

FTSE Environmental Opportunities Index Series

Data as at: 31 January 2020

The FTSE Environmental Opportunities Index Series measures the performance of global companies that have significant involvement in environmental business activities as defined by the FTSE Environmental Markets Classification System (EMCS). These include Renewable & Alternative Energy, Energy Efficiency, Water Infrastructure and Technology, Waste Management & Technologies, Pollution Control, Environmental Support Services, and Food, Agriculture & Forestry. Forming part of the overall FTSE Environmental Markets Index Series, the FTSE Environmental Opportunities Index Series requires companies to have at least 20% of their business derived from environmental markets and technologies (as opposed to at least 50% for the FTSE Environmental Technology Index Series).

The FTSE Environmental Markets Index Series has been developed in collaboration with Impax Asset Management and under the direction of the independent FTSE Environmental Markets Committee, further enhancing FTSE's suite of ESG indices and providing investors with a robust set of Environmental Markets tools. The two headline indices within the FTSE Environmental Opportunities Index Series are:

- FTSE Environmental Opportunities All-Share Index - The headline benchmark index, comprising all of the companies that have significant involvement in environmental business activities and meet the environmental opportunities eligibility requirements
- FTSE EO 100 Index - The headline tradable index, focusing on the top 100 largest companies by market capitalisation in the FTSE Environmental Opportunities All-Share Index

5-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 Environmental Opportunities All Share	5.7	10.5	-0.6	21.9	44.1	65.7	13.0	10.6	10.1	12.3	13.2
FTSE EO 100	6.5	11.1	0.3	23.7	47.8	69.7	13.9	11.2	10.0	12.2	12.9
FTSE Global All Cap	4.8	7.4	-1.3	16.1	37.4	53.4	11.2	8.9	9.3	10.9	11.8

* 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

FEATURES

Coverage

The FTSE Environmental Opportunities Index Series comprises a broad range of indices including the FTSE Environmental Opportunities All-Share Index, FTSE EO 100 Index and a range of specific indices focused on the major environmental technology markets. The FTSE Environmental Opportunities Index Series features within the overall FTSE Environmental Markets Index Series.

Objective

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

Investability

Stocks are free-float weighted to ensure that only the investable opportunity set is included within the indices.

Liquidity

Stocks are screened to ensure that the index is 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.

Year-on-Year Performance - Total Return

Index % (USD)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
FTSE Environmental Opportunities All Share	18.2	-13.5	16.6	31.9	0.1	-1.9	11.7	31.0	-12.6	31.5
FTSE EO 100	16.7	-13.6	17.5	31.3	0.6	-1.4	11.3	30.5	-10.5	31.1
FTSE Global All Cap	14.8	-7.6	17.2	23.9	4.5	-1.7	9.0	24.4	-9.6	27.1

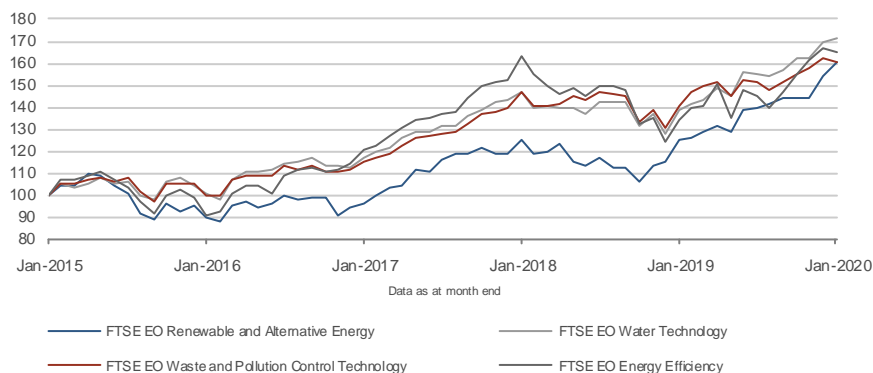
Return/Risk Ratio and Drawdown - Total Return

Index (USD)	Return/Risk Ratio				Drawdown (%)			
	1YR	3YR	5YR	10YR	1YR	3YR	5YR	10YR
FTSE Environmental Opportunities All Share	2.1	1.1	0.8	0.7	-7.1	-22.5	-22.5	-30.8
FTSE EO 100	2.3	1.2	0.9	0.7	-7.0	-21.2	-21.2	-31.2
FTSE Global All Cap	1.7	1.1	0.8	0.7	-6.2	-19.3	-19.3	-23.4

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

5-Year Performance - Total Return

(USD)



