### Manufacturing Sites With Third-Party QMS Certification [Domestic]

Isohara Works; Kitaibaraki Precision Co., Ltd.; Kurami Works; JX Nippon Coil Center Co., Ltd. (Kurami Office, Kawasaki Office); Hitachi Works (Copper Foil Dept.); Ichinoseki Foil Manufacturing Co., Ltd.; JX Metal Smelting Co., Ltd. (Saganoseki Smelter & Refinery, Hitachi Works); Japan Copper Casting Co., Ltd. (Saganoseki Works); JX Metals Trading Co., Ltd. (Takatsuki Plant); JX Metals Precision Technology Co., Ltd. (Esashi Works, Nasu Works, Kakegawa Works); TANIOBIS Japan Co., Ltd. (Headquarters, Mito Plant); and Toho Titanium Co., Ltd. (Headquarters/Chigasaki Plant, Hitachi Plant, Yahata Plant, Wakamatsu Plant, Kurobe Plant)

#### [Overseas]

Nippon Mining & Metals (Suzhou) Co., Ltd.; Nikko Fuji Precision (Wuxi) Co., Ltd.; JX Nippon Mining & Metals Dongguan Co., Ltd.; Nikko Metals Taiwan Co., Ltd. (Longtan Works, Kuanyin Works); JX Nippon Mining & Metals Philippines, Inc.; JX Nippon Mining & Metals USA, Inc.; JX Nippon Mining & Metals Korea Co., Ltd.; TANIOBIS GmbH (Goslar); TANIOBIS Smelting GmbH & Co. KG (Laufenburg); TANIOBIS Co., Ltd. (Map Ta Phut); Materials Service Complex Malaysia Sdn. Bhd.; Materials Service Complex Coil Center (Thailand) Co., Ltd.; and SCM Minera Lumina Copper Chile

### **Quality Control Department Activities**

The Quality Control Department is in charge of planning, proposal, promotion, and oversight for enhancement of Group-wide quality control. This department is also engaged in clarifying Group-wide QMS requirements, improving the effectiveness of internal quality audits, and supporting quality improvement activities and quality control education at manufacturing sites.

In fiscal 2021, we continued to remotely conduct internal

quality audits at 13 sites in Japan and overseas, despite restrictions imposed by the COVID-19 pandemic.



### **Liability Claims**

In fiscal 2021, there were no claims pursued under the Product Liability Act due to personal or property damage caused by defects in products made by Group companies.

### **Providing Information on Products and Services**

In accordance with the Basic Quality Policy, the Group provides customers with information on its products and services through product specifications and Safety Data Sheets (SDS)\*. For example, sulfuric acid sold by Group companies is designated as a deleterious substance under Japan's Poisonous and Deleterious Substances Control Act. By limiting our business partners to sellers of poisonous or deleterious substances and issuing SDSs, we strive to prevent serious negative effects on the occupational health and safety for our customers and their employees after delivery.

\* A Safety Data Sheet (or SDS) is a document that provides information on chemical substances, product names, suppliers, hazards, safety precautions, and emergency responses with regard to a given chemical product.

### **Quality Assurance Initiatives With Suppliers**

Cooperation with suppliers is essential for thorough quality assurance. The Group respond to its suppliers based on quality management standards and quality requirements. Our efforts include conducting regular evaluations and guality audits, reducing quality risks, and improving the quality level of our suppliers. We also conduct Supplier Surveys to promote mutual understanding with our suppliers.

### **Promotion of Personnel Quality Education**

The Group ensures that all employees are thoroughly familiar with the Basic Quality Policy through quality control education. In addition, to we also provide quality control education to all employees to improve their problem identification and resolution capability, helping them to logically infer the root cause of a problem and independently resolve it and improve the quality of their work. These training programs, which range from introductory to advanced courses according to the level of the participants, have become an established part of employee training.

Starting in fiscal 2020, the Company's Quality Control Department encourages internal quality auditors to acquire qualifications such as QMS Auditor and is introducing retrospective

training from outside instructors in order to improve their competence.



