Make the World “NAMERAKA*”

The Founders’ Spirit that NTN has embraced since its foundation in 1918 is the “Frontier Spirit,” which encourages us to keep taking on challenges, and the “Coexistence and Co-prosperity Spirit,” which encourages us to develop together with society. The Founders’ Spirit is incorporated into the corporate philosophy as NTN’s DNA, and has been passed down to the employees for over 100 years.

In order to put the corporate philosophy into practice, NTN Group employees are working based on the “NTN SPIRIT,” the mindset and actions they should aim for. Through putting our corporate philosophy into practice, we aim to help solve global social issues, and achieve a sustainable “NAMERAKA Society.”

Corporate Philosophy

We shall contribute to international society through creating new technologies and developing new products.

For New Technology Network

1. Creation of original technologies.
2. Offering the technologies for additional values and service that are suitable for each customer and end user.
3. Improvement of employees’ standard of living, distribution of fair returns to stockholders, and contribution to society based on the steady growth of our business.
4. Promotion of globalization, and formation of management systems/corporate organization which are essential for NTN, as an international leading company.

NTN SPIRIT

Credos

Guidelines

Challenge

Buds appear when we challenge with frontier spirit.

We challenge passionately with no holding back with the current situation.

We respond quickly to any changes, emphasizing on site verification.

We enrich our lives by thinking, acting with resolution and continuing to grow.

Collaboration

Leaves grow through the sport of collaboration with coexistence and co-prosperity.

We accept and respect differences in each other.

We help each other, treating all associates honestly.

We take care of the natural environment and maintain coexistence with local community.

Commitment

Flowers bloom and fruits grow through fulfilling our commitments.

We maximize the quality of work aiming for first-class quality under safety-first policy.

We intend to be the strongest partner delivering customer delight beyond satisfaction.

We support improving lives of people around the world through our work.

Achieving a NAMERAKA society

Bearing technology is used to smoothen the rotating parts of any type of machine. With more precise bearing technology, shafts can rotate more smoothly, minimizing energy loss as much as possible. Bearings are thus a technology for saving energy. The technology developed with bearings will help make electric vehicles, robots and even a natural energy-based society function more smoothly.

Disclaimers

This report contains future results and forecasts regarding NTN’s operating results, strategies, and business results. Please understand that actual business results may vary from the forecasts made herein by the Company.

Reference Guidelines

We are referring to documents with reference to the following guidelines and others.

International Integrated Reporting Council (IIRC) International IFR Framework

Ministry of Economy, Trade and Industry

Guidance for Integrated Corporate Disclosure and Company-related Disclosures for Collaborative Value Creation

Organization Covered and Reporting Period

Reporting Period:

Fiscal year ended March 31, 2020

April 1, 2019 to March 31, 2020

Includes some activities for the fiscal year ending March 31, 2021.

Organization Covered:

NTN Group

Includes some reports for NTN only.

The concepts behind the Production of “NTN Report 2020”

The spread of the new coronavirus has caused global economic activity to shrink, and the NTN Group is also severely affected. At this juncture, we have positioned the Fiscal year ending March 31, 2021 as the “Crisis Response Period” for dealing with the new coronavirus problems, and we have established the business operation policy to “ensure the health and safety of employees” by thoroughly implementing measures to prevent infection as well as to “ensure cash and continue business as usual” in response to future growth in the event of recovery. With regard to corporate governance, we define a committee with a decision-making Committee, etc. the General Meeting of Shareholders held on June 21, 2019, and in July 2020 we added two new Outside Directors to strengthen our corporate governance structure. We also established the Sustainability Committee in November 2019 with the aim of continuously sustainable management. The committee, which is made up of a cross-organizational perspective, plays a key role in identifying important issues together and discusses them with management for the sustainable growth of the NTN Group. This report describes these topics.

Editorial Policy

The NTN Group believes that building trusting relationships with shareholders and various customers, business partners, the international society, local communities, and employees and contribution to the global environment will lead to enhancement of corporate value. In order to report our business activities and sustainability activities to our stakeholders, we have published the NTN Group’s Integrated Report (Integrated Report) since the fiscal year ended March 31, 2019. We will use this report as a means of reporting our business and for establishing measures to prevent infection as well as to “ensure cash and continue business” and “ensure future growth” in the event of recovery. In order to report our business activities and sustainability activities to our stakeholders, we have published the NTN Group’s Integrated Report (Integrated Report) since the fiscal year ended March 31, 2019. We will use this report as a means of reporting our business activities and sustainability activities to our stakeholders.

The committee, which is made up of a cross-organizational perspective, plays a key role in identifying important issues together and discusses them with management for the sustainable growth of the NTN Group. This report describes these topics.

Organization Covered: NTN Group

Includes some reports for NTN only.

Financial Information

More detailed information is available in the Securities Reports and Financial Reports. Detailed information on the Company’s CSR activities is also available on our website.

Since its founding, NTN has maintained the quality-first approach, and built up reputation and achievements with a high level of technological expertise.

We will continue to contribute to international society through creating new technologies and developing new products.

### History of Building Strengths

**1918** “Frontier Spirit” and “Co-existence and Co-prosperity Spirit” inherited from its foundation

Start of ball bearing research and manufacturing at Nishinomizu Ironworks

- NTN’s founders, Spirit, has been variously described as a “Frontier Spirit”, a “Frontier Spirit” that leads us to always take on challenges, and a “Co-existence and Co-prosperity Spirit” that leads us to develop together with society.

The founders’ Spirit has been incorporated into NTN’s corporate philosophy as SHiA, and has been inherited over 100 years.

Young engineer Jiro Nishizono, starting the Nishino Motorcycle Works in 1921, created a small bearing plant to manufacture bearings for the Nishino Motorcycle Works.

In 1922, Tomoe Machinery Co. that he had started in Osaka at the age of 22, became Tomoe Machinery Co., a machinery and tool trading company called Tomoe Trading Co. that he had started in Osaka at the age of 22 in 1922, became Tomoe Machinery Co., which successfully bore the name of the company.

In 1927, Nishino Ironworks adopted the NTN logo, which stands for Niwa, Tomoe Machinery Co. and Nishino Ironworks.

### Development of Ball Bearings

**1937** Name changes to the Toyo Bearing Mfg. Co., Ltd.

- The lineup has continued to evolve. Refinements have been made to almost all products, such as by adding sensors and improving ease of assembly. The GEN3 began mass-production in Japan for the first time in the mid-1980s.

### Globalization

**2014** Provide bearings to the Hayabusa 2 asteroid probe

The H-IIA Launch Vehicle No. 26 with the Asteroid Explorer Hayabusa 2 launched was launched from the Tanegashima Space Center.

Our spherical plain bearings accounted for the hinges that open the solar panels on the Hayabusa 2 in outer space, contributing to the successful completion of its mission in outer space.

**2018** Company’s 100th anniversary

On March 1, 2018, NTN celebrated its 100th anniversary and adopted a communication key phrase “Make the World NAMERAKA, NTN.”

We are putting out products including bearings on the market that move machines smoothly. We will continue our efforts to achieve a “NAMERAKA Society” by making the lives of people and society around us a bit smoother in order to achieve sustainable growth over the next 100 years.

We have also established our long-term vision, and to realize it, created a Medium-term Management Plan (“DRIVE TN 2028”).

**1989** Name changes to NTN Corporation

- To set up a new company name, we also changed the meaning of "NTN" to represent “Fine New Technology Network,” and adapted it as a new direction: moving into the future.

### Original Technologies

- ***Jet engine main shaft bearing***

- ***Spherical plain bearing adapted for Hayabusa 2***

### About NTN

- **2020** and developing new products.

- **2019** Construction of Japan’s first aerospace bearing plant

- **2009** Start of ball bearing research and manufacturing at Nishinomizu Ironworks

- **1964** NTN supplies journal bearings for the first 5 Series Shinkansen

- **1990** Overseas sales and production strengthening/ expansion

### Services

- **2014** Provide bearings to the Hayabusa 2 asteroid probe

- **2018** Company’s 100th anniversary

- **2009** Start of ball bearing research and manufacturing at Nishinomizu Ironworks

- **1990** Overseas sales and production strengthening/ expansion

### About Bearings

- **1918** “Frontier Spirit” and “Co-existence and Co-prosperity Spirit” inherited from its foundation

- **1937** Name changes to the Toyo Bearing Mfg. Co., Ltd.

- **1960-1970s** Overseas sales and production strengthening/expansion

- **1986** Construction of Japan’s first aerospace bearing plant

- **1990** Overseas sales and production strengthening/expansion

### Uniqueness of NTN

- **2014** Provide bearings to the Hayabusa 2 asteroid probe

- **2018** Company’s 100th anniversary

- **2009** Start of ball bearing research and manufacturing at Nishinomizu Ironworks

- **1990** Overseas sales and production strengthening/expansion

### About Us

- **A History of Building Strengths**

- **About NTN**
### Net Sales and Operating Income

<table>
<thead>
<tr>
<th>Net Sales</th>
<th>Operating Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>651.5 billion yen</td>
<td>7.1 billion yen</td>
</tr>
</tbody>
</table>

**Fiscal year ended March 31, 2020**

- **Automotive applications** 437.0 billion yen (67%)
- **Aftermarket applications** 109.4 billion yen (17%)
- **Asia and Others** 138.4 billion yen (21%)
- **Japan** 198.0 billion yen (30%)

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### Industrial machinery applications

#### Construction machinery
- ULTAGE spherical roller bearings with high-strength cage-type

#### Gearboxes
- Applications for resource mining and civil engineering

#### Agricultural machinery
- Helping ensure high-speed productivity

#### Wind turbines
- Helping ensure safety of worldwide high-speed railways

#### Aerospace
- Meeting growing demand for next-generation steering systems

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### Automotive applications

#### Engines
- High-density, high-strength sintered gears for starter motors

#### (Accessories)
- Policy bearings for high-speed rotation

#### (Steering components)
- Mechanical clutch units for next-generation steering systems

#### (Brakes)
- Ball screw drive modules for electric hydraulic brakes

#### (Seats)
- Clutches for seat lifts

#### (Axle/Drivetrain)
- Driveshafts

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### Aftermarket applications

- **Mining machinery**
  - ULTAGE spherical roller bearings with high-strength cage-type

- **Metal industry equipment**
  - ULTAGE spherical roller bearings with high-strength cage-type

- **Paper-making machinery**
  - Polyacide nucleated bearings for four-drums/compression machinery

- **Food processing machinery**
  - Plummer blocks

- **Cement equipment**
  - Technical service units

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### Technical training / maintenance tools

- **Auto parts**
  - Part kits with combinations of several bearings

- **Technical training / maintenance tools**
  - Induction heaters
  - Self-centering hydraulic pullers with shafts
  - Technical service units

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### NTN Report 2020

- **Company/Stock Information**
- **Financial Data**
- **ESG Strategies**
- **Business Strategies**
- **NTN Revitalization Story**
- **About Us**
We will continue to realize a "NAMERAKA society" by proposing solutions for a sustainable society. Our stakeholders, and reinvest invested resources to increase corporate value. By providing bearings, driveshafts and other products and services, we will contribute to the resolution of social issues, provide value to our corporate philosophy.

Taking advantage of NTN’s uniqueness, which we have cultivated over our history, we have been devoting our resources developed over the past 100 years to the value chain of "R&D," "Procurement," "Monozukuri," and "Sales," and conducting business activities based on our corporate philosophy.

By providing bearings, driveshafts and other products and services, we will contribute to the resolution of social issues, provide value to our stakeholders, and reinvest invested resources to increase corporate value.

We will continue to realize a "NAMERAKA society" by proposing solutions for a sustainable society.
The NTN Group recognizes expected future social issues, such as climate change, growth of emerging countries, rising human right awareness, changes in demographics, environment pollution, technological innovations and changes in industrial structure and trade issues, as well as the Sustainable Development Goals (SDGs). We are strengthening the foundations that support our business activities and operations so that we can respond to the risks and opportunities surrounding our business. Through these measures, we will contribute not only to the sustainable growth of our group’s businesses, but also to the resolution of social issues.

### Risks and Opportunities Surrounding NTN

#### Response to paradigm shifts
- Spread of electric vehicles (EVs)
- Electrification of industrial machinery
- Expansion of the sharing economy
- Infringement of intellectual property
- Changes in end-user needs

#### Response to Environmental Issues
- Demands for energy-saving products for various machinery types
- Reduction in CO2 emissions
- Reduction in environmental impact
- Response to natural disasters
- The rise of the renewable energy industry
- Water shortage
- Laws and regulations associated with the climate change
- Further improve performance of the products
- Provide CMS technologies to prevent opportunity loss for application in renewable energy such as wind turbines
- Provide natural energy products such as "N- N-CUBE"

#### Changes in demographic issues
- Medium- to long-term labor shortage
- Growth of emerging countries (improvement of QOL)
- Issue of business succession
- Provide products that meet the growing demand for machinery to support infrastructure and for robots associated with labor savings in manufacturing processes
- Achieve high productivity even with a decrease in human resources by utilizing CAE technologies and RPA
- Focus on high value-added products, such as by outsourcing standard products
- Develop a system that enables timely delivery as required by customers, such as by securing products for immediate delivery
- Reduce foreign exchange sensitivity by expansion of local production and local procurement, and pass expenses incurred on to customers
- Develop a quality assurance system with "Made by NTN"
- Globalize internal control and compliance, offer various seminars in accordance with local laws and circumstances, prepare BCP, and conduct training
- Promote CSR (Corporate Social Responsibility) procurement, which prioritizes procurement from business partners that proactively take CSR initiatives, promote green procurement, and find new suppliers

#### Globalization of the Business
- The rise of low-cost products from emerging countries
- Global governance
- Foreign exchange fluctuations
- Trade frictions and tariffs
- Expansion of internet sales
- Violations of antimonopoly and competition laws
- Sustainable procurement
- Quality assurance systems that conform to the same standards worldwide
- BCP/BMC
- Response to child labor and conflict minerals
- Focus on high value-added products, such as by outsourcing standard products
- Develop a system that enables timely delivery as required by customers, such as by securing products for immediate delivery
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- Develop a quality assurance system with "Made by NTN"
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- Promote CSR (Corporate Social Responsibility) procurement, which prioritizes procurement from business partners that proactively take CSR initiatives, promote green procurement, and find new suppliers
The Company’s corporate philosophy is “We shall contribute to international society through creating new technologies and developing new products.” Based on this philosophy, we are investing the capital cultivated over the 100 years since our foundation in the value chain and are conducting R&D, procurement, Monozukuri, and sales activities to contribute to international society.

We create value in each process and conduct business activities to lead a sustainable growth.
NTN Revitalization Story | NTN's Future Vision

Our Vision

To enable sustainable growth over the next 100 years, we have created a long-term vision.

In order to realize "Our Vision," we will pursue competitive advantages by strengthening our core technologies and products, while developing businesses in new areas by harnessing our core technologies and R&D achievements.

We are also stepping up our development speed by proactively collaborating with outside partnerships, while enabling sustainable growth by creating a more robust business base to support these new business areas.

10 year targets

Before starting the "DRIVE NTN100" medium-term management plan in April 2018, we had set targets to be achieved in the 10 years after the plan.

We aim to transform ourselves from a "Manufacturing Company" into a "Company that Delivers Value to Customers through Products and Services."

Transform from a "Manufacturing Company" into a "Company that Delivers Value to Customers through Products and Services."

Sustainable growth

Management bases that support our businesses
- 2020
- Profit creation
- Pursue high productivity and quality
- Improve efficiency in asset management

Management bases in new areas
- Utilize core competence and collaboration with external organizations

Our vision toward a new 100 years

1. Strengthen core technologies and enhance efficiency in asset management
2. Develop businesses in new areas

Corporate Philosophy

“We shall contribute to international society through creating new technologies and developing new products.”

Management Policy

In December 2019, we established a Management Policy of the NTN Group. This represents the NTN Group’s management philosophy and stance, and is based on the founders’ spirit consisting of the “Frontier Spirit” and “Coexistence and Prosperity Spirit” and on our corporate philosophy that incorporates these spirits.

The NTN Group has clearly stated its stance toward all stakeholders involved in the NTN Group. By steadily implementing initiatives based on the above, we aim to realize a "NAMERAKA society.

Management Policy

NTN Group aims to realize a "NAMERAKA Society" through practicing its corporate philosophy. As a company that is trusted and needed by communities including stakeholders, we engage in business activities with an emphasis on respect of human rights and compliance.

NAMERAKA Society: A society where people can easily lead a secure and fulfilling life in harmony with nature.

Stance to Stakeholders

- Employees
- Customers
- Business partners
- Local communities
- Shareholders
- Environment

The management team is not only responsible for the profit and growth of the company, but also for carrying out an active corporate social responsibility (CSR) program.

1 trillion yen

The target for fiscal year ending March 31, 2028 is the goal set at the beginning of planning.

Changes in external environment

Automotive industry
A change that occurs only once a century (CASE)

Industriwide
IoT, robotization, and AI

Social issues
Population increase, climate change, resource depletion, poverty, starvation, etc. (ODGs)

Numerical targets

Net sales
1 trillion yen or more

Operating profit margin
10% or more

Total assets turnover
1.0 or more

Exchange rate sensitivity
To be halved from the current level

P.01
The business environment surrounding the NTN Group is facing unprecedented challenges, including a sharp deterioration in business performance due to the impact of the new coronavirus and uncertainty about the outlook for the future. Against this backdrop, we have established a Business Operating Policy for the fiscal year ending March 31, 2021 and beyond while continuing the basic policy of the "DRIVE NTN100" Medium-term Management Plan. In the fiscal year ending March 31, 2021, which is regarded as the Crisis Response Period, we will promote priority measures and link them to a new Medium-term Management Plan. In doing so, we will strive to improve our corporate structure for NTN Revitalization.

### Important Measures in Crisis Response Period (Fiscal year ending March 31, 2021)

** Ensure the health and safety of employees
1. Manage employee health and control the spread of infections
2. Respond to requests from the national and local governments and constructing a global safety support system
3. Promotion of telework for the purpose of 3Cs (Closed spaces, Crowded places, Close-contact settings) prevention and social distancing
4. Maintenance of employees’ livelihoods

** Secure cash and continue business
1. Reduce and minimize working capital
2. Secure business funds
   - Secure ¥100.0 billion of business funds including conclusion of commitment line contract
   - Suppress capital investment (cut the investment by half)

** Prepare for future growth
1. Freeze investment in capacity expansion and concentrate on investment for efficiency improvement and maintenance
2. Work style reforms centered on indirect departments
3. Maintain the shipping performance of the aftermarket
4. Selection of new businesses and review the allocation of resources
5. Start and establish new IT core system, and create benefits at an early stage
6. Respond to SDGs

### Basic Policy in New Medium-term Management Plan (Fiscal year ending March 31, 2022 to March 31, 2024)

** Improve profitability and investment efficiency of existing products and businesses
1. Outsource existing products and businesses, concentrate management resources on products and processes where NTN can take advantage of our technological strengths
2. Promote improvements in productivity and operational efficiency through cutting-edge digital technologies, such as the new factory (Wakayama) established under the new concept (smart factory), the utilization of the new IT core system, and the introduction of RPA
3. Strengthen financial framework by reducing inventories by shortening production LT through production reforms, etc., thinking in a different way

### Drive Forward Transformation of Business Structure for the new 100 years

** Secure cash and continue business
- Reduce and minimize working capital
- Secure ¥100.0 billion of business funds including conclusion of commitment line contract
- Suppress capital investment (cut the investment by half)

** Prepare for future growth
- Freezing investment in capacity expansion and concentrating on investment for efficiency improvement and maintenance
- Work style reforms centered on indirect departments
- Maintain the shipping performance of the aftermarket
- Selection of new businesses and review the allocation of resources
- Start and establish new IT core system, and create benefits at an early stage
- Respond to SDGs
Toward NTN's Revitalization

Overview of the fiscal year ended March 31, 2020

In the fiscal year ended March 31, 2020, net sales amounted to 651.5 billion yen, down 11.2% or 82.1 billion yen, from the previous fiscal year. This is due mainly to the impact of the spread of new coronavirus from the beginning of 2020 as well as the sluggish global demand environment caused by the intensified U.S.-China trade friction and other factors. Operating income was 7.1 billion yen, down 73.8% or 19.9 billion yen, from the previous fiscal year. Although we moved forward with lowering variable costs and reducing fixed costs such as personnel costs and expenses, we were unable to cover a significant drop in sales. In addition, we booked an extraordinary loss of 34.2 billion yen including an impairment loss of 29.0 billion yen and as a result, a net loss attributable to shareholders of the parent company amounted to 44.0 billion yen, our largest loss ever.

In the previous fiscal year (ended March 31, 2019), we recorded an impairment loss of 17.0 billion yen for fixed assets such as equipment in manufacturing divisions in Japan. In the fiscal year under review, we did not anticipate any impairment losses, but with regard to plants and manufacturing equipment that we considered incapable of recovering the investment amounts due to the unexpected impact of new coronavirus, we recorded impairment losses.

It is truly regrettable that we were not able to distribute year-end dividends, and we paid 5.0 yen per share in annual dividends including the interim dividends of 5.0 yen. This is because our business performance has rapidly deteriorated due to the spread of the new coronavirus infections and the outlook for the future is uncertain.

Priority measures for the Crisis Response Period in the fiscal year ending March 31, 2021

In this tough business environment, the fiscal year ending March 31, 2021 is positioned as a “Crisis Response Period” in the coronavirus pandemic and we will take initiatives to “ensure the health and safety of employees” by thoroughly implementing measures to prevent infections. At the same time, we are working to “secure cash and continue business” in the event of an emergency, and to “prepare for future growth.”

- Ensure the health and safety of employees
  Employees are our most important source of strength, and therefore we will implement measures to ensure the health and safety of employees and their families. In addition to establishing a safety support system on a global scale, we are working to prevent infections and promote teleworking.

- Secure cash and continue business
  We will focus on business continuity by reducing and minimizing working capital, including inventory assets, and securing 100.0 billion yen of business funds, including through conclusion of commitment line agreements.

- Prepare for future growth
  Regarding capital investment, we have decided to freeze investment for capacity expansion and concentrate on investment for efficiency improvement and maintenance. With regard to business operations, we will review the work itself that we have done so far and consider establishing a teleworking system, for example by developing a personnel evaluation system for teleworking. As for the new IT core system, which we have been switching over to as a foundation to support our business, we will put it into operation and firmly establish it, thereby producing results at an early stage. (See pp.17-18 for more details)

New Medium-term Management Plan starting from the fiscal year ending March 31, 2022

Accelerating transformation of business structure

A New Medium-term Management Plan will begin in the year ending March 31, 2022. In “DRIVE NTN 100,” a 3-year medium-term management plan that began in the fiscal year ended March 31, 2019, the NTN Group has been working on “developing innovative technologies, products and services,” “variable cost reformations,” “achieving the world’s highest productivity and quality,” and “improved efficiency in asset management,” by combining the latest digital technologies with the management resources we have cultivated. In response to major changes in the marketplace, we will accelerate transformation of our business structure as set forth in “DRIVE NTN 100” under the New Medium-term Management Plan.

Details of the New Medium-term Management Plan are scheduled to be announced by March 2021, and we will implement measures for ensuring business continuity and lowering the break-even point, with the aim of realizing the following three transformations.

- Increase added value
  1. Shift to fields (business, region) with high profit margins
  2. Expand aftermarket business through collaboration between industrial machinery and aftermarket businesses
  3. Increase prices for or withdraw from unprofitable projects
  4. Break away from self-sufficiency

Going forward, we will shift our focus to highly profitable fields, businesses and regions, and endeavor to expand profits through collaboration between aftermarket and industrial machinery businesses. While working to provide high value-added products and expand new business areas, we will also raise prices for and withdraw from unprofitable projects.

We will break away from self-sufficiency, or our integrated production system that covers everything from pre-manufacturing processes (such as forging and turning) to assembly, and expand outsourcing of the pre-manufacturing processes. In the area of finished products, we will work to expand technical assistance and outsourcing of production through alliances with partner companies.

- Reduce costs
  1. Reduce procurement and logistics costs
  2. Reduce fixed costs

We will accelerate variable cost reformation that supports our global procurement system. Although the procurement of materials was not greatly affected by the new coronavirus pandemic, we will look ahead to the post-corona world and promote stable procurement that is not affected by the external environment, as well as optimal procurement in terms of cost, function, and quality.

In addition to performing centralized purchasing by strengthening cooperation with major suppliers, we will change the composition of our suppliers while adding new suppliers. We will work with our partner manufacturers to promote structural reforms, build WIN-WIN relationships, and reduce purchasing costs. In terms of logistics, we will endeavor to improve efficiency by analyzing the flow of goods in Japan, and will review the transportation of goods to overseas areas, thereby reducing logistics costs.
and support ten principles in four areas: human rights, labour, the environment, and anti-corruption. We will work to increase the corporate value of the NTN Group by promoting our response to SDGs. (See p.37 for more details)

**Responding to climate change**

In order to respond to climate change, we have started to quantify our contributions to climate change in the fiscal year ended March 31, 2019. (See pp.45-46 for more details) This not only visualizes the value NTN provides to society, but also helps raise employee motivation in the development process. In the future, we will increase the proportion of products with a higher degree of environmental contribution and expand our contribution to CO2 reduction. On the other hand, we recognize that we are not able to set clear medium- and long-term targets for the environment, and we will consider numerical targets in conjunction with identifying materiality. (See p.35 for more details)

**Developing human resources that can play an active role on the global stage**

We do not currently have any non-Japanese Directors or Executive Officers, but we have two foreign Operating Officers. In addition, our overseas employees account for more than 60% of our workforce, and many of the employees recruited locally in each country are working at the management level including top management and executives at our overseas affiliates around the world. Since January 2019, a Foreign Executive Officer has been leading the procurement division in strengthening global procurement. In the technical, administrative and other divisions, excellent human resources from overseas subsidiaries have demonstrated their abilities in dealing with global projects, and we will continue to expand the assignment of human resources from overseas. We will also promote diversity by strengthening the recruitment of non-Japanese employees in Japan, and promote transformation based on flexible ideas created by the Asian-Pacific region. Human resources are the foundation of our growth, and we will strengthen our business foundation by cultivating human resources that can play an active role globally.

**Establishing basic policies for human rights, safety and health**

In July 2020, we have newly established a Human Rights Policy and a Safety and Health Basic Policy. The Human Rights Policy has been established as a basis for day-to-day activities and business execution to ensure that all employees of the NTN Group share a unified sense of values, as the NTN Group further strengthens and promotes initiatives for human rights. The NTN Group contributes to international society through creating new technologies and developing new products, and supports the realization of a society in which human rights are respected. To achieve this, the NTN Group will continue its efforts to fulfill its responsibilities in respect of human rights, including the establishment and ongoing implementation of a human rights due diligence system.

The Safety and Health Basic Policy was established with the aim of raising awareness of safety among NTN Group employees and organizations, and further enhancing corporate value. It respects safety and health policies and approaches that have been fostered by each business site and country. We have demonstrated that the realization of a work environment that ensures the safety, health and active performance of everyone working in the NTN Group is the foundation of management and the most important value that takes precedence over everything. (See p.35 for more details)

**Strengthening corporate governance**

In June 2019, NTN has made a transition from a Company with Board of Company Auditors to a Company with Nominating Committee, etc. with the aim of establishing a proper decision-making structure and an operational execution organization, strengthening the supervision of management, and improving management transparency and fairness. At the same time, the number of Outside Directors was increased from 2 to 5, with the Nominating Committee, the Compensation Committee, and the Audit Committee all chaired by Outside Directors. In July 2020, a female Director (Outside Director) was newly appointed for the first time at the Company. We have always worked to promote diversity, and going forward, the female Director with experience in a different industry than ours will supervise management. This will enable us to integrate diverse values and accelerate transformation aimed at achieving sustainable growth.

**Putting corporate philosophy into practice**

Two spirits passed down from the founders of NTN are embodied in our corporate philosophy. “We shall contribute to international society through creating new technologies and developing new products.” Noboru Niwa and Jiro Nishizawa, the founders of NTN paved the way for the domestic production of bearings that was sought in Japan at this time. Fronter Spirit is linked to our business activities in the second half of our corporate philosophy, “through creating new technologies and developing new products: The Coexistence and Co-prosperity Spirit cherished by our founders who hoped to contribute to the development of a variety of industries through the domestic production of bearings remains in the first half of our corporate philosophy. “We shall contribute to international society”

In December 2019, we established a Management Policy of the NTN Group to express our management philosophy and stance on putting into practice the corporate philosophy that incorporates our founders’ ideals. We also clearly stated our stance toward stakeholders in order to become a company that is trusted and needed by stakeholders. (See p.16 for more details) To ensure that the more than 24,000 employees of the NTN Group worldwide promote the corporate philosophy, we hold a NTN PROUD AWARDS, which serves as an opportunity to commend our employees who put the corporate philosophy into practice. Through these activities, we endeavor to promote awareness of the corporate philosophy among our employees globally. (See pp.53-54 for more details)
As for the fiscal year ended March 31, 2020, we announced the outlook for net sales of 680.0 billion yen and operating income of 10.0 billion yen at our financial settlement briefing meeting for the third quarter that was held in February prior to the impact of the new coronavirus (COVID-19). However, the result was that net sales was 651.5 billion yen, substantially below expectations, largely due to the spread of COVID-19 in the fourth quarter.

Meanwhile, we tried to increase operating income as much as possible by thoroughly reducing fixed costs such as expenses and personnel costs in particular, thereby maintaining a level of 7.1 billion yen. Although we maintained a positive level of operating income, we posted a net loss of 44.0 billion yen, the worst figure in NTN’s history. This was mainly due to the recording of extraordinary losses of 34.2 billion yen in particular, operating income, we posted a net loss of 44.0 billion yen, the

As a result, impairment loss of 29.0 billion yen was recorded, of which 22.0 billion yen was in Japan and 7.0 billion yen was in overseas business sites. The impairment loss of 29.0 billion yen in the fiscal year ended March 31, 2020 was calculated on the basis of a very conservative assumption that net sales in the fiscal year ending March 31, 2021 would decline 20% from net sales in the business plan prior to the impact of COVID-19. The level of net sales in the fiscal year ending March 31, 2022 would still not recover to 100%, and the level of net sales would not increase and would stay flat in the remaining years of depreciation. As a result of this impairment loss, the amount of depreciation will be reduced by 3.5 billion yen per year in the future.

### Financial results for the fiscal year ended March 2020

**Summary**

As for the fiscal year ended March 31, 2020, we announced the outlook for net sales of 680.0 billion yen and operating income of 10.0 billion yen at our financial settlement briefing meeting for the third quarter that was held in February prior to the impact of the new coronavirus (COVID-19). However, the result was that net sales was 651.5 billion yen, substantially below expectations, largely due to the spread of COVID-19 in the fourth quarter.

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### Fiscal year ended March 31, 2020

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**Table: Consolidated financial results**

<table>
<thead>
<tr>
<th>Fiscal year</th>
<th>Sales</th>
<th>Operating income</th>
<th>Operating margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 31, 2019</td>
<td>731.6</td>
<td>26.9</td>
<td>3.7%</td>
</tr>
<tr>
<td>March 31, 2020</td>
<td>715.7</td>
<td>7.1</td>
<td>1.0%</td>
</tr>
<tr>
<td><strong>Impairment loss</strong></td>
<td><strong>31.3</strong></td>
<td><strong>22.1</strong></td>
<td><strong>32.3%</strong></td>
</tr>
</tbody>
</table>

**Sales effects**

- Japan: 7.0 billion yen
- Overseas: 24.3 billion yen

**Operating income**

- Japan: 17.0 billion yen (NTN non-consolidated) 5.3 billion yen
- Overseas: 7.0 billion yen

**Operating margin**

- Japan: 2.0% (NTN non-consolidated) 12.0% (NHK non-consolidated)
- Overseas: 10.0% (NHK non-consolidated)

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**Table: Impairment loss in fiscal year ended March 31, 2019 and March 31, 2020**

<table>
<thead>
<tr>
<th>Region</th>
<th>Impairment loss (in billion yen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>17.0 (NTN non-consolidated) 5.3 (NHK non-consolidated)</td>
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<tr>
<td>Overseas</td>
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**Table: Breakdown of impairment loss**

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<thead>
<tr>
<th>Region</th>
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<td>7.0 (NHK non-consolidated)</td>
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**Table: Analysis of Operating Income**

<table>
<thead>
<tr>
<th>Category</th>
<th>Fiscal year ended March 31, 2019</th>
<th>Fiscal year ended March 31, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
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<tr>
<td>Operating margin (3.7%)</td>
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**Table: Remaining issues to improve our financial structure**

<table>
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<tr>
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<td>7.0 billion yen Americas (1 company) 5.5 billion yen Europe (1 company) 1.5 billion yen</td>
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**Table: Major actions during the Crisis Response Period**

<table>
<thead>
<tr>
<th>Degree of Impact</th>
<th>Fiscal year ended March 31, 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate</td>
<td>19.1</td>
</tr>
<tr>
<td>Severe</td>
<td>20.9</td>
</tr>
</tbody>
</table>

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**Table: Restraining outflow of funds**

<table>
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<tr>
<th>Degree of Impact</th>
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<tr>
<td>Severe</td>
<td>20.9</td>
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**Table: Structure of impairment loss**

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<tr>
<th>Region</th>
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**Table: Restraining outflow of funds**

- 23% of total expenditure, which is more of a sharp increase than the planned level.
- NTN Revitalization Scenario to our main financing bank and secured 100.0 billion yen of funds, including under commitment line agreements with our main financing banks.