Performance and Volatility - Total Return

Index (USD)	Return %						Return pa %*		Volatility %**		
	3M	6M	YTD	12M	3YR	5YR	3YR	5YR	1YR	3YR	5YR
FTSE EO Renewable and Alternative Energy	11.6	15.2	4.7	28.8	67.8	60.9	18.8	10.0	9.5	10.7	13.9
FTSE EO Water Technology	5.9	10.6	1.3	24.3	47.0	71.8	13.7	11.4	8.8	10.3	11.3
FTSE EO Waste and Pollution Control Technology	3.5	5.9	-0.9	14.5	39.5	60.6	11.7	9.9	8.4	9.9	11.1
FTSE EO Energy Efficiency	6.1	13.4	-1.2	23.1	37.0	64.7	11.1	10.5	12.7	15.4	16.1
FTSE Environmental Opportunities UK	8.8	16.5	-3.4	23.3	41.7	40.4	12.3	7.0	15.1	14.5	15.8
FTSE Environmental Opportunities UK AIM	29.7	32.4	9.3	24.4	0.8	-11.9	0.3	-2.5	14.3	16.3	21.3
FTSE Environmental Opportunities USA	7.1	9.1	0.2	23.5	51.2	79.2	14.8	12.4	13.5	13.8	14.0
FTSE Environmental Opportunities Europe	8.3	15.7	-0.3	28.3	49.2	68.7	14.3	11.0	13.0	14.1	14.5
FTSE Environmental Opportunities Japan	-0.9	10.5	-2.6	15.7	26.3	52.8	8.1	8.9	15.4	15.7	15.7
FTSE Environmental Opportunities Asia-Pacific	-0.2	7.7	-2.5	13.0	26.0	40.9	8.0	7.1	12.8	13.8	14.6
FTSE Environmental Opportunities Asia-Pacific Ex Japan	1.7	0.8	-2.3	6.3	25.4	13.8	7.9	2.6	10.7	11.9	14.8

* 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

INFORMATION

Index Universe

FTSE Global Equity Index Series

Base Date

22 September 1999

Base Value

152

Investability Screen

Free-float adjusted and liquidity screened

Index Calculation

Real-time (calculated every 15 seconds) and end-of-day indices available

End-of-Day Distribution

Via FTP and email

Currency

USD

Review Dates

Semi-annually in June and December

Year-on-Year Performance - Total Return

Index % (USD)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
FTSE EO Renewable and Alternative Energy	-5.2	-25.1	-0.5	26.0	4.4	-4.6	-0.5	26.1	-3.2	33.6
FTSE EO Water Technology	18.4	-10.3	19.3	31.5	7.4	3.4	8.1	27.2	-10.8	32.7
FTSE EO Waste and Pollution Control Technology	17.9	-9.3	19.6	30.5	0.9	4.2	6.8	24.9	-6.4	24.0
FTSE EO Energy Efficiency	27.2	-17.3	18.1	37.5	-3.7	-2.9	15.2	34.0	-18.4	33.8
FTSE Environmental Opportunities UK	31.2	1.3	35.8	36.7	-6.6	-2.4	-6.7	28.5	-15.5	40.4
FTSE Environmental Opportunities UK AIM	8.7	-31.7	13.9	21.8	-8.6	-20.7	-14.7	17.7	-26.9	23.7
FTSE Environmental Opportunities USA	22.6	-5.7	19.5	41.3	6.4	-4.8	17.3	28.8	-9.6	33.6
FTSE Environmental Opportunities Europe	13.6	-17.9	17.5	27.1	-8.7	-0.7	9.9	33.1	-14.5	35.9
FTSE Environmental Opportunities Japan	16.1	-14.1	6.6	32.9	2.4	11.1	4.8	33.6	-18.0	25.9
FTSE Environmental Opportunities Asia-Pacific	18.9	-20.1	10.1	26.8	0.9	3.8	3.7	32.2	-15.7	23.0
FTSE Environmental Opportunities Asia-Pacific Ex Japan	22.7	-28.9	17.3	13.7	-1.3	-13.2	1.0	28.3	-9.2	15.9