Quality control education (Headquarters)

# **ESG Data Book**

### Addressing the ICMM's Performance Expectations (PEs)

ICMM, of which JX Nippon Mining & Metals is a member, requires its member companies to conduct PEs\*, a program to verify each company's progress in achieving the roles and results expected of the mining and metals industry. In response, the Group conducted a self-assessment of its corporate office and seven sites. The following is a summary of the assessment results.

plan to undergo third-party validation at the Saganoseki Smelter & Refinery and Hitachi Works, both of JX Metals Smelting Co., Ltd., as well as the Caserones Copper Mine. This is due to their high quantitative importance in terms of elements such a business scale and production volume. \* Performance Expectations (PEs) is a program to evaluate companies' achievement of requirements in the ICMM's Mining Principles and Position Statements. Self-assessments and third-party validations are required for subject sites. Self-assess ments are scored on a three-point scale; Meets, Partially Meets, and Does not Meet

Of the sites for which self-assessment was conducted, we

### Self-Assessment Analysis

Cite	Results						
Sile	Meets*1	Partially Meets*1	Does not meet*1	Not applicable*1	Totai		
Corporate	13	15	1 <sup>*2</sup>	0	29		
JX Metals Smelting Co., Ltd. (Saganoseki Smelter & Refinery)	21	3	0	7	31		
JX Metals Smelting Co., Ltd. (Hitachi Works)	21	3	0	7	31		
TANIOBIS (Goslar)	21	3	0	7	31		
TANIOBIS (Laufenburg)	21	3	0	7	31		
TANIOBIS (Thailand)	21	3	0	7	31		
Caserones Copper Mine	27	3	0	1	31		
Kasuga Mine	22	3	0	6	31		

\*1 Meets: All the criteria indicated for each PE item in the Validation Guidance of ICMM have been met and there is sufficient evidence to demonstrate that these have been met Partially meets: Some of the criteria of the Validation Guidance have been met, or there is some insufficient evidence Does not meet: The criteria have not been met, or there is no evidence Not applicable: Not applicable to Validation Guidance criteria

\*2 This is due to no Group-wide policy prohibiting exploration or development of new mines in World Heritage areas. We will consider the possibility of establishing such a policy going forward



### Mass Balance Table for the Group (Fiscal 2021)

INPUT									
Î			,						
Raw Materia	Is 🗹	Energy 🗹	í	Water Resources					
Primary raw materials		Fuel		Fresh water					
Domestic operating sites	1,378 kt	Domestic operating sites	2,728 TJ	Domestic operating sites	17.7 million				
Overseas operating sites	19 kt	Overseas operating sites	2,290 TJ	Overseas operating sites	9.9 million				
Total	1,397 <sub>kt</sub>	Total	5,018 <sub>TJ</sub>	Total	27.6 million cubic meters				
Recycled raw mate	rials	Electricity*		Seawater					
Domestic operating sites	164 kt	Domestic operating sites	11,804 TJ	Domestic operating sites	33.4 million				
Overseas operating sites	13 kt	Overseas operating sites	9,668 TJ	Overseas operating sites	<ul> <li>million</li> <li>cubic meters</li> </ul>				
Total	178 <sub>kt</sub>	Total	21,472 <sub>TJ</sub>	Total	33.4 million cubic meters				
		* Includes thermal energy (consuming and cold water) supplied by third par	steam, hot water, ties						

# **JX Nippon Mining & Metals Group**

OUTPUT									
				Emiss	ions				
Principal Produ	icts M			LIII00	10115				
Copper concentrate Electrolytic copper Gold Silver Platinum	311 kt 383 kt 35 t 320 t 515 kg	CO2 I Total of domestic Scope1 Scope2 Total of overseas Scope1 Scope2	operating sites 383 kt 282 kt operating sites 155 kt 73 kt	Sulphur o Domestic op Overseas op Total	berating sites 4.4 kt berating sites 0.1 kt 4.5 kt	Nitrogen Domestic o Overseas o Total	oxides 🗹 perating sites 0.3 kt perating sites 0.0 kt 0.3 kt		
Palladium Other metals (selenium, tellurium) Electro-deposited and rolled copper foil Copper alloy, special steel strips, etc. Titanium sponge	2,301 kg 339 t 12 kt 33 kt 20 kt 1.047 kt	Total 892 kt Chemical substances (release and transfer) Total of domestic operating sites 0.42 kt		Final disposal of waste materials Domestic operating sites 8.7 kt Overseas operating sites 45.7 kt Total 54.4 kt		Wastewater Domestic operating sites 52.5 <sup>million</sup> cubic meters Overseas operating sites 1.1 <sup>million</sup> cubic meters Total 53.6 <sup>million</sup> cubic meters			

