

FTSE Core Infrastructure Indexes

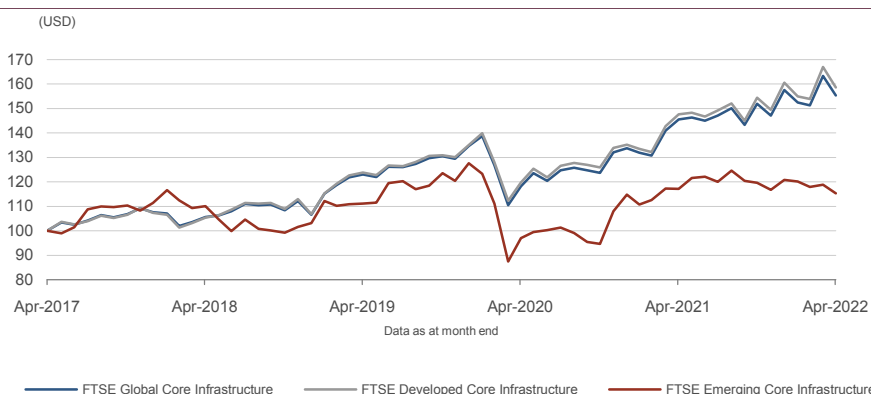
Data as at: 29 April 2022

The FTSE Infrastructure Index Series is a comprehensive set of nine cap-weighted indexes, diversified across six FTSE-defined infrastructure sub-sectors, to reflect the performance of infrastructure and infrastructure-related listed securities worldwide.

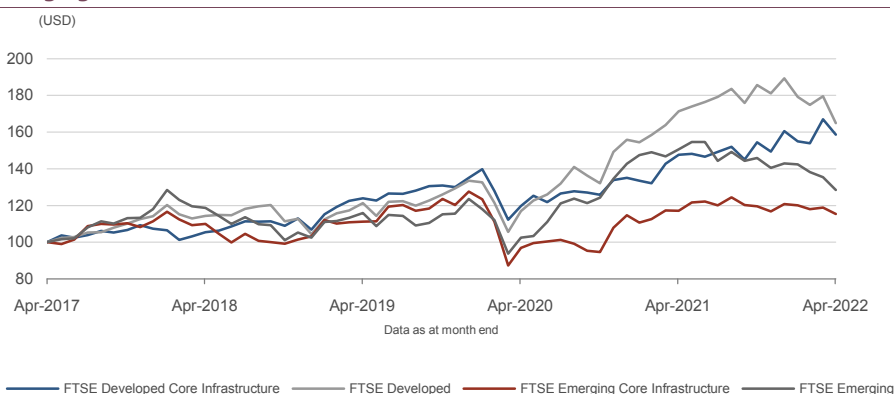
The Index Series uses a building block approach to give investors greater choice and flexibility in the way they can benchmark, research and manage their exposure to global infrastructure. Infrastructure is defined by FTSE Russell as companies that own, manage or operate structures or networks, which are used for the processing or movement of goods, services, information/data, people, energy and necessities. This definition forms the basis for the FTSE Core Infrastructure Sectors and the FTSE Core Infrastructure Indexes.

FTSE Russell further expands the definition of infrastructure from the structures and networks to include the conveyance of goods, services, information/data, people, energy and necessities. This forms the basis for the FTSE Infrastructure-Related Sectors and the FTSE Infrastructure Opportunities Indexes.

5-Year Performance - Total Return



FTSE Core Infrastructure Indexes against FTSE Developed Index and FTSE Emerging Index - Total Return



FEATURES

Coverage

Constituents are selected from the FTSE Global All Cap Index using FTSE Russell's definition of infrastructure. FTSE Russell applies minimum infrastructure revenue thresholds of 65% for constituents of the Core Infrastructure indexes and 20% for constituents of the Infrastructure Opportunities indexes.

Objective

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

Investability

Stocks are selected and weighted to ensure that the index is investable.

Liquidity

Stocks are screened to ensure that the index is tradable.

Transparency

Index methodologies are freely available on the FTSE Russell website.

Availability

The indexes are calculated based on price and total return methodologies, on an end-of-day basis.

Industry Classification Benchmark (ICB)

Index constituents are categorized in accordance with the Industry Classification Benchmark (ICB), the global standard for industry sector analysis. Constituents are screened according to ICB Subsectors that meet FTSE's definition of infrastructure.

