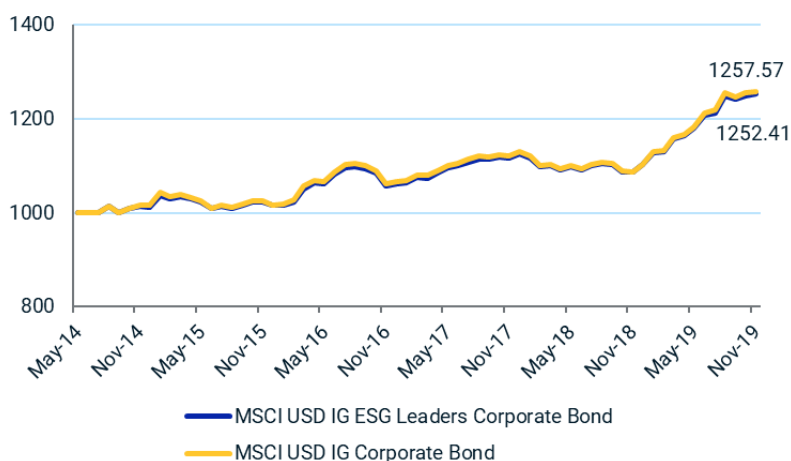


# MSCI USD IG ESG Leaders Corporate Bond Index

The MSCI Fixed Income ESG Leaders Indexes are market value-weighted indexes designed to represent the performance of fixed income securities from issuers that have high Environmental, Social and Governance (“ESG”) ratings relative to their sector peers, to ensure the inclusion of the best-in-class companies from an ESG perspective.

## Cumulative index performance

USD RETURNS MAY 2014 – NOV 2019



## Annual performance (%)

Year	MSCI USD IG ESG Leaders Corp Bond	MSCI USD IG Corporate Bond
2018	-2.13	-2.42
2017	6.09	5.96
2016	4.63	4.96
2015	0.23	0.05

## Index performance

USD RETURNS (%) NOVEMBER 29, 2019

Index	1 Month	3 Months	1 Year	Year to Date	ANNUALIZED RETURN		
					3 Years	5 Years	Since Feb 28, 2005
MSCI USD IG ESG Leaders Corporate Bond	0.20	0.25	15.23	13.56	5.82	4.31	4.18
MSCI USD IG Corporate Bond	0.23	0.20	15.61	13.96	5.80	4.35	4.25

## Index risk and return characteristics

NOVEMBER 29, 2019

Index	Tracking Error (%)	Turnover* (%)	ANNUALIZED STD. DEVIATION (%)		
			3 Years	5 Years	Since Feb 28, 2005
MSCI USD IG ESG Leaders Corporate Bond	0.23	47.07	4.23	4.22	4.12
MSCI USD IG Corporate Bond	0.00	21.20	3.63	3.91	5.38

\*Last 12 months

The MSCI USD IG ESG Leaders Corporate Bond Index was launched on Dec 16, 2019. Data prior to the launch date is back-tested data (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance – whether actual or back-tested – is no indication or guarantee of future performance.

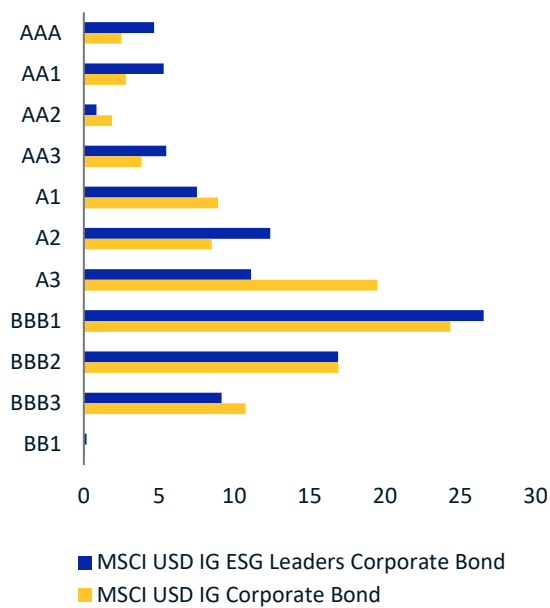
## Index Profile

Maturity	# of securities	# of issuers	Market Weight (%)	Coupon*	Price*	Yield to Worst	Effective Duration	Effective Convexity	OAS** (bps)	Weighted Credit Rating
0-3 years	333	141	22.99%	3.05	101.71	1.97	1.77	0.04	41.13	A2
3-5 years	237	127	16.82%	3.39	104.03	2.28	3.48	0.15	63.34	A3
5-7 years	179	112	14.66%	3.46	105.12	2.51	5.30	0.32	78.35	A3
7-10 years	199	119	14.81%	3.74	107.24	2.75	7.01	0.60	95.60	A3
10+ years	350	115	30.71%	4.73	117.21	3.56	14.47	3.01	139.07	A3
<b>Aggregate</b>	<b>1298</b>	<b>229</b>	<b>100.00%</b>	<b>3.75</b>	<b>107.82</b>	<b>2.69</b>	<b>7.20</b>	<b>1.09</b>	<b>114.92</b>	<b>A3</b>