### **Environmental Management**

### Operating Sites That Have Obtained ISO 14001 Certification (as of March 31, 2022)

Domestic Operating Sites: 29
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Domestic Operating Sites: 29	Overseas Operating Sites: 12
Hitachi Works of JX Nippon Mining & Metals Corporation (including HMC Manufacturing	JX Nippon Mining & Metals Philippines, Inc.
Department, Technology Development Center, Hitachi Seido Works of JX Metals Smelting	JX Nippon Mining & Metals USA, Inc.
Co., Ltd. and JX Nippon Environmental Services Co., Ltd.)	Materials Service Complex Malaysia Sdn. Bhd.
Copper Foil Dept. of JX Nippon Mining & Metals Corporation (including Hitachi Works of JX	JX Nippon Mining & Metals Korea Co., Ltd.
Nippon Foundry Co., Ltd. and Ichinoseki Foil Manufacturing Co., Ltd.)	Nikko Fuji Precision (Wuxi) Co., Ltd.
Isohara Works of JX Nippon Mining & Metals Corporation	Longtan Works of Nikko Metals Taiwan Co., Ltd.
Kurami Works of JX Nippon Mining & Metals Corporation (including JX Nippon Coil Center	Nippon Mining & Metals (Suzhou) Co., Ltd.
Co., Ltd. and the Kurami Office of JX Metals Trading Co., Ltd.)	JX Nippon Mining & Metals Dongguan Co., Ltd.
Saganoseki Smelter & Refinery of JX Metals Smelting Co., Ltd. (including Japan Copper	TANIOBIS GmbH(includes TANIOBIS Smelting GmbH
Casting Co., Ltd., and JX Metals Smelting Logitech Co., Ltd.)	& Co. KG, TANIOBIS Japan Co., Ltd., and TANIOBIS
JX Nippon Tomakomai Chemical Co., Ltd.	Co., Ltd.)
JX Nippon Mikkaichi Recycle Co., Ltd.	
Chigasaki Plant of Toho Titanium Co., Ltd. (including its Kurobe Plant and Wakamatsu Plant	
and Toho Technical Service Co., Ltd.)	
JX Metals Precision Technology Co., Ltd. (Esashi Works, Tatebayashi Works, Nasu Works,	
and Kakegawa Works)	
Amagasaki Office of JX Metals Trading Co., Ltd. (including Takatsuki Plant)	
Shirakawa Plant of JX Nippon Takasho Co., Ltd.	
Tsukuba Factory of Furuuchi Chemical Corporation	

### Energy



\* Energy consumption is calculated by applying the calorific value conversion coefficients for fuel and electricity as stipulated in the Act on the Rational Use of Energy (Energy Conservation Act). (9.97 MJ/kWh or 9.28 MJ/kWh is applied for purchased electricity)

### Breakdown by Fuel Type

	Domestic operating sites	Overseas operating sites
Kerosene (kL)	143	_
Light oil (kL)	2,725	52,663
Class A heavy oil (kL)	9,755	1,003
Class B and C heavy oil (kL)	14,492	1,972
Reclaimed oil (kL)	2,558	_
LPG/Butane (t)	5,399	7
LNG (t)	4,664	843
Coke (t)	3,146	_
Petroleum coke (t)	2,558	—
City gas (thousand cubic meters)	18,343	2,980

### Energy Consumption Intensity at Smelters and Refineries (Fuel and Electricity)

(calorific value in gigajoules per ton of refined copper produced) 20



# Energy Consumption in Logistics Stages (Domestic) 🗹 (calorific value, terajoules)



\* Applicable to specified consigners as defined in the Act on the Rational Use of Energy. Four Group companies fall under this definition: JX Nippon Mining & Metals Corporation, JX Metals Smelting Co., Ltd., Kasuga Mines Co., Ltd., and Pan Pacific Copper Co., Ltd.

