

MSCI WORKFORCE GENDER DIVERSITY DATA METHODOLOGY

MSCI ESG Research

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INTRODUCTION

The MSCI Workforce Gender Diversity data set provides data and an aggregated assessment of companies' workplace gender diversity. Currently, this data set is available for the top 700 Japanese companies by market capitalization¹ (referred to hereafter as "universe").

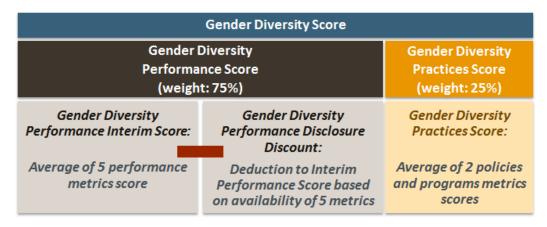
METHODOLOGY

Attraction, retention, and promotion are the core elements of the employment cycle and key focus areas for any company looking to increase its effective utilization of talent. We focus on these three key elements to evaluate a company's support for women's participation and advancement in the workforce. This methodology relies on publicly available data, including company-reported information on women's representation in the workforce (Performance) and workforce diversity policies (Practices). The aggregated Gender Diversity Score is a weighted average of a company's Gender Diversity Performance Score (75% weight) and Gender Diversity Practices Score (25% weight)

¹ Data as of November 2022



Exhibit 1: Workforce gender diversity scoring methodology summary



WORKFORCE GENDER DIVERSITY PERFORMANCE

The underlying data for assessing company's workforce gender diversity performance is based around the core elements of attraction, retention, and promotion. The details of the underlying data are available in the Data Dictionary section of this document and the metrics derived from the underlying data are described below.

PERFORMANCE METRICS

Attraction

- Percentage of women employees among new hires²
- Percentage of women employees in total workforce

Retention

 Percentage difference in average employment years for female and male employees³

Promotion

² Hires of the past year. We include new graduate and mid-career employment, but do not include re-employment.

 $^{^3}$ (Average employment years for female employees – Average employment years for male employees) / Average employment years for male employees



- Percentage of women in senior management⁴
- Percentage of women directors on the board of directors

PERFORMANCE METRIC SCORES

For each of the five performance metric scores, we use the performance metrics (as mentioned above) disclosed by companies in the universe and compute their percentile ranking (0-100) based on the latest available data.⁵ A 0 to 10 score is assigned to each decile, with a score of 1 corresponding to the first decile and a score of 10 corresponding to the top decile. See Exhibit 2 for an example of the conversion process from metric to score.

Exhibit 2: Percentile ranges and corresponding 0-10 scores for each of the five Performance Metrics.

Performance Metric: Percentage of women employees among new hires

Percentage of women employees among new hires	Percentile range	Score
0	0	0
>=0.01 to <16.7	>=10 to <20	1
>=16.7 to <19.8	>=20 to <30	2
>=19.8 to <23.6	>=30 to <40	3
>=23.6 to <27.0	>=40 to <50	4
>=27.0 to <31.1	>=50 to <60	5
>=31.1 to <36.9	>=60 to <70	6
>=36.9 to <43.5	>=70 to <80	7
>=43.5 to <53.6	>=80 to <90	8
>=53.6 to <100.0	>=90 to <100	9
>=100.0	>=100	10

⁴ Following the guidance by the Ministry of Health, Labour and Welfare

(https://www.mhlw.go.ip/content/11900000/000496301.pdf), we define senior management as positions at equal or higher than "Kacho" (head of a department), excluding "Yakuin". "Yakuin" here includes not only statutory positions such as directors of the board and auditors, but those that have similar job description and responsibilities, which may include "Shikkovakuin".

⁵ The most recent year can be different between percentage of women directors and the other performance metrics due to the difference in the data update.



