

# MSCI ESG Ratings Methodology: Health & Safety Key Issue

MSCI ESG Research LLC

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## Introduction

This document provides essential information on the components of the Health & Safety Key Issue to enable users of ESG Ratings to understand how our outputs are determined. Health & Safety is a Key Issue in the Social Pillar of the MSCI ESG Ratings model. Companies are evaluated on their management of workplace safety and the workplace safety standards in the industries and regions in which they operate.

For additional details on the MSCI ESG Ratings Model, refer to Section 2, Data, ratings and scores, of "ESG Ratings Methodology."

**Exhibit 1: MSCI ESG Key Issue hierarchy** 

3 Pillars	10 Themes	33 ESG Key Issues
Environmental	Climate Change	Carbon Emissions
		Climate Change Vulnerability
		Financing Environmental Impact
		Product Carbon Footprint
	Natural Capital	Biodiversity & Land Use
		Raw Material Sourcing
		Water Stress
	Pollution & Waste	Electronic Waste
		Packaging Material & Waste
		Toxic Emissions & Waste
	Environmental Opportunities	Opportunities in Clean Tech
		Opportunities in Green Building
		Opportunities in Renewable Energy
	Human Capital	Health & Safety
		Human Capital Development
		Labor Management
		Supply Chain Labor Standards
	Product Liability	Chemical Safety
		Consumer Financial Protection
Social		Privacy & Data Security
		Product Safety & Quality
		Responsible Investment
	Stakeholder Opposition	Community Relations
	Stakeholder Opposition	Controversial Sourcing
	Social Opportunities	Access to Finance
		Access to Health Care
		Opportunities in Nutrition & Health
Governance Corporate Governance	Corporate Governance	Board
	corporate covernance	Pay



3 Pillars	10 Themes	33 ESG Key Issues
		Ownership & Control
		Accounting
	Corporate Behavior	Business Ethics
		Tax Transparency

# Risks associated with this Key Issue

- Decreased operational efficiency, production disruptions.
- Increased costs from litigation, penalties and fines.
- Loss of access to markets or growth opportunities from negative reputational effects.

# **Health & Safety Key Issue Score**

The Health & Safety Key Issue Score evaluates the company's level of exposure to, and management of, risks on this Key Issue. The Key Issue Score is based on the Exposure Score and the Management Score using the formula below. The Exposure Score and the 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.

$$KI_i = 7 - (\max(EXP_i, 2) - MGMT_i)$$

#### Where:

- *KI<sub>i</sub>* is the Key Issue Score for company *i*.
- *EXP<sub>i</sub>* is the Exposure Score for company *i*.
- *MGMT<sub>i</sub>* is the Management Score for company *i*.

# **Health & Safety Management Score**

The Health & Safety Management Score evaluates the company's ability to manage its exposure to risks on this Key Issue. It is based on an average of the scores associated with each of the Management Score categories listed below, modified by Controversies. These scores are derived from data points that are scored on a 0-10



scale, with 10 corresponding to best practice and 0 corresponding to lack of management. Refer to Section 3.3, Analyzing risk management, of "ESG Ratings Methodology" for additional details. Sources are company disclosures except where otherwise indicated. The following formula is used to calculate the Health & Safety Management Score - Excluding Controversies:

$$MGMT_{HES,i} = \frac{GOVS_{HES,i} + TARG_{HES,i} + PERF_{HES,i}}{3}$$

### Where:

- MGMT<sub>HES,i</sub> is the Health & Safety Management Score Excluding Controversies for company i.
- *GOVS*<sub>HES, i</sub> is the Governance & Strategy Score for company i.
- *TARG<sub>HES,i</sub>* is the Targets Score for company *i*.
- *PERF*<sub>HES,i</sub> is the Performance Score for company *i*.

The following data points, without constituting an exhaustive list, are representative of the inputs to the Management Score and are used in the Management Score calculation:

# Management Score category: Governance & Strategy Score

Scope of health and safety policy.

**Definition**: Indicates whether the company's health and safety policy applies to all operations or select operations.

Applicability of health and safety policy to contractors.

**Definition**: Indicates whether contractors are held to the same health and safety policies as employees.

Health and safety policy and practices are audited.

**Definition**: Indicates whether audits are part of the company's health and safety management approach.

Health and safety performance is a factor in CEO compensation.



