

MSCI ESG Fund Ratings Methodology

MSCI ESG Research LLC

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1 Executive Summary

This document details the MSCI ESG Fund Ratings methodology. We leverage MSCI ESG Ratings for over 7,500 companies (13,000 total issuers including subsidiaries) and more than 600,000 equity and fixed income securities globally to create ESG scores and metrics for approximately 32,000 multi-asset class Mutual Funds and ETFs globally. MSCI ESG Fund Ratings aims to provide fund-level transparency to help clients better understand and measure the ESG characteristics of the total portfolio, and rank or screen funds based on a diverse set of ESG exposure categories.

1.1 Product Features

MSCI ESG Fund Ratings clients receive access to a data feed of approximately 32,000 funds in the coverage universe.

1.1.1 MSCI ESG Fund Ratings (AAA-CCC)

The MSCI ESG Fund Ratings is designed to assess the resilience of a fund’s aggregate holdings to long term ESG risks. Highly rated funds consist of issuers with leading or improving management of key ESG risks.

1.1.2 Fund ESG Quality Score & E, S, G Scores (0-10)

Each fund in the coverage universe will receive an overall “Fund ESG Quality Score” (0-10) as well as an Environmental, Social and Governance Score (0-10). The overall “Fund ESG Quality Score” aggregates issuer-level ESG scores to provide investors with an indication of the overall fund-level ESG score based on the fund’s underlying holdings.

1.1.3 Percentile Rank

Also available are Global and Peer Group Percentile Ranks (0-100) calculated using fund-level “ESG Quality Scores” and the Lipper Global Classification for a definition of peer groups.

1.1.4 Over 200 ESG Metrics

Clients also have access to over 200 fund metrics to evaluate the ESG attributes of their fund and fall into three categories: sustainable impact, values alignment and risks.

Sustainable Impact;
fund exposure to
companies that address
core environmental &
social challenges

Values Alignment;
screens funds for
investments that align
with ethical, religious or
political values

**Risk; understand
fund exposure to
ESG-related risks**

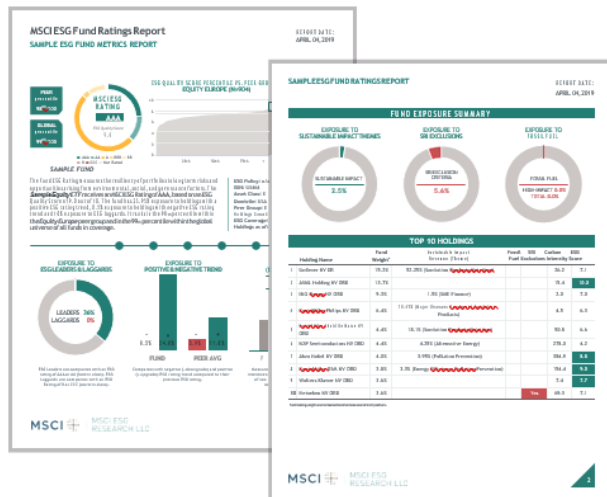


- **Sustainable Impact** metrics to help investors measure fund exposure to publicly traded companies addressing core environmental and social challenges. May be used by impact-based investors with a preference to capture measurable social returns per dollar invested including clean technology exposure, community building, or access to healthcare.
- **Values alignment** metrics help investors screen for investments that align with ethical, religious, or political value. May be used by values-based investors with a preference to avoid businesses involved in tobacco, weapons manufacturing, or human rights violations.
- **Exposure to ESG risks** metrics to help investors understand fund exposure to ESG-related risks. May be used by long-horizon investors with a goal of limiting potential financial costs connected with issues like water scarcity, or carbon regulations.

1.1.5 Fund Ratings Reports

The MSCI ESG Fund Ratings Report highlights fund exposure to over 200 metrics organized under three themes: Values Alignment, Sustainable Impact and ESG Risks.

