



# ESG RATINGS METHODOLOGY

**Executive Summary** 

MSCI ESG Research

February 2017



# 1 EXECUTIVE SUMMARY

From natural resource scarcity to changing governance standards, from global workforce management to the evolving regulatory landscape, ESG factors can impact the long-term risk and return profile of institutional portfolios. MSCI ESG Ratings are designed to help investors to understand **ESG risks and opportunities** and integrate these factors into their portfolio construction and management process.

Our global team of 140 experienced research analysts assesses thousands of data points across 37 ESG Key Issues, focusing on the intersection between a company's core business and the industry issues that can create significant risks and opportunities for the company. Companies are rated on a AAA-CCC scale relative to the standards and performance of their industry peers.

Figure 1: ESG Rating Framework and Process Overview



#### **DATA**

1000+ data points on ESG policies, programs, and performance;

Data on 65,000 individual directors; 13 years of shareholder meeting results



# **EXPOSURE METRICS**

How exposed is the company to industry material issues?

Based on over 80 business and geographic segment metrics

# **MANAGEMENT METRICS**

How is the company managing each key issue?

600 policy/program metrics, 240 performance metrics; 96 Governance KeyMetrics



#### **SOURCES**

100+ specialized datasets (government, NGO, models)

Company disclosure (10-K, sustainability report, proxy report);

**1600+ media sources monitored daily** (global and local news sources, government, NGO).

# **KEY ISSUE SCORES & WEIGHTS**

**37 Key Issues** selected annually for each industry and weighted based on MSCI's mapping framework.

#### **ESG RATING (AAA-CCC)**

Issue scores and weights combine to overall ESG rating relative to industry peers. **E, S, G scores** 

E, S, G scores also available

#### INSIGHT

Specialized ESG research team provides additional insight through:

Company reports Industry reports Thematic reports Analyst calls & webinars

#### **DATA OUTPUTS**



Access to selected underlying data Ratings, scores, and weights on 350,000 securities 16 years of history

# MONITORING & QUALITY REVIEW



Systematic ongoing daily monitoring of controversies and governance events;

Systematic communication with issuers to verify data accuracy

In-depth quality review processes at all stages of rating, including formal committee review.



## 1.1 MSCI ESG RATINGS METHODOLOGY OVERVIEW

MSCI ESG Ratings research aims to answer the following questions:

- Of the negative externalities that companies in an industry generate, which issues may turn into unanticipated costs for companies in the medium to long term?
- Conversely, which ESG issues affecting an industry may turn into opportunities for companies in the medium to long term?

More specifically, the MSCI ESG Ratings model seeks to answer four key questions about companies:

- What are the most significant ESG risks and opportunities facing a company and its industry?
- How exposed is the company to those key risks and/or opportunities?
- How well is the company managing key risks and opportunities?
- What is the overall picture for the company and how does it compare to its global industry peers?

# **MATERIAL INDUSTRY ESG RISKS AND OPPORTUNITIES**

Environmental, social, and governance risks and opportunities are posed by large scale trends (e.g. climate change, resource scarcity, demographic shifts) as well as by the nature of the company's operations. Companies in the same industry generally face the same major risks and opportunities, though individual exposure can vary.

A risk is material to an industry when it is likely that companies in a given industry will incur substantial costs in connection with it (for example: regulatory ban on a key chemical input requiring reformulation). An opportunity is material to an industry when it is likely that companies in a given industry could capitalize on it for profit (for example: opportunities in clean technology for the LED lighting industry). The MSCI ESG Ratings model focuses only on issues that are determined as material for each industry.

We identify material risks and opportunities for each industry through a quantitative model that looks at ranges and average values for each industry for externalized impacts such as carbon intensity, water intensity, and injury rates. Companies with unusual business models for their industry may face fewer or additional key risks and opportunities. Company-specific exceptions are allowed for companies with diversified business models, facing controversies, or based on industry rules. Once identified, these **Key Issues** are assigned to each industry and company.



Figure 2: MSCI ESG Key Issue Hierarchy

3 Pillars	10 Themes	37 ESG Key Issues	
Environment	Climate Change	Carbon Emissions*	Financing Environmental Impact
		Product Carbon Footprint	Climate Change Vulnerability
	Natural Resources	Water Stress*	Raw Material Sourcing
		Biodiversity & Land Use	
	Pollution & Waste	Toxic Emissions & Waste*	Electronic Waste
		Packaging Material & Waste	
	Environmental	Opportunities in Clean Tech	Opp's in Renewable Energy
	Opportunities	Opportunities in Green Building	
Social	Human Capital	Labor Management*	Human Capital Development
		Health & Safety*	Supply Chain Labor Standards
	Product Liability	Product Safety & Quality	Privacy & Data Security
		Chemical Safety	Responsible Investment
		Financial Product Safety	Health & Demographic Risk
	Stakeholder Opposition	Controversial Sourcing	
	Social Opportunities	Access to Communications	Access to Health Care
		Access to Finance	Opp's in Nutrition & Health
Governance	Corporate Governance*	Board**	Ownership**
		Pay**	Accounting**
	Corporate Behavior	Business Ethics*	Corruption & Instability
		Anti-Competitive Practices*	Financial System Instability
		Tax Transparency*	

 $<sup>\</sup>hbox{* indicates ``universal''' issues assessed for all companies in the MSCI World Index}$ 

#### **KEY ISSUE ASSESSMENT**

# Risks

To understand whether a company is adequately managing a key ESG risk, it is essential to understand both what management strategies it has employed and how exposed it is to the risk. The MSCI ESG Ratings model measures both of these: risk exposure and risk management. To score well on a Key Issue, management needs to be commensurate with the level of exposure: a company with high exposure must also have very strong management, whereas a company with limited exposure can have a more modest approach. Conversely, a highly exposed company with poor management will score worse than a company with the same management practices but lower exposure to the risk.

