual reconstitution is done at the discretion of the Index Committee. The decision to remove an index constituent due to dividend elimination, suspension, omission, or reduction is based on information publicly announced by the company as of five business days prior to month-end. The index constituents removed as part of the monthly dividend review process are not replaced until the following annual reconstitution.	S&P Dow Jones Indices reviews index constituents on a monthly basis. If S&P Dow Jones Indices determines that an index constituent has eliminated or suspended its dividend, omitted a payment, or reduced its calendar year dividend amount and its new yield is significantly lower than the lowest yielding constituent and will no longer qualify for the index at the subsequent reconstitution, it will be removed from the index effective prior to the open of the first business day of the following month and not replaced until the following reconstitution. Any changes are announced five business days prior to month-end. The determination of qualifying for the index at the subsequent reconstitution is at the discretion of the Index Committee. The decision to remove an index constituent due to dividend elimination, suspension, omission, or reduction is based on information publicly announced by the company as of seven business days prior to month-end.
Monthly Dividend Review	07/31/2018		S&P Dow Jones Indices reviews index constituents on a monthly basis. If S&P Dow Jones Indices determines an index
			constituent has eliminated, suspended its dividend or omitted a payment, it will be

	Effective Date	Metho	dology
Change	Effective Date (After Close)	Metho Previous	removed from the Index effective prior to the open of the first business day of the following month. In addition, constituent stocks are reviewed on a monthly basis for dividend cuts. Constituent stocks may, at the discretion of the Index Committee, be removed effective prior to the open of the first business day of the following month if the constituent company lowers but does not eliminate its dividend, and its new yield is significantly lower than the lowest yielding constituent and the index committee can determine based on current information that the company will not qualify for inclusion at the next reconstitution. The determination of qualifying for the index at the subsequent annual
	04 104 10040		reconstitution is done at the discretion of the Index Committee. The decision to remove an index constituent due to dividend elimination, suspension, omission, or reduction is based on information publicly announced by the company as of five business days prior to month-end. The index constituents removed as part of the monthly dividend review process are not replaced until the following annual reconstitution.
Consideration of Recurring Special Cash Dividends for Eligibility, Selection, and Weighting Purposes	01/31/2018	Recurring special cash dividends that S&P Dow Jones Indices considers to be part of the normal payment pattern established by the company are considered regular for eligibility, selection, and weighting purposes.	S&P Dow Jones Indices only considers cash dividend payments declared as regular by the paying company for index eligibility, selection, and weighting purposes. Cash dividend payments declared as special by the paying company, including recurring special cash dividends, are not considered.
Stock Replacement	09/25/2017	Any index constituent which has omitted its most recent dividend is removed and replaced with the eligible stock with the highest indicated dividend yield.	Any index constituent which has omitted its most recent dividend is removed from the index. Index constituents removed between annual rebalancings are not replaced.
Liquidity Criteria	01/31/2017	Stocks must have an average daily value traded (ADVT) of at least US\$ 3 million for the three-months prior to the rebalancing reference date. Current index constituents with an ADVT of at least US\$ 2.4 million remain eligible for index inclusion provided they meet the other eligibility criteria.	Stocks must have a median daily value traded (MDVT) of at least US\$ 3 million for the three-months prior to the rebalancing reference date. Current index constituents with an MDVT of at least US\$ 2.4 million remain eligible for index inclusion provided they meet the other eligibility criteria.
Payout Ratio	01/31/2017	The dividend payout ratio is calculated as the annual Dividend Per Share divided by the annual Earnings Per Share, using each company's most recent fiscal year as of the rebalancing reference date	The dividend payout ratio is calculated as the annual Dividend Per Share divided by the annual Earnings Per Share, using data from the last twelve months as of the rebalancing reference date
Addition of Market Capitalization Buffer	01/31/2017		Current index constituents with a market capitalization of at least US\$ 0.8 billion remain eligible for index inclusion provided they meet the other eligibility criteria.
Addition of Liquidity Buffer	01/31/2017		Current index constituents with an MDVT of at least US\$ 2.4 million remain eligible for index inclusion provided they meet the other eligibility criteria.

	Effective Date	Metho	dology
Change	(After Close)	Previous	Updated
Addition of Dividend Growth Buffer	01/31/2017	-	Current index constituents that have paid constant dividends over the last two years remain eligible for index inclusion provided they meet the other eligibility criteria.
Treatment of Spinoffs	09/30/2015	There was no divisor adjustment.	Based on different spin-off scenarios, there may be a divisor adjustment. For further information, please refer to the Treatment of Spin-offs in S&P Dow Jones Indices' Equity Indices Policies & Practices document located on our Web Site, www.spdji.com .

Appendix II

EU Required ESG Disclosures

Ξ	EXPLANATION OF HOW ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY ¹		
1.	Name of the benchmark administrator.	S&P Dow Jones Indices LLC.	
2.	Underlying asset class of the ESG benchmark. ²	N/A	
3.	Name of the S&P Dow Jones Indices benchmark or family of benchmarks.	S&P DJI Equity Indices Benchmark Statement	
4. Do any of the indices maintained by this methodology take into account ESG factors?		No	
Ap	pendix latest update:	January 2021	
Appendix first publication:		January 2021	

¹ The information contained in this Appendix is intended to meet the requirements of the European Union Commission Delegated Regulation (EU) 2020/1817 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the minimum content of the explanation of how environmental, social and governance factors are reflected in the benchmark methodology.

methodology.

The 'underlying assets' are defined in European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.

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