SAMPLE ESG FUND RATINGS REPORT



The updated report includes the following features:

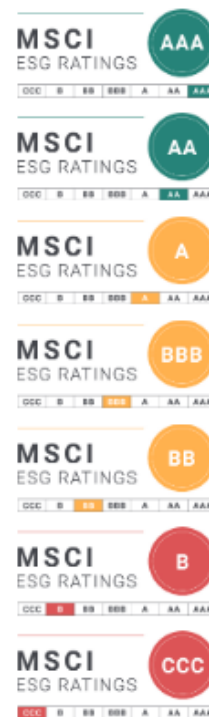
- Indicates the top-level ESG Fund Rating as well as the Fund ESG Quality Score (0-10 scale) and fund peer group average for comparison purposes
- Highlights fund exposure to over 200 metrics organized under three themes: Values Alignment, Sustainable Impact and ESG Risks.
- Identifies the top 10 fund holdings with detail on Sustainable Impact Solutions revenue, Fossil Fuel ownership, SRI Exclusion, and Carbon Intensity
- Showcases the fund holdings’ ESG Fund Rating Distribution and the ESG Fund Rating momentum trend, either positive or negative, over time
- Provides the fund Carbon Intensity compared to the Peer Group Average and five MSCI Indexes.

1.1.6 Fund Ratings Badge

MSCI ESG Fund Ratings Badges are awarded to funds with qualifying ratings. Separate badges are available for meeting the requirements of Peer Rank Top 10%, Peer Rank Top 20%, Global Rank Top 10%, and Global Rank Top 20%.

MSCI ESG Research grants asset managers permission to use the MSCI ESG Fund Ratings Badge associated with their funds in public facing fund-related documents or web pages. Users are required to sign a no cost license with terms and conditions of use and required disclosures.

For more information please contact ESG Client Service at esgclientservice@msci.com.



2 Methodology

2.1 MSCI ESG Fund Ratings Inclusion Criteria

MSCI ESG Fund Ratings holdings data is sourced from Lipper. To be included in MSCI ESG Fund Ratings, a fund must pass the following three criteria:

1. 65% of the fund’s gross weight must come from covered securities.
 - a. The coverage universe for issuers consists of MSCI ESG Ratings (over 7,500 companies and more than 600,000 equity and fixed income securities globally). See Appendix 1 for a detailed description of MSCI ESG Ratings coverage.
 - b. Cash positions and other asset types not relevant for ESG analysis are removed prior to calculating a fund’s gross weight. See Appendix 3 for a full listing of excluded asset types.
 - c. The absolute values of short positions are included in a fund’s gross weight calculation, but are treated as uncovered for ESG data
 - d. Security asset type must have recourse to the rated issuer. See Appendix 2 for a list of eligible asset types.
2. Fund holdings date must be less than one year old.
3. Fund must have at least ten securities.

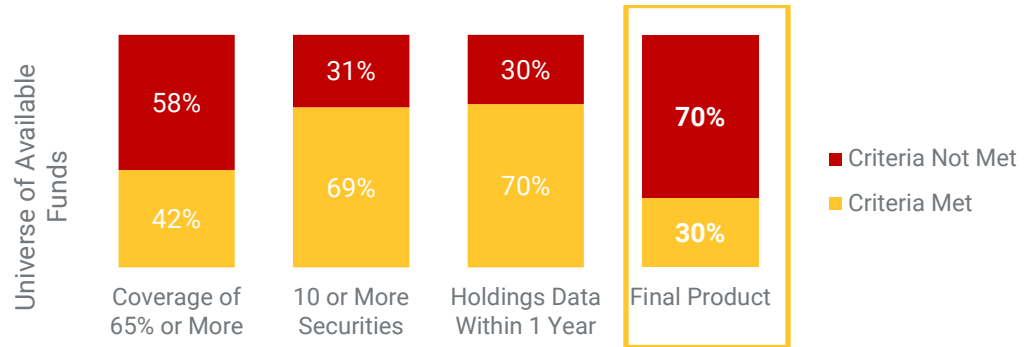
Fund ESG Coverage Calculation Example

	Market Value	Fund Weight	Absolute Market Value	Gross Weight	ESG Rated	Contributes towards Fund Metrics Coverage	Covered Weight
Security A	400	50%	400	40%	Yes	Yes	40%
Security B	400	50%	400	40%	Yes	Yes	40%
Security C	100	13%	100	10%	No	No. Security not covered by ESG Ratings	0%
Security D	-100	-13%	100	10%	Yes	No. Security held as a short position	0%
Total	800	100%	1,000	100%			80%

As of March 1, 2019, there were over 126,000 equity, fixed income, and mixed asset class mutual funds and ETFs in the Lipper universe. Approximately 32,000 passed all necessary criteria to be included in the MSCI ESG Fund Ratings.

