

# ESG Data

See the Bridgestone Group's [ESG data online](#) for complete information.

All of the Bridgestone Group's environmental data and a portion of its social data in FY2020 are verified by Lloyd's Register Quality Assurance (LRQA), a third-party institution, to ensure the accuracy and transparency of this information. The Group has also received gap analysis for part of its social data by LRQA to improve data calculation method and aggregation method.

**LEGEND** FY2020 data items in **bold** are those for which assurance is provided by LRQA.  
FY2020 data items in *italic* are those reviewed through the verification processes by LRQA.



## Environment-related Data<sup>1</sup>

Data item	FY2017	FY2018	FY2019	FY2020	GRI
<b>Materials</b>					
<b>Amount of raw materials used</b>	5,047 thousand tonnes	5,229 thousand tonnes	5,048 thousand tonnes	<b>4,147 thousand tonnes</b>	301-1
<b>Resource productivity<sup>2</sup></b>	JPY 723 thousand/tonnes (USD 6.40 thousand/tonnes)	JPY 698 thousand/tonnes (USD 6.29 thousand/tonnes)	JPY 698 thousand/tonnes (USD 6.37 thousand/tonnes)	<b>JPY 722 thousand/tonnes</b> (USD 6.98 thousand/tonnes)	-
<b>Ratio of recycled and renewable material<sup>3</sup></b>	-	-	-	<b>37%</b>	301-1
<b>(Ratio of renewable material)<sup>3</sup></b>	-	-	-	<b>26%</b>	301-1
<b>(Ratio of recycled material)<sup>3</sup></b>	-	-	-	<b>11%</b>	301-2
<b>Energy</b>					
<b>Total energy consumption<sup>4</sup></b>	45,838 thousand GJ	46,014 thousand GJ	45,002 thousand GJ	<b>38,297 thousand GJ</b>	302-1
<b>Energy consumption (fuel)<sup>5</sup></b>	26,932 thousand GJ	26,881 thousand GJ	26,192 thousand GJ	<b>22,032 thousand GJ</b>	302-1
<b>Energy consumption (purchased electricity)</b>	4,802 thousand MWh	4,929 thousand MWh	4,852 thousand MWh	<b>4,188 thousand MWh</b>	302-1
<b>Energy consumption (purchased steam)</b>	1,630 thousand GJ	1,429 thousand GJ	1,382 thousand GJ	<b>1,191 thousand GJ</b>	302-1
<i>Energy consumption per unit of sales</i>	1,258 GJ/JPY 100 million (1,422 GJ/USD million)	1,261 GJ/JPY100 million (1,412 GJ/USD million)	1,276 GJ/JPY100 million (1,398 GJ/USD million)	<b>1,279 GJ/JPY100 million</b> (1,324 GJ/USD million)	302-3
<b>Renewable energy ratio (electricity)<sup>6</sup></b>	-	4.3%	4.7%	<b>11.0%</b>	-
<b>Total energy consumption (renewable)</b>	-	885 thousand GJ	953 thousand GJ	<b>1,752 thousand GJ</b>	302-1
<b>Total energy consumption (non-renewable)</b>	-	45,130 thousand GJ	44,049 thousand GJ	<b>36,545 thousand GJ</b>	302-1
<b>Water and Effluents</b>					
<b>Total water withdrawal<sup>7</sup></b>	68,685 thousand m <sup>3</sup>	71,303 thousand m <sup>3</sup>	68,303 thousand m <sup>3</sup>	<b>63,743 thousand m<sup>3</sup></b>	303-3
<b>Water withdrawal (surface water)</b>	3,258 thousand m <sup>3</sup>	2,926 thousand m <sup>3</sup>	3,131 thousand m <sup>3</sup>	<b>2,856 thousand m<sup>3</sup></b>	303-3
<b>Water withdrawal (groundwater)</b>	10,192 thousand m <sup>3</sup>	10,312 thousand m <sup>3</sup>	9,708 thousand m <sup>3</sup>	<b>8,480 thousand m<sup>3</sup></b>	303-3
<b>Water withdrawal (water supply, industrial water)</b>	18,810 thousand m <sup>3</sup>	18,384 thousand m <sup>3</sup>	17,294 thousand m <sup>3</sup>	<b>16,136 thousand m<sup>3</sup></b>	303-3
<b>Water withdrawal (seawater)</b>	36,426 thousand m <sup>3</sup>	39,681 thousand m <sup>3</sup>	37,844 thousand m <sup>3</sup>	<b>36,271 thousand m<sup>3</sup></b>	303-3
<b>Total water withdrawal by manufacturing facilities in water stress areas<sup>8</sup></b>	3,450 thousand m <sup>3</sup>	3,495 thousand m <sup>3</sup>	3,208 thousand m <sup>3</sup>	<b>2,875 thousand m<sup>3</sup></b>	303-3

<sup>1</sup> Data represents all Bridgestone Group facilities for the period of January 1 – December 31 for each year referenced. Part of the data includes estimated figures.