Return/Risk Ratio and Drawdown - Total Return

Index (USD)	Return/Risk Ratio				Drawdown (%)			
	1YR	3YR	5YR	10YR	1YR	3YR	5YR	10YR
FTSE EO Renewable and Alternative Energy	2.9	1.8	0.7	0.3	-3.5	-16.0	-25.6	-51.7
FTSE EO Water Technology	2.7	1.4	1.0	0.9	-4.4	-17.5	-17.5	-26.5
FTSE EO Waste and Pollution Control Technology	1.7	1.2	0.9	0.8	-6.6	-16.2	-16.2	-24.6
FTSE EO Energy Efficiency	1.8	0.7	0.7	0.6	-11.0	-28.7	-28.7	-33.5
FTSE Environmental Opportunities UK	1.5	0.9	0.4	0.7	-11.3	-22.1	-23.2	-24.3
FTSE Environmental Opportunities UK AIM	1.6	0.0	-0.1	-0.1	-14.5	-35.5	-45.3	-55.6
FTSE Environmental Opportunities USA	1.7	1.1	0.9	0.9	-8.3	-21.3	-21.3	-28.2
FTSE Environmental Opportunities Europe	2.1	1.0	0.8	0.5	-9.2	-22.6	-22.6	-38.6
FTSE Environmental Opportunities Japan	1.0	0.5	0.6	0.6	-9.8	-31.0	-31.0	-31.0
FTSE Environmental Opportunities Asia-Pacific	1.0	0.6	0.5	0.5	-8.2	-26.8	-26.8	-28.4
FTSE Environmental Opportunities Asia-Pacific Ex Japan	0.6	0.8	0.2	0.2	-8.9	-17.5	-36.0	-41.8

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

Drawdown - based on daily data

1-Year Correlation - Total Return

	FTSE Environmental Opportunities All Share	FTSE Global All Cap
FTSE Environmental Opportunities All Share	1.000	0.936
FTSE Global All Cap		1.000

Top 10 Constituents - FTSE Environmental Opportunities All Share

Constituent	Country	ICB Sector	Net MCap (USDm)	Wgt %
Honeywell International Incorporation	USA	General Industrials	124,425	3.41
Linde plc	USA	Chemicals	108,978	2.99
Danaher Corp	USA	General Industrials	99,006	2.72
Siemens AG	Germany	General Industrials	93,608	2.57
Tesla	USA	Automobiles & Parts	92,379	2.53
3M Company	USA	General Industrials	88,665	2.43
Enel	Italy	Electricity	67,627	1.86
Air Liquide	France	Chemicals	67,048	1.84
Iberdrola	Spain	Electricity	65,605	1.80
Zoetis	USA	Pharmaceuticals & Biotechnology	64,184	1.76
Totals			871,526	23.91

Country Breakdown - FTSE Environmental Opportunities All Share

Country	FTSE Environmental Opportunities All Share		FTSE Global All Cap		Diff %
	No. of Cons	Wgt %	No. of Cons	Wgt %	
Australia	12	0.74	253	2.16	-1.43
Austria	5	0.30	26	0.09	0.21
Belgium	1	0.26	42	0.33	-0.07
Brazil	11	0.76	131	0.89	-0.12
Canada	9	1.21	198	3.04	-1.83
Chile	5	0.33	34	0.09	0.25
China	42	1.82	1476	3.64	-1.82
Colombia	-	-	12	0.05	-0.05
Czech Rep.	-	-	5	0.02	-0.02
Denmark	5	1.47	42	0.55	0.92
Egypt	-	-	18	0.02	-0.02
Finland	6	0.61	34	0.36	0.25
France	16	6.39	145	2.92	3.47
Germany	14	3.80	154	2.46	1.34
Greece	1	0.01	21	0.04	-0.03
Hong Kong	7	0.91	167	1.03	-0.12
Hungary	-	-	5	0.03	-0.03
India	14	0.26	305	1.11	-0.86
Indonesia	1	0.04	69	0.22	-0.19
Ireland	1	0.25	10	0.07	0.18
Israel	-	-	60	0.17	-0.17
Italy	6	2.23	93	0.77	1.47
Japan	84	17.02	1347	7.54	9.48
Korea	18	0.85	431	1.37	-0.52
Kuwait	-	-	17	0.09	-0.09
Malaysia	1	0.12	87	0.27	-0.15
Mexico	1	0.00	59	0.30	-0.29
Netherlands	6	0.94	57	1.08	-0.14
New Zealand	4	0.32	35	0.12	0.20
Norway	3	0.16	51	0.24	-0.08
Pakistan	-	-	22	0.01	-0.01
Peru	-	-	1	0.00	0.00
Philippines	4	0.07	39	0.12	-0.05
Poland	-	-	35	0.10	-0.10
Portugal	3	0.41	14	0.06	0.35
Qatar	-	-	21	0.11	-0.11
Russia	1	0.03	43	0.43	-0.39
Saudi Arabia	-	-	81	0.24	-0.24
Singapore	2	0.13	74	0.40	-0.27
South Africa	-	-	113	0.53	-0.53
Spain	7	2.06	62	0.80	1.26
Sweden	12	2.20	114	0.89	1.31
Switzerland	14	3.36	118	2.65	0.72
Taiwan	23	0.98	418	1.52	-0.54
Thailand	6	0.26	118	0.34	-0.08
Turkey	1	0.00	75	0.08	-0.08
UAE	-	-	22	0.09	-0.09
UK	22	3.11	305	4.94	-1.83
USA	131	46.59	1794	55.61	-9.02
Totals	499	100.00	8853	100.00	

