

# INDEX RULES



# ECPI ASIAN INFRASTRUCTURE EQUITY INDEX

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## INTRODUCTION

The present document defines the rules for the calculation and management of the ECPI Asian Infrastructure Equity Index. The Index Rules are available on ECPI website, [www.ecpigroup.com](http://www.ecpigroup.com), and on ECPI Bloomberg page, ECPS <GO>.

ECPI Asian Infrastructure Equity Index provides exposure to the highest ESG-rated companies that are active in the Asian infrastructure industry.

### INFRASTRUCTURE AND ECONOMIC GROWTH

“Physical infrastructure and the related services can be seen as a form of “complementary capital” that requires the existence of available productive capital (physical or human) for investment and innovation in order to release the economic growth potential”<sup>1</sup>.

Infrastructure development is therefore a key factor in economic growth and is strongly linked to the demographic structure and urbanization processes as registered in the fast growing Emerging Asia: China, India, South Korea, Thailand, Taiwan, Malaysia, Philippines.

### EMERGING MARKETS AND ESG RATING ANALYSIS

The ultimate goal is the selection of the winning stocks in the Asian Infrastructure market on the basis of the highest ECPI ESG Rating.

ECPI Research has identified the main risks faced by Emerging Markets Companies and have rated companies on the basis of their attention and proactiveness in managing these risks, while participating in the fast growing Asian Infrastructure market.

- § EM-specific ESG Risks:
- § Corruption and Bribery
- § Health and Safety
- § Supply Chain Management
- § Human Rights
- § Environment

These are the Research Focus for ECPI Emerging Markets Rating Methodology on top of the traditional ESG Rating Process.

### INFRASTRUCTURE-LINKED SECTOR SELECTION

Index design initially begins at sector level through the selection of companies that are listed in the global markets and belong to the following infrastructure-related industries:

- § Airport Services
- § Electric Utilities
- § Highways & Rail tracks
- § Marine Ports & Services
- § Oil & Gas Storage & Transportation
- § Telecommunications Equipment
- § Gas Utilities
- § Multi Utilities
- § Water Utilities

### SINGLE STOCK SELECTION

The selection of the index components is performed on the basis of their:

- § Corporate Revenues
- § ECPI ESG Rating

<sup>1</sup> Linkages between infrastructure and economic growth, Carolyn O’Fallon, Pinnacle Research

- § Stock Listing
- § Stock Liquidity

### **GEOGRAPHICAL REVENUE DISTRIBUTION**

More than 50% of Corporate Revenues are required to be generated in the following Asia Pacific countries: China, India, Malaysia, Philippines, South Korea, Taiwan, Thailand.

If respecting the above index components are fewer than 25, revenues from Honk Kong and Singapore are also taken into consideration.

### **POSITIVE ESG RATING**

This is the ESG (Environmental, Social, Governance) evaluation, as reflected by ECPI ESG Screening Methodology: it is aimed at singling out companies holding the highest unexpressed Intangible Value, according to ECPI Research.

### **STOCK LISTING REQUIREMENTS**

- § Stock and ADR/GDR listed in Developed Markets
- § Stock listed in Indonesia, Philippines, South Korea, Taiwan, and Thailand

### **STOCK LIQUIDITY REQUIREMENTS**

- § Min Market Cap: EUR 300 million
- § Min 6-months ADTV: EUR 1 million

The Asian Infrastructure Equity Index benefits from all ECPI traditional advertising/publication tools and becomes another ideal candidate for direct and derivative investment.

## GUIDING PRINCIPLES

ECPI Indices are constructed and maintained according to the following principles:

§ **ESG Rated Companies**

The index is representative of the positively/highest ESG-rated companies according to the proprietary ECPI ESG Rating Methodology.

§ **Investible and Replicable**

The index should be capable of being replicated by reference to securities of reasonable size and liquidity.