<sup>2</sup> Sales per raw material used.

<sup>3</sup> Within total material weight for tire products including tire casing for retreading.

<sup>4</sup> Calculated by "fuel consumption + purchased electricity + purchased steam + solar power generation, etc. - electricity sold".

<sup>5</sup> Includes fuels used for in-house power generation.

<sup>6</sup> Calculated by "(purchased electricity from renewable sources + self-generated renewable electricity)/(purchased electricity + self-generated renewable electricity - electricity sold)".

<sup>7</sup> The water withdrawal does not include the recycled water from third party and the rainwater.

<sup>8</sup> Manufacturing facilities that have water-related risks due to the locations with the risk of deterioration of fresh water resources in terms of quantity and quality.

## ESG Data

### Environment-related Data<sup>1</sup>

Data item	FY2017	FY2018	FY2019	FY2020	GRI
<b>Emissions</b>					
Greenhouse gas emissions (CO <sub>2</sub> Scope 1)	1,871 thousand t-CO <sub>2</sub>	1,868 thousand t-CO <sub>2</sub>	1,807 thousand t-CO <sub>2</sub>	1,504 thousand t-CO <sub>2</sub>	305-1
Greenhouse gas emissions (CO <sub>2</sub> Scope 2, market-based)	2,327 thousand t-CO <sub>2</sub>	2,263 thousand t-CO <sub>2</sub>	2,139 thousand t-CO <sub>2</sub>	1,659 thousand t-CO <sub>2</sub>	305-2
Greenhouse gas emissions (CO <sub>2</sub> , Scope 1 + Scope 2, market-based)	4,197 thousand t-CO <sub>2</sub>	4,131 thousand t-CO <sub>2</sub>	3,946 thousand t-CO <sub>2</sub>	3,162 thousand t-CO <sub>2</sub>	-
Greenhouse gas emissions (Scope 3) <sup>9</sup>	128,884 thousand t-CO <sub>2</sub>	135,669 thousand t-CO <sub>2</sub>	121,566 thousand t-CO <sub>2</sub>	109,131 thousand t-CO <sub>2</sub>	305-3
NOx emissions <sup>10</sup>	2,055 tonnes	2,041 tonnes	1,969 tonnes	1,629 tonnes	305-7
SOx emissions <sup>10</sup>	1,141 tonnes	937 tonnes	850 tonnes	603 tonnes	305-7
<b>Waste</b>					
Volume of waste generated <sup>11</sup>	303 thousand tonnes	352 thousand tonnes	360 thousand tonnes	289 thousand tonnes	306-3
Volume of recycled waste	274 thousand tonnes	311 thousand tonnes	308 thousand tonnes	259 thousand tonnes	306-4
Recycling waste rate	90%	88%	86%	90%	306-4
Volume of waste to landfill	30 thousand tonnes	41 thousand tonnes	52 thousand tonnes	30 thousand tonnes	306-5
Volume of regulated hazardous waste generated <sup>12</sup>	-	20 thousand tonnes	21 thousand tonnes	19 thousand tonnes	306-3
<b>Environmental Management</b>					
Sites with ISO 14001 certification <sup>13</sup>	98.7%	98.7%	98.1%	98.0%	-

<sup>9</sup> Category 8, 13 and 15 are excluded from the 15 categories in Scope 3 of the GHG protocol.

<sup>10</sup> Emissions from combustion of fossil fuels estimated based on fuel consumption data and corresponding emission factors.

<sup>11</sup> Total volume of waste including non-hazardous waste and regulated hazardous waste.

<sup>12</sup> Calculated based on laws of each country (Scope of some data is from April 2020 to March 2021).

<sup>13</sup> Within 153 sites that are targeted for ISO 14001 certification (As of December 31, 2020).