Performance Metric: Percentage of women employees in total workforce

Percentage of women employees in total workforce	Percentile range	Score
0	0	0
>=0.01 to <13.4	>=10 to <20	1
>=13.4 to <16.0	>=20 to <30	2
>=16.0 to <18.7	>=30 to <40	3
>=18.7 to <22.0	>=40 to <50	4
>=22.0 to <27.0	>=50 to <60	5
>=27.0 to <31.6	>=60 to <70	6
>=31.6 to <38.6	>=70 to <80	7
>=38.6 to <48.0	>=80 to <90	8
>=48.0 to <92.3	>=90 to <100	9
>=92.3	>=100	10

Performance Metric: Percentage difference in average employment years for female and male employees

Percentage difference in average employment years for female and male	Percentile range	Score
-100.0	0	0
>=-99.9 to <-32.1	>=10 to <20	1
>=-32.1 to <-26.0	>=20 to <30	2
>=-26.0 to <-22.1	>=30 to <40	3
>=-22.1 to <-18.1	>=40 to <50	4
>=-18.1 to <-13.2	>=50 to <60	5
>=-13.2 to <-8.6	>=60 to <70	6
>=-8.6 to <-3.4	>=70 to <80	7
>=-3.4 to <4.7	>=80 to <90	8
>=4.7 to <136.5	>=90 to <100	9
>=136.5	>=100	10



Performance Metric: Percentage of women in senior management

Percentage of women in senior management	Percentile range	Score
0	0	0
>=0.01 to <2.8	>=10 to <20	1
>=2.8 to <3.7	>=20 to <30	2
>=3.7 to <4.7	>=30 to <40	3
>=4.7 to <6.0	>=40 to <50	4
>=6.0 to <7.9	>=50 to <60	5
>=7.9 to <10.5	>=60 to <70	6
>=10.5 to <15.1	>=70 to <80	7
>=15.1 to <20.0	>=80 to <90	8
>=20.0 to <50.0	>=90 to <100	9
>=50.0	>=100	10

Performance Metric: Percentage of women directors on the board

Percentage of women directors on the board	Percentile range	Score
0	0	0
>=0.01 to <8.3	>=10 to <20	1
>=8.3 to <10.0	>=20 to <30	2
>=10.0 to <11.1	>=30 to <40	3
>=11.1 to <12.5	>=40 to <50	4
>=12.5 to <15.4	>=50 to <60	5
>=15.4 to <18.2	>=60 to <70	6
>=18.2 to <22.2	>=70 to <80	7
>=22.2 to <27.3	>=80 to <90	8
>=27.3 to <50.0	>=90 to <100	9
>=50.0	>=100	10

Note: The percentile band ranges are based on the data as of November 2022.



A simple average of all scores available for each company results in the **Gender Diversity Performance Interim Score**. The next step is to calculate the disclosure discount.

WORKFORCE GENDER DIVERSITY PERFORMANCE DISCLOSURE DISCOUNT

To limit the influence of companies reporting only selective, positive statistics, a disclosure discount is applied to the Gender Diversity Performance Interim Score. The disclosure discount is determined based on the number of gender diversity performance metrics disclosed by the company. The highest possible discount is 20% in cases where only one performance metric is disclosed (Exhibit 3).



Exhibit 3: Level of disclosure discount applicable based on availability of performance metrics

Number of performance metrics disclosed (out of 5)	Percentage deduction applied to workforce gender diversity performance interim score
1	20%
2	15%
3	10%
4	5%
5	0%

WORKFORCE GENDER DIVERSITY PERFORMANCE SCORE

The Workforce Gender Diversity Performance Score is calculated by subtracting the Workforce Gender Diversity Performance Disclosure Discount from the Workforce Gender Diversity Performance Interim Score. See Exhibit 4 for two examples of this discounting process.

Exhibit 4: Example of Workforce Gender Diversity Performance Score Calculations

	Company A (Financials)			Company B (Health Care)		
Performance Metrics	Metric Value	Percen tile	Score	Metric Value	Percen tile	Score
Percentage of Women Employees in New Hires	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Percentage of Women Employees in Total Workforce	48%	80%	9	n.a.	n.a.	n.a.
Percentage Difference in Average Employment Years for Female to Male Employees	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Percentage of Women in Senior Management	50%	90%	10	n.a.	n.a.	n.a.
Percentage of Women Directors on the Board	22.2%	70%	8	11.1%	30%	4
Gender Diversity Performance Interim Score	9 4					
Gender Diversity Performance Disclosure Discount	10%	-	0.9	20%	-	0.8
Gender Diversity Performance Score (Interim Score - Disclosure Discount)		8.1			3.2	



WORKFORCE GENDER DIVERSITY PRACTICES

While quantitative figures are useful to measure women representation in companies' workforces, they provide no indication of efforts or intent to improve diversity. The methodology also considers qualitative factors to measure the strength of companies' gender diversity practices.