§ **Disciplined Approach**

The index is constructed and managed using a set of principles, rules and guidelines. This approach is followed to maintain the attributes of stability, diversification across industries and securities accurate with respect to the ESG Rating Methodology.

§ **Transparency**

The index is built and maintained using clear and pre-defined rules in the public domain. The index is published on a daily basis through a variety of well known financial services providers.

§ **Independence and Objectivity**

The index is based on independent and objective content decisions. ECPI believes in an open dialogue with its clients, considering with objectivity their suggestions to enhance the index provision. By analyzing all the feedback received from its clients, ECPI takes the final decision independently in order to preserve the quality of the index.

## ELIGIBILITY CRITERIA

The ECPI Asian Infrastructure Equity Index is designed to provide exposure to the highest ECPI ESG-rated tradable companies that are active in the Asian Infrastructure Industry Sector.

The index is equally weighted and rebalanced annually on the third Friday of June.

To be eligible for inclusion in the ECPI Asian Infrastructure Equity Index, a stock must satisfy the following criteria (in which case, it will be an “eligible stock”):

1. it belongs to one of the following industries/sectors:
  - § Airport Services
  - § Electric Utilities
  - § Highways & Rail tracks
  - § Marine Ports & Services
  - § Oil & Gas Storage & Transportation
  - § Telecommunications Equipment
  - § Gas Utilities
  - § Multi Utilities
  - § Water Utilities
2. it belongs to the Global Developed Markets as defined in [Appendix A](#); or
3. it belongs to the reference Emerging Markets and is an issuer of an investment instrument as defined in [Appendix A](#)
4. it has a positive ECPI ESG Rating (from EEE to E-)
5. the issuer of the stock must have a minimum market capitalization of €300 million
6. the average daily traded value of the stock over the last 6 months shall be equivalent to a minimum of €1 million

Additionally, the ECPI Asian Infrastructure Equity Index has to meet the following criteria (selection order):

7. **Stock Exposure** – the ECPI Asian Infrastructure Equity Index will be composed of companies deriving at least 50% of their revenues from the following Asia Pacific Countries: China, India, Malaysia, Philippines, South Korea, Taiwan, Thailand.
8. **Stock Diversification Criteria** – the ECPI Asian Infrastructure Equity Index will be composed of eligible stocks selected in descending order of market capitalization, with 25 being the maximum number of components.
9. **Sector Diversification Criteria** – constituents shall be classified by sector in accordance with the Bloomberg Industry Classification System (BICS). Maximum sector concentration is 30%.
10. **Universe Extension** - if, with respect to the above criteria, index components are fewer than 25, companies deriving at least 50% of their revenues from Honk Kong and Singapore will also be included in the reference universe in step 7.

## REVIEW

Annually, on the Reference Date<sup>2</sup> immediately preceding the relevant Rebalance Date<sup>3</sup>, stocks will be selected in accordance with the criteria described above (paragraph 3) as new constituents of the index.

As a consequence, if a constituent company is downgraded between two consecutive review dates so that it doesn't satisfy the eligibility criteria any more, it will be replaced on the immediately following rebalance date.

### BUFFER RULE

1. all current constituents ranked 30 or above in the selection order will remain in the index.
2. for all index constituents, a tolerance of 20% is applied to the market capitalization and 6-months daily average value traded limits. Therefore, a constituent will be allowed to remain in the index if it has a minimum market cap of €240 million and a minimum liquidity of €800 thousand.

### STOCK REPLACEMENT

If index constituents are displaced, replacement stocks are selected starting from the highest ranked non-constituent in the reference universe according to criteria defined in paragraph 3.

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<sup>2</sup> "Reference Date" means the last business day of May.

<sup>3</sup> "Rebalance Date" means the third Friday of June provided that if such day is not a Scheduled Trading Day the Rebalance Date shall be the next Scheduled Trading Day.  
In the event that the scheduled Rebalance Date is a Disrupted Day, the Rebalance Date for such rebalancing will be the next Scheduled Trading Day which is not a Disrupted Day.