### Water Resources

## Water Usage\*1



### Total Water Usage<sup>\*1</sup> ☑



### Water Discharge Volume\*<sup>2</sup>



### Total Water Discharge\*2



\*1 Seawater usage at the Saganoseki Smelter & Refinery of JX Metals Smelting Co., Ltd. is calculated based on pumping capacity. Freshwater usage at the Saganoseki Smelter & Refinery of JX Metals Smelting Co., Ltd. and water usage at other operating sites are based on flowmeter readings or on invoices from the site's respective water utility.

\*2 The volume of water discharged into public waters (oceans and rivers) at each operating site represents the following: an amount calculated based on drainage weirs (Hitachi Works, Isohara Works, JX Nippon Tomakomai Chemical Co., Ltd., and JX Nippon Mikkaichi Recycle Co., Ltd.); an amount obtained by multiplying groundwater usage by a fixed rate (Kurami Works, Toho Titanium Co., Ltd.'s Chigasaki Plant); an amount from invoices (Toho Titanium Co., Ltd.'s Yahata Plant and Kurobe Plant); or an amount based on flowmeter readings (other operating sites). The volume of water discharged into the sewage system at each operating site represents the following: an amount calculated based on daily water discharge (TANIOBIS Co., Ltd.); or an amount based on flowmeter readings or on invoices from the site's respective sewage utility for other operating sites.

### Water Usage Intensity at Smelters and Refineries



### Water Discharge Intensity at Smelters and Refineries



### Water Pollutants

### COD Load 🗹



\* Totals are for operating sites subject to legal requirements (sites that discharge water into oceans)

### BOD Load



\* Totals are for operating sites subject to legal requirements (sites that discharge water into rivers or streams

### **Climate Change**



\* Scope 1 emissions are those from energy consumption (fuel), emissions from incineration of waste materials (waste oil, waste plastic, sludge, waste wood), and emissions from reducing agents, neutralizing agents, graphite electrodes, and recycled materials, converted to equivalent CO2

Scope 2 emissions are those from electricity consumption converted to equivalent CO2. Emissions from electricity consumption include those from thermal energy (consuming steam, hot water, cold water) supplied by third parties. The emission factors applied for Scope 2 calculation are as follows for domestic and overseas Group operating sites, respectively. Domestic: The latest adjusted emission factors per electric power utility

published by the Ministry of the Environment and the Ministry of Economy, Trade and Industry are applied

Overseas: Emission factors published by local power companies, national governments, or country-specific emission factors published in the IEA Emission Factors 2021, issued by the International Energy Agency (IEA), are applied



12

### **Air Pollutants**

### SOx Emissions



\* Totals are for operating sites subject to emissions regulations.

### NOx Emissions



### CO₂ Emission Intensity at Smelters and Refineries ☑

### CO₂ Emissions in Logistics Stages ☑



\* Applicable to specified consigners as defined in the Act on the Rational Use of Energy. Four Group companies fall under this definition: JX Nippon Mining & Metals Corporation, JX Metals Smelting Co., Ltd., Kasuga Mines Co., Ltd., and Pan Pacific Copper Co., Ltd.

#### SOx Emission Intensity at Smelters and Refineries ☑

(kilograms of SOx per ton of refined copper produced)



### NOx Emission Intensity at Smelters and Refineries ☑



### Waste Materials and By-Products

### Volume of Final Disposal of Waste



Mine

\* The volume of final disposal of waste has increased rapidly due to the inclusion of Toho Titanium Co., Ltd.'s offshore landfill volume and final disposal volume of the TANIOBIS Group in calculations, as of fiscal 2020.