**Definition**: Indicates whether CEO compensation is linked to health and safety performance.

Executive body is responsible for health and safety strategy.

**Definition**: Indicates whether there is an executive body with explicit responsibility for oversight of the company's health and safety strategy and performance.

• CEO is responsible for health and safety strategy.

**Definition**: Indicates whether the company's CEO has explicit responsibility for oversight of the company's health and safety strategy and performance.

 Senior executive or executive committee is responsible for health and safety strategy.

**Definition**: Indicates whether there is a senior executive or executive committee with explicit responsibility for oversight of the company's health and safety strategy and performance.

Board-level committee is responsible for health and safety strategy.

**Definition**: Indicates whether there is a board-level committee with explicit responsibility for oversight of the company's health and safety strategy and performance.

 Percentage of operations having health and safety management systems certified to recognized standard.

**Definition**: The percentage of operations that have a health and safety management system certified to the OHSAS 18001, ISO 45001, or GB/T28001 standard.

 Evidence of health and safety management system certified to recognized standard.



**Definition**: Indicates whether there is evidence that some portion of the company's operations have a health and safety management system certified to the OHSAS 18001 or ISO 45001 standard.

## Management Score category: Targets Score

Target to improve health and safety performance.

**Definition**: The type of target set by the company to reduce employee accidents and fatalities. Best practice is to set a quantifiable (non-zero) accident reduction target that includes contractors and employees.

## Management Score category: Performance Score

Assesses the company's performance on health and safety metrics (including lost time incident rate, total recordable injury rate, and fatalities) relative to its peers. Expressed as a 0-10 score, where 10 indicates the highest level of performance.

## Representative performance metrics:

- Lost-time incident rate.
- Total recordable injury rate.
- Employee and contractor fatalities.
- Other health and safety metrics.

## **Controversies**

A controversy deduction ranging from 0 to 5 points is subtracted from the overall Management Score - Excluding Controversies, based on the severity and type of controversies facing the company on this Key Issue. The result is the Management Score. The following categories of controversies are used in the assessment:

Health and safety controversies.

For more details on how controversies are included in the MSCI ESG Ratings model, refer to Section 3.3.2, Controversies cases, of "ESG Ratings Methodology."



# **Health & Safety Exposure Score**

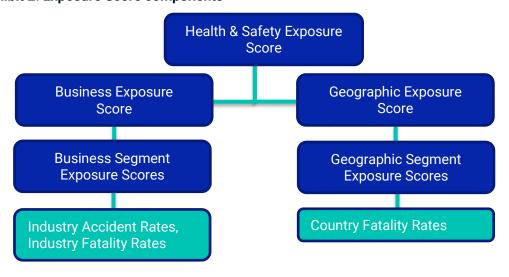
The Health & Safety Exposure Score evaluates the company's exposure to risks on this Key Issue. It is based on the Business and Geographic Exposure Scores. The Geographic Exposure Score functions as a multiplier on the Business Exposure Score, with an impact ranging from -50% to +50%. The Business and Geographic Exposure Scores are scored on a 0-10 scale, with 10 corresponding to the highest risk and 0 corresponding to the lowest risk. Refer to Section 3.2, Analyzing risk exposure, of "ESG Ratings Methodology" for additional details. The following formula is used in the Exposure Score calculation:

$$EXP_{HES,i} = BUS_{HES,i}(1 + 0.1(GEO_{HES,i} - 5))$$

#### Where:

- *EXP<sub>HES.i.</sub>* is the Health & Safety Exposure Score of company *i*.
- $BUS_{HES,i}$  is the Business Exposure Score of company i.
- GEO<sub>HES,i</sub> is the Geographic Exposure Score of company i.

**Exhibit 2: Exposure Score components** 





## **Business Exposure Score**

The Business Exposure Score is a weighted average of the Business Segment Exposure Scores of a company's business segments. Scores are weighted by the proportion of a company's total assets in each business segment,<sup>1</sup> using the following formula to calculate the Business Exposure Score:

$$BUS_{HES,i} = \sum_{j=1}^{n_i} w_{Asset,i,j} BSE_{HES,j}$$

Where:

- BSE<sub>HES,j</sub> is the Business Segment Exposure Score for business segment j.
- $w_{Asset,i,j}$  is the weight of business segment j for company i based on the the contribution to total company assets.
- $n_i$  is the number of business segments of company i.