Upon request, MSCI ESG Research can provide fund metrics for funds excluded from MSCI ESG Fund Ratings due to falling below the 65% inclusion threshold. These

metrics will only be based upon covered holdings in the fund. As a result, they may not fully represent the fund's ESG performance given the lack of coverage.



2.2 ESG Fund Rating

The top-rating, the “Fund ESG Rating”, is designed to assess the resilience of a fund’s aggregate holdings to long term ESG risks. Highly rated funds consist of issuers with leading or improving management of key ESG risks.

ESG FUND RATINGS		WHAT IT MEANS
AAA	LEADER	The companies that the fund invests in tend to show strong and/or improving management of financially relevant environmental, social and governance issues. These companies may be more resilient to disruptions arising from ESG events.
AA		
A	AVERAGE	The fund invests in companies that tend to show average management of ESG issues, or in a mix of companies with both above-average and below-average ESG risk management.
BBB		
BB		
B	LAGGARD	The fund is exposed to companies that do not demonstrate adequate management of the ESG risks that they face or show worsening management of these issues. These companies may be more vulnerable to disruptions arising from ESG events.
CCC		

The Fund ESG Rating is calculated as a direct mapping of “Fund ESG Quality Score” to letter rating categories.

Fund ESG Quality Score	Fund ESG Rating
8.6* - 10.0	AAA
7.1 - 8.6	AA
5.7 - 7.1	A
4.3 - 5.7	BBB
2.9 - 4.3	BB
1.4 - 2.9	B
0.0 - 1.4	CCC

*Appearance of overlap in the score ranges is due to rounding. Every possible score falls within the range of only one letter rating. The 0 to 10 scale is divided into 7 equal parts, each corresponding to a letter rating.

2.3 Fund ESG Quality Score

The “Fund ESG Quality Score” assesses the resilience of a fund’s aggregate holdings to long term ESG risks. Highly rated funds consist of issuers with leading or improving management of key ESG risks, based on a granular breakdown of each issuer’s business: its core product or business segments, the locations of its assets or revenues, and other relevant measures such as outsourced production. The “Fund ESG Quality Score” is provided on a 0-10 score, with 0 and 10 being the respective lowest and highest possible fund scores.

The “Fund ESG Quality Score” is assessed using the underlying holding’s “Overall ESG Scores”, “Overall ESG Ratings”, and “Overall ESG Rating Trends”. It is calculated in a series of 3 steps.

Step 1: Calculate the “Fund Weighted Average ESG Score” of the underlying holding’s “Overall ESG Scores”. The Overall ESG Scores represent either the ESG Ratings Final Industry-Adjusted Score or Government Adjusted ESG Score of the issuer. Methodology for the issuer level scores are available in the MSCI ESG Ratings Methodology document. The table below demonstrates how the “Fund Weighted Average ESG Score” is calculated. Note that in this example, Security E does not have an ESG Score. Security E is therefore “dropped” from analysis, and the weights of the remaining securities are normalized to 100%. The normalized weights and ESG scores are then used to calculate the “Fund Weighted Average ESG Score” of 6.6.

Step 1 Example

	Weight	ESG Score	ESG Rating	ESG Rating Trend	Normalized Weight	Normalized Weight x Score
Security A	20%	2.5	B	0	25%	0.6
Security B	40%	7.0	A	0	50%	3.5
Security C	8%	8.0	AA	-1	10%	0.8
Security D	12%	6.0	A	1	15%	0.9
Security E	20%	N/A	N/A	N/A	0%	N/A
Total	100%				100%	5.8

Step 2: Calculate adjustment % based on fund exposure to “Fund ESG Laggards (%)”, “Fund ESG Trend Negative (%)”, and “Fund ESG Trend Positive (%)”.

$$\text{Adjustment \%} = \text{“Fund ESG Trend Positive (\%)”} - \text{“Fund ESG Laggards (\%)”} - \text{“Fund ESG Trend Negative (\%)”}$$

Step 2 Example

Fund Factors	Fund Values
Fund ESG Trend Positive	12%
Minus Fund ESG Laggards	20%
Minus Fund ESG Trend Negative	8%
= Adjustment %	-16%

Step 3: Multiply the “Fund Weighted Average ESG Score” by (1 + Adjustment %).