Obtaining a commitment line means that we can borrow from a bank at any time within the amount and period of the commitment line. It is roughly estimated that the amount of 100.0 billion yen is an additional amount, which is sufficient to sustain ourselves in the event of a 30% decline in annual sales.

At the same time, we will consider and promote the utilization of factoring (liquidation of receivables) not only in Japan but also overseas locations, and aim to collect and utilize surplus funds globally.

### Restraining outflow of funds

While securing sufficient funds, we will thoroughly restrain the outflow of funds. To achieve this, we will freeze new investments to expand capacity and prioritize the
following investments in production reforms to improve current situations such as throughput, overhaul of existing facilities, and flexible setup response. Furthermore, regarding inventory assets, we will strategically increase inventories for aftermarket services with the aim of increasing sales in aftermarket business. At the same time, we will reduce OEM inventories and aim to achieve the Group-wide inventory asset turnover ratio of 3.6 as in the fiscal year ended March 31, 2020.

Preparing for Revitalization

Within the Group as a whole, we will clarify the business strategies for profitable companies and clearly determine the direction such as reconstruction, downsizing, or closure. Each Business Headquarters will play a central role for domestic operations and the Office of General Managers for overseas businesses, while these headquarters and office work together with Corporate Strategy Headquarters, Finance Headquarters, and Production Headquarters to formulate concrete plans, including consideration of asset sales and business consolidation. The progress of these plans will be tracked in the New Mid-term Management Plan. At the same time, we will accelerate the implementation and promotion of measures to strengthen the “Product Portfolio” by withdrawing from the deficit products and concentrating on the profitable products in the industrial and automotive OEM business, and measures to strengthen the “Business Portfolio” by expanding and strengthening aftermarket business.

NTN Revitalization Scenario

Definition of Revitalization

NTN Revitalization, making it possible for us to create corporate value. Since the fiscal year ended March 31, 2020, we have introduced the concept of “Cost of Capital (WACC)”. In our investment decisions and business evaluations in each country globally, we assume that the return expected by our shareholders from the Company in the Japanese stock market is 8% at present, we have designed our consolidated WACC at 5%, shareholders from the Company in the Japanese stock market is 8% at present, we have designed our consolidated WACC at 5%, and we have set the Net D/E ratio of 1.5 as a mandatory target for the fiscal year ending March 31, 2024. We aim to become a company that can steadily improve corporate value in the future by achieving the above-mentioned mandatory targets, maintaining ROE of 8% or more, returning 4% to shareholders (DOE of 4%), and allocating the remaining 4% to sustainable growth in the future.

Basic assumptions for the creation of corporate value

In order to achieve ROIC of 5%, we do not rely on measures to increase net sales by expanding production capacity to increase production, and we aim to create a financial structure that can create corporate value with net sales of 700.0 billion yen. Specifically, the minimum targets of net sales and operating income are 700.0 billion yen and 42.0 billion yen (operating margin of 6%), respectively. To achieve this target, we will reduce the current variable cost rate of 55% by 3% pts (net reduction) through our efforts such as raising selling prices and reducing procurement costs. At the same time, we will further review and reduce fixed costs, which we had drastically reduced in the fiscal year ended March 31, 2020. Through these measures, we will minimize any increase in personnel costs and expenses in response to a rebound in sales from fiscal year ending March 31, 2022, and lower our break-even point. For the fiscal year ending March 2024, we will lower the break-even point to 80% of net sales, or 560.0 billion yen relative to net sales of 700.0 billion yen.

Transformation of mindset toward Revitalization

Prior to the Lehman Crisis, even though NTN’s asset turnover rate was much lower than that of its domestic competitors, NTN’s profitable advantage due to its stronger operating margin, which exceeded 10% during the past 20 years, was recognized as the minimum requirement. The biggest factor in the current corporate culture that needs to be broken down into specific tasks by function, we believe that no fundamental change, by breaking down this scenario by each division to secure our new competitive advantage. In addition to selecting customers and cultivating new strategies for unprofitable companies and clearly determine the return 4% to sustainable growth in the future.

Break away from our current corporate culture that has not implemented drastic measures while inventory turnover is extremely low compared to our competitors in Japan:

In the midst of a significant deterioration in NTN’s profitability, which once surpassed competitors in Japan, we need to promote manufacturing reforms based on KPIs centered on GMROI (Gross Margin Return On Inventory Investment) in order to maximize throughput to secure a new competitive advantage in the face of environmental changes in which our low inventory asset turnover is a major impediment to competition. In addition to reducing invested capital by reducing inventory assets, we aim to enhance aftermarket business and improve profitability by realizing flexible manufacturing for aftermarkets in our OEM production lines. (Break away from prioritization for OEM and ensure efficient production of profitable products for aftermarket services)

Break away from our current corporate culture that attempts to internally accumulate added value as well as technological know-how by carrying out the entire process of development, manufacturing, and sales on its own:

In order to secure a new competitive advantage, we need to build and strengthen Win-Win partnerships based on mutual trust and respect with partners that have complementary capabilities to succeed together and with which synergy is expected to be created in each of our business areas and markets. This is because the burden of investment costs has increased and we have insufficient human, financial, and technological resources due to diversified customer requirements and increasingly sophisticated requirements in the global market. Through strategic partnerships, we aim to significantly reduce investments and supplement human and technical resources. (Break away from self-sufficiency and drastically reduce capital expenditure)

Future Vision

Since the fiscal year ended March 31, 2020, we have been explaining our overall Revitalization Scenario and planning initiatives to enhance our corporate value through a continuous feedback loop based on our Revitalization Plan. Having gathered input from across the Group, we are now moving forward with a more concrete plan that is motivated by the shared belief that each of our executives must work together to achieve the 2024 vision.

A message from the CFO

As we move forward into the future, we aspire to be a company that is highly recognized by all stakeholders, including investors, customers, employees, and society. In order to achieve this, we will strive to maintain transparency and credibility in all our business activities, including financial reporting. Through these efforts, we will strive to build a strong and sustainable business that can contribute to the long-term growth of our company and the welfare of society.

Achieve ROIC 5% or more, maintain ROE 8% or more, return 4% to shareholders, and allocate the remaining 4% to sustainable growth in the future.
One of the issues in our aftermarket business is that our brand recognition is lower in some overseas regions than in Japan. Compared to our competitors, we have actually not been able to secure our superiority not only in supplying individual products, but also in terms of overall capabilities including provision of peripheral components and after-sales service. The challenge for us is how to increase our share of products dealt by overseas distributors, which sell competitor’s brand as well, unlike the Japanese distributors which handle our products exclusively. To that end, it is necessary to enhance the overall attractiveness of our products and improve the value of the NTN brand by strengthening our service & support programs, improving product quality as well as packaging quality, and reinforcing countermeasures against counterfeit products. In addition, in order to increase competitiveness in overseas markets, it is extremely important to establish a system for prompt delivery of top-selling products. Until last year, demand was high and we lost sales opportunities due to insufficiencies in our supply capacity. However, as global demand declined sharply due to the spread of new coronavirus infections, we will focus on maintaining inventory of top-selling products that are necessary for a prompt delivery system in the fiscal year so that we can avoid losing sales opportunities when the economy becomes stronger again. Additionally, an increasing influx of low-priced products produced in emerging countries is one of the threats. We are supporting customers improving productivity and ensuring stable operation of their facilities, for example, by providing the NTN PORTABLE VIBROSCOPE which makes daily maintenance of production facilities easier.

Results for the fiscal year ended March 31, 2020 and forecast for the fiscal year ending March 31, 2021

In the fiscal year ended March 31, 2020, net sales fell to 109.4 billion yen, down from the previous fiscal year. This was due to a year-on-year decline in sales from both the industrial machinery aftermarket and automotive aftermarket in Japan, the Americas, and Europe as a result of the sluggish economy. In addition, in the fourth quarter, demand declined and sales activities were restricted in some regions due to the spread of the new coronavirus. Operating income was 12.7 billion yen due to the significant impact of a decline in demand, despite efforts to reduce variable costs and fixed costs such as personnel costs and expenses.

For the fiscal year ending March 31, 2021, net sales was 196 billion yen and operating income was 80 billion yen in the first quarter. Although we cannot foresee the impact of the spread of the new coronavirus, we expect the net annual sales to be 91 billion yen.

<table>
<thead>
<tr>
<th>Business environment</th>
</tr>
</thead>
<tbody>
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<table>
<thead>
<tr>
<th>Changes in market environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>• High branding power and presence of European and U.S. competitors in the overseas aftermarket business</td>
</tr>
<tr>
<td>• Expansion of needs for service &amp; solution business and increase in role that customers expect from suppliers</td>
</tr>
<tr>
<td>• Commoditization of bearings, especially general-purpose products, and the inflow of low-priced products due to the globalization of the market</td>
</tr>
<tr>
<td>• Sophistication of counterfeit bearings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTN’s Strengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Networks of major domestic and overseas distributors, and strong partnership with major distributors</td>
</tr>
<tr>
<td>• Broad product lineup</td>
</tr>
<tr>
<td>• Experience and know-how in supplying products for MRO* in the global market</td>
</tr>
<tr>
<td>• NTN Maintenance, Repair and Overhaul</td>
</tr>
<tr>
<td>• Sales network that covers global markets</td>
</tr>
<tr>
<td>• Awareness and technological capabilities</td>
</tr>
<tr>
<td>• Providing detailed technical services</td>
</tr>
</tbody>
</table>

Achieve OUR VISION

Transform from a “Manufacturing Company” into a “Company that Delivers Value to Customers through Products and Services.”

The business environment such as the development of AI, IoT, and other digital technologies, environmental issues, and demographic shifts has been changing continually and companies are required to be flexible in accommodating new market needs to ensure sustained growth. In the aftermarket business of bearings, suppliers are faced with new expectations in addition to traditional requirements, including high-quality products, broad product lineups and prompt delivery. The role of suppliers, particularly those in the equipment aftermarket business for steel, paper and other industries, is gradually changing from a bearing supplier into a provider of comprehensive maintenance services for equipment and peripheral components. In order for the Company to achieve the best customer satisfaction in the aftermarket, besides surveying the needs of distributors and end-users and offering bearing repair services, we will further enhance our brand value by proposing a new business model that provides services such as monitoring of operating conditions and prediction of bearing replacement timing by utilizing our expertise for sensing technology and digital technology including AI, and IoT with an offer of the “NTN PORTABLE VIBROSCOPE” etc.

Initiatives to improve profitability

Focus on core products and profitable products in aftermarket

We assume that our global share is approximately 10% in the aftermarket, but that number differs according to region and product. By strategically introducing products that match the characteristics of each sales region and the price range of each market, we will strive to increase profits from regions and products where sales are expected to continue to grow in the future. For example, bearing units, one of our main products for the aftermarket, have lower market shares in the U.S. than in other sales regions, so we will strengthen product strategies for each region and work to increase the market share.

Promoting the use of outsourced products

We will also actively utilize outsourced production to build a structure that can supply products that meet the quality and price ranges demanded by each region.

Establishing a system for the post-coronavirus world

Establishing a prompt delivery structure for the aftermarket business

Products for the aftermarket, which contribute to the stable operation of customers’ facilities and improvements in their productivity, must be delivered at the timing required by customers. In order to realize just-in-time supply, we will organize inventories of best-selling products and establish a structure for prompt delivery. In this way, we will work to establish a system that can provide stable supply even when demand fluctuates.

Creating a business model with future potential

By using devices such as the NTN PORTABLE VIBROSCOPE, which enables measurement of equipment vibrations, detection of bearing abnormalities, and estimation of damaged areas and can be used by simply installing the device on facilities, we will not only sell bearings, but also expand MRO business, which covers including maintenance, to create a business model with future potential. In addition, while assessing the situation, we will provide technical services in a way that is different from the previous one, such as aggressively utilizing on-line technical workshops in Japan and overseas that we carry out from a perspective of preventing the spread of the new coronavirus, even after the pandemic has ended.

NTN PORTABLE VIBROSCOPE

* MRO: Maintenance, Repair and Overhaul
Industrial machinery market

We are responding to the demands of our customers for long operating life, improved loading capacity, and higher speed, all of which are required by all types of industrial machinery, with the world’s highest standard new-generation bearings, ULTAGE Series. In addition, through constant R&D efforts, we will launch bearings even with lower torque, more compactness and lighter weight to the marketplaces, enabling environmental impact reduction in a variety of industrial machinery fields.

Looking ahead to the next generation, we will promote modularizations and intelligentization by deepening bearing technologies and integrating sensors and precision equipment technologies. In addition to developing high value-added products, we will develop new products and services by utilizing the abnormality detection technology, condition monitoring system (CMS), and IoT. Specifically, we launched sales of the Wind Doctor™ condition monitoring system for wind turbine and i-WRIST™, a Winds Joint Module that contributes to automation and labor saving at manufacturing sites. By providing these products and services, we will contribute to the development of industry and the creation of a sustainable society.

Business environment

A recent trend is that, in addition to customers of construction machinery, agricultural machinery, and machine tools, which are the foundation of the industrial machinery business, demand from social infrastructure customers such as rolling stock and wind power generation has increased against the backdrop of changes in social structure and increased environmental awareness, and we have been promoting the establishment of technology and production systems. In the future, the business environment surrounding industrial machinery is expected to change dramatically due to the progress of IoT and the development of AI technologies. Based on this understanding, we are developing condition monitoring services for predictive maintenance that apply IoT and sensing technologies to address issues shared by customers, such as saving energy, stable long-term operation, and reduced lifetime costs. For wind turbines customers, we have already proposed the Wind Doctor™ condition monitoring system for wind turbine, which has been evaluated favorably, and we have begun offering concrete suggestions for other industries, such as construction machinery, machine tools, and rolling stock.

NTN’s Strengths

For core sectors (construction machinery, agricultural machinery, and machine tools):
- Reliability to develop high-speed, high-rigidity and high-precision products
- Ability to respond to new needs in fields and parts for which we have not entered the market
- Strong relationships with manufacturers with the top shares in the industries

For the growth sectors (gearbox, rolling stock, aerospace, and wind turbines):
- Ability to develop products tailored to customer needs
- Experience in doing business with major customers around the world
- Ability to produce products of the sizes that other companies cannot respond to

NTN will become a company that customers in the industrial machinery market rely on most for its exceptional technological competence.

The industrial machinery market is comprised of a variety of industries, and bearings are used in a wide range of machinery. We supply bearings with a wide range of sizes, from miniature sizes of several millimeters in outer diameter used in electronic machinery to ultra-large sizes of several meters used in wind turbines and large mining equipment. In addition, products used in aircraft and high-speed railways require extremely high reliability because of the stoppage of machinery affects human lives. We have accumulated product and manufacturing technologies for many years, and we utilize these technologies to respond to a variety of market needs. In recent years, the external environment has been constantly changing due to factors such as increasing global awareness of the environmental issue and changes in population dynamics, and changes in the industrial structure can also be seen as a result of a rapid progress in IT-related technologies including IoT and AI. Under these circumstances, we will utilize digital technology based on bearing technology in the industrial machinery business, thereby continuing to be an indispensable company in the industry, and will support the development of the world industry.

Results for the fiscal year ended March 31, 2020 and forecast for the fiscal year ending March 31, 2021

Net sales was 105.1 billion yen due to the following factors: decreased sales in main industries such as construction machinery, agricultural machinery, machine tools, and reduction gears following a decline in demand caused by the impact of the US-China trade friction, and the impact of customer shutdowns and supply chain turbulence following the spread of the new coronavirus in the fourth quarter and onward. Consequently, we posted operating loss of 2 billion yen despite reduced variable costs and a decrease in fixed cost such as personnel costs and expenses.

For the first quarter of the fiscal year ending March 31, 2021, net sales was 22.6 billion yen and operating loss was 900 million yen. Although we cannot foresee the impact of spread of the new coronavirus, the full-year net sales is expected to be 93.5 billion yen.

Initiatives for the NTN revitalization

Acquire highly profitable businesses by developing high-performance products such as bearings with IoT sensors.

In addition to bearing sensing technologies we have accumulated over many years, we have also developed a “Sensor Integrated Bearing Unit” for machine tool spindles, which can prevent seizure through advanced condition monitoring using the industry’s first buffet sensor. In the future, in addition to advanced condition monitoring and control technologies, we will develop and propose a high-performance product that meets the needs of customers, such as bearings with sensors that enable manufacturing sites to be unmanned and achieve labor-saving by utilizing IoT and AI.

Establishing a fabless system in the new field of materials (i-WRIST™, Wind Doctor™)

With regard to Wind Joint Module “i-WRIST™” and Condition Monitoring System (CMS) for wind turbines (Wind Doctor™), we will flexibly expand our new business domains through a fabless system in which we do not own these manufacturing plants and conduct outsourced production.
Our work in the automotive segment includes developing more advanced bearings, hub bearings and drivetrains to create higher added value. We are also combining these core products with core technologies to develop module products. To prepare for the coming era of electrification of automobiles and autonomous driving, we have released “Electric Motor and Actuators” composed of ball screws, motors and controllers. We are working on expanding their range of applications and proposing them to customers. Through collaboration with alliance partners, we are expanding these products globally while breaking away from self-sufficiency in order to meet the existing needs of the automotive market, such as low fuel consumption and increased ride comfort, as well as the rapidly increasing demand for electrification.

*1 xConnected, Autonomous, Shared/Service, Electric
*2 Ride Sharing and Maas

### OUR VISION

As an indispensable presence for the automotive market, NTN will become a company that offers products and services for vehicles all over the world.

The rise of electrified vehicles throughout the world’s automotive markets calls for functional automotive components with different characteristics or more rigorous performance requirements than are required for conventional internal combustion engine vehicles. We will accommodate these needs by offering differentiated technical expertise and lineups of advanced products providing features such as size, weight reduction, higher speed rotation, lower torque and less noise/vibration in order to secure a competitive advantage over our competitors.

Another major wave, Ride Sharing and Maas, is based on the absolute reliability of the driving system responsible for driving, turning, and stopping vehicles. Carmakers are shifting the focus and resource of their development work from the tangible (vehicle performance) to the intangible (services), creating an expanding range of areas in which NTN can contribute to vehicle safety, reliability and comfort. By capturing these dynamic changes in the business environment as opportunities, we will provide values that exceed customer expectations through product development and advanced technical services that are ahead of market needs. By doing so, we aim to become the leading manufacturer and advanced technical services that are ahead of market needs. By doing so, we aim to become the leading manufacturer and advanced technical services that are ahead of market needs.

### Business environment

In the automotive industry, due to the impact of the new coronavirus, automotive production is seeing a significant decline globally in 2020, and it may take several years for the industry to recover to the level before the new coronavirus. Even in this environment, the electrification of vehicles, among other structural changes referred to as “CASE*1”, is steadily progressing, and we believe that how to transform the risks associated with major changes into growth opportunities will affect the company’s rise and fall.

In the case of electric vehicles, there is a risk that the transmission, which uses many bearings, will be replaced by a reduction gear with a simple structure, resulting in a decline in demand. In the future, the transition from ownership to sharing may result in a decrease in the number of vehicles in the market, and commoditization of vehicles as a tool may lead to intensified price competition.

On the other hand, markets related to needs for EV-specific quietness, low vibration, and high-speed rotation as well as markets related to sensor technologies and abnormality detection functions (CMS, etc.) which are indispensable for autonomous driving are expected to grow. In addition, the need to increase durability of components and demands for after-market components are expected to grow as car sharing increases the operating rate of vehicles. We recognize that the ever-changing automotive industry is now in a situation where suppliers face both the chance of breakthroughs and the risk of shakeout.

### Results for the fiscal year ended March 31, 2020 and forecast for the fiscal year ending March 31, 2021

In the midst of a global downturn in automotive sales, net sales declined to 437.0 billion yen in the fiscal year ended March 31, 2020 due to a significant drop in demand associated with the shutdown of automotive production in China and other regions as a result of the spread of the new coronavirus from the fourth quarter. We posted operating loss of 3.7 billion yen, which was largely attributable to a shrinking sales volume caused by sharp drop in demand along with decline in selling prices, and we were unable to offset the negative impact through cost reduction initiatives. In the first quarter of the fiscal year ending March 31, 2021, net sales was 49.7 billion yen and operating loss was 9.6 billion yen. Although we cannot foresee the impact of the spread of the new coronavirus, the full-year net sales is expected to be 355.5 billion yen.

### Establishing a system for the post-coronavirus world

For hub bearings and drivetrains with the world’s No. 1 and No. 2 market shares respectively, we will concentrate resources on areas where we can leverage our strengths in technology and product functions based on our accumulated technology and global production experience, thereby ensuring that our competitiveness will improve. Meanwhile, for low-profit part numbers, we will drastically improve profitability by promoting further cost reductions, requesting price increases, and withdrawing from the market.

In order to respond to the accelerating changes in the market structure for EVs and electric motors, we will promote the mass production and commercialization of electric module product by combining bearing and ball screws technologies and motor electronics control technologies. We will also work to swiftly expand our business in new areas.
NTN’s basic approach to research and development

We are committed to realizing a low-carbon society by contributing to energy saving of all machinery through the development of core technologies and new products. We are also actively developing natural energy-related products that can contribute to an energy circulation society by applying core technologies that we have cultivated into new areas. As a new initiative, we are also focusing on R&D by utilizing external collaboration to support regenerative medicine and drug discovery that will lead to early detection and treatment in a society where birthrate is decreasing and the population is aging.

Executive Officer, CTO, Chief Technical Officer
Masaki Egami

R&D trends and results

Supporting CASE automobiles

A hub bearing is a unit product that supports the rotation of tires, and NTN has the largest market share of hub bearings in the global market. NTN has developed hub bearings with multi-functions for Connected, Autonomous, Shared and Electric (CASE) automobiles.

These are the world’s first high-performance module products adapted to next-generation automobiles, such as "eHUB" which combines a hub bearing with a motor generator, and "sHUB" which integrates a mechanism that adjusts the steering angle of the tires into a hub bearing. The products will contribute to safer and more comfortable driving of future CASE automobiles, by improving fuel efficiency, automated driving, etc.

In addition to Low Friction Hub Bearing III, which aims to achieve low fuel consumption (reduces rotational friction by 62% compared to a conventional product), we have successively received orders for mass production of ULTAGE Tapered Roller Bearings and Ultra-low Friction Sealed Bearings for transmissions, and are contributing to solving issues in the automotive field.

Strengthening systems for future growth and transformation of business category

In April 2020, we established the New Business Search and Development Department within the New Product and Business Strategic Planning Headquarters in order to accelerate the development of new products and promote transformation of the business category for the next generation. The module and system products are not developed individually by the existing engineering divisions, but are instead developed and commercialized by the New Business Search and Development Department through a totally integrated process.

Specifically, we will transfer the development of eHUB and sHUB supporting CASE applications, as well as WiWRISTM in the robotics field from our R&D centers, promote mass production of these products, and conduct R&D to meet market needs in new areas.

Technological advancement through external collaboration

NTN Next Generation Research Alliance Laboratory: Shift from “Products” to “Services”

In September 2017, NTN Next Generation Research Alliance Laboratory was established in the Graduate School of Engineering at the National University Corporation, Osaka University with the aim of creating new business and accelerating technical innovation. In April 2020, the laboratory moved to the second step.

In the first step, we conducted research to develop superiority in core products, such as sensor-integrated bearings supporting machine tools that utilize the IoT, and motors and control technologies combined with eHUB and sHUB, as well as research to predict the residual life of bearings by using AI. The results were transferred to the Company. As we aim to be “a company that delivers value to customers through products and services,” in the second step, we will shift to research that emphasizes “services.” Specifically, we will focus on upgrading the condition monitoring system and CAE technology using AI. While sharing the results with the research and engineering divisions in NTN, we will build new core competencies related to the utilization of AI technology and implement them in society.

Efforts to develop and commercialize cell chips: Contribute to improving quality of life

In collaboration with Osaka University, we are working to create an artificial three-dimensional structure using IPS-derived cells by applying our precision positioning technology and the microscopic coating technology we have cultivated through repair devices. We have found that the coating of high viscosity solutions containing IPS-derived cells onto the chips, which has not been achieved so far, can be achieved with our microscopic coating technology. In modern societies where human longevity is increasing, there is a need to speed up and streamline the processes of drug discovery, and to reduce the invasiveness and duration of disease assessment. Therefore, we are promoting research and development using cell chips to observe cell responses and changes, and we intend to contribute to early detection and treatment, which will become increasingly important in the future.

Service solutions (Value creating)

In 2012, we launched a condition monitoring system (CMS) “Wind DoctorTM to detect abnormal signs of large wind turbines at an early stage. This system is one of the services that utilize the IoT to provide operational status information, and we have received a lot of orders for this system. The system acquires vibration data for mechanical components, such as bearings and gears, by a highly dust-resistant and water-proof data collection device and conducts diagnostics using the remote monitoring and analysis software provided by us. Many power generation companies praise the system for its extensive analytical functions, and the number of subscribers has exceeded 200, winning the top market share in Japan. Furthermore, we are working to roll out this system on a global scale.

In the future, the development of offshore wind turbine generators is greatly anticipated in Japan as well, and CMSs are becoming increasingly important in offshore areas where maintenance is very difficult. Therefore, we will actively propose monitoring services using this system and contribute to improving the operation rate of wind turbines.

Use of CAE Solution Technologies

In October 2018, we established the CAE R&D Center to accelerate the use of CAE in our R&D and design activities. In addition to optimizing product designs and enhancing structural analysis, we eliminate rework in development by simulating prototypes and various experiments, leading to more efficient R&D and faster development within the Group.

* Computer Aided Engineering, computer-based analysis

In addition, we have developed new common calculation tools that can be used in the three regions including Japan, Europe, and the Americas, and have realized our own global design system. By providing reliable technical proposals based on logical data in a timely manner, we will contribute to speeding up the development process of our customers.
Building a change-resilient "Monozukuri" system that NTN aims for

In recent years, we have been facing a rapidly changing and unpredictable business environment, including large-scale natural disasters and the cessation of global economic activities due to the new coronavirus (COVID-19). At the same time, business conditions are rapidly changing, including customer needs, and the speed of processes from product planning to final products, including marketing, to prototyping and mass production will be the key to improving customer satisfaction in the future. Under these circumstances, we will strengthen the linkage between the innovation process of product planning and development and the supply chain process of marketing, production, and sales, with the aim of establishing a "Monozukuri" system that is resilient to changes.

Organizational change of the Procurement Headquarters

In order to strengthen global procurement and centralized purchasing and accelerate Variable Cost Reformation through centralized management led by the head office, the Procurement Headquarters was reorganized into 3 departments: the Global Procurement Supervising Department, the Japan Region Procurement Department, and the Procurement Logistics Administration Department. We will establish regional headquarters in North America, Europe, China, and ASEAN, and build an NTN global procurement network, thereby promoting local procurement and procurement in optimal locations with global suppliers. In doing so, we will endeavor to ensure stable procurement and reduce costs.

Establishment of a Global Procurement System

In the current world, a single day doesn’t pass without us hearing the word “global” and we are making efforts to build a global procurement system, which is the pillar of Variable Cost Reformation and essential to our business. We believe that not only organizational development but also human resource development is essential for building the system, and we have worked with Mr. Brela, Operating Officer, transferred from NTN SMW in France, to review the procurement organization and to develop human resources that can play an active role in the international arena. To build our foundation, we will think from a global perspective about what is optimal procurement for the Company, and will continue to promote cost reductions, which are indispensable for generating income.

Promotion of Monozukuri Paradigm Shift "PRODUCTION REFORM"

We are promoting digitalization with the aim of realizing “Monozukuri” that determines our competitiveness. The pillar of our policy is to eliminate waste by connecting information, and to prepare for a reduction in the working population through robotization, automation, and intelligence technology. Until now, we have pursued partial optimization (streamlining by process). In order to apply digital technology to prepare for a reduction in the working population through digitalization and streamlining. We are aiming to create a Monozukuri system through digitalization and streamlining.

Promotion of Monozukuri Paradigm Shift "PRODUCTION REFORM"

6 measures for NTN Digital

1. Connect information and eliminate waste
2. Robotization, automation, and intelligibility technology to prepare for a decrease in the working population
3. IoT Solution
4. Mobile Communications
5. Autonomous Guided Vehicle
6. Intelligent Machines

Basic approach to Monozukuri

Expansion of areas covered by production engineering

<table>
<thead>
<tr>
<th>Supply-chain processes</th>
<th>Production engineer</th>
<th>Procurement</th>
<th>Logistics</th>
<th>Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas covered by sales related to production engineering</td>
<td>Vehicle component manufacturing</td>
<td>Logistics</td>
<td>Sales</td>
<td></td>
</tr>
</tbody>
</table>

Conventional production engineering target area

New Wakayama Works

In October 2019, we completed the construction of a new base in Wakayama Prefecture that produces radial bearings, our core products. The factory building has been constructed with a motif of “NAMERAKA” and a streamlined design of the roof. An arcade-like passageway named “Coroco-Road” is established as the central corridor of the building and serves as the main artery of transportation of goods in the building. In addition, a forum, open meeting space and other areas for exchanging information, which are designed as communication areas to create innovation, have been set up on the second floor of the building.

As of June 2020, the installation of new heat treatment facilities and ancillary facilities has been completed, and installation of new grinding and assembly facilities has begun in order to commence mass production in October. Over the next five years, we will continue to transfer the facilities from the Kongo Works and restructure the production of radial bearings centered on this new plant.

Specializing in high-performance, high-value-added products

With the rapid progress of EVs and electrification in the automotive market in recent years, the market for high-performance, high-value-added products such as quietness, low vibration and high-speed rotation is expected to expand with regard to radial bearings used in motors and driving parts. At the New Wakayama Works, which serves as the mother plant of high-performance products, we will adopt the latest heat treatment facilities, FA facilities, inspection instruments, and so on, as well as the latest technologies, including miniaturized and multistage facilities based on the manufacturing practices of the Kongo Works in order to offer a wide variety of products from small lots. Through these measures, we will work on new products that meet the needs of the market, halve the prototype delivery time, and shorten the production lead time to one-third of the previous one, thereby promptly supplying high-quality products to the world. At the same time, the Wakayama Works is aggressively pursuing energy conservation and environmental impact reduction, aiming to become the mother plant of NTN Smart Factory.

Quality management system

We are proactively acquiring ISO 9001 certification (international standard for quality management systems) at domestic and overseas production sites, as well as VDA 6.1 certification (additional standard for the automobile industry). We are also working to acquire certification for new businesses and newly launched sites. Except for the sites which are still in development, all our domestic and overseas consolidated manufacturing subsidiaries have now received the proper certification for their Quality Management System. In addition, they are anbad (standards for the aerospace industry, and IRIS (Europe) and CRCC (China) which are standards for the railway industry are also obtained by relevant sites.