#### By-Product Production



#### 71 72 (3.6%) (3.7%) Fiscal 2021 1,961kt 771 1 047 (39.3%) (53.4%)

Sludge Cinders Waste plastics

Fiscal 2020

85.8 kt

83

12.3 (9.6%)

(14.3%)

now treated as waste

2.2

(2.6%)

2.1 L

2.7

(3.1%)

(2.5%) -

Waste oil Acid/Alkaline waste Slag Othe

- 53.3

(62.1%)

5.0

(5.9%)

### **Chemical Substances**

### Volumes of Release and Transfer of PRTR Substances



#### Breakdown of Release Volumes of PRTR Substances

Total Discharge Volume by Type of Waste Materials

12.6

Fiscal 2021

111.6 kt

65.0

3.9

(3.5%)

(+)

(58.2%)

20.9 (11.3%)

(18.7%)

4.5

2.8

(2.5%)

(4.0%)

1.8 

(1.7%)-

\* Total emissions increased because slag, which had been reused as valuable resources, is



### Volumes of Release and Transfer of Major PRTR Substances in Fiscal 2021

							(*
	Cabinat			Release volume	Transfer volume		
No. order no	order no.	Chemical substance	Air	Water	On-site landfill disposal	Sewage systems	Waste materials
1	31	Antimony and its compounds	0.1	0.5	0.0	0.0	7.9
2	75	Cadmium and its compounds	0.1	0.1	0.0	0.0	20.8
3	132	Cobalt and its compounds	0.0	0.1	0.0	0.0	19.5
4	300	Toluene	32.0	0.0	0.0	1.6	281.0
5	305	Lead compounds	0.7	0.1	0.0	0.0	14.6
6	309	Nickel compounds	0.1	0.4	0.0	0.0	9.3
7	354	Dibutyl phthalate	0.0	0.0	0.0	0.3	5.8
8	405	Boron compounds	0.0	9.3	0.0	0.0	3.5
							(g-TEQ)
9	243	Dioxins	0.1	0.0	0.0	0.0	7.0

\* The values given are the total amount reported by operating sites subject to reporting requirements under the PRTR Act. (the domestic companies defined in Scope of this Report on page 3 as subject to Environment section reporting).

Of the 49 chemical substances subject to reporting, those totaling at least 5.0 tons in any category, and dioxins, are listed here. There were no cases of chemical substances released into the soil

### **Occupational Health and Safety**

Occupational and Other Accidents\*1, \*2



\*1 Safety performance data is compiled on a calendar year basis (January to December)

The number of casualties presented in this table includes work-related illnesses such as back pain and heat stroke.

\*3 Until 2019, data included the Company and other Group companies (excluding Toho Titanium Co., Ltd.); however, from 2020, Toho Titanium and subcontractors have also been included in the scope of aggregation, and data has been retroactively revised to 2019. Note that frequency and severity rates are excluded. \*4 Each accident category is defined as follows.

- · Fatalities: Worker deaths resulting from work-related causes • Occupational accidents with severe consequences: Accidents resulting in more than six months of lost work days or a disability grade. . Accidents with lost work days: Accidents requiring one or more days of absence from work for the purpose of examination, treatment or recuperation. These shall in principle be at a physician's discretion. Note that this excludes "Occupational accidents with severe consequences." • Accidents without lost work days: An accident that does not require one full day or more of absence from work as diagnosed by a physician, and in which the affected worker is able to go to work after the accident.
- \*5 Incidences related to the cause of the injury or illness, based on "Types of Accidents," published by the Ministry of Health, Labour and Welfare. \*6 Both the frequency rate (the number of persons harmed or killed due to occupational accidents per million cumulative actual work hours) and the severity rate (number of work days lost per thousand cumulative actual work hours) had only covered Company employees until 2019; however, as of 2020, these figures cover Company employees and employees at other Group companies (including Toho Titanium Co., Ltd.). Note that cumulative working hours are calculated based on the hours reported
- \*7 Safety statistics for subcontractor employees include not only those stationed permanently but also spot vendors. Note that these are subject to statistics for frequency rate and severity rate as of 2020. Here, cumulative work hours are calculated as follows: Number of permanently stationed subcontractor employees at the end of each month x number of operating days x 8 hours/day.
- Labour and Welfare, "Survey on Industrial Accidents") \*8 The Group defines a serious accident as one that results in four or more lost work days, and considers the occupational injury rate per 1,000 employees to be one of its
- number of employees (including employees of regular partner companies) x 1,000)
- \*9 No physical injuries were caused as a result of explosions/fires.
- hours for subcontractors at overseas operating sites, and detailed data such as frequency rates are not disclosed.

