

# FTSE Developed Asia Pacific Minimum Variance Indices

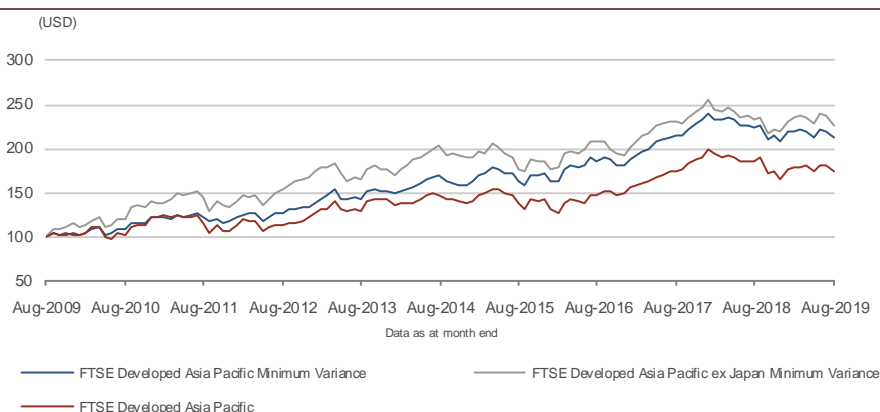
Data as at: 30 August 2019

The FTSE Global Minimum Variance Index Series aims to deliver reduced index volatility based on historical return information, thereby offering potential improvements to the risk reward trade-off, whilst maintaining full allocation to the relevant equity market.

Reduced volatility is achieved by applying a transparent rules-based approach which minimizes historical variance subject to additional constraints on the weight of individual stocks within an index, and, at aggregate level on the weight of countries and industries represented in the index.

Constituents are selected from the corresponding underlying universe of the FTSE All-World Index Series at the time of the bi-annual review and aspects such as index reviews and company classification are governed by the FTSE All-World Index Series Ground Rules.

## 10-Year Performance - Total Return



## Performance and Volatility - Total Return

Index (USD)	Return %						Return pa %*		Volatility %**		
	3M	6M	YTD	12M	3YR	5YR	3YR	5YR	1YR	3YR	5YR
FTSE Developed Asia Pacific Minimum Variance	-0.2	-3.4	1.9	-4.6	14.9	25.7	4.8	4.7	10.2	9.9	10.6
FTSE Developed Asia Pacific ex Japan Minimum Variance	-1.0	-3.3	3.6	-3.0	9.1	11.1	2.9	2.1	9.4	10.0	11.8
FTSE Developed Asia Pacific	1.1	-1.7	6.0	-5.7	18.5	18.4	5.8	3.4	13.6	12.0	12.6

\* Compound annual returns measured over 3 and 5 years respectively

\*\* Volatility – 1YR based on 12 months daily data. 3YR based on weekly data (Wednesday to Wednesday). 5YR based on monthly data

## Year-on-Year Performance - Total Return

Index % (USD)	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
FTSE Developed Asia Pacific Minimum Variance	23.3	18.9	-4.1	14.5	13.0	4.2	8.8	5.6	28.3	-10.0
FTSE Developed Asia Pacific ex Japan Minimum Variance	62.7	21.8	-5.1	26.1	4.6	8.0	-2.0	3.9	28.2	-11.6
FTSE Developed Asia Pacific	27.6	17.6	-13.2	16.3	15.7	-3.2	2.8	5.2	28.3	-13.4

## FEATURES

### Methodology

The approach applies a rules-based strategy to minimise volatility. Some constraints are applied, for example, to avoid over concentration in any particular stock, sector or country.

### Objective

The indices are designed for the creation of index tracking funds, derivatives and as a performance benchmark.

### Investability

Stocks in the underlying universe are free-float weighted to ensure that only the investable opportunity set is included.

### Liquidity

Stocks in the underlying universe are screened to ensure that the indices are tradable.

### Transparency

Index rules are freely available on the FTSE website.

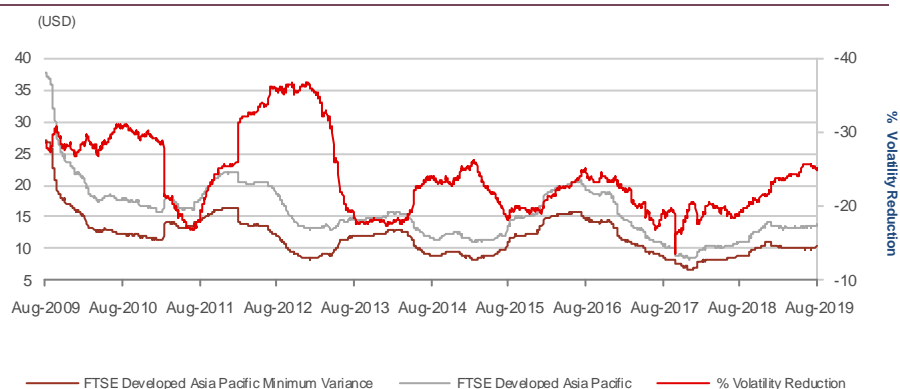
### Availability

The indices are calculated based on price and total return methodologies, both real time and end-of-day.