Performance and Volatility - Total Return

Index (USD)	Return %						Return pa %*		Volatility %**		
	3M	6M	YTD	12M	3YR	5YR	3YR	5YR	1YR	3YR	5YR
FTSE Global Core Infrastructure	1.9	2.3	-1.5	6.8	26.2	55.3	8.1	9.2	10.8	17.8	13.4
FTSE Developed Core Infrastructure	2.4	2.7	-1.2	7.4	28.0	58.6	8.6	9.7	11.3	17.9	13.5
FTSE Emerging Core Infrastructure	-4.0	-3.5	-4.5	-1.5	3.7	15.4	1.2	2.9	13.7	20.9	17.7
FTSE Global All Cap	-8.1	-11.6	-12.7	-5.7	32.1	58.9	9.7	9.7	13.3	19.9	16.1
FTSE Developed	-8.0	-11.2	-12.9	-3.8	35.8	64.9	10.7	10.5	13.7	19.7	16.0
FTSE Emerging	-9.8	-12.0	-10.2	-14.7	10.8	28.4	3.5	5.1	17.0	20.4	16.6

* 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)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
FTSE Global Core Infrastructure	9.9	17.1	18.9	-10.6	13.1	16.9	-0.9	26.3	-0.7	17.8
FTSE Developed Core Infrastructure	9.4	18.5	20.1	-10.7	13.1	16.2	-0.5	26.4	0.1	18.8
FTSE Emerging Core Infrastructure	18.7	-4.7	-0.6	-9.5	12.0	28.3	-7.4	23.7	-10.1	5.3
FTSE Global All Cap	17.2	23.9	4.5	-1.7	9.0	24.4	-9.6	27.1	16.8	18.5
FTSE Developed	17.0	26.8	5.1	-0.3	8.2	23.9	-8.6	28.0	16.7	21.4
FTSE Emerging	17.9	-3.5	1.6	-15.2	13.5	32.5	-13.0	20.6	15.5	0.1

Return/Risk Ratio and Drawdown - Total Return

Index (USD)	Return/Risk Ratio				Drawdown (%)			
	1YR	3YR	5YR	10YR	1YR	3YR	5YR	10YR
FTSE Global Core Infrastructure	0.6	0.5	0.7	0.8	-6.9	-35.3	-35.3	-35.3
FTSE Developed Core Infrastructure	0.7	0.5	0.7	0.9	-7.0	-35.2	-35.2	-35.2
FTSE Emerging Core Infrastructure	-0.1	0.1	0.2	0.2	-14.6	-39.8	-39.8	-39.8
FTSE Global All Cap	-0.5	0.5	0.6	0.7	-13.5	-34.3	-34.3	-34.3
FTSE Developed	-0.3	0.6	0.7	0.8	-13.7	-34.0	-34.0	-34.0
FTSE Emerging	-0.9	0.1	0.3	0.2	-22.3	-33.4	-35.1	-35.7

Return/Risk Ratio – based on compound annual returns and volatility in Performance and Volatility table

Drawdown - based on daily data

Top 10 Constituents - FTSE Developed Core Infrastructure Index

Constituent	Country	ICB Subsector	Net MCap (USDm)	Wgt %
Union Pacific Corp	USA	Railroads	150,443	6.19
NextEra Energy Inc	USA	Conventional Electricity	139,107	5.72
American Tower Corp	USA	Infrastructure REITs	108,648	4.47
Enbridge	Canada	Pipelines	88,710	3.65
Duke Energy Corp	USA	Multi-utilities	84,653	3.48
Crown Castle Intl Corp	USA	Infrastructure REITs	79,685	3.28
Southern Co	USA	Conventional Electricity	77,529	3.19
CSX Corp	USA	Railroads	75,808	3.12
Canadian National Railway	Canada	Railroads	69,934	2.88
Canadian Pacific Railway	Canada	Railroads	68,181	2.80
Totals			942,700	38.78

INFORMATION**Index Universe**

FTSE Global All Cap Index

Index Launch

31 March 2011

Base Date

16 December 2005

Base Value

1000

Investability Screen

Actual free float applied and liquidity screened

Index Calculation

End-of-day

End-of-Day Distribution

Via FTP and email

Currency

USD, EUR, GBP, JPY and AUD

Review Dates

Semi-annually in March & September

History

Available from December 2005

Fundamental Research

Fundamental research on the constituents of the FTSE Infrastructure Index Series is provided by LPX Group.