**Example:** Electric Utilities are typically highly water-dependent, but each company may be more or less exposed to water related risks depending on where its plants

<sup>\*\*</sup> Board, Pay, Ownership, and Accounting carry weight in the ESG Rating model for all companies. Currently, they contribute to the Corporate Governance score directly and 0-10 sub-scores are not available.



are – desert locations present much higher risks than those where water supplies are plentiful. Companies operating in water-scarce regions must take more extensive measures to mitigate these risks than those with abundant access to water.

While Key Issues are identified by looking quantitatively at each industry as a whole, individual companies' exposure to each issue will vary. MSCI ESG Ratings calculate each company's exposure to key ESG risks based on a granular breakdown of its business: its core product or business segments, the locations of its operations, and other relevant measures such as outsourced production or reliance on government contracts. Risk exposure is scored on a 0-10 scale, with 0 representing no exposure and 10 representing very high exposure.

The analysis then takes into account the extent to which a company has developed strategies and demonstrated a strong track record of performance in managing its specific level of risks or opportunities. Controversies occurring within the last three years lead to a deduction from the overall management score on each issue. Management is scored on a 0-10 scale, where 0 represents no evidence of management efforts and 10 represents indications of very strong management.

The Risk Exposure Score and Risk Management Score are combined such that a higher level of exposure requires a higher level of demonstrated management capability in order to achieve the same overall Key Issue Score. Key Issue scores are also on a 0-10 scale, where 0 is very poor and 10 is very good. For instance, a utility focused on conventional power generation is required to have stronger measures for mitigating its carbon and toxic emissions compared to a utility which is largely focused on electricity transmission and distribution which is less polluting compared to conventional generation.

**Example:** Utility Company A focuses on conventional power generation, which typically results in large carbon and toxic emissions. It has high risk exposure in these areas. To score well on these issues, it must have strong risk mitigation programs in place. Utility Company B is largely focused on electricity transmission and distribution, which are less polluting activities. Although they are in the same industry, Company A and Company B have different levels of exposure to these risks. Company B can score as well as Company A with more modest risk mitigation efforts. Alternatively, if Company B has risk mitigation efforts similar to company A, it will score higher overall because its risk management is stronger relative to its risk exposure.

## **Opportunities**

Assessment of opportunities works similarly to risks, but the model for combining exposure and management differs. Exposure indicates the relevance of the opportunity to a given



company based on its current business and geographic segments. Management indicates the company's capacity to take advantage of the opportunity. Where exposure is limited, the key issue score is constrained toward the middle of the 0-10 range, while high exposure allows for both higher and lower scores.

#### **Corporate Governance**

The Corporate Governance Score is an absolute assessment of a company's governance that utilizes a universally applied 0-10 scale. Each company starts with a "perfect 10" score and points are deducted based on the triggering of KeyMetrics. KeyMetrics are triggered when governance practices fall substantially short of global standards.

#### **CONSTRUCTING THE RATING**

The ESG Ratings model is industry relative and uses a weighted average approach.

Key Issue weights are set at the GICS Sub-Industry level (8-digit) based on each industry's relative external impact and the time horizon associated with each risk. Key Issues and weights undergo a formal review and feedback process at the end of each calendar year. Corporate Governance is always material and therefore always weighted and analyzed for all companies. Where there are company-specific exceptions, weights depart from the industry standard weights but remain in proportion.

For each company a Weighted Average Key Issue Score is calculated based on the underlying Key Issue scores and weights.

To arrive at a final letter rating, the Weighted Average Key Issue Score is normalized by industry. The range of scores for each industry is established annually by taking a rolling three-year average of the top and bottom scores among the MSCI ACWI Index constituents; the values are set at the 97.5<sup>th</sup> and 2.5<sup>th</sup> percentile. Using these ranges, the Weighted Average Key Issue Score is converted to an Industry Adjusted Score from 0-10, where zero is worst and 10 is best. The Industry Adjusted Score corresponds to a rating between best (AAA) and worst (CCC). These assessments of company performance are not absolute but are explicitly intended to be relative to the standards and performance of a company's industry peers.