ICB Industry Breakdown - FTSE Environmental Opportunities All Share

ICB Code	ICB Industry	FTSE Environmental Opportunities All Share		FTSE Global All Cap		Diff %
		No. of Cons	Wgt %	No. of Cons	Wgt %	
0001	Oil & Gas	28	1.90	305	4.66	-2.75
1000	Basic Materials	43	11.89	758	4.06	7.83
2000	Industrials	244	54.67	1909	13.77	40.90
3000	Consumer Goods	41	7.22	1160	10.65	-3.43
4000	Health Care	8	2.77	663	10.90	-8.14
5000	Consumer Services	18	3.92	1062	11.50	-7.59
6000	Telecommunications	-	-	133	2.51	-2.51
7000	Utilities	88	13.40	313	3.44	9.96
8000	Financials	7	1.32	1769	21.30	-19.98
9000	Technology	22	2.92	781	17.21	-14.29
Totals		499	100.00	8853	100.00	

Index Characteristics

Attributes	FTSE Environmental Opportunities All Share	FTSE EO 100	FTSE Global All Cap
Number of constituents	499	100	8853
Net MCap (USDm)	3,644,780	2,736,038	56,309,466
Dividend Yield %	1.95	1.90	2.37
Constituent Sizes (Net MCap USDm)			
Average	7,304	27,360	6,360
Largest	124,425	124,425	1,374,543
Smallest	30	2,018	10
Median	2,356	19,955	1,004
Weight of Largest Constituent (%)	3.41	4.55	2.44
Top 10 Holdings (% Index MCap)	23.91	31.85	11.26

Index Characteristics

Attributes	FTSE EO Renewable and Alternative Energy	FTSE EO Water Technology	FTSE EO Waste and Pollution Control Technology	FTSE EO Energy Efficiency
Number of constituents	94	77	110	159
Net MCap (USDm)	400,736	296,215	615,801	1,459,197
Dividend Yield %	2.84	2.08	1.89	1.83
Constituent Sizes (Net MCap USDm)				
Average	4,263	3,847	5,598	9,177
Largest	67,627	30,401	51,623	124,425
Smallest	58	30	152	55
Median	1,163	1,870	2,440	3,471
Weight of Largest Constituent (%)	16.88	10.26	8.38	8.53
Top 10 Holdings (% Index MCap)	67.92	54.50	43.22	42.73

Index Characteristics

Attributes	FTSE Environmental Opportunities USA	FTSE Environmental Opportunities Europe	FTSE Environmental Opportunities Japan	FTSE Environmental Opportunities Asia-Pacific
Number of constituents	131	124	84	218
Net MCap (USDm)	1,697,929	1,005,919	620,333	856,629
Dividend Yield %	1.54	2.62	1.67	1.96
Constituent Sizes (Net MCap USDm)				
Average	12,961	8,112	7,385	3,929
Largest	124,425	93,608	62,039	62,039
Smallest	345	112	166	30
Median	4,548	2,863	2,600	1,106
Weight of Largest Constituent (%)	7.33	9.31	10	7.24
Top 10 Holdings (% Index MCap)	45.99	48.79	58.11	42.08

About Impax Asset Management

Impax Asset Management is an award winning, leading investment manager dedicated to investing in the opportunities created by the scarcity of natural resources and the growing demand for cleaner, more efficient products and services, through both listed and private equity strategies.

Impax's listed equity funds seek out mis-priced companies that are set to benefit from the long-term trends of changing demographics, urbanisation, rising consumption, and the resultant increases in resource scarcity. Investment is focused on a small number of deeply researched global equity strategies across alternative energy, energy efficiency, water, waste, food and agriculture related markets.

Impax's private equity infrastructure funds follow an operationally focused, value-add strategy, investing in renewable power generation and related assets throughout Europe. The Climate Property Fund focuses on developing sustainable and energy efficient commercial property, primarily in the UK, adding synergistically to Impax's wider real asset investment strategy within private markets.



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