	2019	2020	2021
	0	0	0
/ith rsons)*4	0	0	0
days	3	7	10
ork days	10	13	24
	13	20	34
	1	5	6
	1	1	3
	1	3	1
	-	0.00	0.00
th	-	0.00	0.00
days*4	-	0.53	0.74
	-	0.03	0.03
	_	13,290,060	13,442,362
	0	2	0
/ith rsons)	2	0	0
days	2	2	6
ork days	5	6	13
	9	10	19
	1	4	4
evel	0	2	2
	2	0	0
	_	0.64	0.00
th	_	0.00	0.00
days*4	-	0.64	1.94
		4.82	0.11
		3,117,548	3,090,280
	22	30	53
ur or	0.7	1.1	1.7
	3	1	0
	1	0	0
	18	13	19
	3	5	7
	22	18	26
tween	8	3	8
	1	5	4
n	0	3	3

from work sites with production facilities (operations divisions) and major offices such as the head office, including some estimation in the figures.

(Reference) In 2021, the frequency and severity rate of occupational accidents for all businesses in Japan were 2.09 and 0.09, respectively (Source: Ministry of Health,

key indicators for evaluation. (Occupational injury rate per 1,000 employees (four or more lost workdays) = number of casualties with four or more lost workdays - total

\*10 While this includes Group companies and subcontractors, this data should be used only for reference as it is difficult to conduct follow-up surveys and aggregate working

### **Human Resource Development**

### Training Programs Implemented in Fiscal 2021

									(
	Managerial staff			Non-management employees			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total program hours (annual)	13,049	505	13,554	54,244	7,646	61,890	67,293	8,151	75,444
Per employee	30	11	22	42	14	24	24	25	24

(hours)

(persons)

\* Survey scope: Employees of JX Nippon Mining & Metals plus those seconded by the Company to JX Nippon Environmental Services Co., Ltd. and JX Metals Smelting Co., Ltd. (Saganoseki Smelter & Refinery, Hitachi Refinery)

### **Employment and Work Styles**

Survey scope: Companies in which JX Nippon Mining & Metals has 50% or more of their voting rights, directly or indirectly Counting of seconded employees: Includes all employees being seconded to or from the companies subject to this survey

### No. of Employees (by Employment Status and Employment Contract Type; as of March 31, 2022)

				(persorio)
Employment status	Contract type	Male	Female	Total
Full-time	Contracts without fixed terms	8,045	1,249	9,294
	Contracts with fixed terms 524	120	644	
Full-time subtotal	me subtotal		1,369	9,938
Part-time	Contracts without fixed terms	27	45	72
	Contracts with fixed terms	67	36	103
Part-time subtotal		94	81	175
Total		8.663	1.450	10.113

								-
Employment status	Contract type	Japan	North America	South America	Asia	Europe	Middle East	Total
Full-time Cont fixed	Contracts without fixed terms	6,456	123	916	1,423	364	12	9,294
	Contracts with fixed terms	475	2	76	63	28	0	644
Full-time subtotal		6,931	125	992	1,486	392	12	9,938
Contracts without	Contracts with fixed terms	48	0	0	3	21	0	72
	Part-time subtotal	102	0	0	0	1	0	103
Part-time subtotal		150	0	0	3	22	0	175
Total		7,081	125	992	1,489	414	12	10,113

### No. of Employees (by Region; as of March 31, 2022) ☑

							(persons)
	Japan	North America	South America	Asia	Europe	Middle East	Total
Male	6,266	96	904	1,043	342	12	8,663
Female	815	29	88	446	72	0	1,450
Total	7,081	125	992	1,489	414	12	10,113

### No. of Newly Hired Employees (April 1, 2021 to March 31, 202

(persons)									(persons)											
		Male	Female	Total		Age 29 or younger	Age 30 to 49	Age 50 or older	Total											
	New hires	718	151	869	9															
H			101			337	400	132	869											
	Percent of total employee count	8% 10%	9%																	
	as of March 31, 2022	070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	570	570	570		23%	7%	5%	9%

	Japan	North America	South America	Asia	Europe	Middle East	Total
New hires	581	28	140	108	12	0	869
Percent of total employee count as of March 31, 2022	8%	22%	14%	7%	3%	0%	9%