PRACTICES METRICS

We examine the existence of workforce diversity policies, management oversight responsibility for diversity, targets for improvement in women's representation and programs that make it easier for women to work – such as flexible working arrangements, subsidized childcare and parental leave. We use the following two qualitative factors in our assessment of gender diversity practices:

- 1. Workforce diversity policy and management oversight
- 2. Programs to increase workforce diversity

WORKFORCE GENDER DIVERSITY PRACTICES SCORE

Each assessment is assigned a score of 0-10 based on a company's disclosure of its policies and programs to empower women in the workforce. The aggregated Workforce Gender Diversity Practices Score is a simple average of the two practices metrics scores. An example of the score calculation is illustrated in Exhibit 5.

Exhibit 5: Example of workforce gender diversity practices score calculations

	Company A (Financials)		Company B (Health Care)	
Practices Metrics	Metric Value	Score	Metric Value	Score
Workforce diversity policy and management oversight	Senior executive or higher level of oversight on diversity performance	5	Employee training on diversity policy	5
Programs to increase workforce diversity	Provides material benefits to facilitate diversity and inclusion	5	No evidence	0
Practices Score (average of two Practices Metrics)	5		2.5	



WORKFORCE GENDER DIVERSITY SCORE

The company's Workforce Gender Diversity Score is computed as the weighted average of the Workforce Gender Diversity Performance Score (75%) and Workforce Gender Diversity Practices Score (25%). See Exhibit 6 for an example of this calculation.

Exhibit 6: Example of workforce gender diversity score calculation

Score	Company A (Financials)	Company B (Health Care)
Gender Performance Score (weight: 75%)	8.1	3.2
Gender Diversity Practices Score (weight: 25%)	5.0	2.5
Gender Diversity Score	7.3	3.0

PUBLICATION UPDATES

DATA COLLECTION PROCESS

MSCI ESG Research collects a wide range of publicly available data from both company-reported and government data sources, and we standardize data, by converting performance metrics to a performance score based on percentile range. We do not use estimated data. Quantitative data is only used if it pertains exclusively to all operations in Japan.⁶ The following sources are used in the Workforce Gender Diversity data set:

- The Database on Promotion of Women's Participation and Advancement in the Workplace, maintained by the Ministry of Health, Labour and Welfare
- Corporate documents such as annual reports, corporate social responsibility reports, securities filings, and company websites
- Major news publications globally, including local-language sources

⁶ For holding companies whose primary business is controlling other companies and fulfilling headquarters function, we only consider gender diversity data which covers at least one domestic subsidiary in addition to the holding company. For non-holding companies, domestic data prepared on a non-consolidated basis may be used if consolidated domestic data is not available.



ONGOING MONITORING AND UPDATES OF DATA

Generally, board director data is obtained by MSCI ESG Research on an ongoing basis and therefore we reflect updates to companies' board directors. Company data from the Ministry of Health, Labour and Welfare and company disclosure is usually obtained between December and February and published by MSCI ESG Research in April, annually.

COVERAGE

As of February 2023, Gender Diversity data covered the top 700 Japanese companies by market capitalization (as of Nov. 2022).

HISTORY OF UPDATES

Date	Update	Description
July 3, 2017	Product launch	Launch of MSCI Workforce Gender Diversity data
July 1, 2019	Coverage expansion	Coverage expansion to the top 700 Japanese companies by market capitalization
March 20, 2023	Methodology enhancements	Updated the percentile band ranges and corresponding scores for all performance metrics using data as of March 2023.

DATA DICTIONARY

Factor Type	Factor Name	Factor Description
Underlying Data	Year	This date represents the year of captured gender diversity data
Underlying Data	Number of Women Employees in New Hires	This data represents number of women employees in new hires
Underlying Data	Total Number of Newly Hired Employees	This data represents total number of newly hired employees