\* Par Weighted

\*\* Effective Duration Weighted

## Credit Rating Break Down



## ESG Metrics

	MSCI USD IG ESG Leaders Corporate Bond	MSCI USD IG Corporate Bond
ESG Score	6.30	5.24
ESG Leaders (AAA-A) %	22.94	15.00
ESG Laggards (B-CCC) %	0.00	12.17
ESG Trend Positive (%)	17.23	12.69
ESG Trend Negative (%)	3.03	4.91
Environmental Score	6.11	5.70
Social Score	4.55	4.19
Governance Score	5.09	4.70
Red Flag Controversies (%)	0.00	6.14
Orange Flag Controversies (%)	42.37	46.31

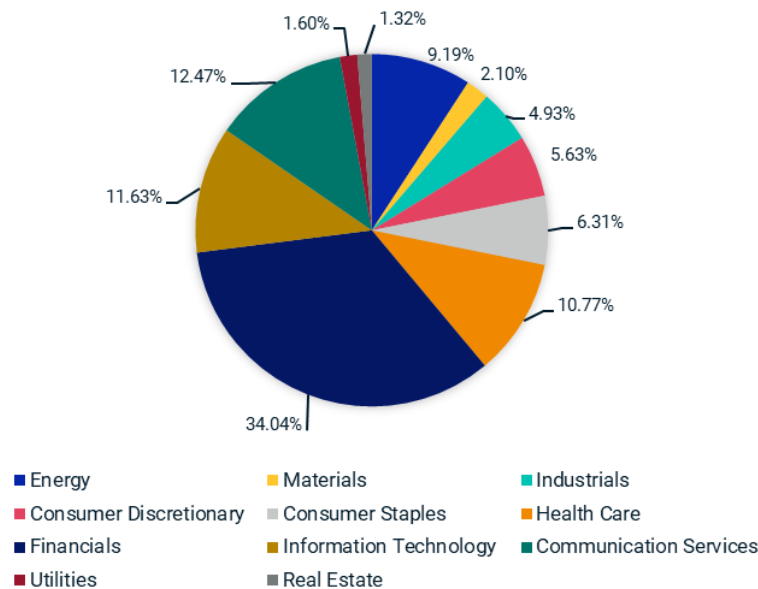
## Top 5 Securities

Security Name	Currency	Index Weight (%)	Parent Index Weight (%)	Sector	Security Credit Rating
GOLDMAN SACHS GROUP INC 6.75% Sub Nts Due 2037	USD	0.41	0.21	Financials	BBB3
APPLE INC 2.40% Sr Nts Due 2023	USD	0.29	0.16	Information Technology	AA1
AT&T INC 3.400% Sr Nts Due 2025	USD	0.28	0.15	Communication Services	BBB2
MICROSOFT CORP 3.70% Sr Nts Due 2046	USD	0.27	0.14	Information Technology	AAA
APPLE INC 4.65% Sr Nts Due 2046	USD	0.27	0.14	Information Technology	AA1

## Top 5 Issuers

Issuer Name	Index Weight (%)	Parent Index Weight (%)	Sector
AT&T INC	4.77	2.52	Communication Services
GOLDMAN SACHS GROUP INC	4.72	2.49	Financials
APPLE INC	4.21	2.22	Information Technology
MORGAN STANLEY	4.18	2.21	Financials
VERIZON COMMUNICATIONS INC	3.65	1.93	Communication Services

## Sector Weights



## Index Methodology

The MSCI Fixed Income ESG Leaders Indexes are constructed by applying a best-in-Class selection process to companies. The selection universe for The Fixed Income ESG Leaders Indexes is the constituents of the MSCI Corporate Bond Indexes (the 'Parent Index').

Companies with weak ESG profile or those involved in alcohol, gambling, tobacco, nuclear power and controversial weapons are excluded from the selection universe.

Post exclusions, the methodology ranks and selects issuers with the strongest ESG profile. The selection process targets to achieve 50% of the market value in each sector of the Parent Index. The Index is market value weighted.

The Indexes are rebalanced on a monthly basis to coincide with the monthly index review of the Parent Index. The pro forma Indexes are in general announced three business days before the effective date of rebalancing.

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