## **Business Segment Exposure Scores**

The Business Segment Exposure Score of a business segment is based on a mapping of the business segment as disclosed by the company to a corresponding business activity. MSCI ESG Research uses the Standard Industrial Classification (SIC) system along with industry-specific adjustments to define business activities. The score associated with a business activity is used to calculate a Business Segment Exposure Score. Each business activity score is determined by a simple average of the Accident Rate Score of the segment and the Fatality Rate Score of the segment:

$$BSE_{HES,j} = \frac{AR_j + FR_j}{2}$$

Where:

- BSE<sub>HES,j</sub> is the Business Exposure Score for business segment j.
- AR<sub>i</sub> is the Accident Rate Score for business activity j.
- FR<sub>i</sub> is the Fatality Rate Score for business activity j.

<sup>&</sup>lt;sup>1</sup> The percentage of assets is typically calculated as the company-reported asset value of the segment divided by the total asset value. In certain cases, industry-specific metrics are used to calculate the percentage of assets, such as power generation, production volume or reserve value. In cases where neither segment assets nor a relevant industry-specific proxy is available, the percentage is calculated based on segment revenue.



The Accident Rate Score of a business activity is the average of accident rates reported in the United States by the Occupational Safety & Health Administration (OSHA) and accident rates reported in the United Kingdom under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) at a business activity level.

The Fatality Rate Score of a business activity is the average of fatality rates reported in the United States by OSHA and fatality rates reported in the United Kingdom by RIDDOR at a business activity level.

## Geographic Exposure Score

The Geographic Exposure Score is a weighted average of the Exposure Scores of the countries and regions in which a company operates. Scores are weighted by the proportion of a company's total assets in each geographic segment through the following equation:

$$GEO_{HES,i} = \sum_{r=1}^{n_i} w_{Asset,i,r} GSE_{HES,r}$$

Where:

- $GSE_{HES,r}$  is the Geographic Segment Exposure Score in region r.
- $w_{Asset.i.r}$  is the weight of total assets in region r for company i.
- $n_i$  is the number of geographic segments for company i.

For geographic segments reported as regions (example: Asia Pacific), a nominal GDPweighted country aggregation is used to calculate region-level scores, using the following equation:

$$GSE_{HES,r} = \sum_{c=1}^{n_r} w_{GDP,r,c} GE_{HES,c}$$

Where:

- $GSE_{HES,c}$  is the Geographic Segment Exposure Score of country c.
- $w_{GDP,r,c}$  is the specific weight of country c within region r.



## **Geographic Segment Exposure Scores**

The Geographic Segment Exposure Score is determined by the average annual fatalities per 100,000 workers on a 10-year rolling basis reported by the International Labour Organization (ILO):

$$GSE_{HES,c} = \frac{100 * AVGFATAL_c}{AVGEMP_c}$$

#### Where:

- AVGFATAL<sub>c</sub> is the average annual fatalities on a 10-year rolling basis for country c.
- $AVGEMP_c$  is the average total employment in thousands on a 10-year rolling basis for country c.

If there is no data reported by the ILO for a country, a default score of 6.7 is used to classify the country at the lower end of the high-risk band. We assume countries that do not report workplace injuries and fatalities carry high risk.

## **Data Sources**

The following sources are used to determine the Health & Safety Exposure Score: OSHA, RIDDOR, Bureau of Labor Statistics, ILO, Refinitiv, MSCI ESG Research, company disclosures.



## Contact us

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#### **AMERICAS**

United States + 1 888 588 4567 \*
Canada + 1 416 687 6270
Brazil + 55 11 4040 7830
Mexico + 52 81 1253 4020

### **EUROPE, MIDDLE EAST & AFRICA**

South Africa + 27 21 673 0103 Germany + 49 69 133 859 00 Switzerland + 41 22 817 9777 United Kingdom + 44 20 7618 2222 Italy + 39 02 5849 0415 France + 33 17 6769 810

## **ASIA PACIFIC**

China +862161326611 Hong Kong +852 2844 9333 India + 91 22 6784 9160 1800818185 \* Malavsia South Korea + 82 70 4769 4231 Singapore + 65 67011177 Australia +612 9033 9333 008 0112 7513 \* Taiwan Thailand 0018 0015 6207 7181 \* +81345790333 Japan

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