## CALCULATION METHOD

On the Reference Date, the number of shares of each stock will be determined so that every stock is equally weighted. This number of shares will be effective from the immediately following Rebalance Date.

From that moment till the following Rebalance Date, the number of shares will be fixed and constituent weights will vary according to price changes (see Paragraph 6, "Adjustments for Corporate Actions", for details on possible share changes).

### CALCULATION FREQUENCY

The Index is calculated and published daily, on a next day basis.  
Calendar for the Index calculation is the TARGET calendar.

### PRICES

The Index end-of-day calculations use official closing prices from the relevant exchanges of the constituent stocks. Such prices shall be converted into euro using the relevant GMT WM Reuters Currency cross rates.

### INDEX CALCULATION ALGORITHM

The closing price of securities is converted into Euro and the index is then calculated using the algorithm described below.

The price index is calculated as follows:

$$I(P)_t = I(P)_{t-1} * \frac{\sum_1^n (P_{i,t} N_{i,t})}{\sum_1^n P_{i,t-1} N_{i,t}}$$

Where

- $I(P)_t$  = price index on day t
- $P_{i,t}$  = official closing price in Euro for stock  $i$  on day  $t$
- $N_{i,t}$  = number of shares for stock  $i$  on day  $t$
- $n$  = number of index constituents

The net total return index is calculated as follows:

$$I(TR)_t = I(TR)_{t-1} * \left( \frac{\sum_1^i P_{i,t} N_i + \sum_1^n D_{i,t} N_{i,t}}{\sum_1^n P_{i,t-1} * N_{,ti}} \right)$$

Where

- $I(TR)_t$  = total return index on day t
- $P_{i,t}$  = official closing price in Euro for stock  $i$  on day  $t$
- $D_{i,t}$  = gross (net) dividend in Euro for stock  $i$  on the ex-dividend date  $t$
- $N_{i,t}$  = number of shares for stock  $i$  on day  $t$
- $n$  = number of index constituents

Note:

The Official Closing Price shall be intended as the official closing price for the stock on the relevant Exchange. The price shall be in Euro or converted into Euro using the foreign exchange spot rate, as defined above. In case, the price of a stock is not available due to exchange holiday, previous day's price is used for index calculations. See Appendix B for Dividend Withholding Tax Rates used for the calculation of Net Dividends.

## ADJUSTMENTS FOR CORPORATE ACTIONS

CORPORATE ACTION	ADJUSTMENT MADE TO INDEX	DIVISOR ADJUSTMENT
<b>DIVIDENDS</b>	Dividends are reinvested in the Index	Unchanged
<b>SPECIAL DIVIDENDS / RETURN OF CAPITAL</b>	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. Cash from the special dividend is reinvested in the index	Yes
<b>STOCK DIVIDENDS / BONUS ISSUES</b>	No weight change. This event is characterized by a free distribution of new shares to existing shareholders on a pro rata basis. Market Prices and number of shares of securities are adjusted accordingly.	Unchanged
<b>SHARE ISSUANCE OR REPURCHASE</b>	None	Unchanged
<b>SPIN-OFF</b>	The price is adjusted to Price of the parent company minus price of the spun-off company/share exchange ratio. Index shares change so that the company's weight remains the same.	Unchanged
<b>STOCK SPLIT / REVERSE SPLIT / CONSOLIDATIONS</b>	Company shares are multiplied by and the price is divided by the split factor.	Unchanged
<b>RIGHTS OFFERING</b>	Price is adjusted to the price of parent company minus price of the rights offering/rights ratio. Index shares change so that the company's weight remains the same.	Unchanged
<b>DELISTING, ACQUISITION OR ANY CORPORATE ACTION RESULTING IN THE DISPLACEMENT OF A STOCK</b>	When a constituent company is acquired or merged or displaced for any other reason, its shares are removed from the index. The company will be replaced at the next rebalancing.	Yes