Topics

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Business Strategies Monozukuri

Building a change-resilient "Monozukuri" system that NTN aims for

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We will promote streamlining with the goal of reducing production lead times and improving inventory turnover and productivity. We are aiming to create a Monozukuri system through digitalization and streamlining.
We have established the CSR policy in the spirit of our corporate philosophy. We define CSR as:

- Engaging in corporate activities that incorporate concern for the environment and initiatives to ensure social fairness and contribution to the community
- Fulfilling the duty of accountability to stakeholders
- Working to improve corporate activities not only in the economic aspect, but also in environmental and social aspects.

In 2014, we established the CSR Headquarters to strengthen our groupwide CSR activities. In November 2019, we established the Rules for Managing Sustainability Promotion Activities with the aim of promoting CSR activities (hereafter, sustainability activities) to meet the expectations of society toward the realization of a sustainable society. At the same time, we developed the function of the former CSR Committee and established the Sustainability Committee.

Establishment of the Sustainability Committee

Recently, due to factors such as the increasing damage caused by climate change, CSR (Corporate Social Responsibility) activities have placed more emphasis on not only social fairness but also means for resolving social issues through business activities and contributing to the realization of a sustainable society. Therefore, we developed the function of the former CSR Committee (established in 2006) in November 2019 and newly established the Sustainability Committee.

The committee is chaired by the Executive Officer in charge of CSR Headquarters, and consists of the general managers of ESG-related divisions. The former CSR Committee deliberated on issues and measures to effectively promote CSR activities. In addition to previous activities, the Sustainability Committee clarifies key issues that the Group must resolve through its business activities and sets specific targets for addressing SDGs, and develops business activities based on resolutions made at Board of Directors.

Promoting Sustainability Activities

United Nations Global Compact

We endorsed the United Nations Global Compact (an international initiative for developing a global framework for sustainable worldwide growth) in 2013. Under the UN Global Compact, we support ten principles in the four areas (hereafter, GC10 principles) of human rights, labour, environment, and anti-corruption. We have also joined the Global Compact Network Japan, which is an organization of the United Nation Global Compact, and are working to implement GC10 principles and achieve SDGs.

Initiate identification of materiality

In formulating our 3-Year Medium-Term Management Plan, which will begin in fiscal 2021, we are identifying materiality in fiscal 2020 as our preparation for future growth. In addition, we will set targets for achieving SDGs and incorporate them in our business plans.

Value offered to society (outcome)

Reducing energy loss

SDGs

Low Friction Hub Bearing III

Development of “Low Friction Hub Bearing III” reducing rotational friction by 62%

In recent years, the fuel efficiency of automobiles has been improved, and regulations on CO2 emissions have been strengthened globally. As a result, it has become increasingly important to reduce the energy consumption when vehicles move. In order to further improve the fuel or electricity efficiency, hub bearings that support wheel rotation are required to further reduce rotational friction in addition to satisfying the basic performance such as operating life and strength. NTN has developed the “Low Friction Hub Bearing III” that reduces rotational friction by 62% compared to conventional products by employing a seal structure with labyrinth in the hub. The developed product has improved operating life and resistance to fretting so that it can prevent the fretting wear* in low-temperature condition. We will contribute to improving fuel efficiency and environmental performance of automobiles through producing the developed product.

NTN Green Power Station

Implementation of Long Distance Wireless Transmission Experiments between Bases for building disaster mitigation and surveillance systems using renewable energy and IT

On November 7th 2019, NTN conducted long distance wireless transmission experiments between bases at the Suta Campus of the National University Corporation Osaka University (hereafter, Osaka University) as part of joint research on disaster prevention and monitoring using IT. We have installed three independent power supply units, “NTN Green Power Stations,” which generate the electricity from wind and solar power, assuming the area around the building of the Graduate School of Human Sciences in the Suta Campus of Osaka University as a disaster area, and the Tsukumodai Elementary School of Suita City as a relief headquarters. We used long a distance wireless system to transmit and receive information on an assumed disaster situation. In the experiment, we communicated the disaster situation by via application software by using independent power supply units installed in front of the building of the Graduate School of Human Sciences. A message was sent to the relief headquarters, which was about 3.5 km away from the campus, via two antennas and the two independent power supply units in the campus, and we also checked the damage status by monitoring footage from cameras.

In recent years, natural disasters have frequently occurred, causing power outages and communication interruptions in a wide area over a long period of time, making it difficult to understand the situation of the disaster and conduct relief activities. Establishment of a communication system that utilizes renewable energy is a solution to this issue. The system can be used not only in the event of a disaster, but also in daily life for monitoring local children by equipping surveillance cameras and other equipment with the system. NTN will continue to contribute to the safety and security of local communities by building a system that will help to promote disaster prevention, disaster mitigation, and monitoring of the local community.

Value offered to society (outcome)

Sustainable Society Using Natural Energy

SDGs

Mass production of Wrist Joint Module “i-WRIST™”

We mass produce “i-WRIST™” wrist joint modules for use in appearance inspections. The “i-WRIST™” modules use a special link mechanism that allows the associated device to be more compact and space-efficient, and move over a wider range of movement. The modules enable minor changes in positions (angles) to be made at high-speed like a human wrist. The operating range has been expanded, which allows appearance inspections of complex shapes or hermaphroditic surfaces conducted by humans to be replaced with “i-WRIST™”. Appearance inspections of 60 areas can be completed in just 8 seconds, depending on the shape and size of the workpiece and the speed of the image processing system. As the working population continues to decline in Japan, the demand for automation is expected to grow with regard to appearance inspections that have so far relied on manual work. NTN is focusing on automation and labor-saving technologies for such manufacturing sites, and continues developing products that further increase productivity and quality. We will create a work environment in which people can enjoy their jobs, and will contribute to society.
## Engagement with Stakeholders

### Stakeholders

<table>
<thead>
<tr>
<th>Employees</th>
<th>NTN Group respects diversity, individuality and a safe and healthy workplace environment where employees can work successfully.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customers</td>
<td>NTN Group seeks to maximize customer satisfaction and trust by providing products and services of superior quality, safety and reliability.</td>
</tr>
<tr>
<td>Business partners</td>
<td>NTN Group, in a fair and free environment, builds good partnerships with its business partners and works together for mutual growth and development.</td>
</tr>
</tbody>
</table>

### Main Activities

- **Dialogue between president and employees**: We hold dialogues between president and employees at business sites in Japan and overseas on the themes of “transformation,” “sense of crisis,” and “freely-expressed opinions to improve the company.”
- **Global QC Circle Convention**: We strive to improve safety, quality, and productivity on a global basis, and with the convention as a forum for international exchange, we exchange information on a variety of activities.
- **Under the Fair Operation of the Personnel Evaluation System**: We conduct evaluations that lead to revitalization, promoting the improvement and development of employees’ abilities and motivation through discussions with evaluators, and further ingratiate our employees by treating them based on their work results and the degree to which they demonstrate their abilities.
- **Nationwide Distributors’ Meeting**: We invite distributors from across Japan to briefing sessions on account settlement overview and aftermarket business measures to strengthen our bond with distributors.
- **Technical service units**: We run completely-tailored, multi-functional technical service units worldwide, equipped with teaching materials and exhibits to introduce our products, and hold bearing technical seminars for our customers.

### Stance to Stakeholders

- **Employees**: NTN Group respects diversity, individuality and a safe and healthy workplace environment where employees can work successfully.
- **Local communities**: NTN Group respects cultures and customs in the local communities and builds long-term trust relationships by meeting their expectations through its business activities.
- **Shareholders**: NTN Group focuses on return for shareholders by sustainable profitable growth and builds long-term trust relationships with shareholders through active communications.
- **Environment**: NTN Group harmonizes its business activities with nature and contributes to preserve the global environment by providing its technologies, products and services.

### Main Activities

- **Activities that contribute to the local community (family tours, summer festivals, etc.)**: We hold family tours and summer festivals at each business site as an opportunity to interact with employees’ families and neighboring residents.
- **NTN Rotating School**: As an environmental education program for children who will lead the next generation, mobile-type schools have been opened in various places to deepen regional development.
- **Conservation of biodiversity**: In cooperation with local residents and NPOs, we are working to protect the environment of Satoyama (village forest) areas around our business sites and to protect endangered species.
- **ESG briefing**: In addition to holding results briefings for investors, we also hold ESG briefings to promote understanding of our ESG initiatives. The opinions we receive at the briefing are used to improve our sustainability activities.
- **Reducing environmental impact in business activities**: We are working to minimize harmful environmental impacts by monitoring and reducing emissions of CO2 and regulated chemicals in our business activities.
- **Sustainable resource use**: We are striving for sustainable resource utilization by reducing the use of resources such as raw materials and water, and by thoroughly implementing the 3Rs (reduce, reuse, and recycle) of waste.
- **Developing environment-contributing products**: We are contributing to the realization of a low-carbon society by developing products that can help reduce CO2 emissions during product use and natural energy-related products.
To incorporate stakeholders' input into our sustainable corporate activities, we have held our Stakeholder Dialog since 2015 with academics and experts representing a number of CSR-related fields. For this fiscal year, the 6th dialog was held in July 2020.

One of the "Prepare for future growth" measures in our Business Operating Policy for fiscal year 2020 is "Responding to SDGs." This "SDG Compass," a guide for business action on the SDGs, emphasizes periodic reporting and communicating with stakeholders about SDGs. Through this Stakeholder Dialog, we receive suggestions from experts on our initiatives, and based on these, we are working to determine specific details of our "Responding to SDGs" measures and to promote company-wide initiatives aimed at resolving social issues through our business activities.

### 6th Stakeholder Dialog

To incorporate stakeholders' input into our sustainable corporate activities, we have held our Stakeholder Dialog since 2015 with academics and experts representing a number of CSR-related fields. For this fiscal year, the 6th dialog was held in July 2020.

One of the "Prepare for future growth" measures in our Business Operating Policy for fiscal year 2020 is "Responding to SDGs." This "SDG Compass," a guide for business action on the SDGs, emphasizes periodic reporting and communicating with stakeholders about SDGs. Through this Stakeholder Dialog, we receive suggestions from experts on our initiatives, and based on these, we are working to determine specific details of our "Responding to SDGs" measures and to promote company-wide initiatives aimed at resolving social issues through our business activities.

### Topics of the dialog

#### Topic 1: Sustainability Promotion Activities

- **NTN**: Through our business activities, we contribute to the resolution of social issues and aim to achieve a sustainable NAMERAKA Society. The biggest initiative in the fiscal year under review was a change in the management regulations for sustainability promotion activities. In 2006, we established rules for managing CSR activities, but at that time the policy related to "Responsibility" had a relative emphasis on compliance. While strengthening compliance, we have refamed the significance of "Responsibility" based on the idea that we want to be a company that meets the expectations of society, as stated in our value creation process. We have changed the term from "CSR" to "Sustainability", established the "Sustainability Committee" last year, and have started activities.

- **Kaizaki**: At this Sustainability Committee, "Identification of our materiality" is one of the issues to be discussed. Currently, we have set up working teams centered on young employees and mid-career employees, referring to GRI standards and having set up working teams centered on young employees and mid-career employees.

- **Kokubu**: Identifying materiality is important, but every company seems to find it extremely difficult to put it into practice. This is because all items are important. If everything is important, it becomes meaningless to identify materiality. Currently, NTN has set a large theme that is applicable to any company, so why not focus on more detailed items for discussion? When most Japanese companies plot their issues on a matrix, they use the 2 axes of "importance to society" and "relevance to business." However, GRI essentially wants companies to pay attention to not "relevance to business" but "impact on stakeholders' decision-making." I think it would be good to verify such aspect again.

- **Kaizaki**: OMRON also identifies its materiality. However, human resources management and risk management are regarded as a matter of course, and there is an increase in cases where companies are not evaluated favorably even if they conduct such management activities. We are making improvements to express the uniqueness of OMRON more strongly. I think it would be better for NTN to consider expressing the "uniqueness of NTN" in the same way. What is more important is the period subject to materiality issues and the management system. I think it is necessary to consider how and how long materiality issues are managed in the business management process and how external evaluations are incorporated into the Company’s activities.

- **Kaizaki**: NTN also identifies its materiality. However, human resources management and risk management are regarded as a matter of course, and there is an increase in cases where companies are not evaluated favorably even if they conduct such management activities. We are making improvements to express the uniqueness of OMRON more strongly. I think it would be better for NTN to consider expressing the "uniqueness of NTN" in the same way. What is more important is the period subject to materiality issues and the management system. I think it is necessary to consider how and how long materiality issues are managed in the business management process and how external evaluations are incorporated into the Company’s activities.
to firmly establish them on a global scale in the future. At the same time, we believe that there are issues regarding the positioning of the NTT PROUD AWARD in the corporate award system, how to reflect the practice of our corporate philosophy in our business goals and personnel assessment, and how to promote our corporate philosophy amid the coronavirus pandemic.

Kazazaki: OMRON has also held TOGA/The OMRON Global Awards since 2012 to support the practice of the company philosophy. The only team-based internal award system we have is TOGA. When an employee wins the award, it is recorded in the employee’s personnel evaluation sheet. However, it is extremely difficult to reflect the practice of our corporate philosophy in personnel evaluation, and we are currently looking for ways to link the system to evaluation practices. Regarding corporate philosophy activities amid the coronavirus pandemic, we first placed emphasis on the health and safety of our employees, while at the same time fulfilling our supply responsibilities as a manufacturer and contributing to society through our business activities. Our employees participated in ventilator development in Spain, but this was not a top-level order, but a voluntary action. I think this is a good example of how our corporate philosophy has been disseminated and put into practice.

Kokubu: In recent years, our corporate philosophy has become an extremely important part of our CSR activities. NTN’s founders’ “Frontier Spirit” and “Coexistence and co-prosperity Spirit” have a significant impact. The “Frontier” recalls “Innovation” and “Co-existence and co-prosperity” recalls “Creating Shared Value,” bringing home the fact that NTN really wants to resolve social issues.

Topic 2

Human Rights

NTN: This year we formulated the Human Rights Policy. We signed the United Nations Global Compact in 2015 and changed our institutional designs to a Company with a Nominating Committee, etc. last year. These measures further clarified our Management Policy, and because “Respect for human rights” was included in the policy, we decided to formulate the Human Rights Policy. In the future, we will examine the method of operating this Human Rights Policy, the scope of applicable suppliers and the method of managing them.

Matsuoka: I feel that a mechanism for human rights due diligence is very difficult to operate, even though it is possible to create a mechanism or report to outside parties that a mechanism has been created. The main point of internal dissemination is that each and every employee understands human rights in a way that links them to their work. Human rights risks are also linked to management risks. It is necessary not only to create a system but also to continue education in everyday life.

With regard to the scope (boundary) of suppliers, it seems that many companies actually ask Tier 1 suppliers to investigate things.

Kazazaki: The scope of application of the Human Rights Policy is also important. In the case of OMRON, a survey revealed that regular employees of OMRON accounted for less than the majority of all employees at some business sites. Based on these examples, we believe that we should not apply the policy only to employees who are directly employed by OMRON, but should also apply to temporary staff employees and contractors’ employees who work at the sites.

As for the boundary, we are implementing measures by including surveys targeting Tier 2 and subsequent-tier suppliers in Tier 1 requirements.
ESG strategies | In-house technologies for measures against climate change

In-house technologies for measures against climate change

NTN develops business activities based on our corporate philosophy “We shall contribute to international society through creating new technologies and developing new products,” and the paragraph 1 of the NTN Environment Policy “Technologies to help prevent global warming.”

As bearings and driveshafts, which are main products of NTN, contribute to the reduction of energy loss in final goods of our customers equipped with them (hereinafter referred to as “final goods”), all of these products can be considered as environmentally friendly products. They include products which are already commonly used in society because of the achievement of predecessors, as well as those with environmental contributions further enhanced by NTN’s engineering and development capabilities. NTN continues unwavering efforts to realize its corporate philosophy by developing and providing higher-grade products that contribute to the environment while classifying the products according to environmental contribution levels based on our standards.

Definition of environment-contributing product

Classification and grades of NTN products and their definition

<table>
<thead>
<tr>
<th>Classification</th>
<th>Grade</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment- contributing products</td>
<td>S-eco (Super eco)</td>
<td>Classified according to environmental factor standards specified for different products in line with world’s technology standards</td>
</tr>
<tr>
<td></td>
<td>A-eco (Advanced eco)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B-eco (Brilliant eco)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C-eco (Creative eco)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D-eco (Diffused eco)</td>
<td>Products that help to reduce energy loss of final goods at the same performance level of around 1997</td>
</tr>
</tbody>
</table>

Calculation methods for environmental factors and eco-efficiency

To quantify products’ environmental friendliness, NTN adopted environmental factors and eco-efficiency that are defined in the formula and as follows.

\[
\text{Environmental factors} = \text{Eco-efficiency of developed products} = \frac{\text{Eco-efficiency of benchmark products} \times \text{Product value}}{\text{Environmental impact}}
\]

Calculation standard:

<table>
<thead>
<tr>
<th>Year</th>
<th>Contribution to CO2 reduction from driveshaft and hub bearings (million tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>120</td>
</tr>
<tr>
<td>1999</td>
<td>280</td>
</tr>
<tr>
<td>2000</td>
<td>455</td>
</tr>
<tr>
<td>2001</td>
<td>590</td>
</tr>
<tr>
<td>2002</td>
<td>765</td>
</tr>
</tbody>
</table>

Contribution to CO2 reduction from driveshaft and hub bearings

NTN calculates the amount of CO2 emissions that can be reduced by the contribution of S to D-eco products throughout the assumed life period of final goods in comparison to the amount of CO2 emissions in case D-eco products are continued to be used in final goods instead. Such amount is defined as “Contribution to CO2 reduction” of the year the Company’s products are sold.

The contribution to CO2 reduction from environment-contributing products of the Company for the fiscal year ended March 31, 2020 was approximately 1,490,000 tons (equivalent to approximately 640,000 thousands liters of gasoline).

Contribution to CO2 reduction from green energy products

As one of our new businesses, we are conducting a green energy business and developing products that can utilize renewable energy.

Green energy products are environment-contributing products that generate electricity using clean-energy sources such as wind, water, and solar power that exist everywhere to reduce CO2 emissions. They are expected to supply as an independent power source for the mini-grid network, which can provide efficient power supply in non-electrified areas of the world, and as a regional power source that can utilize unused energy in the region.

In addition, they are used as a power source in the event of a power failure at the time of a disaster to provide safety and security to local communities. (For details, see page 51.)

Contribution to CO2 reduction from green energy products is shown in the table.

Green energy products

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*1 As of February 2020

*2 Estimation based on our study

*3 From the perspective of evaluating contribution toward measures against climate change, environmental impact are calculated as CO2 emissions generated throughout the processes of raw materials relating to production (used the JAPIA LCI calculation tool)
Basic environment policy

Coexistence with the global environment is a top priority for the NTN Group. Our business activities are designed to prevent environmental pollution and preserve natural capital, while our technologies reflect our unwavering efforts to help ensure the sustainable development of society.

1. Technologies to help prevent global warming

The NTN Group will help prevent global warming by developing and releasing new technologies and products that help save and create energy worldwide.

2. Compliance with laws and regulations

The NTN Group will comply with all applicable environmental laws and regulations, while proactively addressing concerns expressed by customers, local communities and other stakeholders.

3. Reducing environmental impact from business activities

The NTN Group will minimize environmental impacts such as emissions of CO2 and regulated substances from all NTN Group business operations, while working to identify and reduce environmental impact from both upstream and downstream supply chain processes (from suppliers to customers).

4. Sustainable resource use

The NTN Group will adhere closely to the three Rs approach (Reduce, Reuse, Recycle) as we work on reducing waste and resource inputs such as water and raw materials, and other resources.

5. Rigorously managing environmentally hazardous substances

The NTN Group will practice green production activities, reducing CO2 emissions and expanding the scope of calculation for environmental management systems.

6. Protecting biodiversity

The NTN Group will work on protecting biodiversity, playing an active role in forest preservation and other activities.

7. Communication

The NTN Group will inform all NTN Group employees about the NTN Environment Policy to raise environmental awareness. We will disseminate information on environmental initiatives widely to the general public to promote active communication with the general public.

8. Continuously improving environmental management system

The NTN Group will improve our environmental performance by implementing and continually improving our environmental management system.

Environmental education

The NTN Group conducts rank-based and function-based environmental education of various kinds. For example, our rank-based education programs include basic education at new employee induction training, practical education after workplace assignment, and education for newly appointed managers upon promotion in order to work on environmental issues at each workplace from the perspective of risk-benefit analysis. Our function-based education programs include education for sales divisions and distributors serving as a contact point for customers on the survey regarding environmentally hazardous substances that may be contained in our products. This program allows participants to learn about how to respond to customers as well as about relevant laws and regulations. Another such program is a training session to develop internal auditors for the environmental management system. Moreover, during the Environment Month every year in June, we rigorously train all employees on important environmental measures of the year, and provide education for raising their environmental awareness. In addition to conventional group training, we are also focusing on e-learning education using e-learning. During the fiscal year ended March 31, 2020, under review, we launched the Environment Month course (beginner course), which summarizes environmental issues that have a significant impact on us, as teaching material for e-learning. We are focusing our efforts on creating a mechanism that enables environmental issues to be easily understood by employees who are not engaged in environmental management.

Environmental management framework based on the environmental management system

The NTN Group has acquired third-party certification globally for ISO 14001, the international standard for environmental management systems. Our environmental management framework is structured to promote the compliance with environmental laws and regulations of each country and continually improve environmental performance.

For business sites in Japan, multi-site certification is acquired, and all business sites work together to achieve environmental targets under the top management led by directors in charge. We also organize sectional subgroups to address individual environmental issues. For example, the Energy-saving/Resource-saving Sectional Meeting promotes energy-saving measures for reducing CO2 emissions as well as measures to introduce renewable energy. In the fiscal year ended March 31, 2021, the Company-wide Environmental Management Committee met four times and the Energy-saving/Resource-saving Sectional Meeting met twice.

To maintain or improve the management system, a “on-site audit (annual)” by on-site auditors and a mutual “cross audit (every three years)” by business units are conducted.

Company-wide environmental performance for the fiscal year ended March 31, 2020

<table>
<thead>
<tr>
<th>Environment Policy</th>
<th>Environmental Targets</th>
<th>Achieved</th>
<th>Not achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reducing CO2 emissions</td>
<td>Japan 24.0% reduction compared to fiscal year ended March 31, 2011</td>
<td>☒</td>
<td>▌</td>
</tr>
<tr>
<td>Reducing CO2 emissions</td>
<td>Overseas 24.0% reduction compared to fiscal year ended March 31, 2011</td>
<td>☒</td>
<td>▌</td>
</tr>
<tr>
<td>Reducing water consumption</td>
<td>Japan 12.4% reduction compared to fiscal year ended March 31, 2011</td>
<td>☒</td>
<td>▌</td>
</tr>
<tr>
<td>Reducing water consumption</td>
<td>Overseas 12.4% reduction compared to fiscal year ended March 31, 2011</td>
<td>☒</td>
<td>▌</td>
</tr>
<tr>
<td>Sustainable resource use</td>
<td>Japan 17 or more participating business sites</td>
<td>☒</td>
<td>▌</td>
</tr>
<tr>
<td>Sustainable resource use</td>
<td>Overseas 97% or more participating business sites</td>
<td>☒</td>
<td>▌</td>
</tr>
</tbody>
</table>

Company-wide environmental targets for the fiscal year ending March 2021

<table>
<thead>
<tr>
<th>Environment Policy</th>
<th>Environmental Targets</th>
<th>Achieved</th>
<th>Not achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing to prevention of global warming through new technologies</td>
<td>Developing and releasing new technologies and products that help save and create energy</td>
<td>☒</td>
<td>▌</td>
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<td>☒</td>
<td>▌</td>
</tr>
</tbody>
</table>
Managing and reducing environmentally hazardous substances

As part of efforts to reduce impacts on the global environment, the NTN Group practices green procurement while working to manage and reduce environmentally hazardous substances.

Reducing PRTR chemical substances

We are making efforts to reduce the use of substances subject to PRTR Law in our manufacturing processes in Japan and replace them with less hazardous substances. In particular, we are focusing on reducing and replacing the use of the six substances listed in the figure below.

Protecting biodiversity

In collaboration with local residents and NPOs, we are engaged in activities to protect biodiversity, such as tree planting through corporate forestation activities, protecting endangered species in the surrounding areas of business sites, and developing natural parks. In fiscal year ended March 31, 2020, 1,428 employees and their family members participated in these activities.

<table>
<thead>
<tr>
<th>Activities</th>
<th>Regional businesses (number of participating sites)</th>
<th>Number of participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest management through forest activities and tree planting</td>
<td>Japan (12), Thailand (1), India (1), China (1)</td>
<td>492</td>
</tr>
<tr>
<td>Protection of endangered species</td>
<td>Japan (2)</td>
<td>18</td>
</tr>
<tr>
<td>Protection of wild birds</td>
<td>Mexico (1), Germany (1)</td>
<td>11</td>
</tr>
<tr>
<td>Cleaning the waterfront</td>
<td>Japan (8), Thailand (1), U.S.A. (1)</td>
<td>471</td>
</tr>
<tr>
<td>Maintenance of natural parks, etc.</td>
<td>Japan (3), Mexico (1)</td>
<td>436</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1,428</td>
</tr>
</tbody>
</table>

NTN Bowser Hamilton(U.S.A.)

Reduction of hazardous waste through liquid waste treatment equipment

NTN BOWER Hamilton Plant strictly stored hazardous waste liquid from the zinc phosphate coating treatment process and outsourced the disposal of the liquid as a hazardous material to a waste disposal contractor. Recently, Hamilton Plant developed the equipment that immediately neutralizes hazardous waste generated in the plant into safe materials. This equipment reduces the generation of hazardous waste by approximately 36 tons/year and improves the safety of employees when waste liquid is stored and transported.

Developed hazardous liquid waste treatment equipment

Protacting endangered species “Miyamasijimi”(butterflies)

Nagano Works and Nagan Prefecture have signed the agreement on biodiversity partnerships to protect Miyamasijimi butterflies, an endangered species. The butterflies are classified in the family Lycaenidae of the order Lepidoptera and their adults are small, about 2-3 centimeters in length and are designated as Class IB endangered species in the Red List of the Ministry of the Environment. The reason for the decrease in the number of butterflies was a decrease in the number of Komatsunagi (false indigo) which are both feeding on the number of Komatsunagi decrease in the number of butterflies was a decrease in the number of Komatsunagi (false indigo) which are both feeding and the conservation of the environment.

<table>
<thead>
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<td>436</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1,428</td>
</tr>
</tbody>
</table>
Measures against climate change (CO2 Reduction)

We are committed to reduce CO2 emissions and emissions intensity throughout our business activities. We have undergone third-party verification to ensure the reliability of the data. We are also promoting the introduction of renewable energies to accelerate our efforts to reduce CO2 emissions.

### Emission Intensities (Japan)

- **Scope 1** (Direct emissions)
- **Scope 2** (Indirect emissions)
- **Scope 3** (Other emissions)

#### Scope 1: Direct Emissions

<table>
<thead>
<tr>
<th>Year</th>
<th>Emission Intensity ( Billion yen/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>0.11</td>
</tr>
<tr>
<td>2017</td>
<td>0.10</td>
</tr>
<tr>
<td>2018</td>
<td>0.09</td>
</tr>
<tr>
<td>2019</td>
<td>0.08</td>
</tr>
</tbody>
</table>

#### Scope 2: Indirect Emissions

<table>
<thead>
<tr>
<th>Year</th>
<th>Emission Intensity ( Billion yen/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>0.47</td>
</tr>
<tr>
<td>2017</td>
<td>0.45</td>
</tr>
<tr>
<td>2018</td>
<td>0.44</td>
</tr>
<tr>
<td>2019</td>
<td>0.43</td>
</tr>
</tbody>
</table>

#### Scope 3: Other Emissions

<table>
<thead>
<tr>
<th>Year</th>
<th>Emission Intensity ( Billion yen/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>0.22</td>
</tr>
<tr>
<td>2017</td>
<td>0.21</td>
</tr>
<tr>
<td>2018</td>
<td>0.20</td>
</tr>
<tr>
<td>2019</td>
<td>0.19</td>
</tr>
</tbody>
</table>

* Calculated using a fixed CO2 emissions factor of 0.381 kg-CO2/kWh for electricity in Japan.

Reducing CO2 emissions in logistics

To reduce CO2 emissions in the supply chain, we are working to streamline logistics. As important measures, we are reducing transportation distances through round-use of export containers and a review of transportation routes, thoroughly implementing eco-driving during truck transportation, and reducing the use of packing materials through the use of returnable steel containers. In the fiscal year ended March 2020, CO2 emissions during shipment of products in Japan, excluding boilers and power generation facilities, were 13,293 tons/year, and the target of 13,964 tons/year was achieved. However, as a result of a deterioration in the loading ratio due to the COVID-19 pandemic, the target of 13,964 tons/year was not achieved.

### Emission Intensities (Overseas)

#### Scope 1: Direct Emissions

<table>
<thead>
<tr>
<th>Year</th>
<th>Emission Intensity ( Billion yen/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>0.45</td>
</tr>
<tr>
<td>2017</td>
<td>0.44</td>
</tr>
<tr>
<td>2018</td>
<td>0.43</td>
</tr>
<tr>
<td>2019</td>
<td>0.42</td>
</tr>
</tbody>
</table>

#### Scope 2: Indirect Emissions

<table>
<thead>
<tr>
<th>Year</th>
<th>Emission Intensity ( Billion yen/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>0.47</td>
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#### Scope 3: Other Emissions

<table>
<thead>
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<th>Year</th>
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<tr>
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<td>2018</td>
<td>0.20</td>
</tr>
<tr>
<td>2019</td>
<td>0.19</td>
</tr>
</tbody>
</table>

* Calculated using a fixed CO2 emissions factor of 0.381 kg-CO2/kWh for electricity in Japan.

Reducing plastic waste (elimination of disposable cups)

NTN Drive shaft do Brasil (Brazil)

Activities to improve the environment through participation of employees

In 2018, the NTN Group established NTN PROUD AWARD, a system that enables employees to take on new challenges and create solutions by setting up an action program based on their day-to-day operations in line with its corporate philosophy. As an action program related to the environment under this system, NTN Drive shaft do Brasil (NDB) has been working to reduce the use of disposable plastic products, which have recently been identified as a source of marine contamination. After receiving an idea from employees, NDB decided to distribute eco-cups that are foldable and easy to use in everyday life and can be used repeatedly. As approximately 150 plastic cups per day were used at NDB, it succeeded in eliminating the use of such cups as a result of introduction of the eco-cups. At NDB, many employees are involved in activities focused on energy-saving and social contribution.
Activities to install the corporate philosophy

Enhancement of corporate value

Today, companies are required to produce not only business results (economic value) but they are also required to be a presence needed by society (social value). If a company is not necessary for society, growth of the company cannot be expected. In order for us to continue to be a company needed by society, it is necessary for us to face social issues and aim to realize a sustainable society by practicing our corporate philosophy.

In 2018, we established the corporate philosophy code of conduct “NTN SPIRIT” in order to instill our corporate philosophy, and NTN SPIRIT clearly stipulates the attitudes and actions we want each and every employee to pursue. We have divided the process of instillation into three steps: “recognition,” “empathy and understanding” and “practice.” We are pursuing measures that lead to the implementation of those three steps.

Installation Phase Map of Corporate Philosophy

**Phase 1 Recognition**

- Internal communication journal
- NTN SPIRIT BOOK, card and poster
- Corporate Philosophy Dialog
- For division managers
- For overseas executives
- For division managers
- NTN PROUD AWARD ceremony
- e-learning
- Follow-up on site activities

**Phase 2 Empathy/Understanding**

- Corporate Philosophy Dialogs spreading to each business site

**Phase 3 Practice**

We issued the Japanese and English versions of NTN SPIRIT BOOK in order to make our corporate philosophy system and its code of conduct “NTN SPIRIT” widely known to all employees working in the Group. This booklet encourages all employees to carry out the corporate philosophy with their dreams and goals in mind in order to create a “NAMERAKA Society.”

In 2019, voluntary activities aimed at disseminating our corporate philosophy were extended to other countries, and we began preparing a French version of NTN SPIRIT BOOK. Overseas employees (NTN BEARING CORP. OF CANADA LTD. and NTN-SNR) played a central role in preparing the booklet so that it is written using easy-to-understand expressions for local employees.