	1 -	1
Underlying Data	Percentage of Women Employees	This data represents percentage of women employees in new hires
	in New Hires	
Score	Score: Percentage	This score measures company's performance on
	of women	level of hiring women employees in its workforce
	employees in new	(Score 0-10, 10 indicates companies with the
	hires	highest percentages of women among new hires)
Underlying Data	Average Years	This data represents the average number of years
ondonying bata	Employed by the	for female employees employed by the company
	Company for	The state of the s
	Female Employees	
Underlying Data	Average Years	This data represents the average number of years
onderlying butt	Employed by the	for male employees employed by the company
	Company for Male	To male employees employed by the company
	Employees	
Underlying Data	Percentage	This data represents the percentage difference in
Officerrying Data	Difference in	average employment years for female to male
	Average	employees
	Employment Years	
	for Female to Male	
	Employees	
Score	Score: Percentage	This score measures company's performance on
	difference in	average employment years for female employees
	average	as compared to male employees (Score 0-10, 10
	employment years	indicates companies where the difference in
	for female to male	average employment years of female and male
	employees	employees is lowest)
Underlying Data	Number of Women	This data represents the total number of women
	Employees in	employees in the workforce
	Workforce	
Underlying Data	Total Workforce	This data represents the total number of
		employees in the workforce
Underlying Data	Percentage of	This data represents the percentage of women
	Women Employees	employees in total workforce
	in Total Workforce	
Score	Score: Percentage	This score measures company's performance on
333.6	of women	level of women employees in total workforce
	employees in total	(Score 0-10, 10 indicates companies with the
	workforce	highest percentages of women employees in total
		workforce)
Underlying Data	Number of Women	This data represents the total number of women
Onderlying Data	in Senior	employees in senior management (managers and
	Management	above)
Underlying Data	Total Number of	This data represents the total number of
	Employees in Senior	employees in senior management (managers and
	Management	above)
	ivialiayelllellt	above)



Underlying Data	Percentage of Women in Senior Management	This data represents the percentage of women employees in senior management (managers and above)
Score	Score: Percentage of women in senior management	This score measures company's performance on level of women employees in senior management (managers and above) (Score 0-10, 10 indicates companies with the highest percentages of women employees in senior management)
Underlying Data	Number of Women Directors on the Board	This data represents the number of women directors on the board
Underlying Data	Total Number of Directors on the Board	This data represents the total number of director on the board of directors
Underlying Data	Percentage of Women Directors on the Board	This data represents the percentage of women directors on the company's board of directors
Score	Score: Percentage of women directors on the board	This score measures company's performance on level of women directors on the board of directors (Score 0-10, 10 indicates companies with the highest percentages of women directors in the board)
Score	Gender Diversity Performance Interim Score	Assesses company's performance on disclosed gender diversity metrics, derived as a simple average of 5 sub-factor scores (1) Score: Percentage of women employees in new hires, (2) Score: Percentage difference in average employment years for female to male employees, (3) Score: Percentage of women employees in total workforce, (4) Score: Percentage of women in senior management, and (5) Score: Percentage of women directors on the board (Score 0-10)
Underlying Data	Gender Diversity Disclosure Level	This data measures the percentage of gender diversity performance metrics disclosed by the company based on availability of the 5 sub-factors (1) Percentage of Women Employees in New Hires, (2) Percentage Difference in Average Employment Years for Female to Male Employees, (3) Percentage of Women Employees in Total Workforce, (4) Percentage of Women in Senior Management, and (5) Percentage of Women Directors on the Board



Score	Gender Diversity Performance Disclosure Discount Gender Diversity	This score measures the discount to be applied to the Gender Diversity Performance Interim Score in proportion to the number of diversity metrics disclosed by the company. Higher the number of performance metrics disclosed, lower the Gender Diversity Performance Disclosure Discount (Score 0-2) Assesses company performance incorporating
	Performance Score	disclosure discount (for non-disclosed performance metrics), derived as a simple subtraction of 2 sub-factors (1) Gender Diversity Performance Interim Score, and (2) Gender Diversity Performance Disclosure Discount (Score 0-10)
Underlying Data	Workforce Diversity Policy and Management Oversight	This qualitative data points indicates our assessment of company's diversity policy and oversight by (1) providing its employees training on its diversity policy, and (2) senior executive or higher level of oversight on diversity performance (Qualitative assessment)
Underlying Data	Programs to Increase Workforce Diversity	This qualitative data points indicates our assessment of company's programs to increase workforce diversity by (1) providing material benefits to its employees to facilitate diversity and inclusion, and (2) quantitative diversity targets in recruitment process (Qualitative assessment)
Score	Gender Diversity Practices Score	Assesses a company's management policy and programs to improve workforce diversity, derived from the simple average of following sub-factor scores: (1) Workforce diversity policy and management oversight, and (2) Programs to increase workforce diversity (Score 0-10)
Score	Gender Diversity Score	Assesses a company's overall practices to improve gender diversity and performance on gender diversity related metrics and disclosure, derived from the weighted average of following sub-factor scores: (1) Gender Diversity Practices Score, and (2) Gender Diversity Performance Score (Score 0-10)



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