## APPENDIX A: GLOBAL DEVELOPED MARKETS

### GLOBAL DEVELOPED MARKETS

Australia

Austria

Belgium

Canada

Denmark

Finland

France

Germany

Greece

Hong Kong

Ireland

Israel

Italy

Japan

Netherlands

New Zealand

Norway

Portugal

Singapore

Spain

Sweden

Switzerland

United Kingdom

USA

### EM TRADABLE MARKETS

### INSTRUMENTS

Brazil Adr, Gdr, H Shares

Hong Kong Stock, Adr, Gdr

India Stock, Adr, Gdr

Indonesia Stock, Adr, Gdr

Philippines Stock, Adr, Gdr

South Korea Stock, Adr, Gdr

Taiwan Stock, Adr, Gdr

Thailand Stock, Adr, Gdr

## APPENDIX B: DIVIDEND WITHHOLDING TAXES

COUNTRY NAME	COUNTRY ISO	TAXATION
Austria	AT	0.25
Australia	AU	0.3
Belgium	BE	0.25
Bermuda	BM	0
Brazil	BR	0
Canada	CA	0.25
Switzerland	CH	0.35
Chile	CL	0.1875
China	CN	0
Czech	CZ	0.15
Germany	DE	0.26375
Denmark	DK	0.28
Spain	ES	0.19
Finland	FI	0.28
France	FR	0.25
Great Britain	GB	0
Greece	GR	0.21
Hong Kong	HK	0
Hungary	HU	0
Indonesia	ID	0.2
Ireland	IE	0.2
India	IN	0
Iceland	IS	0.15
Italy	IT	0.27
Japan	JP	0.07
South Korea	KR	0.22
Luxembourg	LU	0.15
Mexico	MX	0
Netherlands	NL	0.15
Norway	NO	0.25
New Zealand	NZ	0.15
Philippines	PH	0.3
Poland	PL	0.19
Portugal	PT	0.215
Russia	RU	0.15
Sweden	SE	0.3
Singapore	SG	0
Thailand	TH	0.1
Taiwan	TW	0.2
USA	US	0.3
South Africa	ZA	0

## APPENDIX C: DEFINITIONS

### Index Constituent or Constituent

Any security comprised in the index, provided that on any Reference Date and in the relevant Rebalance Period, Constituent shall include any stock which will be included in the index as of the next Rebalance Date at the end of such Rebalance Period.

### Rebalance Period

It is the timeframe between Reference Date and Rebalance Date.

### Exchange and Related Exchange

Each exchange on which any Index Constituent is, in the determination of ECPI, principally traded.

### Scheduled Trading Day

Any day on which each Exchange and each Related Exchange are scheduled to be open for trading for their respective regular trading session.

### Disrupted Day

Any Scheduled Trading Day on which: (i) a relevant Exchange or any Related Exchange fails to open for trading during its regular trading session; or (ii) a Market Disruption Event has occurred.

### Market Disruption Event

The occurrence, in respect of the Index Constituent of:

- § a Trading Disruption
- § an Exchange Disruption
- § an Early Closure

where the aggregate of all Index Constituents in respect of which a Trading Disruption, an Exchange Disruption or an Early Closure occurs, comprises 20 per cent or more of the aggregate number of all Index Constituents for which the Exchange and Related Exchange were scheduled to be open for trading for its regular trading session on such day.

### Trading Disruption

Any suspension of or limitation imposed on trading by the Relevant Exchange or Related Exchange or otherwise and whether by reason of movements in price exceeding limits permitted by the Relevant Exchange and Related Exchange or otherwise.

### Exchange Disruption

Any event that disrupts or impairs (as determined by the ECPI) the ability of market participants in general (i) to effect transaction in, or obtain market values for the Index Constituents.

### Early Closure

The closure on any Exchange Business Day of the Relevant Exchange or any Related Exchange prior to its Scheduled Closing Time.

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