#### 1.2 ESG RATING PROCESS OVERVIEW

#### **DATA SOURCES**

To assess companies' exposure to and management of ESG risks and opportunities, we collect data from the following sources:



- Macro data at segment or geographic level from academic, government, NGO datasets (e.g. Transparency International, US EPA, World Bank)
- Company disclosure (10-K, sustainability report, proxy report, AGM results, etc.)
- Government databases, 1600+ media, NGO, other stakeholder sources regarding specific companies

#### **CORPORATE COMMUNICATIONS**

Companies are invited to participate in a formal data verification process prior to publication of their ESG Ratings report. At that time, companies have the opportunity to review and comment on the facts contained in their existing MSCI ESG Ratings report, as well as to provide MSCI ESG Research any additional ESG information if they wish. This process is also in accordance with the objective of frequently updating company reports with the latest available information as provided by companies. Issuers may request to see their reports and/or to provide updates or corrections at any time.

## **MONITORING AND UPDATES**

Companies are monitored on a systematic and ongoing basis, including daily monitoring of controversies and governance events. New information is reflected in reports on a weekly basis and significant score changes trigger analyst review and re-rating. Companies receive an in-depth review at least annually.

## **QUALITY REVIEW**

Formal in-depth quality review processes take place at each stage of analysis, including automated and quality checks of data and rating publication; industry and market lead oversight of ratings and reports; Methodology Committee approval of any exceptions, truncations, or major (2+) rating changes; and a Ratings Review Committee to review contentious cases.

#### **ANNUAL CONSULTATION**

In November of each year, MSCI ESG Research reviews the Key Issues assigned to each industry as well as their weights. This process also identifies emerging issues and those that have become less significant. As part of this process, MSCI ESG Research consults with clients about proposed changes to Key Issue selections for each industry as well as any proposed new Key Issues.



## 1.3 PRODUCT FEATURES

MSCI ESG Ratings clients receive access to a database of company reports and industry reports. Each company report includes an easy to read summary tear sheet as well as detailed relevant ESG performance data as well as an analysis of possible ESG risks and opportunities facing the company. Industry reports provide updates on the ESG landscape of each industry, and allow for benchmarking of how global players are positioned to anticipate challenges and to tap into opportunities relative to peers.

MSCI ESG Ratings clients also receive scores for each company that include the final company rating and overall industry-adjusted score; weights and scores for each of the E, S, and G pillars; weights and scores for each of the Issues that contribute to the overall rating; and weights and scores for additional ESG issues that clients may incorporate into their own analysis (Carbon Emissions, Water Stress, Toxic Emissions & Waste; Labor Management; Health & Safety; Corporate Governance; Business Ethics; Anticompetitive Practices).

MSCI ESG Ratings scores and/or reports are currently available on MSCI ESG Research's proprietary platform, MSCI ESG Manager, as well as through FactSet, POINT, StyleResearch, and MSCI's BarraOne and Barra Portfolio Manager platforms.

When used in conjunction with conventional financial analysis and valuation methods, MSCI ESG Ratings are designed to help clients:

- Integrate ESG factors into their investment approaches;
- Screen portfolios and trades for emerging and overlooked ESG risks;
- Generate investment ideas using positive and negative outliers on specific ESG issues;
- Generate investment ideas based on ESG developments impacting key industry drivers;
- Conduct due diligence for transactions;
- Determine opportunities for engagement with company management;
- Support implementation of the UN Principles for Responsible Investment (PRI):
  - Smoothly integrate ESG considerations into the investment processes by focusing on the most significant issues – **Principle 1\***
  - Support efforts to engage companies on ESG issues Principle 2\*
  - Support efforts to encourage companies to make ESG-related disclosure by providing benchmarking against peers on key ESG metrics – Principle 3\*
  - Help asset owners to monitor their implementation of ESG principles Principle 4\*
  - Help asset managers to report on ESG mandates Principle 6\*

<sup>\*</sup>Source: http://www.unpri.org/about-pri/the-six-principles/



# 1.4 COVERAGE

The ESG Ratings coverage universe comprises the following as of December 2015:

- MSCI World Index
- MSCI Emerging Markets Index
- MSCI US Investable Market Index (IMI)
- MSCI UK IMI
- MSCI Nordic IMI
- MSCI Australia IMI
- MSCI South Africa IMI
- MSCI Canada IMI
- MSCI Europe IMI
- MSCI EFM Africa
- Fixed Income: ESG Ratings coverage of over 84% of the market value of a widely used global fixed income benchmark, including:
  - Approximately 90% of the corporate investment grade (listed and non-listed) bonds
  - Approximately 90% of the covered bonds
  - Approximately 99% of the Treasuries/Sovereign\*
  - Approximately 85% of the government related (ex-Sovereign)\*
    - \*The overall ESG Rating for government-related bond issuers will be either in the ESG Ratings or Government ESG Rating framework.
- More than 8,000 issuers linked to 280,000 individual securities including selected Agencies and Supranationals

Additions to the MSCI ACWI Index and the MSCI US Investable Market Index (IMI) will be rated within one quarter from their addition to the relevant index, while other companies will be rated within two quarters from their addition to the relevant index.



# **CONTACT US**

#### **AMERICAS**

esgclientservice@msci.com

+ 1 212 804 5299

# **EUROPE, MIDDLE EAST & AFRICA**

+ 44 20 7618 2510

#### **ASIA PACIFIC**

+ 612 9033 9339

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