Putting your thoughts into words; To each person’s SPIRIT

We hold Corporate Philosophy Dialogs as a venue for interactive communications in order to help employees not only simply learn about the corporate philosophy system and NTN SPIRIT but also deepen their empathy and understanding for the system and spirit so that employees can express such concepts by using their own words. In the fiscal year ending March 2020, we held workshops at several business sites, and approximately 250 employees deepened their understanding of NTN SPIRIT and shared the values.

Phase 3 Practice

What it means to practice the corporate philosophy

We see our corporate philosophy as a common value that strongly connects each and every employee, not as words on paper. With this common value in mind, we aim to become a “presence needed by society.”

The NTN PROUD AWARD was established as an “opportunity to practice our corporate philosophy” in 2018, when we celebrated our 100th anniversary, with that year being regarded as an excellent opportunity to drive forward transformation for the next 100 years. During the NTN PROUD AWARD 2 in 2019, 76 teams participated from around the world, and 8 teams that received the awards after the two-step selections were praised at the ceremony in December.

Transformation for sales activity localized in Chinese market

With regard to the huge Chinese market, economic growth is still expected in the future. On the other hand, our sales activities in the region faced a variety of issues unique to the region. By resolving these issues, we aimed to improve the NTN brand in the region.

First, we classified a series of sales activities into 4 phases: (i) new customer acquisition, (ii) prospective customer acquisition, (iii) customer base expansion, and (iv) customer maintenance, and implemented concrete actions targeting.

In order to grasp the current situation, such as issues that are identified at the site, we made thorough efforts to identify problems in each phase at meetings with branch managers and through visits to exhibitions. For example, in the (i) new customer acquisition phase, we once again analyze the reasons behind the low level of awareness of the NTN brand in the Chinese market. As a countermeasure, we are reviewing the use of our website localized to the Chinese area, improvement of our own website, and PR methods to disseminate our track records in a wide range of industries, and are restructuring sales activities and strengthening our sales system.

In the section of “Challenge,” one of credos in NTN SPIRIT, it is stipulated that “We passionately challenge ourselves without being satisfied with the current situation.” As in this guideline, we were able to promote the establishment of a sales structure in the Chinese market by pursuing innovations while thinking on our own without being satisfied with the current situation. In the future, we will transform our business operations with the three creeds of NTN SPIRIT as our guide: “Challenge,” “Collaboration,” and “Commitment.”

Four Award Categories based on the Corporate Philosophy

Employees are allowed to organize their team members on their own, and freely set themes they are interested in. In addition, by letting employees participate in four award divisions based on our corporate philosophy, we are strengthening the realization of our philosophy and the linkage between our philosophy and themes.

Participants in the NTN PROUD AWARD have expressed opinions such as “through our own thoughts and actions, we have started to implement our daily tasks proactively” and “because the team consists of members from various departments, the interaction has been deepened, causing a positive effect on our daily work.”

Evaluation criteria based on NTN SPIRIT

The activities of each team are evaluated based on three creeds (Challenge, Collaboration, and Commitment) that are included in NTN SPIRIT. One of the characteristics of this process is to approve and praise teams, in terms of not just results but also processes. Participants commented, “By knowing the processes in case examples from other companies, we were able to incorporate them into our own business activities, boosting our motivation;” and “With ‘Challenge’ incorporated in the evaluation criteria, we were able to overcome our inclination to follow precedents.”

Criteria based on NTN SPIRIT

- Field of Creation
- Field of Contribution to the Society
- Field of Globalization
Promotion of work style reform
We have promoted a work style reform which enables all employees to find their work rewarding, fulfill operational responsibilities, and comfortably lead their lives in society with harmony and peace of mind. We thoroughly manage working hours and introduce no overtime days, flextime, and an interval system to enable each employee to work efficiently. In addition, we have also worked on the reform of personnel systems, such as introducing systems responding to various types of career paths and life events (e.g., childcare and long-term care), to provide opportunities for many employees to take an active role.

Realize diverse work styles
Promotion of remote work
We participated in TELEWORK DAYS 2019, an initiative taken by MIC, METI and other organizations to encourage companies across Japan to conduct telework. From April 2020, to prevent the spread of the new coronavirus (COVID-19), we have promoted telecommuting initiative and staggered working hours for employees, which mainly uses public transportation, and are implementing measures prioritizing ensuring the health and safety of employees.

NTN Job Return Scheme
We have a rehiring system for employees who left their jobs due to life events, such as marriage, childbirth, childcare, long-term care, career development opportunities (studying abroad, job change, etc.) and spouse’s job relocation. Through this approach, we promote work-life balance as well as the development of an environment where employees can make the most of their experience, knowledge, and expertise acquired in the Company or other companies after leaving the Company. Thus far, three people have returned to work using the job return scheme.

Enhanced lineup of employee leave programs
We provide maternity, childcare, and long-term care leave programs which are developed well beyond the legally mandated standards. Such approach leads to a system which allows many employees to continue their careers without suspension. For example, the system of shortened working hours for childcare expands its scope to those who raise children who are in the third grade of elementary school or younger, and introduces staggered working hours due to childcare in Tokyo and Osaka. Such initiatives are far beyond the legally mandated standards.

We are not only working to develop such a system, but also putting our heart into making the system become vitalized and convenient for employees. We are also trying to create an office workplace where employees can make full use of the system.

High rate of taking annual paid leave
Our initiative to promote the taking of annual paid leave started in the 1980s. Under the original keywords of “comfort and prosperity,” we have worked on the realization of work-life balance. We have maintained a high average utilization rate of annual paid leave, exceeding over 80% for over 25 years. Now, we are aiming at a higher level, working to develop multi-skilled employees, conduct proactive job rotation, and cultivate a workplace atmosphere which encourages employees to take annual paid leave.

Trend of annual paid leave utilization rate

<table>
<thead>
<tr>
<th>Year</th>
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Basic approach to occupational safety and health
Ensuring the safety and health of everyone working in the NTN Group is the most important value. It takes priority over all our business activities and is the foundation of our management. Based on this basic stance, we aim to create a workplace environment where employees can work actively, safely and healthily.

Development of framework supporting safety and health
We work to further strengthen the management of the natural environment, and occupational safety and health in order to improve the effectiveness of the Group, by promoting integrated management of the natural environment, health and safety, which are gaining more and more attention globally.

We promote the development of a workplace with no occupational accidents, under the global safety management structure where President/CED serves as chief director, the officer in charge as general manager of corporate safety and health, and the corporate general manager of each headquarters in Japan and the general manager of each overseas region as managers.

Occupational accident data is shared by domestic and overseas plants using a database. In particular, in the event of a severe accident, we implement measures more straightforward.

Approach to Kenko Keiei (health management)*
In view of the fact that proactive efforts to maintain and promote the health of employees are important management factors that will affect the sustainable growth of the Company, we promote various measures to realize an employee-friendly workplace environment where each employee can perform at their full potential, in cooperation with the health insurance association.

Enhancement of Healthy working atmosphere
• Promotion of work-life balance, and avoidance of long working hours  
• Promotion of active communication in the workplace  
• Initiatives to promote balancing work and treatment of disease

Enhancement of safety
• Improvement of workplace environment based on the results of stress checks  
• Prevention of mental illness with self-care and care by supervisors  
• Enhancement of monitoring and management of diseases

Enhancement of physical health
• Appropriate health guidance and improvement of lifestyle based on the results of medical checks  
• Steady implementation of ideal health plans in cooperation with the health insurance association  
• Improvement of the participation rate of medical checkups for employees’ spouses

*Kenko Keiei (health management) is a registered trademark of the MPH Health Management Research Association.

Outline of Human Rights Policy
Based on the following three basic principles, we have formulated the Human Rights Policy pursuant to our Management Policy:
1. NTN will respect internationally recognized human rights.
2. NTN will not violate the human rights of others.
3. NTN will respond appropriately to any negative impacts its business activities may have on human rights.

Outline of Safety and Health Basic Policy
Based on the following six basic principles, we have formulated the Safety and Health Basic Policy pursuant to our Management Policy:
1. Compliance with laws and regulations
2. Promotion of continuous improvement through the operation of an occupational safety and health management system
3. Elimination and reduction of hazardous/harmful risks
4. Promotion of employee education and training
5. Maintenance and promotion of mental and physical health
6. Creating a safety culture

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Basic approach to diversity
The economic condition and social structure surrounding us have drastically and rapidly changed, including the shrinkage of the labor force and the new normal with COVID-19. We are working on sustainable transformation, and one of the important strategies toward this transformation is promotion of diversity.

By combining these diverse values and creating flexible ideas, we will accelerate "transformation." It is necessary to create a workplace environment in which a variety of people, irrespective of nationality, culture, gender, age, or disability, can create better ideas based on open-minded thinking, and each and every employee can be proud of the company and demonstrate his or her abilities to the fullest. To support this, we are promoting work style reform, such as the introduction of remote work and a job return scheme, in response to the diversification of lifestyles and work styles.

We will realize our corporate philosophy: “We shall contribute to international society through creating new technologies and developing new products” by promoting diversity.

Encouraging women in the workplace
Promotion of female managers
In order for us to continue to grow, it is essential to create a workplace that promotes diversity and generates innovative ideas. One of the themes for achieving this goal is to promote the active participation of women and promote the appointment of female managers.

To prepare for the planned appointment of female managers, we are working to develop skills of female manager candidates through seminars. First, we hold “encouragement seminars” and “next-leader training” in order to make career upgrades easier to imagine for supervisor classes.

Promotion of employment of persons with disabilities
As a workplace where people with disabilities can take the lead and work safely, we have established three “Dream Workshops” at Kuwana, Iwata and Okayama Works. In addition, we are working to create a comfortable working environment for people with disabilities, such as by promoting barrier-free workplaces.

“Collaboration” is being promoted in every workplace, as the manufacturing sites and the administrative divisions also utilize the strengths of a variety of people and encourage them to play an active role.

Balancing work and childcare
We were certified by the Ministry of Health, Labor and Welfare as a company supporting child-rearing, and obtained the next-generation certification mark Kurumin. Kurumin is granted to companies that have formulated a general business operator’s action plan based on the Act on Advancement of Measures to Support Raising Next-Generation Children and have achieved relevant targets and met certain criteria. We have formulated an action plan that incorporates measures to establish an in-house information system for employees on childcare leave, encourage men to take childcare leave, and have implemented childcare-supporting measures. In addition, we promoted initiatives to achieve a work-life balance that extend to employees who do not engage in child-rearing. For example, promoting the use of paid leave, and establishing a reshuffling system for employees who left their job due to a life event which is not limited to childbirth and childrearing. As a result, we were able to obtain this certification.

Implementation of online recruitment
In 2020, as part of our graduate recruitment campaign, we conducted a screening interview online to prevent the spread of the new coronavirus (COVID-19). All screening steps, including briefings on the Company, were carried out on the internet. As a result, we were able to secure the safety of selected students and our employees, as well as to reduce the burden on students who participate in screening from a long-distance work. We also strive to secure opportunities for students to come into contact with NTN in all situations by utilizing the Web system in interviews with students before and after screening and in various recruitment events. In the future also, we will continue to secure human resources who support our business activities, through recruitment activities that take into account students participating in the screening process, while effectively utilizing the Web system in response to changes in the environment.

NTN training system
In order to ensure that employees acquire the mindset, knowledge, and techniques necessary to meet the level of skills (such as qualifications) required according to job grades and can enhance their ability to perform their duties, we are implementing human resource development programs at all levels that enable employees to think and act for themselves. In order to expand our business in the next 100 years, it is essential to develop human resources capable of playing an active role not only in Japan but also overseas. As a program to foster outstanding human resources and international human resources by raising the spirit of improvement, we are also utilizing overseas studies and scholarships.

Online training programs
Graduate new employees participated in an introductory group training program for about a week after joining the Company. The training was held as an opportunity for new employees to interact with each other in conjunction and develop a mindset as a member of society and that their ability to communicate in business situations. However, amid the spread of the new coronavirus, we stopped group training to prevent the risk of infection during travel and the 3 Cs, and implemented a conventional program in the form of online training. Our training program incorporates a large number of group work sessions, so it was initially uncertain whether the expected benefits of online training could be achieved. However, we were able to engage in active discussions and exchanges of opinions through the use of online group work functions.

On this occasion, we will review our existing training programs, divide them into online training programs and group training programs, and promote an approach to conducting training online.

Expansion of employment of elderly employees
Under the circumstances of the decreasing birthrate and aging population in Japan, we are working to encourage experienced employees to take an active role as important workers. After an employee reaches the retirement age of 60, we are reviewing our treatment of the employee so that we can create an environment where experienced employees can take advantage of their careers and raise their motivation.

In comprehensive consideration of their career experience, skills, workplaces, etc., employees of any of our domestic group companies can continue to work. Under this system, 84% of all the employees that reached the mandatory retirement age in fiscal year 2019 were re-employed, and the re-employment rate remained high as in the previous year.

Promotion of diversity and utilization of diverse work force
Basic approach to procurement activities

Based on the perspectives of “Globalization,” “Fairness/Impartiality,” and “Environmental Preservation,” we have built trusting relationships with our business partners and are conducting procurement activities centered on our head office purchasing divisions. Furthermore, based on the “NTN Group Green Procurement Standards,” we are promoting green procurement, which prioritizes environmental preservation efforts and procurement from business partners with superior environmental quality. We have also established “NTN CSR Procurement Guidelines” and are requesting active promotion of CSR activities. We are also working to achieve local procurement at all of our manufacturing sites, including those outside Japan, and to procure materials from optimal locations globally.

Green Procurement Standards

Failure to comply with environment laws and environmentally-hazardous substances regulations in the supply chain is a management risk that leads to shut-down and compensation for damages to customers. We are promoting environmental control throughout the supply chain by establishing green procurement standards that require our business partners to establish an environmental control system and define the standards of environmentally-hazardous substances, which constitute the important quality characteristics of delivered products.

CSR Procurement Guidelines

We have established NTN CSR Procurement Guidelines to promote activities throughout the entire supply chain in response to social issues such as human rights and labor practices, environmental issues, the elimination of anti-social forces, and anti-corruption. We request our business partners to further promote CSR procurement activities in areas such as compliance and anti-corruption, human rights and labor, environmental issues, quality and safety, information-security, business continuity, and social contribution.

Procurement complying with environmental regulations

In order to comply with environmentally-hazardous substances regulations in Japan and overseas and customer standards, we actively switch regulated substances regardless of applications, destinations, or manufacturing locations. To comply with the RoHS Directive which was revised in July 2019 and prohibits phthalates (DEHP, BBP, DBP, and DIBP), we have established a system for incoming inspection according to the risks involved. We are promoting the switching from lead-containing products that are currently used for applications exempted from the RoHS Directive, assuming future tightening of regulations.

CSR questionnaire for suppliers

We conduct annual surveys of business partners to further raise awareness of “NTN CSR Procurement Guidelines” and to confirm compliance. In the fiscal year ended March 31, 2020, we surveyed 240 suppliers, such as those who responded that they were not successful in the last fiscal year’s survey and those who have newly begun business with us from FY2019.

In most of the items, the status of efforts has been improved since the previous survey, and they have a better understanding of the importance of CSR procurement. However, with regard to information security and business succession management, some suppliers became aware of issues such as new threats under their work systems which were introduced in line with the state of emergency declaration in response to the spread of the new coronavirus (COVID-19) infections. We will further continue to work on raising awareness of the CSR procurement.

Degree of Achievement According to CSR Questionnaire Results

We periodically investigate whether or not certain minerals contained in our materials or components are sources of funds of armed groups in conflict areas, which leads to human rights violations, illegal mining and smuggling.

In FY2019, we traced back through our supply chain of 297 business partners to identify the material smelters, and more than 90% of such partners reported that they do not use any conflict minerals.

We will continue to conduct this survey periodically to monitor the inclusion of conflict minerals from conflict or high-risk regions.

Companies listed on U.S. Stock Exchanges are required to disclose the use of conflict minerals under the U.S. Dodd-Frank Act. Based on the results of the above survey, we respond to inquiries from our customers regarding conflict minerals. As human rights issues are gaining attention globally, corporate awareness of such issues is growing. Regardless of the U.S. Dodd-Frank Act, the number of companies voluntarily eliminating the use of conflict minerals is increasing as shown in the chart below.

NTN will continue to deal with conflict minerals as part of our supply chain CSR.

Conflict minerals survey

We conduct self-audits of subcontract transactions with the aim of optimizing subcontract transactions. In order to voluntarily audit the compliance status of the Subcontracting Act, each business site in Japan is responsible for implementing a certification system for “subcontracting self-auditor”.

In September 2019, we held a “Self-Auditor Training Course for Subcontract Transactions” and newly certified 26 employees as self-auditors. The total number of self-auditors reached 108. In the fiscal year ended March 2020, self-audits were conducted at our 22 business sites in Japan, with the self-auditors playing a leading role in such audits. We will continue to conduct activities aimed at optimizing subcontract transactions.

Risk management for suppliers

From the perspective of management of risks associated with our business partners, before starting new transactions, we check the management status of business partners as well as their management of quality and environmental issues.

We also conduct an annual survey for business partners, which we have already conducted transactions with, to continuously monitor their business conditions. In addition, for suppliers who are deemed to have high transaction risks, we implement risk-reducing measures commensurate with the impact they may have on us in terms of procurement parts, transaction amounts, etc., in an effort to minimize procurement risks and ensure stable procurement activities at all times.

Recently, business continuity risks such as natural disasters and infectious diseases have been increasing, and we have created a crisis management database to prepare for unforeseen circumstances. In the event of an emergency, we promptly confirm the safety of our business partners and manage risks related to the stable supply of products throughout the supply chain.

Supply chain BCP

We are promoting supply chain BCP activities including logistics and business partners in order to ensure stable procurement. We are strengthening crisis-management in preparation for natural disasters such as earthquakes and typhoons at our business partners and distribution bases. In addition, in a widespread crisis such as a pandemic, we will cooperate with our business partners to ensure the business continuity, and promote infrastructure development such as online business operations with our business partners, the safety confirmation at the time of disaster, sharing the safety information and the code of conduct.

Compliance with Subcontracting Act

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Coexistence with the Local Communities

Basic approach to contributing to local communities

One of the credos of NTN SPIRIT “Collaboration” states that “We take care of the natural environment and maintain coexistence with the local community.” In addition to contributing to society through our business activities, we also work to help achieve the UN’s Sustainable Development Goals (SDGs) through various activities tied closely to local communities around the world.

People and Regions connected by “NTN Rotating School”

To promote a harmonious coexistence with local communities, the Company organized NTN Rotating School in 2017 as a way to facilitate community interactions for our employees and education for the next-generation. This is a mobile school based on the concept of having children that will help the next generation learn about the environment and energy saving while having fun.

This year marks the fourth-year of the school, and the number of programs is increasing year after year, deepening ties with a variety of people in each region.

October, 2020

Elhon(Picture Book) picnic

NTN Rotating School was held at a local exchange event in Ustupu park near the head office. Many local visitors said, “I didn’t know NTN had such a project! Although I have seen NTN signboards for a long time, but we were able to interact with local residents through various hands-on workshops using bearings, and participants could feel a warmer affinity toward NTN as a local company.”

With a twinkle in their eyes, all the children listened hard to the explanation of their “new teacher” while touching the bearings and musical instruments that they had never seen before. Even after the class, they kept playing without wanting to leave the classroom. We had each child spend a good deal of time working on a project according to his/her personality and they were able to feel the joy of being able to do something themselves.

A Message from LITALICO Junior Teacher

I was touched many comments from parents such as, “It’s the first time I’ve seen our children enjoying themselves so much” and “I wonder if they can get a job in the machinery field in the future?” It was the first time not only for children but also for instructors that a teacher not belonging to LITALICO delivered a class. Therefore, we felt anxious about how the class would be received that day. Thank you very much for letting us have such a wonderful experience.

Many families visited the NTN booth throughout the day

Participant’s Feedback

• I learned that bearings are used in various places and are all around us. I also learned a lot of things that I can’t learn at school. (Elementary school student)
• Knowing that the earth is in danger now, I want to learn what I can do and try to do it. (Elementary school student)
• It was difficult to assemble the bearings, but I was able to fully understand the mechanism. It was surprised at the high precision of a ball. (Adult)

February, 2020

“LITALICO Junior” Tenmoji Class*

The Sibiu Plant of NTN-SNR Rulmenti S.R.L. has established the Environment, Health and Safety Week as one of the measures to raise awareness of CSR among employees. Some of these activities involve a measure to raise employees’ awareness of their health. For example, each employee team moves around the city by bicycle along the Cibin River, which runs through the city, to clean up areas around the river. As such, employees take the initiative in resolving local community issues. The interaction between employees, which goes beyond the boundaries of normal business operations and business divisions, helps to raise CSR awareness and reinforce teamwork.

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Participant’s Feedback

• I learned that bearings are used in various places and are all around us. I also learned a lot of things that I can’t learn at school. (Elementary school student)
• Knowing that the earth is in danger now, I want to learn what I can do and try to do it. (Elementary school student)
• It was difficult to assemble the bearings, but I was able to fully understand the mechanism. It was surprised at the high precision of a ball. (Adult)

• I learned that bearings are used in various places and are all around us. I also learned a lot of things that I can’t learn at school. (Elementary school student)
• Knowing that the earth is in danger now, I want to learn what I can do and try to do it. (Elementary school student)
• It was difficult to assemble the bearings, but I was able to fully understand the mechanism. It was surprised at the high precision of a ball. (Adult)

• I learned that bearings are used in various places and are all around us. I also learned a lot of things that I can’t learn at school. (Elementary school student)
• Knowing that the earth is in danger now, I want to learn what I can do and try to do it. (Elementary school student)
• It was difficult to assemble the bearings, but I was able to fully understand the mechanism. It was surprised at the high precision of a ball. (Adult)
Topic 1
Achievements of Governance Reforms

In June 2019, NTN obtained approval from an Annual Shareholders’ Meeting and transitioned from a Company with Board of Corporate Auditors to a Company with a Nominating Committee, etc., but what has changed due to the transition?

Tsuda: Traditional Japanese firms did not have a clear distinction between execution and supervision, and their function of supervising execution, or so-called governance, was inadequate. The same is true for NTN. Although NTN made a good decision to introduce Outside Directors, Board of Directors decided on even minor matters as before and the content of reports on such minor matters as before and the content of reports on such discussions themselves in their respective capacity and have not answers themselves. Also, the number of meetings has been concentrate on “supervision” tasks because executives give meetings served as a forum for sharing information and exchanging views among Outside Officers. This has been very helpful. On the other hand, I also felt that “measures are often taken to simply follow precedents.” When I asked “Why do you do this?” in an interview during an audit, I often received answers like, “This is what we’ve been doing for a long time.” Even if they thought they needed to change those points, the actual situation might not have allowed them to make a change easily.

Tsuda: The transition to a Company with a Nominating Committee, etc., provided a good opportunity to change this corporate culture.

Kawahara: That’s right. However, though we took time to discuss the transition, the discussion remained as far apart as ever and did not proceed very much. I also participate in a Management Meeting and other meetings that are held before Board of Directors meeting is held, but there were some cases in which an issue was finally submitted to Board of Directors after many meetings were held for such issue. After the system change, Directors are able to concentrate on “supervision” tasks because executives give answers themselves. Also, the number of meetings has been reduced, and I feel the decision making process has been accelerated and streamlined. With regard to Global Management Conference, Executive Officers have recently held active discussions themselves in their respective capacity and have not necessarily adopted resolutions unanimously.

Tsuda: Some employees still have an impression that becoming a Director means becoming important, and that some employees still have an old mindset. Governance reform can’t possibly be achieved overnight, but due to the change in the system, we are making steady progress toward the desired direction.

Topic 2
Awareness of Issues in the Fiscal Year ended March 2020

What issues did you consider as the head of the Nominating Committee and the Audit Committee in the previous fiscal year?

Kawahara: Let me talk from the viewpoint of an Audit Committee member. Due to the frequent occurrence of improper accounting incidents involving our overseas subsidiaries that are listed companies, strengthening internal control globally was an important theme in the previous fiscal year. In Japan, the Audit Preparation and Support Office played a central role in holding regular meetings with statutory auditors of our subsidiaries, and we implemented initiatives such as sharing case studies. As a result, practices gradually being improved, and I feel that the initiatives are producing good results. With regard to appointment of directors and statutory auditors at our Group companies in Japan, our senior management gives direct instructions to recruit human resources that are really helpful and advantageous to those companies. On the other hand, issues still remain in our overseas Group companies. Cultures and other factors vary depending on the regions and problems are difficult to identify. If we go to a local site for an audit and have a connection, we will be able to speak frankly. However, we have not yet established a relationship with all foreign subsidiaries and affiliated companies.

Tsuda: As Mr. Kawahara has said, there are issues with internal control of our overseas Group companies. Although we have been moving forward with initiatives such as recruiting Herve Breau from the outside and appointing him as Operating Officer in charge of Procurement, there has been a delay in the globalization of headquarters functions. Non-business information such as the helpline is not quickly provided to Board of Directors from overseas sites. Regarding compliance at overseas sites, it is difficult to grasp problems because information as to what a problem exists and what the situation is like is not quickly provided to NTN’s Head Office.

Kawahara: In order to solve the issue, we are currently creating a channel through which the sections in charge of internal control at overseas sites provide information to the Executive Officer in charge of overseas sites who works at NTN’s Head Office.

Tsuda: This may be a harsh comment, but in other respects too, I feel that the speed at which a decision made by top management is disseminated to local sites and is put into practice is slow. For example, even though we decided to “curb capital investment,” the decision was not quickly put into practice. Sometimes I think it might be difficult to stop operations. In such a situation, on the contrary, it would be difficult to accelerate operations when it is necessary to do so. The same is true of the inventory. Even if inventory reduction is decided, it does not appear that the reduction proceeds quickly. Though the production process is long and divided into multiple sections, it takes time to “control” operations, because it takes time to communicate, information is not conveyed, and each organization is unable to think and act on its own.

Kawahara: With regard to “trust,” I would like to add something: when reporting the results of on-site audits to Board of Directors, we do not present any complaints, but are trying to communicate the facts frankly. Also, at the end of the audit, I try to ask, “What do you think of the current NTN? What does NTN need?” The subjects of audits are general managers of business sites and president of subsidiaries. They themselves have various thoughts, and I have heard them voicing questions like “What direction will NTN take?” Such voices are also reported and shared in Board of Directors and at other opportunities. This is because it is important to take follow-up measures to resolve problems in some way, as long as we have people at the site talk about their problems during the audit. Conversely, if we feel that the thoughts of Directors and Executive Officers are not communicated to people at the site, we may communicate them at the time of audit. Through these efforts, if we can communicate with each other and understand what trouble the work site has and what the NTN Head Office is thinking about, I believe we have fulfilled the role of auditing. We believe that realizing a smooth organization is also an important role of the auditing team.

Topic 3
What is required of Directors

What are you doing to foster a future Director who will be responsible for management in the future? What is needed to build confidence between Directors and personnel at the site?

Tsuda: By the way, the Nominating Committee believes that “fostering successors” is a major issue. The issue is not how we will nurture the next generation, but our focus is on how to nurture the generation after the next and the generation after such generation. Education on business skills is sufficiently provided, but it is necessary to develop the ability to hold discussions on major themes and to enhance education for raising awareness of management issues. We are currently reviewing what kind of skills are needed in Japan and globally, and what kind of education should be provided to nurture such skills, targeting people around the age of 50. In addition, we created a skill matrix so that the skills of Directors can be understood by shareholders and third parties. (See p.73 for more details.)

Kawahara: The “Notice of Convocation” for the 121st Shareholders’ Meeting (held in July 2020) also includes the skill matrix of candidate Directors.

Tsuda: I would like to use this kind of matrix to check the skills of candidate successors and strengthen each person’s skills, for example, by training them if there is any skill imbalance. However, it is not enough to have many “circles” in the checkbox, and we would like those who become a Director or Executive Officer to have a profound knowledge in at least one field. In order to gain the “trust” of people, which forms the basis of a leader, I think it is also important to acquire outstanding abilities that make others think “this person is a leading expert” or “I can’t best this person.”

Kawahara: With regard to “trust,” I would like to add something: when reporting the results of on-site audits to Board of Directors, we do not present any complaints, but are trying to communicate the facts frankly. Also, at the end of the audit, I try to ask, “What do you think of the current NTN? What does NTN need?” The subjects of audits are general managers of business sites and president of subsidiaries. They themselves have various thoughts, and I have heard them voicing questions like “What direction will NTN take?” Such voices are also reported and shared in Board of Directors and at other opportunities. This is because it is important to take follow-up measures to resolve problems in some way, as long as we have people at the site talk about their problems during the audit. Conversely, if we feel that the thoughts of Directors and Executive Officers are not communicated to people at the site, we may communicate them at the time of audit. Through these efforts, if we can communicate with each other and understand what trouble the work site has and what the NTN Head Office is thinking about, I believe we have fulfilled the role of auditing. We believe that realizing a smooth organization is also an important role of the auditing team.
The NTN Revitalization Scenario was announced in June 2020. Currently, a medium-term management plan is being formulated with the fiscal year ended March 2023 as the plan’s final year. How do you intend to revitalize NTN?

Tsuda: The results for the fiscal year ended March 2020 were extremely unfortunate. The cash flow from capital expenditures was not in line with our expectations, causing a divergence between our initial expectations and actual results. In addition, we posted impairment losses due to the impact of the new coronavirus (COVID-19).

Kawahara: While sales did not grow in the previous fiscal year, a burden was imposed on us due to the suspension of production of a new plant in Wakayama Prefecture. However, this was for the purpose of anti-seismic measures and production restructuring, and must be seen as an end. As Mr. Tsuda said earlier, the “vertical division” of system businesses exhibited strong effects, and the division’s idea of “investment must be made because the project has been decided” took precedence, with the initial estimates being too optimistic and the expected return on investment overestimated. In such a case, I think we were not aware of our intentions, and whether to stop it, and how to control it. I would like to confirm once again how to follow up on capital investment.

Tsuda: That’s right. We (Directors) are also responsible for determining the performance, and we have made strict evaluations and assessments in terms of personnel affairs and compensation, by taking measures such as reducing administration staff. The issue is what direction to take in the future. How will you improve your business performance after you have overcome the impact of the next fiscal year? How are you formulating the next medium-term management plan, and do matters how Outside Directors will commit to it?

Kawahara: Recent investment is no longer permitted unless a reasonable explanation is given, including estimates of revenues and expenses and potential market. At last, we have shifted our focus from scale to cash flow and profit. I believe that this is because customers’ expectations affected by the “horizontal axis” such as Finance Headquarters, Corporate Strategy Headquarters, Production Headquarters, and CSR Headquarters. I feel that the idea of generating value should be prioritized with priorities based on the “horizontal axis taken into account,” and the idea of individual optimization at business divisions is being discarded. I myself believe that the highest priority should be given to cash flow. One of the major reasons why investment doesn’t generate cash is that inventories are not quickly reduced, as mentioned earlier. I believe the reason why inventories do not decrease is that the Company has its own pre-manufacturing processes. In principle, having pre-manufacturing processes should result in the retention of inventory, but the problem is that the burden of investment and inventory is greater than the income.

Tsuda: Recently, the idea of production reform has been accepted, and the idea of reducing and downsizing the pre-manufacturing processes through outsourcing and failureless models is being adopted.

Kawahara: That’s right. We certainly suffered a great deal of losses, but these have been due partly to the need for new equipment or “bleeding” which we couldn’t carry out in the past, and I feel confident about our efforts in that respect. A management team to expand the “scale” larger, future investments should be made after judging “whether or not you can reliably gain profit,” and investments that have already been made need to be justified after the fact. As a full-time Outside Director, I will strongly recommend such measures in the future.

Tsuda: With regard to the difficulty of “stopping operations,” I mentioned earlier, we already have a long manufacturing process, and the Company (going to the idea of having all processes on its own and plunged into a situation where it had a lot of inventory as intermediate goods. Even when no operation was stopped, because the entire production process is long, inventories are accumulated in respective sub-processes. In order to resolve this issue, we have begun efforts to reform production so that we do not have intermediate goods.