LPX Group Website

www.lpx-group.com

Top 10 Constituents - FTSE Emerging Core Infrastructure Index

Constituent	Country	ICB Subsector	Net MCap (USDm)	Wgt %
ENN Energy Holdings (P' Chip)	China	Gas Distribution	10,242	5.60
Power Grid Corp of India	India	Conventional Electricity	9,360	5.12
Adani Transmissions	India	Conventional Electricity	9,097	4.98
Adani Ports and Special Economic Zone	India	Transportation Services	8,568	4.69
Airports of Thailand	Thailand	Transportation Services	8,352	4.57
Tenaga Nasional	Malaysia	Conventional Electricity	6,655	3.64
Tata Power	India	Conventional Electricity	6,417	3.51
Saudi Electricity Co	Saudi Arabia	Conventional Electricity	5,643	3.09
China Tower (H)	China	Telecommunications Equipment	5,471	2.99
Grupo Aeroportuario del Pacifico SAB de CV Series B	Mexico	Transportation Services	5,394	2.95
Totals			75,200	41.14

ICB Subsector Breakdown

ICB Code	ICB Subsector	FTSE Developed Core Infrastructure			FTSE Emerging Core Infrastructure		
		No. of Cons	Net MCap (USDm)	Wgt %	No. of Cons	Net MCap (USDm)	Wgt %
15101010	Telecommunications Equipment	4	6,573	0.27	4	9,855	5.39
15102015	Telecommunications Services	9	47,998	1.97	3	4,008	2.19
35102025	Infrastructure REITs	4	228,270	9.39	-	-	-
40501015	Travel and Tourism	-	-	-	4	2,934	1.61
50101010	Construction	-	-	-	1	1,593	0.87
50206020	Railroads	10	489,002	20.12	2	3,357	1.84
50206060	Transportation Services	11	74,800	3.08	42	61,813	33.82
60101035	Pipelines	11	342,045	14.07	1	966	0.53
65101015	Conventional Electricity	46	808,458	33.26	21	61,082	33.42
65102000	Multi-utilities	13	284,809	11.72	-	-	-
65102020	Gas Distribution	18	80,174	3.30	12	24,515	13.41
65102030	Water	8	68,873	2.83	14	12,661	6.93
Totals		134	2,431,003	100.00	104	182,785	100.00

Country Breakdown

Country	FTSE Developed Core Infrastructure			FTSE Emerging Core Infrastructure		
	No. of Cons	Net MCap (USDm)	Wgt %	No. of Cons	Net MCap (USDm)	Wgt %
Australia	5	50,686	2.08	-	-	-
Austria	2	1,216	0.05	-	-	-
Belgium	1	5,618	0.23	-	-	-
Brazil	-	-	-	14	25,862	14.15
Canada	10	346,128	14.24	-	-	-
Chile	-	-	-	4	2,893	1.58
China	-	-	-	40	43,236	23.65
Colombia	-	-	-	1	2,409	1.32
France	4	17,863	0.73	-	-	-
Germany	3	5,496	0.23	-	-	-
Greece	-	-	-	3	2,307	1.26
Hong Kong	6	49,447	2.03	-	-	-
India	-	-	-	13	43,915	24.03
Indonesia	-	-	-	4	5,479	3.00
Italy	6	43,157	1.78	-	-	-
Japan	18	89,151	3.67	-	-	-
Korea	3	5,704	0.23	-	-	-
Malaysia	-	-	-	3	9,006	4.93
Mexico	-	-	-	5	14,783	8.09
New Zealand	3	8,856	0.36	-	-	-
Philippines	-	-	-	4	7,687	4.21
Portugal	1	1,173	0.05	-	-	-
Saudi Arabia	-	-	-	1	5,643	3.09
Singapore	2	3,328	0.14	-	-	-
Spain	5	57,114	2.35	-	-	-
Switzerland	1	3,235	0.13	-	-	-
Taiwan	-	-	-	1	1,978	1.08
Thailand	-	-	-	8	16,159	8.84
Turkey	-	-	-	2	719	0.39
UAE	-	-	-	1	707	0.39
UK	6	84,553	3.48	-	-	-
USA	58	1,658,278	68.21	-	-	-
Totals	134	2,431,003	100.00	104	182,785	100.00

Index Characteristics

Attributes	FTSE Developed Core Infrastructure	FTSE Emerging Core Infrastructure
Number of constituents	134	104
Net MCap (USDm)	2,431,003	182,785
Dividend Yield %	2.92	3.35
Constituent Sizes (Net MCap USDm)		
Average	18,142	1,758
Largest	150,443	10,242
Smallest	129	49
Median	6,197	986
Weight of Largest Constituent (%)	6.19	5.60
Top 10 Holdings (% Index MCap)	38.78	41.14

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