### No. of Employees Ending Employment (April 1, 2021 to March 31, 2022)

			(persons)					(persons)
	Male	Female	Total		Age 29 or	Age 30 to 49	Age 50 or	Total
Retiring employees	550	95	645		younger	7 igo 00 to 10	older	iotai
Percent of total employee count	<u> </u>	70/	<u> </u>		146	309	190	645
as of March 31, 2022	6%	1%	6%		10%	5%	7%	6%

							(persons
	Japan	North America	South America	Asia	Europe	Middle East	Total
Retiring employees	357	34	120	124	10	0	645
Percent of total employee count as of March 31, 2022	5%	27%	12%	8%	2%	0%	6%

\* Figures include employees transferred to companies outside of survey scope and those returning due to termination of secondment. \* Figures do not include employees who were transferred within a company inside the survey scope, or those returning due to termination of secondment. \* Employees retiring at the mandatory retirement age are not in scope.

### Membership in Labor Unions (as of March 31, 2022)

			(persons)					(persons)
	Male	Female	Total		Age 29 or	Age 30 to 49	Age 50 or	Total
No of union mombars	E 400	700	6 005	younger		older		
No. of union members	5,420	799	0,225		1 1 2 0	3 896	1 209	6 225
	0001	====	0001	62%	1,120	5,050	1,203	0,220
Unionization rate	63%	55%	62%		76%	65%	46%	62%

22)	$\checkmark$

(persons)

### **Diversity**

### Use of Childcare Leave in Fiscal 2021 (JX Nippon Mining & Metals)

			(persons)
	Male	Female	Total
No. of employees using leave	20	13	33
No. of employees eligible to use leave*	106	13	119
Usage rate (rounded to nearest percent)	19%	100%	28%

\* Male: Employees with a child born within the fiscal year

Female: Employees whose post-childbirth leave ended during the fiscal year and who can take childcare leave

### Retention Rate After Childcare Leave (Percentage of Those Still Employed 12 Months After Returning From Leave) (JX Nippon Mining & Metals)

			(persons)
	Male	Female	Total
No. of employees who returned to work from childcare leave during fiscal 2020	19	3	22
No. of employees still employed 12 months after returning to work	16	3	19
Percentage	84%	100%	86%

### Rate of Return to Work After Childcare Leave (JX Nippon Mining & Metals)

			(persons)
	Male	Female	Total
No. of employees who returned to work from childcare leave during fiscal 2021	17	12	29
No. of employees scheduled to return to work	17	12	29
Percentage	100%	100%	100%

### Status of Rehiring Efforts in Fiscal 2021 (JX Nippon Mining & Metals)

	(persons)
No. of age-limited retirees	70
No. of these rehired	53
Percentage	76%

#### Persons With Disabilities as a Percentage of the Workforce in Fiscal 2021 (JX Nippon Mining & Metals)

Percentage of employees with disabilities (statutory minimum: 2.3%)	2.21%
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#### No. of Locally Hired Senior Managers Overseas (Section Manager or Above) and Locally Hired Employees (as of March 31, 2022)

				(persons)
		Number of senior managers	Senior managers as a share of locally hired employees*1	Number of locally hired employees*2
North America	Male	13	15%	85
North America	Female	3	10%	29
North America su	ubtotal	16	14%	114
Couth Amorico	Male	43	5%	862
South America	Female	6	7%	86
South America subtotal		49	5%	948
	Male	38	12%	327
Europe	Female	8	12%	68
Europe subtotal	·	46	12%	395
A = i =	Male	106	11%	982
Asia	Female	63	14%	444
Asia subtotal		169	12%	1,426
Total		280	10%	2,883

Scope of aggregation: Overseas Group companies in which JX Nippon Mining & Metals has 50% or more of their voting rights, directly or indirectly Treatment of seconded employees: Employees seconded from companies outside of survey scope to companies inside of survey scope are counted. Employees seconded from companies inside of survey scope to companies outside of survey scope are also counted.