Kawahara: Governance reforms have enabled Executive Officer in charge of the Production Headquarters to focus on his own duties, and due partially to this, the production reforms have been facilitated.

Tsuda: In response to Executive Officer’s advice, young employees at our core plants have led the way in rationalizing production, and have begun to expand this initiative to other plants. As a Director, I would like to make sure that the rationalization effort is not hindered and that they are fully supported. It is very important to make investment decisions for production facilities.

Kawahara: It seems that, when requested by customers, our employees think “even if profit from this project is low, our future business will be expanded by working on the project” and as a result, they make unprofitable investments.

Tsuda: Weak cost competitiveness tends to lead to such ideas. If a manufacturer’s requirements are not consistent with our strategy, we can reject them, can’t we? I believe it is most important to overcome the weaknesses of our company and to build up strength that surpasses that of our competitors. To this end, I believe that the ultimate issue is to what extent we can make rationalization efforts, including production reform and sales reform.

Kawahara: The management system has been in place, but if you ask whether we have assumed the outlook of infectious diseases such as the new coronavirus, we made no detailed assumption about such situation. Nevertheless, we believe that NTN has been able to respond smoothly to the new coronavirus by linking the diverse assets hidden in the Company with the desperate needs of society.

Tsuda: My evaluation is similar to Mr. Tsuda’s. In the event of a global pandemic, the Central Headquarters, headed by President, has been able to collect information and manage various measures in a unified manner, with the highest priority promptly placed on the health and safety of employees and customers. Our measures to promote work style reform and introduce telecommuting under the leadership of the Personnel Department have also helped us respond to the pandemic successfully. In the future, I think it is important to summarize the issues that have surfaced, such as overtime management and evaluation systems, and incorporate solutions to such issues into our systems. In addition, while the Procurement Headquarters is following up on the management of the supply chain, it is necessary to carefully determine the extent of impacts of the new coronavirus. In addition, because our financial position significantly worsened, we must be aware of the increasingly unfavorable evaluation of our company by society, and fulfill our accountability to explain our current situation and goals to all stakeholders, as we strive to produce results in a reliable manner.

Tsuda: I think what position NTN will take in terms of the supply chain is a very important issue in light of the turbulent social situation. We need to consider the confrontation between the U.S. and China, which has surfaced in recent years.

Kawahara: Returning to the topic of capital investment, we should allocate budgets to “investment for renewal of aging facilities” and “investment for rationalization leading to reduced fixed cost,” which have not been sufficiently carried out until now. Even if the scale of the budget for capital investments shrinks, partly due to the impact of the new coronavirus, these investments may contribute to lowering the break-even point. If you use old equipment, it seems that the cost is kept down at a first glance. However, problems arise, such as quality issues or low productivity. I believe that we need to implement control measures so that such problems do not occur.

Tsuda: When regard to materiality, it may be a good idea to start with work with a rough design and update it according to the situation, instead of trying to create well-designed work from the beginning. Also, I believe that it is most important for top management to understand the significance of the issue. Materiality will also be factored into the medium-term management plan.

Tsuda and Kawahara: Despite challenging results in the fiscal year ended March 2020, we intend to increase corporate value by selecting and concentrating our businesses. As discussed in this talk, NTN’s revitalization is progressing steadily through the promotion of governance reforms and other measures. We will continue to check management as Outside Directors and fully support the progress of NTN.

In my previous job, I shared goals with customers and created new value together with a variety of stakeholders as an Executive Officer of the business division. Appointed as an Outside Director, I will continue to contribute to increasing corporate value by “value creation” and “brand power enhancement” by sharing the goal of “sustainable growth” with our stakeholders and linking the diverse assets held in the Company with the desperate needs of society.

Japan is one of the world’s most advanced countries in terms of decreasing birthrate and aging population. In addition, the nation is in a “developed country with sustained growth” stage. In recent years, Japan’s economy has changed dramatically, such as a large-scale disasters and the outbreak of the new coronavirus infections. Rather than simply streamlining operations and conducting immediate work style reform, we need to pass on to technicians the next generation corresponding to aging of workers, and accelerate management by effectively reusing IT, etc. These measures are essential for “sustainable growth.” In addition, with a view to the global challenge of the new coronavirus, we must give due consideration to each country’s social situation in the future. I believe that the new challenge NTN will create will be to “realize our own ways of value creation together with our business divisions and creating social value in new business fields through industry-government-academia collaborations and cross-industry exchanges.”

In the past, corporate governance had the same meaning as being “shareholder-oriented.” However, reflecting on the harmful effects of being shareholder-oriented, the importance of ESG management has increased. I believe that the present corporate governance is to promote management by promoting the relationships of business among stakeholders (shareholders, employees, customers, society, etc.). I have been analyzing, evaluating and operating corporately as a member of an institutional investor for more than 20 years in Japan and the U.S. At the time, I felt that the overemphasis on shareholders’ interests, which began in the U.S., would have a negative impact on long-term corporate growth, so I left the financial sector. Subsequently, in my role as an Executive Officer and Director in operating companies, I have come to believe that corporate governance is to promote management by seeking a balance between the interests of stakeholders, as I have experienced difficulties in maintaining the satisfaction of all stakeholders at the same time. As a Director of Inside Directors, I would like to leverage my experience as an investor and Executive Officer/Director of operating companies to contribute to improving the Company’s corporate governance and corporate value from a perspective that differs from that of Inside Directors.

The global epidemic of new coronavirus infections is a major challenge for our business management, but it is also a major opportunity. As an IT company where I serve as a Director, approximately 80% of the employees have shifted to permanent telework, and they are promoting the following measures: digitization of operations that had been remote for a long time, digitization of operations that had been remote for a long time, using paper documents, such as contracts and responses, revising internal procedures, and streamlining through the use of AI. NTN has also been tackling the same issue of transformation, so I will share the knowledge and work to promote its digital transformation (DI).
ESG strategies | Officers (As of July 10, 2020)

From the left in the back row

Director
Masaki Egami
Executive Officer

Director
Eiichi Ukai
Representative Executive Officer, Senior Managing Executive Officer

Director
Hiroshi Ohkubo
Representative Executive Officer, President, Executive Officer

Director
Hideaki Miyazawa
Representative Executive Officer, Senior Managing Executive Officer

Director
Toshinori Shiratori
Managing Executive Officer

Director
Keiji Ohashi
Outside Director

Outside Director
Yuriya Komatsu

Outside Director
Noboru Tsudo

Outside Director
Kouji Kawahara

Outside Director
Ryo Kawakami

Outside Director
Tomonori Nishimura
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Age</th>
<th>Years of Service as Director</th>
<th>Number of Board of Directors and Committee Attended (Fiscal year ended March 31, 2020)</th>
<th>Number of Company’s Shares Held (As of March 31, 2020)</th>
<th>Reason for Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hiroshi Ohkubo</td>
<td>Director</td>
<td>67 years old</td>
<td>8 years</td>
<td>100% Board Directors - 14/14, Nominating Committee - 5/5, Compensation Committee - 4/4</td>
<td>113,600 shares</td>
<td>Mr. Hiroshi Ohkubo possesses operational experience in areas such as the Finance Division and Overseas Division, and broad knowledge of the management of the Company promoting business globally based on these achievements, among others, and has served as President and Director of the Company since June 2014 and as President, Executive Officer of the Company since June 2019. The Company selects him with an aim to continuously improve corporate value, utilizing his experience and knowledge, etc. for management.</td>
</tr>
<tr>
<td>Hideaki Miyazawa</td>
<td>Director</td>
<td>59 years old</td>
<td>6 years</td>
<td>100% Board Directors - 14/14</td>
<td>69,800 shares</td>
<td>Mr. Hideaki Miyazawa possesses operational experience in areas such as the Business Division for the automotive market and Overseas Division, and broad knowledge based on these achievements, among others. The Company selects him with an aim to continuously improve corporate value, utilizing his experience and knowledge, etc. for management.</td>
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<tr>
<td>Eiichi Ukai</td>
<td>Director</td>
<td>63 years old (born on February 1, 1957)</td>
<td>3 years</td>
<td>100% Board Directors - 14/14</td>
<td>54,100 shares</td>
<td>Mr. Eiichi Ukai possesses operational experience in areas such as the Quality Assurance Division and Overseas Division, and broad knowledge based on these achievements, among others. The Company selects him with an aim to continuously improve corporate value, utilizing his experience and knowledge, etc. for management.</td>
</tr>
<tr>
<td>Toshinori Shiratori</td>
<td>Director</td>
<td>62 years old (born on July 12, 1958)</td>
<td>5 years</td>
<td>100% Board Directors - 14/14</td>
<td>43,300 shares</td>
<td>Mr. Toshinori Shiratori possesses operational experience in areas such as the Human Resource Division and Corporate Strategy Division, and broad knowledge based on these achievements, among others. The Company selects him with an aim to continuously improve corporate value, utilizing his experience and knowledge, etc. for management.</td>
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<tr>
<td>Masaki Egami</td>
<td>Director</td>
<td>62 years old (born on December 20, 1957)</td>
<td>New appointment</td>
<td>15,900 shares</td>
<td></td>
<td>Mr. Masaki Egami possesses operational experience in areas such as the Engineering Division and Research Division, and broad knowledge based on these achievements, among others. The Company selects him with an aim to continuously improve corporate value, utilizing his experience and knowledge, etc. for management.</td>
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<tr>
<td>Keiji Ohashi</td>
<td>Director</td>
<td>63 years old (born on October 14, 1956)</td>
<td>New appointment</td>
<td>109,200 shares</td>
<td></td>
<td>Mr. Keiji Ohashi possesses operational experience in areas such as the Engineering Division and Research Division, and broad knowledge based on these achievements, among others. The Company selects him with an aim to continuously improve corporate value, utilizing his experience and knowledge, etc. for management.</td>
</tr>
<tr>
<td>Noboru Tsuda</td>
<td>Outside Director</td>
<td>70 years old (born on November 23, 1949)</td>
<td>4 years</td>
<td>100% Board Directors - 14/14</td>
<td>21,100 shares</td>
<td>Mr. Noboru Tsuda possesses broad knowledge, etc. based on extensive experience in the management of other companies. The Company selects him with an aim to secure validity and legality of management and continuously improve corporate value through appropriate advice and suggestions from an independent standpoint, utilizing his experience and knowledge, etc. for management.</td>
</tr>
<tr>
<td>Kouji Kawahara</td>
<td>Outside Director</td>
<td>59 years old (born on February 7, 1951)</td>
<td>1 year</td>
<td>100% Board Directors - 14/14</td>
<td>32,500 shares</td>
<td>Mr. Kouji Kawahara possesses extensive experience in banking over many years and broad knowledge including finance, among others. The Company selects him with an aim to secure validity and legality of management and continuously improve corporate value through appropriate advice and suggestions from an independent standpoint, utilizing his experience and knowledge, etc. for management.</td>
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<tr>
<td>Ryo Kawakami</td>
<td>Outside Director</td>
<td>52 years old (born on October 1, 1967)</td>
<td>1 year</td>
<td>100% Board Directors - 14/14</td>
<td>0 shares</td>
<td>Mr. Ryo Kawakami possesses broad knowledge, etc. based on extensive experience as a lawyer familiar with corporate legal affairs. The Company selects him with an aim to secure validity and legality of management and continuously improve corporate value through appropriate advice and suggestions from an independent standpoint, utilizing his experience and knowledge, etc. for management.</td>
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<tr>
<td>Tomonori Nishimura</td>
<td>Outside Director</td>
<td>65 years old (born on November 5, 1954)</td>
<td>New appointment</td>
<td>0 shares</td>
<td></td>
<td>Mr. Tomonori Nishimura possesses broad knowledge, etc. based on extensive experience in the management of other companies. The Company selects him with an aim to secure validity and legality of management and continuously improve corporate value through appropriate advice and suggestions from an independent standpoint, utilizing his experience and knowledge, etc. for management.</td>
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<tr>
<td>Yurita Komatsu</td>
<td>Outside Director</td>
<td>57 years old (born on October 18, 1962)</td>
<td>New appointment</td>
<td>0 shares</td>
<td></td>
<td>Mr. Yurita Komatsu possesses extensive experience in financial institutions and other companies and broad knowledge including finance, among others. The Company selects him with an aim to secure validity and legality of management and continuously improve corporate value through appropriate advice and suggestions from an independent standpoint, utilizing his experience and knowledge, etc. for management.</td>
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</table>
We made a transition from a Company with Board of Directors to a Company with Nominating Committee, Audit Committee, etc. upon the approval of the 12th General Meeting of Shareholders held on June 25, 2019 (for the fiscal year ended March 31, 2019). The purpose of this transition is to establish a prompt decision-making structure and operational execution organization, strengthen the supervision of management, and improve management transparency and fairness. Under this structure, we will work on further improvement of corporate value over the medium- and long-term.

**Management Meeting**

The Management Meeting discusses important matters relating to operational execution, as a supporting body for decision-making of President, Executive Officer. The meeting is composed of President, Executive Officer, and Executive Officers who are designated by him, and held twice a month in principle.

**Executive Officers Meeting**

The Executive Officers Meeting is held by President, Executive Officer under the attendance of all Executive Officers. Matters resolved at the Board of Directors are instructed, and each Executive Officer reports about the status of operational execution. This meeting is held once a month in principle, to make operational execution more efficient and effective by sharing information among Executive Officers.

**Board of Directors**

The Board of Directors decides the basic management policies, and supervises the execution of duties of Directors and Executive Officers. Except matters stipulated by laws and regulations or the Articles of Incorporation to be resolved at the General Meeting of Shareholders, the majority of the members are Outside Directors. Three out of the five members of the committee are Outside Directors, and the committee is chaired by an Outside Director.

**Audit Committee**

The Audit Committee audits the execution of duties of Directors and Executive Officers, and decides on the content of a proposal regarding appointment/removal of Directors, which is submitted to the General Meeting of Shareholders. The majority of the members are Outside Directors. Three out of the four members of the committee are Outside Directors, and the committee is chaired by an Outside Director. Also, the Audit Preparation and Support Office is established as an organization dedicated to support the duties of the Audit Committee, including Secretariat of Audit Committee. Regarding matters relating to appointment, personnel relocation, disciplinary punishment, evaluation, etc. of staff of the Audit Preparation and Support Office, the approval from the Audit Committee shall be required for decision.

**Nominating Committee**

The Nominating Committee decides on the content of a proposal regarding appointment/removal of Directors and Executive Officers. The Audit Preparation and Support Office is established as an organization dedicated to support the duties of the Nominating Committee, including Secretariat of Nominating Committee. The majority of the committee are Outside Directors. Three out of the five members of the committee are Outside Directors, and the committee is chaired by an Outside Director.

**Compensation Committee**

The Compensation Committee decides on the policy for compensation for Directors and Executive Officers, and details of compensation for individual persons. The majority of the committee are Outside Directors. Three out of the five members of the committee are Outside Directors, and the committee is chaired by an Outside Director.

**Corporate Governance**

**Basic Approach**

Strengthening and enhancing our corporate governance is one of our top management priorities. We take steps to make management more efficient and robust while working to increase management transparency by disclosing information in a prompt and accurate manner to shareholders and investors. We made a transition from a Company with Board of Company Auditors to a Company with Nominating Committee, etc. upon the approval of the 12th General Meeting of Shareholders.
The main areas of experience required of Directors (Skill matrix)

<table>
<thead>
<tr>
<th>Name</th>
<th>Corporate management</th>
<th>Manufacturing</th>
<th>Technology and R&amp;D</th>
<th>Marketing</th>
<th>Corporate and Business Planning</th>
<th>Finance and administration</th>
<th>Legal affairs, internal controls, compliance</th>
<th>Global experience</th>
<th>Experience of other industries, diversity</th>
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<tbody>
<tr>
<td>Hiroshi Okubo</td>
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<td>Akira Wada</td>
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<td>Noritaka Tsuda</td>
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<td>Takanori Nishimura</td>
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### Board of Directors

The Board of Directors reviews and decides on strategic corporate management matters.

#### Approach of Board of Directors

Directors other than Outside Directors are appointed from a wide range of fields, including manufacturing, marketing, technology, and administrative divisions. In addition, Outside Directors are appointed after considering diversity and balance, such as being a person with knowledge of finance, experienced management, and being a lawyer. We believe that the current number of Directors is an appropriate size for strengthening corporate governance and expanding our global businesses.

Upon the approval of the General Meeting of Shareholders in the fiscal year ended March 31, 2020, a female Director (Outside Director) was newly appointed for the first time at the Company. The female Director with experience in a different industry than ours will supervise management. This will enable us to integrate diverse values and accelerate transformation aimed at achieving sustainable growth.

#### Appointment of the first female Director

The effectiveness of the Board of Directors is maintained.

Discussions on Nominating Committee

The Nominating Committee was established in conjunction with the transition to a Company with a Nominating Committee, etc. The committee was held five times in total in the fiscal year ended March 31, 2020, with discussions held and resolutions made mainly on the standards for selection of Directors, skill matrix related to standards for selection and the standards regarding the independence of Outside Directors.

#### About Outside Directors

We made a transition from a Company with a Board of Company Auditors to a Company with a Nominating Committee, etc., upon the approval of the General Meeting of Shareholders for the fiscal year ended March 31, 2019. The Board of Directors consists of 11 members, including six Inside Directors and five Outside Directors, and the ratio of Outside Directors is 45%. The purpose of this transition is to strengthen the supervision of management and improve management transparency and fairness. In addition, in order to ensure appropriate corporate governance, we have established our own standards regarding the independence of Outside Directors, stipulating qualification and independence standards for them. This standard is used for appointing Outside Directors. Also, all the Outside Directors are designated as independent Officers as defined by the rules of Tokyo Stock Exchange, Inc. (TSE), and are reported to TSE.

#### Standards for Selection of Directors

- Must be in good condition both physically and mentally.
- Must have a high sense of ethics and a law-abiding spirit.
- Must be able to engage in constructive discussion from an objective viewpoint.
- Must be highly motivated to improve their abilities.
- Must have excellent decision-making skills from a company-wide and medium- to long-term perspective.
- Must have excellent insight and foresight concerning changes to the overall environment and to society.
- Must have a sufficient record of performance and expertise in relevant fields. (Corporate manager or expert)
- Outside Directors must (1) have sufficient time to accomplish their duties, (2) satisfy the standards regarding the independence of Outside Directors, (3) ensure diversity between the Outside Directors, and (4) have the requisite abilities to accomplish duties as a member of any of the three Committees.
Discussions at the Compensation Committee
Following the transition to a Company with a Nominating Committee, etc., we held the Compensation Advisory Committee from April to June 2019 and the Compensation Committee from June 2019 to March 2020. The Compensation Committee aims to improve fairness, transparency, and objectivity of procedures regarding the decision making of compensation for Directors and Executive Officers and enhance corporate governance. Also, the committee passed resolutions regarding the details of compensation (such as compensation specified for each individual) of Officers.

Compensation Committee

<table>
<thead>
<tr>
<th>Members, the number of meetings, and attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Akira Wada*</td>
</tr>
<tr>
<td>Noboru Tanita</td>
</tr>
<tr>
<td>Ryo Kawakami</td>
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<tr>
<td>Hitoshi Ohsho</td>
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<tr>
<td>Toshimitsu Shion*</td>
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</tbody>
</table>

Compensation at the Compensation Committee
Compensation for Executive Officers consists of basic compensation, which is a fixed compensation, and performance-linked compensation, which fluctuates according to performance. The ratio of basic compensation to performance-linked compensation is approximately 6:4 as a standard.

Compensation for Directors
Compensation for Directors consists of basic compensation, which is a fixed compensation, and performance-linked compensation, which fluctuates according to performance. Basic compensation shall be determined based on a relevant Executive Officer’s role and increased in the case for, for example, Executive Officers who have the right to represent.

Performance-linked compensation

Annual incentives
The payment amount shall be decided in consideration of the status of progress of measures for achieving key targets for each Executive Officer, on the basis of the performance level in the applicable fiscal year.

Medium- and long-term incentives
The Company’s shares shall be issued based on the achievement level of major target figures in the Medium-term Management Plan and Medium-term Management Plan and shall be paid for in a certain portion of shares. Medium-term Management Plan can be contributed to raising shareholder value, and in order to promote the holding of the Company’s shares. Medium- to long-term performance targets include key performance indicators (consolidated operating margin, consolidated net sales, etc.) that take into account the Company’s management policies.

Compensation for Directors
Compensation for Directors consists of basic compensation, which is a fixed compensation, and the level of compensation for Directors is calculated taking into account concurrent duties of an Executive Officer, on the basis of the performance level in the applicable fiscal year.

Policy for determining the amount, or method of calculation, of compensation, etc., for Officers

Risk Management Committee
We have established the Risk Management Committee, chaired by Executive Officer (Executive Officer in charge of risk management), who is responsible for the Global Risk Management Department, as an advisory body on risk management to prevent risks from occurring and minimize damage in the event of a crisis. The committee consists of the general managers of the promotion department of risk management, responsible departments in subsidiaries, the committee regularly checks the situation of risks, the risk management plan and discusses matters such as the BCP/BCA. The result of discussion at the Risk Management Committee is reported to Board of Directors and instructions are fed back to the relevant departments.

Audit Committee
The Audit Committee consists of an independent director, the internal auditor, and one or more outside directors. The Audit Committee prepares and finalizes the annual audit plan, performs the annual audit and reports the findings to the Board of Directors. The Audit Committee reviews and monitors the adequacy and effectiveness of internal controls. The Audit Committee also reviews and monitors the adequacy and effectiveness of internal controls. The Audit Committee also reviews and monitors the adequacy and effectiveness of internal controls.
**Basic approach to compliance**

We believe that earning the trust of society is essential for us to contribute to the realization of a sustainable society and to continue to be a company needed by society. Accordingly, we are placing importance on compliance in our Management Policy. We formulated the Business Code of Conduct to specify the policy of actions which officers and employees should observe to conduct business activities in accordance with laws and regulations and generally accepted standards and practices in each country, and our internal rules. We have also established and been operating the compliance promotion structure that includes rules relating to compliance, a whistle-blower system, the Compliance Committee, and the Fair Trade Monitoring Committee.

**Compliance promotion structure**

We have established and been operating the Compliance Committee and the Fair Trade Monitoring Committee to promote compliance through the activities of both committees. (See page 76 for details of the activities of the two committees.) Aside from the efforts made by the two committees, the Legal Department in CSR Headquarters conducts the rank-based training and the topic-specific training for officers and employees as part of voluntary educational and awareness raising activities. In addition, we hold mass training meetings for Compliance Promotion Activities Supervisors in Japan once a year, sharing information and exchanging opinions on important issues, we are enhancing the promotion activities at each business unit and providing support for the initiatives at each business unit. Furthermore, with regard to activities for global compliance risks such as corruption prevention, we regularly exchange information and opinions with the Internal Control section at each Office of the General Manager in the 5 overseas regions and legal/compliance departments of overseas subsidiaries, confirming each other’s ongoing activities and setting new issues.

In addition, we have established the Fair Trade Promoting Department in CSR Headquarters as an overall supervisory department for antimonopoly compliance. Under the direction of the Fair Trade Monitoring Committee, the department conducts education, instruction, audit, and other activities for relevant divisions. Additionally, overseas subsidiaries are maintained for the implementation status of antimonopoly compliance in cooperation with the Internal Control Section, within Office of the General Manager in each region.

**Major actions to enhance compliance**

<table>
<thead>
<tr>
<th>Category</th>
<th>Actions</th>
<th>Commencement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of Structures/Policies</td>
<td>Rules for management of compliance promotion activities are established</td>
<td>2013/04</td>
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<td></td>
<td>Compliance Promotion Committee chairs (bi-annual)</td>
<td>2015/04</td>
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<td></td>
<td>NTN Compliance Officer for business partners, including compliance content is issued</td>
<td>2016/04</td>
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<td></td>
<td>July 2016 designated as “Compliance Day” and designated employee is designated as NTN Group employee (once/year)</td>
<td>2016/07</td>
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<tr>
<td>Educational Awareness-raising activities</td>
<td>Topic-specific training for important departments which are generally required to be familiar with compliance by the Legal Dept., the Fair Trade Promoting Dept., etc. (on need)</td>
<td>2012/01</td>
</tr>
<tr>
<td></td>
<td>Compliance training for Operating Officer is implemented (as needed)</td>
<td>2012/08</td>
</tr>
<tr>
<td></td>
<td>Rank-based compliance training for new managers, new employees, etc. by the Legal Dept. (as needed)</td>
<td>2015/04</td>
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<tr>
<td></td>
<td>Original compliance training for each business unit and compliance promotion activities is implemented (as needed)</td>
<td>2015/04</td>
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<tr>
<td></td>
<td>Mass training/meeting for compliance promotion activities supervisors, and employees in charge by the Legal Dept. is implemented (once/year)</td>
<td>2015/04</td>
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<td>NTN Compliance, which is a database for sharing compliance-related information, and for compliance-related incidents and introduction of compliance promotion structure is established</td>
<td>2016/08</td>
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<td></td>
<td>E-learning program about corruption prevention and anti-bribery is implemented (once/year)</td>
<td>2017/04</td>
</tr>
<tr>
<td></td>
<td>Audits on antimonopoly compliance are implemented</td>
<td>2012/11</td>
</tr>
<tr>
<td></td>
<td>Audits on antimonopoly compliance are implemented</td>
<td>2018/05</td>
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**Compliance attitude survey**

As part of our anticorruption efforts, we are examining employees’ assessment of the compliance-related attitudes of division heads, affiliated companies’ presidents and other senior executives.

It is said that improprieties within a company will be more likely to occur when motivations, pressures, opportunities, and justification triangles are met. It is important to develop rules and penalties, and at the same time, to develop an internal corporate culture and environment.

This survey focuses on the corporate culture and environment and discloses the results of the survey to senior executives, aiming to create a corporate culture that “does not cause fraud” based on the awareness that fraud is constantly seen within the company and at the head office, and to form a better compliance environment with employees.

In the fiscal year ended March 2020, we conducted a survey of 1,600 employees in our manufacturing divisions and 2,100 employees from 48 subsidiaries (12 in Japan and 36 outside Japan).

**Initiatives in Overseas**

Our overseas subsidiaries have developed and have been operating in-house rules and regulations that are localized to reflect relevant laws, regulations, and generally accepted standards and practices in each country. They also conduct audit activities related to these rules and regulations as needed. The Legal Department is regularly sharing information and exchanging views with the Internal Control Section at each Office of the General Manager in each region on relevant initiatives, and coordinating the systems to prevent bribery across the whole group.

**Helpline (whistle-blower system) and educational activities**

In Japan, the whistle-blower system called Helpline has been established and operated with both in-house and outside contact points to provide consultation services regarding violations of laws, Business Code of Conduct, and in-house regulations. Helpline provides counseling services for cases such as suspected violations of labor-related laws, including harassment, as well as violations of in-house regulations, and conducts investigation in line with Helpline Management Rules that stipulate ensuring the confidentiality and prohibition of detrimental treatment against the whistle-blower. Through the introductions in various compliance training courses and in the Code of Conduct Guidance, we have established a structure where all employees can utilize Helpline, not only as a tool to report misconduct, but also as a means of raising questions, opinions, and complaints regarding the Business Code of Conduct, and maintaining satisfactory relationships between the company, officers, employees, and business partners.

Whistle-blower systems are being progressively created and operated also in overseas regions, where they are tailored to local needs and circumstances.

**Corruption prevention initiatives**

**Initiatives in Japan**

We have established and have been practicing in house rules and regulations based on domestic and overseas anti-corruption laws, generally accepted standards, and practices. In our in-house regulations, they not only prohibit bribery from and to domestic and overseas public officials and business partners, but also specify the rules and procedures regarding provision of property or profit by our officers or employees, and rules and procedures to prevent bribery via our business partners. In addition, under the circumstance that some countries even impose restraints on the transfer of property or profit between private companies, we have established rules and procedures for the receipt of property or profit in order to prevent bribery by officers and employees, to thoroughly ensure the conduct of fair trade, and to prevent conflicts of interest with officers and employees. Furthermore, we made it policy to decline the provision of gifts and entertainment to the extent possible.

**Antimonopoly compliance initiatives**

We think that all antimonopoly violations represent a potential risk for the whole NTN Group. To ensure thorough antimonopoly compliance, the Fair Trade Promoting Department and the Internal Control Section in each region conduct education and awareness raising activities related to antimonopoly compliance in accordance with local laws and the environment.

In addition, officers and employees are obliged to submit advance applications and follow-up reports when there is a possibility of contact with competitors in any event, such as at exhibitions or meetings. Furthermore, we strengthen the compliance system by conducting self-audits and internal audits. Based on those results, each department proactively plans and implements improvement measures.

We work to put fair and free competition into practice by continuing to upgrade our educational activities and raising the awareness of officers and employees.
We will continuously develop the internal controls and make of business sites and business processes, and conducting Internal Control Report System, and in order to rebuild the More than 10 years have passed since the introduction of the concerning Internal Control over Financial Reporting. “and “Practice Standards for Management Assessment and Audit concerning Internal Control over Financial Reporting.” More than 10 years have passed since the introduction of the Internal Control Report System, and in order to rebuild the evaluation structure, we are reviewing the scope of evaluation of business sites and business processes, and conducting education activities at domestic and overseas business sites. We will continuously develop the internal controls and make an operational evaluation appropriately, in accordance with relevant standards, in response to changes in the business environment.

Global compliance structure

In our company, the Internal Audit Department is in charge of the internal audit operation and the overall management operation of the internal control system. The Internal Audit Department, as an organization that is independent of the executive organization, conducts internal audits of the status of the execution of operations by each division of the company and domestic and overseas group companies from the view point of compliance with laws and internal regulations, appropriateness, and the effectiveness and efficiency of business activities. Based on the results of internal audits, we provide advice and recommendations on improvements to the departments subject to audits. We also confirm the status of implementation of improvement measures and conduct follow-up audits. The findings of the internal audits are reported to President, Executive Officer and the Audit Committee as needed.

Outside Japan, an Office of the General Manager has been established in each region to oversee and monitor operations, each having an Internal Control Section within it. The Internal Control Section works with the Internal Audit Department and CSR Headquarters to implement policies specific to each local region and country or in accordance with local needs and characteristics. The Internal Audit Department, the Audit Committee, and the Accounting Auditor work to improve efficiency and effectiveness of audit by regularly holding meetings and exchanging information and opinions about the policies, plans, and results of audit.

Promotion of global risk management

To promote worldwide risk management for the entire NTN Group, we selected nine risks as Global Risks that are common to both domestic and overseas subsidiaries and are expected to cause major impacts on management if they occur. The management status of nine risks of domestic and overseas affiliated companies is regularly monitored via our database, and we assess the status according to the global common standards we have developed. Based on the assessment results, we identify the current status of risk management in the Group as a whole, and push ahead with necessary measures including support for development of the internal rules. With regard to global risks identified, the Risk Management Committee conducts periodic revisions and checks on the risks identified, taking into account changes in the environment.

Promotion of BCP/BCM

We have been developing a BCP/BCM structure designed to respond to major earthquakes in Japan and are working to strengthen our disaster response systems, including those of our group companies. By the fiscal year ended March 31, 2020, we have completed the formulation of BCP to enable early disaster recovery at all domestic production sites. We have also implemented BCP training to assess the effectiveness of the formulated action plans and take necessary advance measures. In doing so, we are moving ahead with development of BCM.

As part of our supply chain management, we are also working to develop a natural disaster risk assessment system and an audit system for suppliers, and to formulate BCP at our logistics bases.

Response to the new coronavirus (COVID-19)

In response to the spread of the new coronavirus, we established the Central Headquarters with President, Executive Officer as chief of headquarters to respond to emergencies. Based on the basic concept shown below, we are promoting the necessary measures globally. We will continue to closely monitor the future situation and take appropriate measures.