Step 3 Example

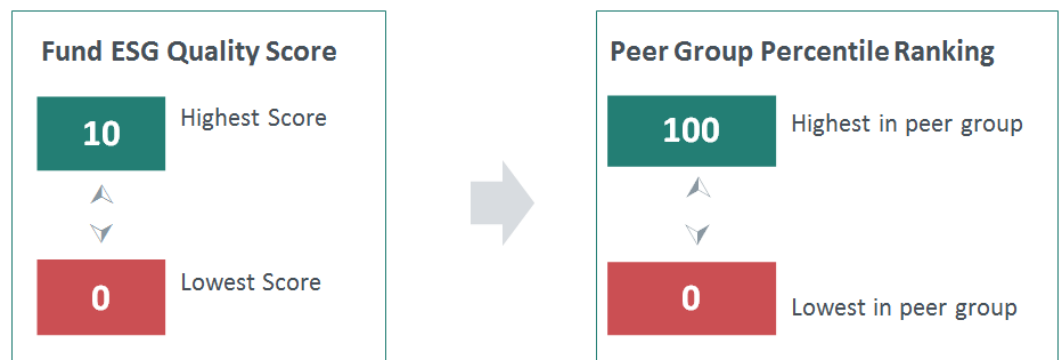
Fund Factors	Fund Values
Fund Weighted Average ESG Score	5.83
X Adjustment %	-16%
= ESG Quality Score	4.89

Calculation Table:

	Sample Fund
Weighted Average ESG Score	5.83
Adjustment	
(+) Fund ESG Trend Positive	12.00%
(-) Fund ESG Trend Negative	8.00%
(-) Fund ESG Laggards	20.00%
Fund ESG Score Adjustment (%)	-16.00%
Fund ESG Score Adjustment	-0.93
ESG Quality Score	4.89
ESG Fund Rating	BBB

2.4 Peer Group Percentiles

Each fund’s “ESG Quality Score” is also shown as a percentile in its peer group. The “Fund ESG Quality Score – Peer Percentile” represents the percentage of funds in a fund’s peer group with an “ESG Quality Score” equal to, or lower than, the fund’s “ESG Quality Score”.



The peer groups are defined using the Lipper Global Classification Scheme. The following criteria must be met for a fund to receive a “Fund ESG Quality Score – Peer Percentile”:

1. The fund must be categorized by the Lipper Global Classification scheme.
2. The peer group must contain at least 30 funds.
3. The standard deviation of the Fund ESG Quality Score within the peer group must be greater than, or equal to, 0.1.

2.5 Weighted Average Carbon Intensity

The Weighted Average Carbon Intensity measures a fund's exposure to carbon intensive companies. The figure is the sum of security weight (normalized for corporate positions only) multiplied by the security Carbon Intensity.

2.6 Revenue Exposure to Sustainable Impact Solutions (%)

A portfolio's exposure to Sustainable Impact Solutions is the portfolio weighted average of each issuer's percent of revenue generated by Sustainable Impact Solutions goods and services. Additionally, Sustainable Impact Solutions revenue from companies with negative externalities is excluded. Negative externalities refer to very severe and severe ESG controversies, ESG Ratings of CCC and B, direct involvement in predatory lending, involvement in controversial weapons, more than 5% revenue from conventional weapons or firearms, and more than 10% revenue from alcohol or tobacco production.

2.7 SRI Screening Criteria Exposure (%)

The percentage of portfolio's market value exposed to companies flagged for primary (e.g. producer, operator) or secondary (e.g. retailer, distributor, supplier) involvement above a standard revenue threshold in one or more standard SRI exclusion metrics (alcohol, civilian firearms, gambling, weapons, cluster bombs, landmines, nuclear power, GMOs, and tobacco).

2.8 Global Percentiles

Every fund included in MSCI ESG Fund Ratings receives a "Fund ESG Quality Score – Global Percentile". The Global Percentile notes the percentage of funds, covered by MSCI ESG Fund Ratings, with a score lower than, or equal to, a fund's "ESG Quality Score". Considered in conjunction, the Global and Peer Percentiles position a fund from both an absolute (product-wide) and relative (peer category) perspective.