\*1 Percentage calculated as (Number of senior managers ÷ Number of locally hired employees) x 100

\*2 The number of employees directly employed by overseas subsidiaries, excluding employees on secondment and employees transferred to overseas subsidiaries

### Independent Assurance Report

#### To the President and Chief Executive Officer of JX Nippon Mining & Metals Corporation

We were engaged by JX Nippon Mining & Metals Corporation (the "Company") to undertake a limited assurance engagement of the environmental and social performance indicators marked with 🗹 (the "Indicators") for the period from April 1, 2021 to March 31, 2022; the alignment of the Company's policies to the International Council on Mining and Metals ("ICMM")'s 10 Principles, the relevant Corporate-level Performance Expectations (CPEs) and the applicable mandatory requirements set out in ICMM position statement; the Company's prioritization process for selecting assets for the validation of Asset-level Performance Expectations (APEs); the Company's identification and prioritization of material issues and the Company's approach and management of its material issues included in its Sustainability Report 2022 (the "Report") for the fiscal year ended March 31, 2022.

#### The Company's Responsibility

The Company is responsible for the preparation of the Indicators in accordance with its own reporting criteria (the "Company's reporting criteria"), as described in the Report; reporting on the alignment of the Company's policies to the ICMM's 10 Princiles, the relevant CPEs and the applicable mandatory requirements set out in ICMM position statements; reporting on the Company's prioritization process for selecting assets for the validation of APEs; reporting on the Company's identification and prioritization of material issues and reporting on the Company's approach and management of its material issues.

#### **Our Responsibility**

Our responsibility is to express a limited assurance conclusion on the Indicators based on the procedures we have performed. We conducted our engagement in accordance with the 'International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements other than Audits or Reviews of Historical Financial Information' and the 'ISAE 3410, Assurance Engagements on Greenhouse Gas Statements' issued by the International Auditing and Assurance Standards Board. The limited assurance engagement consisted of making inquiries, primarily of persons responsible for the preparation of information presented in the Report, and applying analytical and other procedures, and the procedures performed vary in nature from, and are less in extent than for, a reasonable assurance engagement. The level of assurance provided is thus not as high as that provided by a reasonable assurance engagement. Our assurance procedures included:

- Interviewing the Company's responsible personnel to obtain an understanding of its policy for preparing the Report and reviewing the Company's reporting criteria
- Inquiring about the design of the systems and methods used to collect and process the Indicators.
- · Performing analytical procedures on the Indicators.
- Examining, on a test basis, evidence supporting the generation, aggregation and reporting of the Indicators in conformity with the Company's reporting criteria, and recalculating the Indicators.
- Visiting Toho Titanium Co., Ltd.'s Wakamatsu Plant and Yahata Plant selected on the basis of a risk analysis.
- · Evaluating the overall presentation of the Indicators.
- ICMM position statements through documentation reviews and interviews.
- Interviewing the Company's responsible personnel and reviewing documents with respect to the Company's process of identifying and prioritization its material issues and its approach to and management of its material issues.

#### Conclusion

Based on the procedures performed, as described above, nothing has come to our attention that causes us to believe that: the Indicators in the Report are not prepared, in all material respects, in accordance with the Company's reporting criteria as described in the Report; • the Company's policies are not aligned to the ICMM's 10 Principles and the applicable mandatory requirements set out in ICMM position statements as

- described on page 18 of the Report;
- the Company's self-assessment of the relevant CPEs is not as described on page 108 of the Report;
- the Company's prioritization process for selecting assets for the validation of APEs is not as described on page 108 of the Report;
- the Company has not identified and prioritized its material issues as described on pages 35 and 36 of the Report;
- the Company has not approached and managed its material issues as described on pages 35, 36, 47, 61, 77, 89, 94 and 99 of the Report.

#### **Our Independence and Quality Control**

We have complied with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which includes independence and other requirements founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior. In accordance with International Standard on Quality Control 1, we maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Kazuhiko Saito, Partner, Representative Director KPMG AZSA Sustainability Co., Ltd. Tokyo, Japan March 23, 2023

• Assessing the alignment of the Company's policies to the ICMM's 10 Principles, the relevant CPEs and the applicable mandatory requirements set out in

Assessing the Company's prioritization process for selecting assets for the validation of APEs through documentation reviews and interviews.

Notes to the Reader of Independent Assurance Report

This is a copy of the Independent Assurance Report and the original copies are kept separately by the Company and KPMG AZSA Sustainability Co., Ltd.