1. Give top priority to ensuring the safety of employees and their families
2. Thorough precautions should be taken to prevent an increase of infected persons as much as possible
3. Efforts are made to ensure customer business continuity
### Financial Data

| Period       | Net Sales (Millions of yen) | Operating Income (Millions of yen) | Operating Margin (%) | Income (loss) before Income Taxes (Millions of yen) | Net Income (Loss) Attributable to Shareholders (Millions of yen) | Capital Expenditures (Millions of yen) | Depreciation and Amortization (Millions of yen) | R&D expenditures (Millions of yen) | Total Assets*2 (Millions of yen) | Net Assets (Millions of yen) | Inventories (Millions of yen) | Interest-bearing Debt (Millions of yen) | Inventory Turnover Ratio (Times) | Net D/E Ratio (Times) | Net Income (loss)/Average Total Assets (ROA) (%) | Net Income (loss)/Average Shareholders' Equity (ROE) (%) | NTN-ROI*3 (%) | Equity to Capital Ratio (%) |
|--------------|----------------------------|-----------------------------------|----------------------|---------------------------------------------------|---------------------------------------------------------------|----------------------------------------|-----------------------------------|-----------------------------|--------------------------------|-------------------------|-----------------------------|-----------------------------------|----------------------------|-----------------------------|--------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| 2010         | 452,746                    | 1,399                             | 0.3                  | (1,838)                                           | (2,015)                                                       | 21,504                                 | 40,702                            | 14,687                      | 618,802                        | 214,551                 | 126,663                     | 231,638                           | 3.6                          | 1.00                         | (0.3)                                                           | (1.1)                                                      | 0.2                           | 32.2                             |
| 2011         | 530,056                    | 24,560                            | 4.6                  | 22,855                                            | 14,399                                                       | 29,700                                 | 35,936                            | 7,240                       | 632,001                        | 210,353                | 155,107                     | 223,284                           | 3.9                          | 0.92                         | 2.3                                                           | 7.2                          | 4.2                           | 31.6                             |
| 2012         | 543,468                    | 20,724                            | 3.8                  | 16,357                                            | 5,993                                                        | 54,440                                 | 34,175                            | 3.0                         | 693,258                        | 212,126                | 151,757                     | 271,978                           | 3.5                          | 1.11                         | 0.9                                                           | 7.0                          | 3.4                           | 28.4                             |
| 2013         | 539,595                    | 7,278                             | 1.3                  | (13,898)                                          | (14,196)                                                     | 48,979                                 | 34,841                            | 3.0                         | 768,462                        | 211,743                | 163,287                     | 212,437                           | 3.3                          | 1.37                         | (1.8)                                                          | (7.3)                        | 1.1                           | 28.4                             |
| 2014         | 638,971                    | 33,004                            | 5.2                  | 37,063                                            | 23,353                                                       | 31,266                                 | 39,315                            | 10.5                        | 848,037                        | 213,369                | 184,128                     | 184,484                           | 3.8                          | 1.11                         | 2.7                                                           | 10.5                         | 1.2                           | 10.5                             |
| 2015         | 744,373                    | 43,851                            | 6.2                  | 26,943                                            | 15,037                                                       | 36,300                                 | 39,315                            | 6.3                         | 794,651                        | 262,559                | 178,220                     | 178,220                           | 4.0                          | 1.11                         | 1.8                                                           | 6.3                          | 1.2                           | 6.3                              |
| 2016         | 733,569                    | 47,770                            | 6.7                  | 26,906                                            | 2,831                                                        | 36,629                                 | 37,506                            | 1.2                         | 798,891                        | 248,505                | 171,482                     | 171,482                           | 5.2                          | 1.11                         | 0.8                                                           | 8.4                          | (2.9)                          | (2.9)                            |
| 2017         | 26,946                     | 39,609                            | 5.3                  | 33,950                                            | 20,374                                                       | 37,560                                 | 35,700                            | 8.4                         | 839,427                        | 245,050                | 179,738                     | 179,738                           | 3.7                          | 1.11                         | 3.7                                                           | 15.2                         | 8.4                           | 15.2                             |
| 2018         | 7,057                      | 26,496                            | 3.7                  | 57,675                                            | 26,934                                                       | 55,840                                 | 53,011                            | 2.9                         | 840,751                        | 269,760                | 194,505                     | 194,505                           | 7.1                          | 1.11                         | 1.1                                                           | 11.2                         | 2.9                           | 11.2                             |
| 2019         | 6,041,040                  |                                   |                      |                                                  |                                                              |                                        |                                   |                             |                                 |                                 |                                         |                                                   |                               |                             |                                                                 |                             |                             |
| 2020         | 651,496                    |                                   |                      |                                                  |                                                              |                                        |                                   |                             |                                 |                                 |                                         |                                                   |                               |                             |                                                                 |                             |                             |

**Notes:**

1. The translation of yen amounts into U.S. dollar amounts is included solely for the convenience of readers outside Japan and has been made at ¥107.845 = U.S. $1.00, the exchange rate prevailing on March 31, 2020. This translation should not be construed as a representation that yen can be converted into U.S. dollars at the above or any other rate.
2. The figures for the fiscal year ended March 31, 2018 have been retroactively restated by "Partial Revision of the Accounting Standard for Tax Effect Accounting". Prior to the fiscal year ended March 31, 2018, no retroactive application was made.
3. NTN-ROI = Net operating income after tax/tangible fixed assets + inventories
4. Regarding water consumption (millions of m³), the data includes Japan only until the fiscal year ended March 31, 2015, and global data since the fiscal year ended March 31, 2016.
applications. Also, sales for automotive applications decreased due to decreased customer demand and other factors. As a whole, net sales was 138,333 million yen (down 11.9% on year on year) due to a decline in sales volume and other factors.

Regarding sales in Europe, sales for aftermarket applications decreased 174,308 million yen (down 13.5% year on year), 95,041 million yen, and its ratio to total sales was 14.6%, up 0.5 percentage points from the previous fiscal year.

Cost of sales, selling, general and administrative expenses

Cost of sales was 459,398 million yen for the year, and its ratio to net sales was 84.3%, up 2.1 percentage points from the previous consolidated fiscal year. The amount of selling general and administrative expenses was 95,041 million yen, and its ratio to net sales was 14.6%, up 0.5 percentage points from the previous fiscal year.

Income

Although there was a factor that increases the profit such as a decline in personnel expenses and valuable cost, there was also a factor that decreases the profit such as the scale effect, selling price levels, and exchange rates. Consequently, operating income for the fiscal year under review was 7,056 million yen, down 19,889 million yen (73.8%) from the previous fiscal year. Ordinary profit margin was 1.1%, down 2.6 percentage points from the previous fiscal year.

As for other revenues and expenses, 8,755 million yen of net expense was recorded. This is roughly broken down to: 5,038 million yen of revenues including 1,064 million yen of dividend income, 988 million yen of interest expenses, and 329 million yen of losses from operations including 3,952 million yen of interest expense and 3,826 million yen of exchange loss. As a result, the Company recorded 1,968 million yen of ordinary loss, down 23,930 million yen (97.7%) from the previous fiscal year.

In addition to these amounts, we posted 1,353 million yen of gain on sales of investment securities, 1,981 million yen of extraordinary income, 142,232 million yen of extraordinary loss (including 29,001 million yen of impairment loss), and the net loss attributable to shareholders (parent company) was 43,992 million yen, up 37,035 million yen compared to the previous fiscal year. Also, net loss per share was loss of 82.8 yen.

Regarding annual dividends for the fiscal year under review, we set a year-end dividend of 0 yen per share, which, when added to our interim dividend of 5 yen per share, totals 5 yen per share for the full year.

R&D and capital expenditures

Groupwide R&D expenditures for the fiscal year under review amounted to 19,962 million yen (down, 1,699 million yen year on year) and the ratio of R&D expenditures to net sales was 3.1%.

Based on our corporate philosophy “We shall contribute to international society through creating new technologies and developing new products,” New Medium-term Management Plan “CIRCLE NTN100,” which was started in April 2018, promotes R&D activities focusing on strengthening core technologies and products supporting our product development and also strengthening new business development as an expansion in new areas over the next 100 years.

By developing high-performance, high-precision products that leveraged our technological strengths, such as tribology, heat treatment, precision machining, precision measurement, and CAD, we will provide products adapted to a lower-carbon society, continuously improving customer satisfaction, and achieving sustainable growth.

Capital expenditures, etc.

We and our consolidated subsidiaries primarily make a capital investment in the improvement of production capacity, rationalization by labor-saving, maintenance and upgrading of existing facilities, improvement of safety environment, and R&D of new products.

In Japan, we invested 29,747 million yen, among other purposes, construct buildings and introduce bearing manufacturing facilities at Wakoza Works. In the Americas, capital expenditures was 17,627 million yen due to expansion of manufacturing facilities for constant velocity joints at NTN DRIVESHAFT, INC., expansion of manufacturing facilities for constant velocity joint parts at NTN PRECISION AXLE CORP., and expansion of manufacturing facilities for bearings at NTN-BOWER CORP. Capital expenditures in Europe was 6,034 million yen due to expansion of manufacturing facilities for bearings at NTN SNR ROULEMENTS. In Asia and other regions, we invested 4,307 million yen for additional bearing manufacturing facilities at SHANGHAI NTN CORP. After adjusting adjustments of -40 million yen, included in the operating income, the amount of capital expenditures in the consolidated fiscal year under review was 57,675 million yen.

The required funds are self-financed and borrowed.

Depreciation and amortization for the fiscal year under review was 37,307 million yen, a decrease of 1,619 million yen from the previous fiscal year.

Financial position and cash flow

Current assets decreased by 49,480 million yen (down 10%) from the end of the previous fiscal year and came to 405,890 million yen. This was mainly due to a decrease of 25,571 million yen from the end of the previous fiscal year. Also, net loss per share was 82.8 yen.

Current liabilities decreased by 25,571 million yen (down 9.9%) from the previous fiscal year and came to 269,464 million yen. This is mainly due to a decrease of 11,296 million yen in notes and accounts receivable, a decrease of 12,676 million yen in cash and deposits, and a decrease of 6,492 million yen of work in process. Fixed assets decreased by 33,449 million yen (down 8.7%) and came to 352,022 million yen compared to the end of the previous fiscal year. This is mainly due to a decrease of 17,406 million yen in investment securities, decrease of 17,220 million yen in property, plant and equipment, and an increase of 6,901 million yen of intangible fixed assets. As a result, total assets decreased by 82,592 million yen (down 9.9%) from the end of the previous fiscal year and amounted to 757,822 million yen.

Current liabilities decreased by 2,734 million yen (down 0.9%) from the previous fiscal year and came to 286,964 million yen. This was mainly due to a decrease of 11,296 million yen in notes and accounts receivable, a decrease of 43,003 million yen in electronically recorded monetary claims, a decrease of 6,986 million yen in notes payable related to facility and an increase of 20,845 million yen in short-term loans. Fixed liabilities decreased by 2,168 million yen (down 0.7%) from the previous fiscal year and total 302,480 million yen. This was mainly due to a decrease of 8,772 million yen in long-term loans and an increase of 4,837 million yen in liability for retirement benefits. Consequently, total liabilities decreased by 4,902 million yen (down 0.8%) from the previous fiscal year and amounted to 589,444 million yen.

Total net assets decreased by 78,027 million yen (down 31.7%) from the end of the previous fiscal year to 168,378 million yen. The decrease was mainly due to a decrease in retained earnings and a 12,727 million yen decrease in translation adjustments.

The equity ratio was 20.6% (down 6.8 percentage points from the end of the previous fiscal year). Net working capital was 118,836 million yen, down 46,746 million yen from the end of the previous fiscal year. The current ratio was 141.4% (down 15.8 percentage points from the end of the previous fiscal year).

Net working capital was 118,836 million yen, down 46,746 million yen from the end of the previous fiscal year. Considering the decrease of 17,150 million yen (down 11.1% year on year) due to the decreased customer demand and other factors. As a whole, net sales was 197,996 million yen (down 4.5% year on year), 95,041 million yen, and its ratio to total sales was 14.6%, up 0.5 percentage points from the previous fiscal year.
1) Risks Related to External Business Environment

1) Economy
The NTN Group operates global production and sales networks, and supplies customers in various industrial sectors. The financial position, business results, and cash flows of the NTN Group may be affected by a change in economic conditions in a specific country or region and a change in business conditions in industries to which it is sensitive. Given the global nature of its operations, the Group faces risks of exchange rate fluctuations.

2) Foreign Exchange Fluctuations
Overseas sales of the NTN Group account for over 50% of consolidated sales. This percentage is expected to increase further due to continued acceleration in the globalization of the Group’s operations. Fluctuations in foreign exchange rates may impact the Group’s performance in its overseas operations.

3) Operations
The NTN Group develops its business operations worldwide with overseas sales accounting for more than 50% of consolidated sales. Overseas business development is associated with the following risks:

a. Risks from an unforeseen change in tax systems or of individual countries
b. Difficulty in hiring and retaining appropriate staff
c. Evolving technology levels and unstable labor relations in emerging economies

d. Political instability in emerging economies

4) Supply Chain Risk
The NTN Group procures a wide range of raw materials from outside sources. To deal with cost increases, particularly in steel materials, the Group faces the risk of a high weighted average value in financial position, business results, and cash flows due to buying pressure on market prices.

5) Risks in Raw Material Prices
The raw materials of the NTN Group procured from all over the countries and regions in which it does business.

6) Risk of Disasters and Infectious Diseases
The business sites of the Group may be affected by natural disasters such as earthquakes, flooding, fires, and the spread of infectious diseases. In addition, the Group is faced with the risk of products that may contain hazardous materials. The Group has taken various measures, such as establishing internal regulations, to prevent and mitigate any damage that may result from these risks.

7) Financial Risk
The Group operates global production and sales networks, and supplies customers in various industrial sectors. The financial position, business results, and cash flows of the Group may be affected by a change in economic conditions in a specific country or region and a change in business conditions in industries to which it is sensitive. Given the global nature of its operations, the Group faces risks of exchange rate fluctuations.

8) Operations
The NTN Group develops its business operations worldwide with overseas sales accounting for more than 50% of consolidated sales. Overseas business development is associated with the following risks:

a. Risks from an unforeseen change in tax systems or of individual countries
b. Difficulty in hiring and retaining appropriate staff
c. Evolving technology levels and unstable labor relations in emerging economies
d. Political instability in emerging economies

9) Supply Chain Risk
The NTN Group procures a wide range of raw materials from outside sources. To deal with cost increases, particularly in steel materials, the Group faces the risk of a high weighted average value in financial position, business results, and cash flows due to buying pressure on market prices.

10) Risks in Raw Material Prices
The raw materials of the NTN Group procured from all over the countries and regions in which it does business.

11) Risk of Disasters and Infectious Diseases
The business sites of the Group may be affected by natural disasters such as earthquakes, flooding, fires, and the spread of infectious diseases. In addition, the Group is faced with the risk of products that may contain hazardous materials. The Group has taken various measures, such as establishing internal regulations, to prevent and mitigate any damage that may result from these risks.

12) Financial Risk
The Group operates global production and sales networks, and supplies customers in various industrial sectors. The financial position, business results, and cash flows of the Group may be affected by a change in economic conditions in a specific country or region and a change in business conditions in industries to which it is sensitive. Given the global nature of its operations, the Group faces risks of exchange rate fluctuations.

13) Operations
The NTN Group develops its business operations worldwide with overseas sales accounting for more than 50% of consolidated sales. Overseas business development is associated with the following risks:

a. Risks from an unforeseen change in tax systems or of individual countries
b. Difficulty in hiring and retaining appropriate staff
c. Evolving technology levels and unstable labor relations in emerging economies
d. Political instability in emerging economies

14) Supply Chain Risk
The NTN Group procures a wide range of raw materials from outside sources. To deal with cost increases, particularly in steel materials, the Group faces the risk of a high weighted average value in financial position, business results, and cash flows due to buying pressure on market prices.

15) Risks in Raw Material Prices
The raw materials of the NTN Group procured from all over the countries and regions in which it does business.

16) Risk of Disasters and Infectious Diseases
The business sites of the Group may be affected by natural disasters such as earthquakes, flooding, fires, and the spread of infectious diseases. In addition, the Group is faced with the risk of products that may contain hazardous materials. The Group has taken various measures, such as establishing internal regulations, to prevent and mitigate any damage that may result from these risks.

17) Financial Risk
The Group operates global production and sales networks, and supplies customers in various industrial sectors. The financial position, business results, and cash flows of the Group may be affected by a change in economic conditions in a specific country or region and a change in business conditions in industries to which it is sensitive. Given the global nature of its operations, the Group faces risks of exchange rate fluctuations.

18) Operations
The NTN Group develops its business operations worldwide with overseas sales accounting for more than 50% of consolidated sales. Overseas business development is associated with the following risks:

a. Risks from an unforeseen change in tax systems or of individual countries
b. Difficulty in hiring and retaining appropriate staff
c. Evolving technology levels and unstable labor relations in emerging economies
d. Political instability in emerging economies

19) Supply Chain Risk
The NTN Group procures a wide range of raw materials from outside sources. To deal with cost increases, particularly in steel materials, the Group faces the risk of a high weighted average value in financial position, business results, and cash flows due to buying pressure on market prices.

20) Risks in Raw Material Prices
The raw materials of the NTN Group procured from all over the countries and regions in which it does business.
### Consolidated Statement of Operations

<table>
<thead>
<tr>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars (Note 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>2019</td>
</tr>
<tr>
<td>Net sales (Note 22)</td>
<td>$651,496</td>
</tr>
<tr>
<td>Cost of sales (Note 16)</td>
<td>$733,569</td>
</tr>
<tr>
<td>Gross profit</td>
<td>$182,098</td>
</tr>
<tr>
<td>Selling, general and administrative expenses (Note 16)</td>
<td>$153,541</td>
</tr>
<tr>
<td>Operating income (Note 22)</td>
<td>$70,537</td>
</tr>
<tr>
<td>Other income (expenses):</td>
<td></td>
</tr>
<tr>
<td>– Interest and dividend income</td>
<td>$2,072</td>
</tr>
<tr>
<td>– Interest expense</td>
<td>$(1,965)</td>
</tr>
<tr>
<td>– Equity in (less) earnings of affiliates</td>
<td>$(3,885)</td>
</tr>
<tr>
<td>– Foreign exchange loss, net</td>
<td>$(1,032)</td>
</tr>
<tr>
<td>– Gain on sales of property, plant and equipment</td>
<td>$627</td>
</tr>
<tr>
<td>– Gain on sales of investment securities (Note 8)</td>
<td>$1,353</td>
</tr>
<tr>
<td>– Loss on impairment of fixed assets (Notes 7 and 12)</td>
<td>$(20,001)</td>
</tr>
<tr>
<td>– Loss on valuation of investment securities</td>
<td>$(2,389)</td>
</tr>
<tr>
<td>– Loss resulting from low operating capacity (Note 20)</td>
<td>$(2,097)</td>
</tr>
<tr>
<td>– Loss on exchange payments under the Anti-Monopoly Act (Note 17)</td>
<td>$(745)</td>
</tr>
<tr>
<td>Other, net</td>
<td>$(1,639)</td>
</tr>
<tr>
<td>(Loss) Profit before income taxes</td>
<td>$(3,087)</td>
</tr>
</tbody>
</table>

### Consolidated Statement of Changes in Net Assets

<table>
<thead>
<tr>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars (Note 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>2019</td>
</tr>
</tbody>
</table>
Consolidated Statement of Cash Flows

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash flows from operating activities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Loss) profit before income taxes</td>
<td>¥ (33,950)</td>
<td>$(574,044)</td>
</tr>
<tr>
<td>Adjustments for:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>¥ 37,307</td>
<td>¥ 346,852</td>
</tr>
<tr>
<td>Loss on impairment of fixed assets</td>
<td>¥ 29,001</td>
<td>¥ 268,874</td>
</tr>
<tr>
<td>Loss resulting from the operating capacity</td>
<td>¥ 2,007</td>
<td>¥ 19,445</td>
</tr>
<tr>
<td>Loss on securitization payment under the Anti-Monopoly Act</td>
<td>¥ 745</td>
<td>¥ 6,900</td>
</tr>
<tr>
<td>(Decrease) increase in allowance for doubtful accounts</td>
<td>(22)</td>
<td>(57)</td>
</tr>
<tr>
<td>Decrease in provision for deductible income taxes</td>
<td>(119)</td>
<td>(7,150)</td>
</tr>
<tr>
<td>Increase in provision for product defect compensation</td>
<td>(46)</td>
<td>204</td>
</tr>
<tr>
<td>In increase in liability for retirement benefits</td>
<td>¥ 2,258</td>
<td></td>
</tr>
<tr>
<td>Interest and dividend income</td>
<td>¥ 2,072</td>
<td>¥ 70,213</td>
</tr>
<tr>
<td>Gain on sales of fixed assets</td>
<td>¥ 3,952</td>
<td>¥ 36,645</td>
</tr>
<tr>
<td>Gain on sales of investment securities</td>
<td>(7,355)</td>
<td>(72,540)</td>
</tr>
<tr>
<td>Loss on securitization of investment securities</td>
<td>¥ 2,389</td>
<td></td>
</tr>
<tr>
<td>Decrease in trade receivables</td>
<td>25,144</td>
<td>233,149</td>
</tr>
<tr>
<td>Increase in inventories</td>
<td>3,994</td>
<td>37,935</td>
</tr>
<tr>
<td>(Decrease) in increase in trade payables</td>
<td>(1,243)</td>
<td>(11,433)</td>
</tr>
<tr>
<td>Other</td>
<td>¥ 346</td>
<td>¥ 3,208</td>
</tr>
<tr>
<td>Net cash provided by operating activities</td>
<td>¥ 43,750</td>
<td>¥ 405,679</td>
</tr>
</tbody>
</table>

Cash flows from investing activities:

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase in short-term investments, net</td>
<td>¥ (742)</td>
<td>$(11,317)</td>
</tr>
<tr>
<td>Purchases of property, plant and equipment</td>
<td>(59,009)</td>
<td>$(842,163)</td>
</tr>
<tr>
<td>Proceeds from sales of property, plant and equipment</td>
<td>¥ 857</td>
<td>¥ 7,347</td>
</tr>
<tr>
<td>Purchases of other assets</td>
<td>(10,675)</td>
<td>$(22,423)</td>
</tr>
<tr>
<td>Proceeds from sales of investment securities</td>
<td>¥ 2,411</td>
<td>¥ 22,336</td>
</tr>
<tr>
<td>Purchase of investments in affiliated company</td>
<td>(497)</td>
<td>(6,638)</td>
</tr>
<tr>
<td>Proceeds from sales of investments in affiliated company</td>
<td>¥ 4,301</td>
<td>¥ 39,861</td>
</tr>
<tr>
<td>Other</td>
<td>¥ 346</td>
<td>¥ 3,208</td>
</tr>
<tr>
<td>Net cash used in investing activities</td>
<td>¥ (51,806)</td>
<td>$(72,579)</td>
</tr>
</tbody>
</table>

Cash flows from financing activities:

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceeds from long-term bank loans, net</td>
<td>¥ 6,213</td>
<td>¥ 57,610</td>
</tr>
<tr>
<td>Borrowings from long-term debt, including current portion</td>
<td>¥ 29,795</td>
<td>¥ 276,276</td>
</tr>
<tr>
<td>Cash dividends paid</td>
<td>(16,145)</td>
<td>(177,323)</td>
</tr>
<tr>
<td>Proceeds of issuance of shares and debentures</td>
<td>¥ 6,845</td>
<td>¥ 68,616</td>
</tr>
<tr>
<td>Repayment of loans issued under shareholders’ obligations</td>
<td>(1,370)</td>
<td>(12,720)</td>
</tr>
<tr>
<td>Other</td>
<td>(1,435)</td>
<td>(73,360)</td>
</tr>
<tr>
<td>Net cash provided by financing activities</td>
<td>¥ 7,413</td>
<td>¥ 68,758</td>
</tr>
</tbody>
</table>

Net effect of exchange rate changes on cash and cash equivalents | ¥ (1,596) | $(24,798) |

Net decrease in cash and cash equivalents | (12,241) | (173,500) |

Cash and cash equivalents at beginning of the year | ¥ 83,474 | ¥ 774,018 |

Net decrease in cash and cash equivalents resulting from exclusions of subsidiaries in consolidation | (12,241) | (173,500) |

Cash and cash equivalents at end of the year | ¥ 71,165 | ¥ 599,882 |

Notes to Consolidated Financial Statements

1. Basis of Preparation

The accompanying consolidated financial statements of NTN Corporation (the "Company") and consolidated subsidiaries are prepared on the basis of accounting principles generally accepted in Japan, which are different in certain respects to those of the application and disclosure requirements of International Financial Reporting Standards, and are compiled from the consolidated financial statements prepared by the Company as required by the Financial Instruments and Exchange Act of Japan.

In preparing the accompanying consolidated financial statements, certain reclassifications have been made to the consolidated financial statements issued domestically in order to present them in a format which is more familiar to readers outside Japan. In addition, certain notes included herein are not required under the accounting principles generally accepted in Japan but are presented as additional information. Certain amounts in the prior year’s financial statements have been reclassified to conform to the current year’s presentation. Such reclassification had no effect on consolidated profit or net assets.

2. Summary of Significant Accounting Policies

(a) Principles of consolidation

The accompanying consolidated financial statements include the accounts of the Company and the significant companies which it controls directly or indirectly. Companies over which the Company exercises significant influence in terms of their operating and financial policies have been included in the accompanying consolidated financial statements on an equity basis. The financial statements of certain consolidated subsidiaries whose fiscal year end is December 31 have been included in consolidation on the basis of a full fiscal year closing on March 31 for consolidation purposes.

(b) Foreign currency translation

Monetary assets and liabilities denominated in foreign currencies are translated into yen at the rates of exchange in effect at the balance sheet date. Revenues and expenses are translated at the rates of exchange prevailing when the transactions were made. Assets and liabilities of overseas consolidated subsidiaries are translated into yen at the exchange rates in effect at the respective balance sheet dates, except for the components of net assets excluding non-controlling interests which are translated at the respective historical rates. Revenue and expenses are translated at the average rates of exchange for the respective years. Differences arising from translation are reflected in "Translation adjustments" and "Non-controlling interests" in the accompanying consolidated balance sheet and statement of changes in net assets.

(c) Cash and cash equivalents

Cash and cash equivalents consist of cash on hand, deposits with banks withdrawable on demand, and short-term investments which are readily convertible to cash subject to an insignificant risk of change in their value and which were purchased with an original maturity of three months or less.

(d) Allowance for doubtful accounts

The allowance for doubtful accounts is computed based on the actual historical percentage of bad debts and is an estimate of uncollectible amounts determined after an analysis of specific individual receivables.

(e) Short-term investments and investment securities

The accounting standard for financial instruments requires that securities be classified into cash equivalents, trading, held-to-maturity or other securities. Trading securities are carried at fair value and held-to-maturity debt securities are carried at amortized cost. Marketable securities classified as other securities are carried at fair value with any changes in unrealized holding gain or loss, net of the applicable income taxes, included directly in net assets. Cost of securities sold is determined by the moving average method. Non-marketable securities classified as other securities are carried at cost based on the moving average method.

(f) Inventories

Inventories are principally stated at lower of cost, determined by the average method, or net selling value.

(g) Property, plant and equipment (other than leased assets)

Property, plant and equipment is stated at cost. The Company and its domestic consolidated subsidiaries calculate depreciation by the straight-line method over the estimated useful lives of the respective assets. The foreign consolidated subsidiaries principally calculated depreciation by the straight-line method over the estimated useful lives of the respective assets.

The principal estimated useful lives are as follows:

Buildings and structures

5 to 10 years

Machinery, equipment and vehicles

5 to 12 years

Contributions granted by national and municipal governments are deducted directly from the acquisition costs of the related fixed assets as stipulated in the Corporation Tax Law of Japan. The property, plant and equipment accounts on the consolidated balance sheet at March 31, 2020 and 2019 were reduced by the following amounts:

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>¥ 799</td>
<td>¥ 7,429</td>
</tr>
<tr>
<td>Buildings and structures</td>
<td>404</td>
<td>3,748</td>
</tr>
<tr>
<td>Machinery, equipment and vehicles</td>
<td>71</td>
<td>659</td>
</tr>
<tr>
<td>Total</td>
<td>¥ 1,274</td>
<td>¥ 13,834</td>
</tr>
</tbody>
</table>

(h) Liability for retirement benefits

Liability for retirement benefits has been provided on an amount calculated based on the retirement benefit obligation after the fair value of the pension plan assets are deducted. The estimated benefit is attributed to each period by the benefit formula method over the estimated years of service of the eligible employees.

Past service cost is amortized as incurred primarily by the straight-line method over a period of principal years, which is within the estimated average remaining years of service of the eligible employees. Unrecognized actuarial gain or loss is amortized commencing in the year following the year in which the gain or loss was recognized primarily by the straight-line method over a period of principally 15 years, which is within the estimated average remaining years of service of the eligible employees.

(i) Provision for product defect compensation

Provision for product defect compensation is provided at an estimated amount in order to cover the anticipated compensation.

(j) Leases

For lease transactions not involving the transfer of ownership, the leased assets are depreciated by the same methods used for owned fixed assets. For lease transactions not involving the transfer of ownership, leased assets are depreciated over the lease period using the straight-line method with a residual value.

(k) Research and development costs and computer software development costs

Research and development costs are charged to income as incurred. Expenditures relating to computer software developed for internal use are charged to income when incurred, except when the software is expected to contribute to the generation of income or to future cost savings. Such expenditures are capitalized as assets and are amortized by the straight-line method over their respective estimated useful lives, generally a 5-year period.
(i) Deferred income taxes
Deferred income taxes are provided for temporary differences between the balances of assets and liabilities reported for financial reporting purposes and the corresponding balances for tax reporting purposes.

(m) Derivative financial instruments and hedging activities
All derivatives are stated at fair value with any changes in fair value included in profit for the period in which they arise, except for derivatives which meet the criteria for hedge accounting under which unrealized gain or loss, not net of all applicable income taxes, is deferred as a component of net assets. Realized and unrealized gains and losses hedged by forward foreign exchange contracts which meet certain conditions are translated at the exchange contract rates. Interest-rate swaps which meet certain conditions are accounted for as if the interest rates applied to the interest-rate and cross currency swaps had originally applied to the underlying debt.

(n) Distribution of retained earnings
Under the Corporation Law of Japan and the Company’s Articles of Incorporation, the distribution of retained earnings with respect to a given financial period is made by resolution of the shareholders at a general meeting held subsequent to the close of the financial period. The distribution of retained earnings with respect to the interim financial period is made by resolution of the Board of Directors. The accounts for the period do not reflect such distributions.

(o) Consolidated taxation system
The Company and certain domestic consolidated subsidiaries adopted the consolidated taxation system, which allows companies to file tax returns based on the combined profits or losses of the parent company and its wholly owned domestic subsidiaries.

(p) Adoption of tax effect accounting for transition from consolidated taxation system to group tax sharing system
The Company and certain domestic subsidiaries calculated the amounts of deferred taxes and deferred tax liabilities based on the Japanese Income Tax Act prior to amendment in accordance with the treatment under Paragraph 3 “Practical Solution on the Treatment of Tax Effect Accounting for the Transition from the Consolidated Taxation System to the Group Tax Sharing System” (Accounting Standards Board of Japan (hereinafter referred to as the “ASBJ”) Practical Issues Task Force No.39 March 31, 2020) instead of adopting the provisions of Paragraph 44 of “Implementation Guidance on Tax Effect Accounting” (ASBJ Guidance No.28, February 16, 2018), regarding the transition to the group tax sharing system established in the Tax System Amendment of the Income Tax Act, etc. (“Act” No.28 of 2012), related to items for which the non-consolidated taxation system has been reviewed in accordance with the transition to the group tax sharing system.

3. Accounting Changes
Application of IFRS 16
A number of the Company’s overseas consolidated subsidiaries have applied IFRS 16, “Leases”, effective from April 1, 2019. The cumulative effect of applying IFRS 16 was recognized by adjusting the amounts of tangible fixed assets, intangible fixed assets, lease liabilities and retained earnings at the beginning of the fiscal year ended March 31, 2020, in accordance with the transitional treatment provided in this standard. However, the effects of applying IFRS 16 on the consolidated financial statements were immaterial.