2.9 Treatment of Cash

Cash holdings (and other asset types listed in Appendix 3) are removed prior to calculating Fund ESG Coverage (%). Cash is removed because it is outside the scope

of ESG relevancy. Including it in the coverage figure would lead to the undesired result of funds failing to meet the coverage threshold due to cash allocations.

The weight of cash is included in all metrics that measure exposure to specific criteria (e.g. Tobacco, Fossil Fuel Reserves, ESG Laggards, etc.). Excluding cash from exposure metrics would generate overstated results.

2.10 Treatment of Short Positions

When calculating "Fund ESG Coverage (%)", short positions are always treated as uncovered, even if held as a security of an issuer within ESG coverage. By including the absolute value of short positions in the uncovered portion of a fund, the coverage % will not overstate ESG coverage.

Although short positions are included in the gross value when calculating coverage, they are removed prior to calculating the rest of the MSCI ESG Fund Ratings results. This is because the interpretation of short positions, from an ESG perspective, varies widely based on use case and the specific metric being considered.

3 Appendices

Appendix 1: MSCI ESG Ratings Coverage

The ESG Ratings coverage universe includes over 7,500 companies (13,000 total issuers including subsidiaries) and more than 600,000 equity and fixed income securities globally. As April 2019 the coverage universe is comprised of:

- MSCI World Index
- MSCI Emerging Markets Index
- MSCI US Investible Market Index (IMI)
- MSCI Canada IMI+
- MSCI Europe IMI+
- MSCI UK IMI+
- MSCI Nordic IMI+
- MSCI Australia IMI+
- MSCI South Africa IMI
- MSCI EFM Africa
- MSCI Japan IMI
- MSCI China A International
- MSCI Hong Kong IMI
- MSCI Malaysia IMI
- MSCI Singapore IMI
- MSCI World IMI
- MSCI Emerging Markets IMI MSCI ESG Ratings covers over 85% of market value of a widely used global fixed income benchmark, including:
 - Approximately 95% of the corporate investment grade (listed and non-listed)
 - Approximately 95% of the covered bonds
 - Approximately 99% of the treasuries/Sovereign**
 - Approximately 91% of the government related (ex-Sovereign)**

Approximately 85% of global high yield

Appendix 2: Eligible Asset Types

ESG assessments are generally done at the issuer level. Where an asset has exposure to an underlying issuer, we attempt to map the ESG characteristics of that issuer. For instance, we would map issuer analysis to both a bond and to a derivative based on that bond, to the extent possible. We do not, however, map in cases where there is exposure to multiple underlying issuers, such as index futures. Following is a list of asset types that are eligible for ESG coverage. Asset types outside of this list are not included in MSCI ESG Fund Ratings analysis:

Asset Type		
Agency Security	Depository Receipt	Option on Future
American Depository Receipt	Equity Future	Preference Shares
Bank Loan	Equity Option	Preferred Security
Bond Future	Equity Warrant	Provincial Bond
Certificate	Global Depository Receipt	Real Estate Invst. Trust
Commercial Paper	Government Debt	Rights
Common Shares	International Depository Receipt	Supranational
Convertible Bond	Limited Partnership	Tracking Instrument
Convertible Note	Loan	Treasury Bill
Corporate Debt	Municipal bond	Units

Appendix 3: Excluded Asset Types

Some asset types are out of scope for ESG analysis. They are removed from a fund's holdings, prior to calculating both coverage and ESG analysis, so that the results are reflective only of the portion of the fund relevant to ESG considerations. Following is a list of asset types that are removed prior to calculating fund results:

Asset Type		
Cash	Cash Equivalent	FX Forward
Cash 120 days	Cash Options	Interest Rate Swap
Cash 30 days	Currency	Time / Term Deposit
Cash 60 days	Currency Future	
Cash 90 days	Foreign Exchange	

Contact us

esgclientservice@msci.com

AMERICAS

+ 1 212 804 5299

EUROPE, MIDDLE EAST & AFRICA

+ 44 20 7618 2510

ASIA PACIFIC

+ 612 9033 9339

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