### Social- and Governance-related Data

Data item	FY2017	FY2018	FY2019	FY2020	GRI	
Number of employees	Total	142,669	143,509	143,589	138,036	102-7
	Japan	28,375	28,793	29,544	29,701	
	Americas	59,750	58,998	57,054	53,204	
	Europe, Russia, Middle East, India and Africa	17,510	17,637	18,501	21,935	
	China, Asia Pacific	37,034	38,081	38,490	33,196	
Global Executive Committee members	Total	16	9	14	11	405-1
	Number of foreign members	8	5	7	6	
	Percentage of foreign members	50.0%	55.6%	50.0%	54.5%	
Executive Officers, Vice Presidents and Officers <sup>1</sup>	Total	52	52	60	51	405-1
	Number of foreign members	12	10	11	9	
	Percentage of foreign members	23.1%	19.2%	18.3%	17.6%	
Product safety	Sites with ISO 9001 certification <sup>2</sup>	99.0%	99.3%	99.4%	100.0%	416-1

Data as of December 31 for each year referenced.

<sup>1</sup> Including officers of Bridgestone subsidiaries.

<sup>2</sup> 151 sites are targeted for ISO 9001 certification/151 sites are certified (100.0%). Bridgestone requires all manufacturing locations in which it has 50% or more share ratio to achieve ISO 9001 certification.

## Social- and Governance-related Data

Data item	Region	Total	Top Mgmt. positions <sup>4</sup>	Mgmt. positions <sup>5</sup>	Junior Mgmt. positions <sup>6</sup>	Total Mgmt. positions	Other staff and positions	GRI
Female Ratio <sup>3</sup>	Japan	11.5%	0.0%	1.8%	3.3%	2.4%	13.7%	405-1
	Bridgestone Corporation	9.0%	0.0%	1.6%	2.8%	2.2%	10.0%	
	Americas	12.0%	26.1%	22.6%	8.8%	12.7%	12.1%	
	Europe, Russia, Middle East, India and Africa	12.0%	10.7%	13.1%	17.6%	15.8%	11.1%	
	China, Asia Pacific	9.6%	9.3%	13.4%	15.2%	14.9%	9.1%	

Data item		2021	GRI
Number of directors in Bridgestone Corporation (as of April 1, 2021)	Total	12	102-22
	Men	10	
	Women	2	
	Independent external directors	8	
	Men	6	
	Women	2	

Data item		2020	GRI
All directors	Total fees	JPY 299 million / USD 2.794 million	102-35
Independent external directors	Total fees	JPY 138 million / USD 1.290 million	
Executive officers	Total fees	JPY 204 million / USD 1.907million	

<sup>3</sup> Data as of December 31, 2020 from 121,276 employers and employees (87.9 percent of total workforce). The Bridgestone Group's female ratio is verified by Lloyd's Register Quality Assurance, a third-party institution, to ensure the accuracy and transparency of this information.

<sup>4</sup> Management positions with a reporting line no more than two levels below the CEO in each company.

<sup>5</sup> All managerial position excluding "Top management positions" and "Junior management positions."

<sup>6</sup> First-line managers, junior managers and the lowest level of management within a company's management hierarchy.

<sup>7</sup> Data on fees for January 1 – December 31, 2020. The figures above include remuneration paid to four Executive Officers who resigned during the current period.

Data item		FY2017	FY2018	FY2019	FY2020	GRI
Industrial Safety Data	Lost-time injuries frequency rate of employees	-	-	2.86 <sup>1</sup>	2.57	403-9
	Lost-time injuries frequency rate of contractors	-	-	1.86 <sup>1,2</sup>	2.31	403-9
	Number of fatalities of employees	1	0	1	0	403-9
	Number of fatalities of contractors	2	1	0	2	403-9

<sup>1</sup> Updated due to revise the scope of data

<sup>2</sup> The data is for six months from July to December 2019.

## Management-related Data

Data item	FY2017	FY2018	FY2019	FY2020	GRI
Bridgestone Group sales	JPY 3,643.4 billion / USD 32.242 billion	JPY 3,650.1 billion / USD 32.883 billion	JPY 3,525.6 billion / USD 32.180 billion	JPY 2,994.5 billion / USD 28.932 billion	102-7
Rubber production volume	1,880,000 tonnes	1,860,000 tonnes	1,840,000 tonnes	1,450,000 tonnes	102-7
Number of manufacturing facilities <sup>1</sup>	164	163	163	165	102-7

<sup>1</sup> Number of facilities as of April 1 each year. All other data reported as of December 31 each year.