4. Standards Issued but Not Yet Effective
Accounting Standard and Implementation Guidance for Revenue Recognition
(i) Overview
On March 31, 2020, ASBJ issued “Accounting Standard for Revenue Recognition” (ASBJ Statement No.29) and “Implementation Guidance on Disclosures About Fair Value of Financial Instruments” (ASBJ Statement No.31) and “Accounting Standard for Accounting Policy Disclosures, Accounting Changes and Error Corrections” (ASBJ Statement No.10). The ASBJ Accounting Standards Board (hereinafter referred to as the “ASBJ”) and the Financial Accounting Standards Board (hereinafter referred to as the “FASB”) in the United States co-developed comprehensive accounting standards for revenue recognition and issued “Revenue from Contracts with Customers” (issued as IFRS 15 by the ASBJ and Topic 606 by the FASB) in May 2014. The ASBJ developed comprehensive accounting standards for revenue recognition and issued them in conjunction with the implementation guidance based on the fact that IFRS 15 was applied, from fiscal years starting on or after January 1, 2018 and Topic 606 was applied from fiscal years starting after December 15, 2017.

As the basic policy in developing accounting standards for revenue recognition, the ASBJ defined the accounting standard with incorporating the basic principle of IFRS 15 from a standpoint of comparability between financial statements, which is one benefit of ensuring consistency with IFRS 15. Furthermore, the ASBJ added alternative accounting treatment without impairing comparability when there are matters to be considered related to accounting practices, etc. common in Japan.

(ii) Scheduled date of adoption
The Company expects to adopt the accounting standard and implementation guidance from the beginning of the fiscal year ending March 31, 2022.

(iii) Impact of the adoption of accounting standard and implementation guidance
The Company is currently evaluating the effect of the adoption of the accounting standard and the implementation guidance on its consolidated financial statements.

Accounting Standard and Implementation Guidance for Fair Value Measurement
(i) Overview

As the basic policy in developing accounting standards for fair value measurement, the ASBJ incorporates the rules of IFRS 13 from a standpoint of improving the comparability between financial statements of Japanese companies and overseas companies by using the unified calculation method. Furthermore, the ASBJ defined the other accounting treatment for the particular matters without impairing comparability considering accounting practice, etc. common in Japan.

(ii) Scheduled date of adoption
The Company expects to adopt the accounting standard and measurement guidance from the beginning of the fiscal year ending March 31, 2022.

(iii) Impact of the adoption of accounting standard and implementation guidance
The effect of the adoption of the accounting standard and the implementation guidance on its consolidated financial statements is to be decided.

Accounting Standard for Disclosure of Accounting Estimates
(i) Overview
On March 31, 2020, the ASBJ issued “Accounting Standard for Disclosure of Accounting Estimates” (ASBJ Statement No.31). As for the disclosure of “Sources of estimation uncertainty” required by paragraph 121 of International Accounting Standard (IAS) 1 “Presentation of Financial Statements” (hereinafter referred to as the “IAS 1”) issued in 2003 by the IASB, because this information is valuable for users of the financial statements, there were requests to consider disclosing this under Japanese GAAP as information in the notes and the ASBJ developed and issued the “Accounting Standard for Disclosure of Accounting Estimates” (hereinafter referred to as the “Standard”).

The basic approach taken by the ASBJ in the development of the Standard was, not to enrich individual notes, but to state the general principle (purpose of disclosure) and to allow entities to determine the specific contents to be disclosed in light of the purpose of disclosure. In the developing the Standard, the ASBJ referred to the provisions of paragraph 121 of IAS 1.

(ii) Scheduled date of adoption
The Company expects to adopt the accounting standard from the end of the fiscal year ending March 31, 2021.

Accounting Standard for Accounting Policy Disclosures, Accounting Changes and Error Corrections
(i) Overview
On March 31, 2020, the ASBJ issued “Accounting Standard for Accounting Policy Disclosures, Accounting Changes and Error Corrections” (ASBJ Statement No.24). In response to a proposal to consider enriching the information in accordance with paragraph 8 “principles and procedures for accounting treatment adopted in cases where the provisions of relevant accounting standards and regulations are not clear”, the ASBJ made the necessary revisions in the standard and issued it as “Accounting Standard for Accounting Policy Disclosures, Accounting Changes and Error Corrections”.

Furthermore, when an entity attempts to enrich the information in the notes on “principles and procedures for accounting treatments adopted in cases where the provisions of relevant accounting standards and regulations are not clear” in order not to affect the conventional practices in the case where the provisions of relevant accounting standards and regulations are clear, the ASBJ issued the provisions of Annotations on the Corporate Accounting Principles (Annexation No.1-2) which will apply.

(ii) Scheduled date of adoption
The Company expects to adopt the accounting standard from the end of the fiscal year ending March 31, 2021.

5. Additional Information
Performance-linked stock compensation scheme
The Company introduced a performance-linked stock compensation scheme (hereinafter referred to as the “Scheme”) for its executive officers (excluding executive officers who do not reside in Japan, the same applies hereinafter), which serves as an officer remuneration system that is closely linked to corporate performance targets in the medium-term management plan and which is highly transparent and objective in nature.

(i) Overview of transactions
The Scheme adopts a mechanism known as an officer remuneration BIP (Board Incentive Plan) trust (hereinafter referred to as the “BIP Trust”). The BIP Trust is an incentive plan for officers based on the performance share scheme and the restricted stock scheme and which is a scheme in which the Company’s shares acquired by the BIP Trust and funds equivalent to the proceeds received when converting into cash or disposing of such shares are distributed and paid according to the officers’ positions and the degree of achievement of performance targets disclosed in the medium-term management plan, and other factors.

(ii) The Company’s shares remaining in the trust
The Company’s shares remaining in the trust are recorded as treasury stock in the net asset sector, based on their book value (excluding the amount of incidental expenses) recorded in the accounts of the trust. The book value and number of shares of such treasury stock at March 31, 2020 totaled ¥115 million (5,139 thousand) and 472,665 shares, and at March 31, 2019 totaled ¥112 million and 479,761 shares, respectively.

Impact of the Spread of the Novel Coronavirus on Accounting Estimates
With regard to the spread of the novel coronavirus, there is a high degree of uncertainty regarding the future spread and the timing of its containment. Therefore, the Company and its consolidated subsidiaries have made accounting estimates related to impairment accounting, etc. based on the assumption that the spread of the novel coronavirus will have an impact on the financial results of the Company and its consolidated subsidiaries for a year during the fiscal year ending March 31, 2021.

6. Inventories
Inventories at March 31, 2020 and 2019 consisted of the following:

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net sales of yen</td>
<td>¥96,616</td>
<td>¥102,677</td>
<td>¥95,870</td>
</tr>
<tr>
<td>Net sales in U.S. dollars</td>
<td>¥8,857</td>
<td>¥8,182</td>
<td>¥8,458</td>
</tr>
<tr>
<td>Work in process</td>
<td>46,928</td>
<td>55,519</td>
<td>54,688</td>
</tr>
<tr>
<td>Raw materials and supplies</td>
<td>32,379</td>
<td>36,409</td>
<td>34,539</td>
</tr>
<tr>
<td>Total</td>
<td>¥182,923</td>
<td>¥194,510</td>
<td>¥183,698</td>
</tr>
</tbody>
</table>

Finished goods
\[2020: ¥960,618 \quad 2019: ¥1,027,734 \quad 2020: ¥858,870\]

Work in process
\[2020: ¥462,928 \quad 2019: ¥555,191 \quad 2020: ¥453,688\]

Raw materials and supplies
\[2020: ¥32,379 \quad 2019: ¥36,409 \quad 2020: ¥34,539\]
7. Impairment of Fixed Assets

The Company and its consolidated subsidiaries group fixed assets used for manufacturing by management segment into minimum units which generate identifiable cash flows (e.g., a factory). They also group fixed assets used at the head office or used for sales activities as shared assets, and group fixed assets on an individual basis when they do not expect any future use.

The Company and its consolidated subsidiaries wrote down the following assets to their respective net recoverable values because the Company and its consolidated subsidiaries do not expect them to be recoverable. Consequently, the Company and its consolidated subsidiaries recorded related losses on impairment of fixed assets of ¥9,201 million ($89,914 thousand) and ¥16,903 million in the accompanying consolidated statement of operations for the years ended March 31, 2020 and 2019, respectively:

<table>
<thead>
<tr>
<th>Location</th>
<th>Usage</th>
<th>Classification</th>
<th>2020</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>Production equipment and other</td>
<td>Buildings and structures</td>
<td>¥ 4,360</td>
<td>¥ 3,114</td>
<td>¥ 45,428</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Machinery and equipment</td>
<td>16,355</td>
<td>12,851</td>
<td>157,653</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Land</td>
<td>400</td>
<td>489</td>
<td>3,709</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction in progress</td>
<td>249</td>
<td>167</td>
<td>2,509</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other</td>
<td>592</td>
<td>342</td>
<td>5,460</td>
</tr>
<tr>
<td>Americas</td>
<td>Production equipment</td>
<td>Machinery and equipment</td>
<td>5,516</td>
<td>8,146</td>
<td>51,146</td>
</tr>
<tr>
<td>Europe</td>
<td>Production equipment and other</td>
<td>Buildings and structures</td>
<td>273</td>
<td>–</td>
<td>2,627</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Machinery and equipment</td>
<td>1,220</td>
<td>–</td>
<td>11,313</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other</td>
<td>35</td>
<td>–</td>
<td>325</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>¥ 29,001</td>
<td>¥ 16,961</td>
<td>¥ 268,914</td>
</tr>
</tbody>
</table>

The recoverable value of the fixed assets presented in the above table has been measured primarily at net realizable value or value in use. If a fixed asset is unlikely to be sold or diverted to other usage, such asset is valued at nil. Value in use is measured as the sum of anticipated future cash flows by each business unit mainly discounted at rate of 6% for the year ended March 31, 2020 and 2019.

8. Securities

(a) Information regarding marketable securities classified as other securities at March 31, 2020 and 2019 is summarized as follows:

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2019</th>
<th></th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carrying value</td>
<td>Acquisition costs</td>
<td>Unrealized gain/ (loss)</td>
<td>Carrying value</td>
</tr>
<tr>
<td>Securities whose carrying value exceeds their acquisition costs:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equity securities</td>
<td>¥ 17,124</td>
<td>¥ 8,986</td>
<td>¥ 8,138</td>
<td>¥ 20,856</td>
</tr>
<tr>
<td>Securities whose carrying value does not exceed their acquisition costs:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equity securities</td>
<td>3,512</td>
<td>4,372</td>
<td>(860)</td>
<td>4,048</td>
</tr>
<tr>
<td>Total</td>
<td>¥ 20,636</td>
<td>¥ 13,358</td>
<td>¥ 7,278</td>
<td>¥ 25,954</td>
</tr>
</tbody>
</table>

(b) Sales and aggregate gain on investment securities are summarized as follows:

The Company sold certain available-for-sale securities with a fair value of ¥2,410 million ($22,347 thousand), and recognized gain of ¥1,353 million ($12,546 thousand) for the fiscal year ended March 31, 2020.

9. Short-Term Bank Loans, Long-Term Debt and Lease Obligations

Short-term bank loans principally represent short-term notes with average annual interest rates of 1.03% and 1.54% at March 31, 2020 and 2019, respectively.

Long-term debt and lease obligations at March 31, 2020 and 2019 consisted of the following:

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loans from banks and other financial institutions, due through 2026, at an average annual interest rate of 0.94%</td>
<td>¥ 254,986</td>
<td>¥ 240,243</td>
</tr>
<tr>
<td>0.45% unsecured bonds due 2025</td>
<td>10,000</td>
<td>10,000</td>
</tr>
<tr>
<td>0.46% unsecured bonds due 2027</td>
<td>10,000</td>
<td>10,000</td>
</tr>
<tr>
<td>0.49% unsecured bonds due 2028</td>
<td>10,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Lease obligations due through 2026</td>
<td>3,045</td>
<td>2,272</td>
</tr>
<tr>
<td>2026 and thereafter</td>
<td>290,631</td>
<td>281,455</td>
</tr>
<tr>
<td>Less current portion</td>
<td>(41,121)</td>
<td>(25,530)</td>
</tr>
<tr>
<td>Total</td>
<td>¥ 249,510</td>
<td>¥ 255,925</td>
</tr>
</tbody>
</table>

The aggregate annual maturities of long-term debt and lease obligations subsequent to March 31, 2020 are summarized as follows:

<table>
<thead>
<tr>
<th>Year ending March 31</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025 and thereafter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millions of yen</td>
<td>¥ 249,510</td>
<td>¥ 244,974</td>
<td>¥ 290,631</td>
<td>¥ 281,287</td>
<td>¥ 491,962</td>
<td>¥ 476,146</td>
</tr>
<tr>
<td>Thousands of U.S. dollars</td>
<td>$ 2,244,754</td>
<td>$ 2,681,287</td>
<td>$ 2,906,312</td>
<td>$ 2,812,877</td>
<td>$ 4,919,621</td>
<td>$ 4,761,461</td>
</tr>
</tbody>
</table>

10. Retirement Benefits

1. Outline of retirement benefits for employees

The Company and certain domestic consolidated subsidiaries have defined benefit pension plans (a, corporate pension fund plans and lump-sum payment plans), covering substantially all employees. They are entitled to lump-sum or annuity payments, the amounts of which are determined by reference to their basic rates of pay, length of service, and the conditions under which termination occurs. They also have defined contribution pension plans and advance payment plans. Certain overseas consolidated subsidiaries have defined benefit pension plans and/or defined contribution pension plans. The Company has also established an employees’ retirement benefit trust.

2. Defined benefit pension plans

(a) The changes in the retirement benefit obligations for the years ended March 31, 2020 and 2019 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retirement benefit obligation at the beginning of the year</td>
<td>¥ 102,441</td>
<td>¥ 102,839</td>
</tr>
<tr>
<td>Service cost</td>
<td>3,553</td>
<td>3,580</td>
</tr>
<tr>
<td>Interest cost</td>
<td>1,539</td>
<td>1,539</td>
</tr>
<tr>
<td>Actuarial gain</td>
<td>1,705</td>
<td>1,799</td>
</tr>
<tr>
<td>Benefits paid</td>
<td>(5,108)</td>
<td>(5,131)</td>
</tr>
<tr>
<td>Other</td>
<td>(1,016)</td>
<td>(999)</td>
</tr>
<tr>
<td>Retirement benefit obligation at the end of the year</td>
<td>¥ 92,949</td>
<td>¥ 92,760</td>
</tr>
</tbody>
</table>

(b) Certain domestic consolidated subsidiaries calculate the liability for retirement benefits based on the simplified method.
(2) The changes in plan assets for the years ended March 31, 2020 and 2019 are as follows:

<table>
<thead>
<tr>
<th>Plan assets at fair value at the beginning of the year</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>¥ 60,551</td>
<td>$ 561,463</td>
</tr>
<tr>
<td>2019</td>
<td>¥ 62,446</td>
<td>$ 593,408</td>
</tr>
</tbody>
</table>

Expected return on plan assets
1,434 1,463 13,297
Actuarial gain or loss
(5,153) (2,575) (47,782)
Contributions by the employer
3,357 3,716 37,128
Benefits paid
(4,240) (4,310) (59,836)
Other
(1,347) (189) (12,296)

Plan assets at fair value at the end of the year
¥ 54,622 ¥ 60,551 $ 506,486

(3) The balance of retirement benefit obligation and plan assets at fair value, liabilities and assets recognized in consolidated balance sheets as of March 31, 2020 and 2019 are as follows:

<table>
<thead>
<tr>
<th>Funded retirement benefit obligation</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>¥ 94,896</td>
<td>$ 879,929</td>
</tr>
<tr>
<td>2019</td>
<td>¥ 96,191</td>
<td>$ 919,043</td>
</tr>
</tbody>
</table>

Plan assets at fair value
(54,622) (60,551) (506,486)
Unfunded retirement benefit obligation
6,453 6,250 59,836
Net amount of liabilities and assets recognized in the consolidated balance sheet
46,727 41,993 433,279

Liability for retirement benefits
¥ 46,727 ¥ 41,993 ¥ 433,279

(4) The components of retirement benefit expenses for the years ended March 31, 2020 and 2019 are as follows:

<table>
<thead>
<tr>
<th>Retirement benefit expenses</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service cost</td>
<td>¥ 3,553</td>
<td>$ 32,945</td>
</tr>
<tr>
<td>Interest cost</td>
<td>1,705</td>
<td>15,810</td>
</tr>
<tr>
<td>Expected return on plan assets</td>
<td>(1,434)</td>
<td>(13,297)</td>
</tr>
<tr>
<td>Amortization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Actuarial loss</td>
<td>1,219</td>
<td>11,303</td>
</tr>
<tr>
<td>Past service cost</td>
<td>67</td>
<td>622</td>
</tr>
<tr>
<td>Total retirement benefit expenses</td>
<td>¥ 5,110</td>
<td>$ 47,383</td>
</tr>
</tbody>
</table>

(5) The components of retirement benefit liability adjustments included in other comprehensive income (before tax effect) for the years ended March 31, 2020 and 2019 are as follows:

<table>
<thead>
<tr>
<th>Retirement benefit liability adjustments</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuarial gain or loss</td>
<td>¥ (2,543)</td>
<td>$(23,580)</td>
</tr>
<tr>
<td>Past service cost</td>
<td>24</td>
<td>223</td>
</tr>
<tr>
<td>Total</td>
<td>¥ (2,519)</td>
<td>$(23,357)</td>
</tr>
</tbody>
</table>

(6) The components of retirement benefit liability adjustments included in accumulated other comprehensive income (before tax effect) as of March 31, 2020 and 2019 are as follows:

<table>
<thead>
<tr>
<th>Retirement benefit liability adjustments</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuarial gain or loss</td>
<td>¥ (12,500)</td>
<td>$(115,007)</td>
</tr>
<tr>
<td>unrecognized past service cost</td>
<td>(201)</td>
<td>(1,839)</td>
</tr>
<tr>
<td>Total</td>
<td>¥ (12,701)</td>
<td>$(117,846)</td>
</tr>
</tbody>
</table>

(7) The fair value of plan assets, by major category, as a percentage of total plan assets as of March 31, 2020 and 2019 are as follows:

| Equities     | 29.9% | 28.4% |
| Bonds        | 41.2  | 33.9  |
| General accounts at life insurance companies | 15.1 | 16.1 |
| Other        | 13.8  | 11.6  |

The expected long-term rate of return on plan assets is determined as a result of consideration of both the portfolio allocation at present and anticipated in the future, and long-term expected rate of return from multiple plan assets.

(8) The assumptions used in accounting for the defined benefit plans are as follows:

<table>
<thead>
<tr>
<th>Assumptions</th>
<th>2020</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount rate</td>
<td>Principally 1.2%</td>
<td>Principally 1.2%</td>
</tr>
<tr>
<td>Expected long-term rate of return on plan assets</td>
<td>Principally 1.5%</td>
<td>Principally 2.5%</td>
</tr>
</tbody>
</table>

3. Defined contribution pension plans

<table>
<thead>
<tr>
<th>Contributions to defined contribution pension plans</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>¥ 5,628</td>
<td>$ 51,760</td>
</tr>
<tr>
<td>2019</td>
<td>¥ 10,709</td>
<td>$ 97,719</td>
</tr>
</tbody>
</table>
11. Shareholders’ Equity

(a) The Corporation Law of Japan (the “Law”) provides that an amount equal to 10% of the amount to be disbursed as distributions of capital surplus (other than the capital reserve) and retained earnings (other than the legal reserve) be transferred to the capital reserve and the legal reserve, respectively, until the sum of the capital reserve and the legal reserve equals 25% of the capital stock account. Such distributions can be made at any time by resolution of the shareholders or by the Board of Directors if certain conditions are met.

(b) Movements in shares issued and treasury stock during the years ended March 31, 2020 and 2019 are summarized as follows:

<table>
<thead>
<tr>
<th>Number of shares</th>
<th>2020</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shares issued</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common stock</td>
<td>$32,463,527</td>
<td>$32,463,527</td>
</tr>
<tr>
<td>Treasury stock</td>
<td>1,320,628</td>
<td>1,413</td>
</tr>
<tr>
<td>Common stock</td>
<td>1,314,946</td>
<td>7,095</td>
</tr>
<tr>
<td>Shares issued</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common stock</td>
<td>$32,463,527</td>
<td>$32,463,527</td>
</tr>
<tr>
<td>Treasury stock</td>
<td>1,405,959</td>
<td>1,829</td>
</tr>
<tr>
<td>Common stock</td>
<td>1,314,946</td>
<td>87,160</td>
</tr>
</tbody>
</table>

The increase in treasury stock of 1,413 shares was due to purchases of shares of less than one voting unit and the decrease in treasury stock of 7,095 shares was mainly due to disposal of shares by the “Officer Remuneration BIP Trust” for the year ended March 31, 2020 (Please refer to Note 5). Additionally, the Company included 472,666 shares held by the “Officer Remuneration BIP Trust” in the number of treasury stock at March 31, 2020. The increase in treasury stock of 1,829 shares was due to purchases of shares of less than one voting unit and the decrease in treasury stock of 87,160 shares was mainly due to disposal of shares by the “Officer Remuneration BIP Trust” for the year ended March 31, 2019 (Please refer to Note 5). Additionally, the Company included 479,761 shares held by the “Officer Remuneration BIP Trust” in the number of treasury stock at March 31, 2019.

12. Contingent Liabilities

(a) Lawsuits, etc.

The Group is involved in several lawsuits, some of which are summarized below.

(i) Lawsuits in connection with overseas sales of bearings.

(ii) Lawsuits in connection with the alleged violation of the Antimonopoly Act of Japan or the European Competition Law, etc. and continue to address these claims. Depending on the results of the claims, the results of operations of the Company and its consolidated subsidiaries could be affected. However, it is currently difficult to make reasonable estimates of the future possible effects on the results of operations and financial position of the Company and its consolidated subsidiaries.

(b) Types of financial instruments and related risks

Trade receivables, notes, accounts payable and electronically recorded obligations are due within one year. Certain trade payables resulting from the import of raw materials are denominated in foreign currencies. These are exposed to fluctuation risk of foreign currencies. However, the risk is mitigated because the trade payables, notes and accounts payable denominated in foreign currencies are within a range of risk that can be managed by utilizing forward foreign currency exchange contracts. The Group utilizes derivative transactions of interest rate swap agreements and interest rate and cross currency swap agreements. The Group has a policy to utilize derivative transactions involving forward foreign currency exchange contracts, currency option agreements, currency swap agreements, interest rate option agreements and interest rate swap agreements for the purpose of avoiding future fluctuation risk of foreign currencies trade receivables and payables and mitigating future fluctuation risk of interest rate of loans and corporate bonds. The Group utilized forward foreign currency exchange contracts, interest rate swap agreements and interest rate and cross currency swap agreements for the year ended March 31, 2020. Refer to “m) Derivative financial instruments and hedging activities” in Note 2 “Summary of Significant Accounting Policies”.

(c) Risk management for financial instruments

(i) Monitoring of credit risk (the risk that customers or counterparties may default).

(ii) Monitoring of market risks (the risks arising from fluctuations in foreign currency exchange rates, interest rates and others)

(iii) Monitoring of liquidity risk (the risk that the Group may not be able to meet its obligations on scheduled due dates)

13. Operating Leases

Future minimum lease payments subsuient to March 31, 2020 for non-cancelable operating leases were as follows:

<table>
<thead>
<tr>
<th>Years ending March 31,</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>¥ 760</td>
<td>$ 7,047</td>
</tr>
<tr>
<td>2022 and thereafter</td>
<td>¥ 3,008</td>
<td>$ 28,448</td>
</tr>
<tr>
<td>Total</td>
<td>¥ 3,768</td>
<td>$ 35,495</td>
</tr>
</tbody>
</table>

The total amount for the year ended March 31, 2020 did not include the lease obligations of ¥2,796 million ($25,926 thousand) recorded in accordance with the application of IFRS 16.

14. Financial Instruments

Overviews

(a) Policy for financial instruments

The Company and its subsidiaries (collectively, the “Group”) raise necessary funds in accordance with management plans mainly by bank borrowings and issuance of corporate bonds in support of operations related to the manufacture and sales of bearings, constant-velocity joints (CVJs) and precision equipments. The Group utilizes bank borrowings for short-term operating funds, and bank borrowings and issuance of corporate bonds for long-term capital investments and finances. Temporary surplus funds are managed by low-risk financial assets. The Group utilizes derivatives to avoid or mitigate risks as described in the later part of this note and does not hold them for speculative purposes.

(b) Types of financial instruments and related risks

Trade receivables, notes, accounts receivable and electronically recorded monetary claims, are exposed to credit risk of customers. In addition, as a result of the business of the Group, which operates globally, foreign currency trade receivables are exposed to currency rate fluctuation risk, which is mitigated by utilizing forward foreign currency exchange contracts. Securities are mainly composed of stocks of the companies with which the Group has business relationships and they are exposed to fluctuation risk of market prices.

Trade payables, notes, accounts payable and electronically recorded obligations, are due within one year. Certain trade payables resulting from the import of raw materials are denominated in foreign currencies. These are exposed to fluctuation risk of foreign currencies. However, the risk is mitigated because the trade payables, notes and accounts payable denominated in foreign currencies are within a range of receivables denominated in the same currencies.

(i) Loans are mainly utilized for business operations of the Group. Short-term loans are mainly utilized for financing of operating activities. Medium- and long-term loans are mainly utilized for capital investments and financing. These have maturities of 10 years or less, at the longest, subsequent to March 31, 2020. Certain loans are granted to customers on the basis of the risk of interest rates and fluctuation risk of exchange rates and this risk is hedged by derivative transactions of interest rate swap agreements and interest rate and cross currency swap agreements.

(ii) The Group has a policy to utilize derivative transactions involving forward foreign currency exchange contracts, currency option agreements, currency swap agreements, interest rate option agreements and interest rate swap agreements for the purpose of avoiding future fluctuation risk of foreign currencies trade receivables and payables and mitigating future fluctuation risk of interest rate of loans and corporate bonds. The Group utilized forward foreign currency exchange contracts, interest rate swap agreements and interest rate and cross currency swap agreements for the year ended March 31, 2020. Refer to “m) Derivative financial instruments and hedging activities” in Note 2 “Summary of Significant Accounting Policies”.

15. Risk management for financial instruments

(i) Monitoring of credit risk (the risk that customers or counterparties may default).

In accordance with internal rules and manual, the credit management section periodically monitors financial conditions of major customers, manages collection due dates and balances of each customer and tries to identify credit risk of customers with worsening financial conditions at the early stage and mitigate the risk. Credit risk of securities is quite low because the Group utilizes certificate of deposits with high credit ratings, up to a limited amount, which is approved by the Company. The Group believes credit risk of derivative transactions is almost nil because counterparties are financial institutions with high credit ratings.

(ii) Monitoring of market risks (the risks arising from fluctuations in foreign currency exchange rates, interest rates and others)

The Group mainly utilizes forward foreign currency exchange contracts for hedging of fluctuation risk which is identified by each currency. Depending on the market conditions of foreign currencies, the Group utilizes forward foreign currency exchange contracts, interest rate swap agreements and interest rate and cross currency swap agreements for the maximum period of 6 months.

The Group utilizes interest rate swap agreements and interest rate and cross currency swap agreements to mitigate fluctuation risk of interest rates and fluctuation risk of loan principal due to fluctuating exchange rates. The Group continuously reviews securities holdings by monitoring periodically the market value and financial condition of securities’ issuers (companies with business relationships with the Group) and by evaluating those relationships.

The Group has established policies which include maximum upper limits and reporting obligations for derivative transactions and complies fully with these guidelines. Derivative transactions are entered into by the Company’s Accounting Department and certain consolidated subsidiaries. The Company carries out mutual supervision and monitoring of the derivative transactions in accordance with management policies and its consolidated subsidiaries apply the same approach. Each derivative transaction of the Company is reported to the responsible director when entered into. The consolidated subsidiaries are required to report the status of their derivatives transactions to the Company on a monthly basis and are also required to consult with the Company if they enter into derivative transactions other than forward foreign currency exchange contracts.

(iii) Monitoring of liquidity risk (the risk that the Group may not be able to meet its obligations on scheduled due dates)

The Group manages liquidity risk with the responsible section preparing and updating cash flow plans and keeping necessary funds based on reports of each section.
(d) Supplementary explanation of the fair value of financial instruments

The fair value of financial instruments is based on their quoted market price, if available. When there is no quoted market price available, fair value is reasonably estimated. Since various assumptions and factors are reflected in estimating the fair value, different assumptions and factors could result in different fair value. In addition, the notional amounts of derivatives in Note 15 "Derivative Financial Instruments and Hedging Activities" are not necessarily indicative of the actual market risk involved in the derivative transactions.

### Fair Value of Financial Instruments

The carrying value of financial instruments on the consolidated balance sheets, fair value and the difference as of March 31, 2020 and 2019, are shown in the following table. The table does not include financial instruments for which it is extremely difficult to determine the fair value. (Please refer to Note 2 below).

#### Table: Fair Value of Financial Instruments

<table>
<thead>
<tr>
<th>Carrying value (¥ millions)</th>
<th>Fair value (¥ millions)</th>
<th>Difference</th>
<th>Carrying value (¥ millions)</th>
<th>Fair value (¥ millions)</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>2019</td>
<td></td>
<td>2020</td>
<td>2019</td>
<td></td>
</tr>
<tr>
<td>(1) Cash and cash equivalents</td>
<td>¥ 71,165</td>
<td>–</td>
<td>¥ 83,474</td>
<td>¥ 83,474</td>
<td>–</td>
</tr>
<tr>
<td>(2) Short-term investments</td>
<td>¥ 6,403</td>
<td>–</td>
<td>¥ 6,770</td>
<td>¥ 6,770</td>
<td>–</td>
</tr>
<tr>
<td>(3) Notes and accounts – trade receivables</td>
<td>¥ 103,235</td>
<td>–</td>
<td>¥ 128,806</td>
<td>¥ 128,806</td>
<td>–</td>
</tr>
<tr>
<td>(4) Electronically recorded monetary claims</td>
<td>¥ 4,788</td>
<td>–</td>
<td>¥ 9,505</td>
<td>¥ 9,505</td>
<td>–</td>
</tr>
<tr>
<td>(5) Investment securities</td>
<td>¥ 20,636</td>
<td>–</td>
<td>¥ 32,954</td>
<td>¥ 32,954</td>
<td>–</td>
</tr>
<tr>
<td>(6) Short-term loans receivable included in other current assets</td>
<td>¥ 2,652</td>
<td>–</td>
<td>¥ 71</td>
<td>¥ 71</td>
<td>–</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td>¥ 208,879</td>
<td>¥ 208,881</td>
<td>¥ 262,580</td>
<td>¥ 262,584</td>
<td>¥ 4</td>
</tr>
</tbody>
</table>

- *Thousands of U.S. dollars*
- "-" indicates where the fair value is not applicable.

#### Table: Derivative transactions (¥ millions)

<table>
<thead>
<tr>
<th>Carrying value</th>
<th>Fair value</th>
<th>Difference</th>
<th>Carrying value</th>
<th>Fair value</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>2019</td>
<td></td>
<td>2020</td>
<td>2019</td>
<td></td>
</tr>
<tr>
<td>(1) Cash and cash equivalents</td>
<td>¥ 6,780</td>
<td>–</td>
<td>¥ 6,780</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(2) Short-term investments</td>
<td>¥ 59,372</td>
<td>–</td>
<td>¥ 59,372</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(3) Notes and accounts – trade receivables</td>
<td>¥ 957,253</td>
<td>–</td>
<td>¥ 957,253</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(4) Electronically recorded monetary claims</td>
<td>¥ 44,997</td>
<td>–</td>
<td>¥ 44,997</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(5) Investment securities</td>
<td>¥ 191,349</td>
<td>–</td>
<td>¥ 191,267</td>
<td>–</td>
<td>¥ 18</td>
</tr>
<tr>
<td>(6) Short-term loans receivable included in other current assets</td>
<td>¥ 24,592</td>
<td>–</td>
<td>¥ 24,592</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td>¥ 1,936,845</td>
<td>–</td>
<td>¥ 1,936,863</td>
<td>–</td>
<td>¥ 2</td>
</tr>
</tbody>
</table>

- *Thousands of U.S. dollars*

Note 1: Methods to determine the fair value of financial instruments and other matters related to securities and derivative transactions

1. Cash and cash equivalents, short-term investments, notes and accounts-trade receivables, and electronically recorded monetary claims and short-term loans receivable included in other current assets are settled within a short time period, their carrying value approximates fair value.