### Industry Classification Benchmark

Index constituents are categorized in accordance with the Industry Classification Benchmark (ICB), the global standard for industry sector analysis.

## Annualised Rolling 252 Volatility - Total Return



## Top 10 Constituents - FTSE Developed Asia Pacific Minimum Variance Index

Constituent	Country	ICB Sector	FTSE Developed Asia Pacific Minimum Variance (Wgt %)	FTSE Developed Asia Pacific (Wgt %)	Diff %
Mercury NZ	New Zealand	Electricity	0.71	0.04	0.67
Skylark Holdings	Japan	Travel & Leisure	0.70	0.05	0.64
Meridian Energy	New Zealand	Electricity	0.69	0.06	0.63
Contact Energy	New Zealand	Electricity	0.65	0.06	0.59
Mapletree Commercial Trust	Singapore	Real Estate Investment Trusts	0.64	0.05	0.59
Newcrest Mining	Australia	Mining	0.60	0.32	0.28
NEC	Japan	Technology Hardware & Equipment	0.57	0.18	0.39
Evolution Mining	Australia	Mining	0.56	0.06	0.50
Northern Star Resources	Australia	Mining	0.56	0.08	0.47
Kiwi Property Group	New Zealand	Real Estate Investment Trusts	0.50	0.02	0.48
<b>Totals</b>			<b>6.18</b>	<b>0.92</b>	

## Country Breakdown

Country	FTSE Developed Asia Pacific Minimum Variance		FTSE Developed Asia Pacific		Diff %
	No. of Cons	Wgt %	No. of Cons	Wgt %	
Australia	74	15.42	97	17.17	-1.74
Hong Kong	69	13.99	91	8.99	5.00
Japan	307	48.42	512	59.87	-11.45
Korea	70	8.25	137	10.13	-1.88
New Zealand	11	5.06	12	0.72	4.34
Singapore	35	8.86	37	3.12	5.74
<b>Totals</b>	<b>566</b>	<b>100.00</b>	<b>886</b>	<b>100.00</b>	

## INFORMATION

## Index Universe

FTSE Developed Asia Pacific Index

## Index Launch

July 2012

## Base Date

18 June 2012

## Base Value

100

## Investability Screen

Actual free float applied and liquidity screened

## Index Calculation

Real time and end of day

## End-of-Day Distribution

Via FTP and email

## Currency

USD, Euro, GBP, JPY, AUD, Local

## Review Dates

March and September

## History

Available from September 2001

## ICB Supersector Breakdown

ICB Code	ICB Supersector	FTSE Developed Asia Pacific Minimum Variance		FTSE Developed Asia Pacific		Diff %
		No. of Cons	Wgt %	No. of Cons	Wgt %	
0500	Oil & Gas	11	1.71	17	1.68	0.04
1300	Chemicals	16	1.75	44	3.16	-1.40
1700	Basic Resources	15	2.80	31	3.58	-0.78
2300	Construction & Materials	26	3.33	44	2.44	0.89
2700	Industrial Goods & Services	73	12.79	149	15.00	-2.20
3300	Automobiles & Parts	23	2.58	43	6.90	-4.33
3500	Food & Beverage	47	8.35	53	3.15	5.20
3700	Personal & Household Goods	37	5.86	61	7.14	-1.28
4500	Health Care	39	5.79	52	7.76	-1.97
5300	Retail	49	9.09	60	4.47	4.62
5500	Media	10	1.91	17	0.76	1.15
5700	Travel & Leisure	44	9.38	59	5.18	4.20
6500	Telecommunications	13	4.22	16	4.30	-0.07
7500	Utilities	26	7.56	28	2.62	4.95
8300	Banks	36	4.30	52	10.64	-6.34
8500	Insurance	19	3.10	20	4.52	-1.42
8600	Real Estate	44	10.38	52	5.39	4.98
8700	Financial Services	15	1.79	38	3.13	-1.34
9500	Technology	23	3.30	50	8.17	-4.88
<b>Totals</b>		<b>566</b>	<b>100.00</b>	<b>886</b>	<b>100.00</b>	

## Index Characteristics

Attributes	FTSE Developed Asia Pacific Minimum Variance	FTSE Developed Asia Pacific ex Japan Minimum Variance
Number of constituents	566	214
Dividend Yield %	3.29	4.00
Constituent (Wgt %)		
Average	0.18	0.47
Largest	0.71	1.41
Median	0.16	0.38
Top 10 Holdings (Wgt %)	6.18	12.75

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Data definitions available from  
[info@ftserussell.com](mailto:info@ftserussell.com)

To learn more, visit [www.ftserussell.com](http://www.ftserussell.com);  
 email [info@ftserussell.com](mailto:info@ftserussell.com); or  
 call your regional Client Services Team office:

#### EMEA

+44 (0) 20 7866 1810

#### North America

+1 877 503 6437

#### Asia-Pacific

Hong Kong +852 2164 3333

Tokyo +81 3 4563 6346

Sydney +61 (0) 2 8823 3521