2. Investment securities

The fair value of equity securities is based on quoted market prices.

3. Short-term bank loans, Notes and accounts-trade receivables, and accrued income taxes are settled within a short time period, their carrying value approximates fair value.

4. Current portion of long-term debt and long-term debt

Long-term debt is composed of corporate bonds and long-term loans. The fair value of long-term loans is based on the present value of the total of principal and interest discounted by the interest rate to be applied assuming new loans under the similar conditions to existing loans are made.

Certain long-term loans with floating interest rates have been hedged by interest rate swap agreements and interest-rate and cross currency swap agreements. These have been accounted for as loans with fixed interest rates.

The fair value of these long-term loans is based on the present value of the total of principal, interest payments and net cash flows of the swap agreements discounted by the interest rates to be applied assuming new loans under similar conditions are made.

#### Derivative Transactions

Please refer to Note 15 "Derivative Financial Instruments and Hedging Activities" section of these Notes to Consolidated Financial Statements.

#### Note 2: Financial instruments for which it is extremely difficult to determine the fair value

- **(6) Current portion of long-term debt and (12) Long-term debt**

Long-term debt is composed of corporate bonds and long-term loans. The fair value of corporate bonds is based on quoted market prices. The fair value of long-term loans is based on the present value of the total of principal and interest discounted by the interest rate to be applied assuming new loans under the similar conditions to existing loans are made.

Because no quoted market price is available and it is extremely difficult to determine the fair value, the above financial instruments are not included in the preceding table.

#### Note 3: Redemption schedules for cash and cash equivalents, receivables and marketable securities with maturities at March 31, 2020 and 2019 are as follows:

<table>
<thead>
<tr>
<th>Carrying value (¥ thousands)</th>
<th>Fair value (¥ thousands)</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>2019</td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>¥ 71,165</td>
<td>–</td>
</tr>
<tr>
<td>Short-term investments</td>
<td>¥ 6,403</td>
<td>–</td>
</tr>
<tr>
<td>Trade receivables</td>
<td>¥ 103,235</td>
<td>–</td>
</tr>
<tr>
<td>Electronically recorded monetary claims</td>
<td>¥ 4,788</td>
<td>–</td>
</tr>
<tr>
<td>Investment securities</td>
<td>¥ 20,636</td>
<td>–</td>
</tr>
<tr>
<td>Short-term loans receivable included in other current assets</td>
<td>¥ 2,652</td>
<td>–</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>¥ 208,879</td>
<td>¥ 208,881</td>
</tr>
</tbody>
</table>

- *Assets and liabilities arising from derivative transactions are shown at net value with the amount in parentheses representing net liability position.*
Note 4: The redemption schedule for long-term debt is disclosed in Note 9 "Short-Term Bank Loans, Long-Term Debt and Lease Obligations" section of these Notes to Consolidated Financial Statements.

15. Derivative Financial Instruments and Hedging Activities

(a) Derivative transactions to which hedge accounting is not applied

The estimated fair value of the derivatives positions outstanding which do not qualify for deferral hedge accounting at March 31, 2020 and 2019 is summarized as follows:

### Currency-related transactions

<table>
<thead>
<tr>
<th>Classification</th>
<th>Transaction</th>
<th>Notional amount</th>
<th>More than one year</th>
<th>Fair value</th>
<th>Valuation gain/ (loss)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2020</td>
<td>More than five years</td>
<td>More than ten years</td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>$ 659,882</td>
<td>$ –</td>
<td>$ –</td>
<td>$ –</td>
<td></td>
</tr>
<tr>
<td>Short-term investments</td>
<td>59,372</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Trade receivables</td>
<td>957,313</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Electronically recorded monetary claims</td>
<td>44,397</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Short-term loans receivable included in other current assets</td>
<td>24,592</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 1,745,496</strong></td>
<td><strong>$ –</strong></td>
<td><strong>$ –</strong></td>
<td><strong>$ –</strong></td>
<td></td>
</tr>
</tbody>
</table>

Note: For more detailed information, please refer to the financial statements for March 31, 2020.

The fair value of forward foreign currency exchange contracts is computed using prices provided by counterparty financial institutions.
(b) Derivative transactions to which hedge accounting is applied

The estimated fair value of the derivatives positions outstanding which qualify for deferral/hedge accounting at March 31, 2020 and 2019 is summarized as follows.

<table>
<thead>
<tr>
<th>Method of hedge accounting</th>
<th>Transaction</th>
<th>2020</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Fair value</td>
<td>Fair value</td>
</tr>
<tr>
<td>Swap rates applied to underlying long-term debt</td>
<td>Interest rate swaps</td>
<td>¥ 6,000</td>
<td>¥ 6,000</td>
</tr>
<tr>
<td></td>
<td>Receive / floating and pay / fixed</td>
<td>¥ 2,000</td>
<td>¥ 600</td>
</tr>
<tr>
<td>1. Derivative transactions to which hedge accounting is applied</td>
<td>Forward foreign currency exchange contracts applied to underlying accounts-trade receivable</td>
<td>Selling</td>
<td>U.S. dollars</td>
</tr>
<tr>
<td>1. Derivative transactions to which hedge accounting is applied</td>
<td>Forward foreign currency exchange contracts</td>
<td>Selling</td>
<td>U.S. dollars</td>
</tr>
</tbody>
</table>

*1 Because interest rate swap agreements are accounted for applying swap rates to underlying long-term debt, their fair value is included in that of long-term debt disclosed in Note 14 "Financial Instruments."

*2 Because forward foreign currency exchange contracts are accounted for applying forward foreign exchange rate to underlying accounts-trade receivable, for the years ended March 31, 2020 and 2019, respectively, their fair value is included in that of accounts-trade receivable.

18. Loss Resulting from Low Operating Capacity

The Company recorded loss resulting from low operating capacity in the amount of ¥2,097 million ($19,445 thousand) for the year ended March 31, 2020. This represents fixed costs recorded during the period attributable to some overseas consolidated subsidiaries that had temporarily suspended operations due to the spread of the COVID-19 infection worldwide.

19. Other Comprehensive Income (Loss)

The following table presents the analysis of other comprehensive income (loss) for the years ended March 31, 2020 and 2019.

<table>
<thead>
<tr>
<th></th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>2019</td>
<td>2020</td>
</tr>
<tr>
<td>Net unrealized holding loss on securities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising during the year</td>
<td>¥ (8,528)</td>
<td>¥ (8,254)</td>
</tr>
<tr>
<td>Tax effect</td>
<td>¥ (1,301)</td>
<td>¥ (1,841)</td>
</tr>
<tr>
<td>Total</td>
<td>¥ (9,829)</td>
<td>¥ (10,095)</td>
</tr>
<tr>
<td>Translation adjustments:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising during the year</td>
<td>(13,710)</td>
<td>(1,841)</td>
</tr>
<tr>
<td>Tax effect</td>
<td>(1,841)</td>
<td>(2,114)</td>
</tr>
<tr>
<td>Total</td>
<td>(15,551)</td>
<td>(4,055)</td>
</tr>
<tr>
<td>Retirement benefit liability adjustments:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising during the year</td>
<td>(5,258)</td>
<td>(2,114)</td>
</tr>
<tr>
<td>Tax effect</td>
<td>(2,114)</td>
<td>(1,657)</td>
</tr>
<tr>
<td>Total</td>
<td>(7,372)</td>
<td>(3,771)</td>
</tr>
<tr>
<td>Share of other comprehensive loss of affiliates accounted for by the equity method:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising during the year</td>
<td>(13,710)</td>
<td>(1,841)</td>
</tr>
<tr>
<td>Tax effect</td>
<td>(1,841)</td>
<td>(2,114)</td>
</tr>
<tr>
<td>Total</td>
<td>(15,551)</td>
<td>(4,055)</td>
</tr>
<tr>
<td>Other comprehensive loss, net</td>
<td>¥ (24,429)</td>
<td>¥ (5,692)</td>
</tr>
</tbody>
</table>
20. Income Taxes

Income taxes applicable to the Company and its domestic subsidiaries comprise corporate taxes, inhabitants’ taxes and enterprise taxes which, in the aggregate, resulted in statutory tax rates of 29.9% and 30.0% for the years ended March 31, 2020 and 2019, respectively. Overseas subsidiaries are subject to the income taxes of the respective countries in which they operate.

The details of the differences between the statutory tax rate and effective tax rate for the year ended March 31, 2020 are omitted because the Company and its consolidated subsidiaries recorded a loss before income taxes for the year.

The effective tax rate for the years ended March 31, 2019 differs from the Company’s statutory tax rate for the following reasons:

<table>
<thead>
<tr>
<th>Year ending March 31</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tax loss carryforwards</td>
<td>$19,467</td>
<td>¥108,509</td>
</tr>
<tr>
<td>Liability for retirement benefits</td>
<td>15,601</td>
<td>¥15,503</td>
</tr>
<tr>
<td>Impairment loss</td>
<td>11,492</td>
<td>¥106,560</td>
</tr>
<tr>
<td>Accrued expenses</td>
<td>2,975</td>
<td>¥27,588</td>
</tr>
<tr>
<td>Valuation loss on investment securities</td>
<td>1,462</td>
<td>¥12,644</td>
</tr>
<tr>
<td>Inventories</td>
<td>1,011</td>
<td>¥9,275</td>
</tr>
<tr>
<td>Other</td>
<td>4,941</td>
<td>¥45,816</td>
</tr>
<tr>
<td>Total deferred tax assets</td>
<td>16,599</td>
<td>¥152,061</td>
</tr>
<tr>
<td>Deferred tax liabilities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>(6,459)</td>
<td>$(6,985)</td>
</tr>
<tr>
<td>Unrealized holding gain on securities</td>
<td>(2,172)</td>
<td>$(20,140)</td>
</tr>
<tr>
<td>Reserve for deferred gain on property included in retained earnings</td>
<td>(1,143)</td>
<td>$(10,599)</td>
</tr>
<tr>
<td>Other</td>
<td>(865)</td>
<td>$(4,858)</td>
</tr>
<tr>
<td>Total deferred tax liabilities</td>
<td>(10,639)</td>
<td>$(16,307)</td>
</tr>
<tr>
<td>Net deferred tax assets</td>
<td>$5,760</td>
<td>¥10,072</td>
</tr>
</tbody>
</table>

The tax effects of temporary differences which gave rise to significant portions of the deferred tax assets and liabilities at March 31, 2020 and 2019 are presented below:

<table>
<thead>
<tr>
<th>Year ending March 31</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permanent non-deductible expenses</td>
<td>4,9</td>
<td></td>
</tr>
<tr>
<td>Permanent non-taxable income</td>
<td>(680)</td>
<td></td>
</tr>
<tr>
<td>Elimination of dividend income</td>
<td>96.7</td>
<td></td>
</tr>
<tr>
<td>Equity in earnings of affiliates</td>
<td>(1.0)</td>
<td></td>
</tr>
<tr>
<td>Difference in overseas consolidated subsidiaries’ applicable tax rates</td>
<td>(53.1)</td>
<td></td>
</tr>
<tr>
<td>Increase in valuation allowance</td>
<td>267.2</td>
<td></td>
</tr>
<tr>
<td>Decrease in deferred tax assets due to change in statutory tax rates</td>
<td>(1.7)</td>
<td></td>
</tr>
<tr>
<td>Tax credit for research and development expenses</td>
<td>(1.6)</td>
<td></td>
</tr>
<tr>
<td>Unrealized inter-company profit</td>
<td>29.5</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>6.9</td>
<td></td>
</tr>
<tr>
<td>Effective tax rate</td>
<td>30.8%</td>
<td></td>
</tr>
</tbody>
</table>

The tax effects of temporary differences which gave rise to significant portions of the deferred tax assets and liabilities at March 31, 2019 are presented below:

<table>
<thead>
<tr>
<th>Year ending March 31</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permanent non-deductible expenses</td>
<td>4.9</td>
<td></td>
</tr>
<tr>
<td>Permanent non-taxable income</td>
<td>(680)</td>
<td></td>
</tr>
<tr>
<td>Elimination of dividend income</td>
<td>96.7</td>
<td></td>
</tr>
<tr>
<td>Equity in earnings of affiliates</td>
<td>(1.0)</td>
<td></td>
</tr>
<tr>
<td>Difference in overseas consolidated subsidiaries’ applicable tax rates</td>
<td>(53.1)</td>
<td></td>
</tr>
<tr>
<td>Increase in valuation allowance</td>
<td>267.2</td>
<td></td>
</tr>
<tr>
<td>Decrease in deferred tax assets due to change in statutory tax rates</td>
<td>(1.7)</td>
<td></td>
</tr>
<tr>
<td>Tax credit for research and development expenses</td>
<td>(1.6)</td>
<td></td>
</tr>
<tr>
<td>Unrealized inter-company profit</td>
<td>29.5</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>6.9</td>
<td></td>
</tr>
<tr>
<td>Effective tax rate</td>
<td>30.8%</td>
<td></td>
</tr>
</tbody>
</table>

Note 1: Valuation allowance is increased ¥12,549 million ($116,363 thousand) in the years ended March 31, 2020 and 2019. The main reason for this increase is that valuation allowance for taxable temporary differences increased ¥12,549 million ($116,363 thousand).

Note 2: Tax loss carryforwards and related deferred tax assets as of March 31, 2020 and 2019 expired or will expire as follows:

<table>
<thead>
<tr>
<th>Year ending March 31</th>
<th>Millions of yen</th>
<th>Thousands of U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tax loss carryforwards</td>
<td>$444</td>
<td>$(266)</td>
</tr>
<tr>
<td>Valuation allowance for tax loss carryforwards</td>
<td>528</td>
<td>$(55)</td>
</tr>
<tr>
<td>Deferred tax assets for tax loss carryforwards</td>
<td>1,510</td>
<td>$(262)</td>
</tr>
<tr>
<td>Total deferred tax assets</td>
<td>¥16,616</td>
<td>$(11,118)</td>
</tr>
</tbody>
</table>

(*) The tax loss carryforwards in the above table are measured using the statutory tax rates.

(2) The balance of deferred tax assets of ¥2,080 million ($19,287 thousand) and ¥5,498 million calculated after multiplying the loss amount with the statutory tax rates as of March 31, 2020 and 2019, respectively. A certain portion of tax loss carryforwards was considered to be recoverable in future income taxes because it is probable that future taxable profit would be available.
21. Amounts per Share

Amounts per share at March 31, 2020 and 2019 and for the years then ended were as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>U.S. dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>¥ 294.00</td>
</tr>
<tr>
<td>2019</td>
<td>¥ 431.32</td>
</tr>
<tr>
<td>2020</td>
<td>¥ 3,773</td>
</tr>
</tbody>
</table>

Loss attributable to owners of parent:

<table>
<thead>
<tr>
<th>Basic</th>
<th>(82.83)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(13.10)</td>
<td>(8.77)</td>
</tr>
</tbody>
</table>

Cash dividends:

| 5.00 | 15.00 |
| 0.05 | 0.05 |

Amounts per share of net assets are computed based on the number of shares of common stock outstanding at the year end.

Basic loss attributable to owners of parent per share is computed based on the profit or attributable to owners of parent of common stock and the weighted-average number of shares of common stock outstanding during the year. Diluted profit attributable to owners of parent per share has not been presented because there were no potentially dilutive shares of common stock, and the Company and consolidated subsidiaries recorded loss attributable to owners of parent for the years ended March 31, 2020 and 2019.

The Company recorded shares held by the “Officer Remuneration IPR Trust” (Please refer to Note 5) as treasury stock in the consolidated financial statements as of March 31, 2020 and 2019. Accordingly, to compute “net assets per share,” the Company’s shares held by the trust (472,656 shares and 479,761 shares at March 31, 2020 and 2019, respectively) are included in treasury stock that is excluded from the number of shares outstanding as of March 31, 2020 and 2019. In addition, to compute “Loss attributable to owners of parent per share,” the Company’s shares held by the trust (474,363 and 516,314 average number of shares for the years ended March 31, 2020 and 2019, respectively) are included in treasury stock that is excluded from the computation of the average number of shares for the years ended March 31, 2020 and 2019.

Cash dividends per share represent the cash dividends proposed by the Board of Directors as applicable to the respective years together with the interim cash dividends paid.

22. Segment Information

1. Outline of reporting segments

The Group’s segment information is derived from its Business Segments which are divisions of the Group for which separate financial information is available, and whose operating results are reviewed regularly by the highest management decision-making body (the Board of Directors meeting of the Company) in order to allocate management resources and assess performance of operations.

The Group’s main business lines consist of the manufacture and sales of bearings, CVJs and precision equipments for the aftermarket, general industrial machinery market, and automotive market. Business activities in Japan are controlled by the Company (the Head Office), and overseas business activities are controlled by the General Manager responsible in each region. Business entities in each region prepare their own plans and strategies to conduct business activities in their respective regions.

2. Calculation methods used for net sales, profit or loss, assets, liabilities, and other items on each reporting segment

The accounting policies of the segments are substantially the same as those described in Note 2 “Summary of Significant Accounting Policies.” Inter-segment sales and transfers are recorded at the same prices used in transactions with third parties.

(Application of IFRS 16)

Certain overseas consolidated subsidiaries have applied IFRS 16, “Leases,” from the beginning of the fiscal year ended March 31, 2020. The cumulative effect of applying IFRS 16 was recognized by adjusting the amounts of tangible fixed assets, intangible fixed assets, lease liabilities and retained earnings at the beginning of the fiscal year ended March 31, 2020, in accordance with the transitional treatment provided in this standard. However, the amounts recorded for the previous fiscal year ended March 31, 2019 have not been revised. In addition, the effects of applying IFRS 16 on segment information are immaterial.

3. Information as to net sales, profit or loss, assets, liabilities, and other items for each reporting segment for the years ended March 31, 2020 and 2019

Reportable segment information for the years ended March 31, 2020 and 2019 is summarized as follows:

<table>
<thead>
<tr>
<th>Reporting segments</th>
<th>Japan</th>
<th>Americas</th>
<th>Europe</th>
<th>Asia and other areas</th>
<th>Total</th>
<th>Adjustments</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales, profit and assets or liabilities by reporting segments:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net sales:</td>
<td>¥ 735,569</td>
<td>¥ 179,827</td>
<td>¥ 142,806</td>
<td>¥ 733,569</td>
<td>–</td>
<td>¥ 733,569</td>
<td></td>
</tr>
<tr>
<td>Inter-segment sales and transfers:</td>
<td>¥ 123,225</td>
<td>¥ 7,363</td>
<td>¥ 10,488</td>
<td>¥ 130,081</td>
<td>–</td>
<td>¥ 130,081</td>
<td></td>
</tr>
<tr>
<td>Total:</td>
<td>¥ 858,794</td>
<td>¥ 187,190</td>
<td>¥ 153,294</td>
<td>¥ 863,650</td>
<td>–</td>
<td>¥ 863,650</td>
<td></td>
</tr>
<tr>
<td>Segment profit or loss:</td>
<td>¥ 235,340</td>
<td>¥ 101,592</td>
<td>¥ 38,182</td>
<td>¥ 274,114</td>
<td>–</td>
<td>¥ 274,114</td>
<td></td>
</tr>
<tr>
<td>Segment liabilities:</td>
<td>¥ 609,316</td>
<td>¥ 176,303</td>
<td>¥ 131,803</td>
<td>¥ 657,422</td>
<td>–</td>
<td>¥ 657,422</td>
<td></td>
</tr>
<tr>
<td>Other items:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization:</td>
<td>¥ 13,424</td>
<td>¥ 9,719</td>
<td>¥ 7,563</td>
<td>¥ 37,970</td>
<td>–</td>
<td>¥ 37,970</td>
<td></td>
</tr>
<tr>
<td>Capital expenditures:</td>
<td>¥ 38,754</td>
<td>¥ 18,047</td>
<td>¥ 6,097</td>
<td>¥ 67,890</td>
<td>–</td>
<td>¥ 67,890</td>
<td></td>
</tr>
</tbody>
</table>

Sales, profit or loss, assets, liabilities, and other items for each reporting segment for the years ended March 31, 2020 and 2019 are presented because there were no potentially dilutive shares of common stock, and the Company and consolidated subsidiaries recorded loss attributable to owners of parent for the years ended March 31, 2020 and 2019.

Inter-segment sales and transfers are recorded at the same prices used in transactions with third parties.

The accounting policies of the segments are substantially the same as those described in Note 2 "Summary of Significant Accounting Policies." Inter-segment sales and transfers are recorded at the same prices used in transactions with third parties.

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### Sales by products and service classified by the similarity of the market for the years ended March 31, 2020 and 2019

<table>
<thead>
<tr>
<th>Reporting segments</th>
<th>Japan</th>
<th>Americas</th>
<th>Europe</th>
<th>Asia and other areas</th>
<th>Total</th>
<th>Adjustments</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales to third parties</td>
<td>¥ 1,394,316</td>
<td>¥ 1,373,214</td>
<td>¥ 1,418,627</td>
<td>¥ 1,346,682</td>
<td>¥ 6,014,040</td>
<td>¥ 6,014,040</td>
<td></td>
</tr>
<tr>
<td>Inter-segment sales and transfers</td>
<td>1,147,258</td>
<td>11,072</td>
<td>28,355</td>
<td>104,469</td>
<td>1,291,149</td>
<td>(1,291,149)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,551,574</td>
<td>1,384,286</td>
<td>1,442,62</td>
<td>1,451,141</td>
<td>7,332,689</td>
<td>(7,331,140)</td>
<td>6,014,040</td>
</tr>
</tbody>
</table>

*Sales categorized by country and region based on locations of customers within the Group for the years ended March 31, 2020 and 2019 are summarized as follows:*

#### (1) Sales by products and service

- **Aftermarket**
  - Machinery: ¥ 109,417
  - Aerospace: ¥ 105,072
  - Automotive: ¥ 355,032

- **Industrial machinery**
  - Machinery: ¥ 104,182
  - Aerospace: ¥ 79,046
  - Automotive: ¥ 48,400

- **Capital expenditures**
  - Machinery: ¥ 124,475
  - Aerospace: ¥ 78,120
  - Automotive: ¥ 45,225

- **Depreciation and amortization**
  - Machinery: ¥ 68,274
  - Aerospace: ¥ 63,062
  - Automotive: ¥ 345,032

- **Other items:**
  - Transfers: ¥ (360,007)

### Property, plant and equipment categorized by country and region within the Group at March 31, 2020 and 2019

<table>
<thead>
<tr>
<th>Property, plant and equipment in Japan</th>
<th>Americas</th>
<th>Europe</th>
<th>Asia and other areas</th>
<th>Total</th>
<th>Adjustments</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>¥ 183,931</td>
<td>¥ 1,616,283</td>
<td>¥ 1,305,939</td>
<td>¥ 1,282,887</td>
<td>¥ 6,041,040</td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>¥ 177,991</td>
<td>¥ 1,575,214</td>
<td>¥ 1,414,827</td>
<td>¥ 1,146,683</td>
<td>¥ 6,041,040</td>
<td></td>
</tr>
</tbody>
</table>

*Property, plant and equipment categorized by country and region within the Group at March 31, 2020 and 2019 are summarized as follows:*

#### (b) Property, plant and equipment

- **Aftermarket**
  - Machinery: ¥ 931,652
  - Aerospace: ¥ 724,373
  - Automotive: ¥ 419,352

- **Industrial machinery**
  - Machinery: ¥ 724,975
  - Aerospace: ¥ 568,535
  - Automotive: ¥ 43,507

- **Capital expenditures**
  - Machinery: ¥ 359,349
  - Aerospace: ¥ 167,342
  - Automotive: ¥ 43,507

- **Depreciation and amortization**
  - Machinery: ¥ 124,475
  - Aerospace: ¥ 90,120
  - Automotive: ¥ 68,274

- **Other items:**
  - Transfers: ¥ (386)

### Sales categorized by country and region within the Group for the years ended March 31, 2020 and 2019

<table>
<thead>
<tr>
<th>Sales categorized by country and region</th>
<th>Japan</th>
<th>Americas</th>
<th>Europe</th>
<th>Asia and other areas</th>
<th>Total</th>
<th>Adjustments</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>¥ 197,996</td>
<td>¥ 174,388</td>
<td>¥ 140,839</td>
<td>¥ 138,353</td>
<td>¥ 651,496</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>¥ 207,249</td>
<td>¥ 201,464</td>
<td>¥ 167,826</td>
<td>¥ 157,030</td>
<td>¥ 732,569</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5. Loss on impairment of fixed assets
Loss on impairment of fixed assets by reporting segment for the years ended March 31, 2020 and 2019 is summarized as follows:

<table>
<thead>
<tr>
<th></th>
<th>Japan</th>
<th>Americas</th>
<th>Europe</th>
<th>Asia and other areas</th>
<th>Adjustments</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2020</strong></td>
<td>¥21,955</td>
<td>¥3,718</td>
<td>¥1,536</td>
<td>¥ –</td>
<td>¥ –</td>
<td>¥29,001</td>
</tr>
<tr>
<td><strong>2019</strong></td>
<td>¥16,053</td>
<td>¥ –</td>
<td>¥ –</td>
<td>¥ –</td>
<td>¥ –</td>
<td>¥16,053</td>
</tr>
</tbody>
</table>

23. Subsequent Event

1. Suspension of plant operations
The Company and its consolidated subsidiaries temporarily suspended production at some domestic and overseas plants even after April, 2020 at the request of the government in each country and due to decreased customer demand. At the present time, it is difficult to reasonably estimate the impact on the Group’s financial position, business results and cash flow.

2. Significant borrowings
The Company 1) borrowed funds and 2) entered into a commitment line contract below to mitigate liquidity risk due to the effects of the novel coronavirus infection disease.

1. Purpose of funds: working capital
2. Financial institutions: MUFG Bank, Ltd. and Development Bank of Japan Inc.
3. Amounts:
   1) Borrowings: ¥30,000 million (interest rate is based on the market interest rate)
   2) Commitment line contract: ¥70,000 million (maximum amount) (no borrowings under such commitment line contract at the moment)
4. Borrowing date: Starting from May 18, 2020
5. Term: Maximum of 3 years
6. Pledged assets: Yes (land, building and structure and investments in securities)
The following changes to the scope of consolidation and application of the equity method were made during the fiscal year under review.

### Americas

- **NTN USA CORP.** USD 1,000,000,000 (100)
- **NTN BEARING CORP. (THAILAND) CO., LTD.** THB 700,000,000 (100)
- **NTN R&D CENTER, INC.** USD 100,000,000 (100)

### Europe

- **NTN-Wälzlager (Europa) G.m.b.H.** EUR 14,500,000 (100)
- **NTN-SNR ROULEMENTS (EUROPE) SA** EUR 123,599,542 (100)
- **NTN TRANSMISSIONS EUROPE** EUR 82,843,207 (100)

### Asia and Others

- **Guangzhou NTN-Yulon Drivetrain Co., Ltd.** USD 12,500,000 (12)
- **BEIJING NTN-SEOHAN DRIVESHAFT CO., LTD.** USD 6,000,000 (40)
- **NTN-DONGPAI (Shanghai) Bearing Sales Co, Ltd.** USD 1,460,000 (25)
- **PT. Astra NTN Driveshaft Indonesia** IDR 120,000,000,000 (49)
- **NTN-LYC (LUOYANG) BEARING CORP.** USD 73,800,000 (50)

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**NOTES:**

1. The scope of consolidation as of March 31, 2020 consisted of NTN Corporation and 57 consolidated subsidiaries (13 domestic and 44 overseas subsidiaries). A total of 10 affiliates (all overseas affiliates) were accounted for by the equity method.

2. Of the above subsidiaries, the following companies are specified subsidiaries: NTN USA CORP., NTN DRIVESHIFT, INC., NTN-BOWER CORP., NTN da Brasil Produção de Semi-Eixos Ltda, NTN NEXCO, NTN BOWER, NTN DO BRASIL PRODUÇÃO DE SEMI-EIXOS LTDA., NTN BEARING CORPORATION, NTN SALES JAPAN CORP., and SHANGHAI NTN Corporation.

3. Figures in curved brackets under "Holding as percentage" indicate the percentage of indirectly owned holdings, and are included in the total holding.

4. None of the companies has submitted a securities registration statement or securities report.

5. Of the above subsidiaries, NTN-BEARING CORP. OF AMERICA and NTN-SNR have sales (including internal sales between consolidated companies) accounting for more than 10% of consolidated sales. Figures for NTN-SNR are consolidated figures comprising eight NTN-SNR subsidiaries.

6. Of the above subsidiaries, **[ ]** are NTN Corporation business units, 1 to 25 and 28 to 51 (in symbols **[ ]**) are consolidated subsidiaries, and 26, 27 and 52 to 59 (in symbols **[ ]**) are affiliates subject to the equity method.
A sense of crisis is spreading to the message of top management. Many companies around the world are struggling with COVID-19, and your company has positioned the term ending March 2021 as the "crisis response period." In this situation, I believe it was a good idea for NTN to strengthen its ESG management and to demonstrate its unchanged stance in responding to climate change. "Green recovery" has been advocated mainly in Europe, and the recovery from the pandemic is being linked to the creation of a green economy. I hope that NTN will strongly contribute to that move and turn the crisis into an opportunity.

This has also increased attention to the issue represented by ESG's "S." The existence of people who are unable to take measures against infectious diseases underscores that economic inequality is exactly the inequality of life. Your company cites "ensuring the health and safety of employees" as one of the three principles of its CSR activities. In Europe and North America, Black Lives Matter is garnering attention as a movement for social equity. In the future, I think that efforts for "S" will be even more important, and the NTN Group is being praised for its efforts to "secure cash and continue business" and "prepare for future growth" in the event of emergencies.

With regard to the corporate governance, we shifted to a "Company with a Nominating Committee," which is being actively discussed in Europe and North America. In addition, the key issues discussed by the Sustainability Committee will be resolved by Board of Directors from a broader, higher and longer-term perspective, those Directors who are sufficiently familiar with the materiality, are to be made by Board of Directors, however, it is also seriously affected. Amid this environment, we have positioned the fiscal year ending March 31, 2021. The spread of the new coronavirus has caused global economic activity to shrink, and the NTN Group is also seriously affected. Amid this environment, we have positioned the fiscal year ending March 31, 2021. Initially, I thought that a skill matrix should include "knowledge on sustainability," but director selection criteria includes "Must have excellent insight and foresight concerning changes to the overall environment and to society," indicating that the ability related to sustainability is regarded as qualifications rather than skills. A woman has joined Board of Directors for the first time, and diversity has increased. The ratio of Outside Directors is also high, and it conveys the intention to make the "G (Governance)" of ESG work properly.

In this sense, it is somewhat regrettable that you have a sustainability-related committee only on the executive side. Of course, executives should be in charge of practical operations, and the final decisions, such as on the identification of materiality, are to be made by Board of Directors, however, it would be an idea to formally position Outside Directors as the center of the framework that will be the counterpart of the sustainability committee of the executive team. I hope that from a broader, longer-term perspective, those Directors will hold discussions about how the Company will confront global issues such as climate risks and social risks of social division and how the Company will fulfill its social roles.

Management and strategy

We would like to thank Professor Mizuguchi for his valuable opinions. We have positioned the fiscal year ending March 2021 as a crisis response period, and in the section of "Prepare for future growth," which is a part of the Business Operating Policy, we aim to identify key issues (materiality) that we must prioritize, and to contribute to the achievement of SDGs by putting our response to key issues into our business strategy. This fiscal year, we established a new Human Rights Policy. This represents our commitment to encouraging the respect of human rights not only within the Group but also at the Group's suppliers, and we will build a mechanism for human rights due diligence that will address the challenges that are occurring worldwide. We believe that addressing global issues such as climate risks and social division is an extremely important perspective. In addition, the key issues discussed by the Sustainability Committee will be resolved by Board of Directors from a long-term view, and we will work to take them into account when setting a major direction of management.

We will listen sincerely to the valuable opinions we have received and strive to increase corporate value over the medium to long-term.

Mizuguchi specializes in responsible investment and non-financial information disclosure. After working at a trading company and auditing firm, Mizuguchi became a lecturer of the Faculty of Economics at Takasaki City University of Economics in 1997. He assumed his present role in 2008. Mizuguchi speaks on responsible investment, and non-financial information disclosure.

ESG Investment—Form of the New Capitalism

An Era

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