

growth as well.

Maximization of returns to shareholders through efficient use of assets

company committed to the constant creation

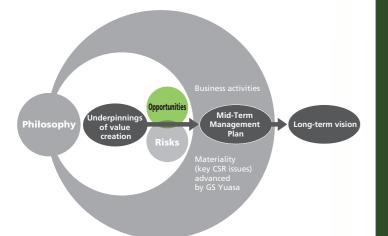
Innovation supported by enhanced technological

maintaining and expansion

# **Opportunities**

In addition to the US-China trade problem and the economic slowdown in Europe, the sudden outbreak of the novel coronavirus pandemic in 2020 has had a major impact. As a result, the world economy is becoming increasingly opaque. At the same time, however, the risks of climate change, such as the advance of global warming and the increase in the number of large-scale natural disasters, remain as serious as ever, so the trends toward the curbing of CO<sub>2</sub> emissions and the dispersion and stabilization of electricity supply sources look likely to continue in the medium and long term.

Our Group will continue to grow in a sustained manner by accurately grasping social, market, and technological trends, displaying technological development capabilities in our strong fields, and maintaining our competitiveness.



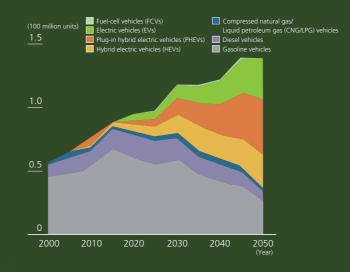
# Diffusion of eco-friendly cars

Amid the tightening of environmental controls on the more than 1.3 billion vehicles on the road worldwide, the diffusion of HEVs and EVs is progressing. And even in the case of conventional gasoline vehicles, the standardization of fuel-saving start-stop functions is advancing.

Our Group's products are playing an important role in this shift to eco-friendly vehicles and the electrification of automobiles.



#### Global market forecast for automobiles



Source: International Energy Agency, Energy Technology Perspectives 2017

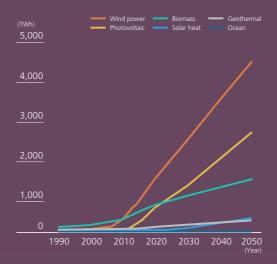
### **Z** Expanding renewable energy

Since worldwide energy demand is increasing as a result of burgeoning populations and economic growth, it is necessary to expand the use of renewable energy to replace fossil fuels.

Our Group's products, which are essential for the effective use of energy from photovoltaic or wind power generation, are attracting much attention.



#### Renewable energy worldwide\* (Amount generated)



\*Excluding hydroelectric power generation. Source: The Institute of Energy Economics, Japan, *IEEJ Outlook 2019* 

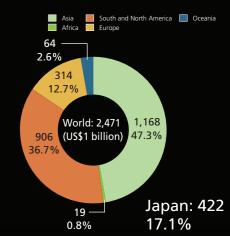
# Strengthening electric power and information infrastructure

If the supply of electricity were cut off, the activities of modern society would instantly come to a halt. Therefore, batteries and power-source devices for backup power supplies in times of disaster are becoming increasingly important.

Our Group's products are safeguarding society's basic infrastructure and contributing to business continuity in office buildings and plants in the event of a large natural disaster.



#### Regional distribution of the world's disaster costs



\*Total for 1984–2013. Compiled by the Asian Disaster Reduction Center based on materials of the Centre for Research on the Epidemiology of Disasters (CRED). Source: Cabinet Office, *White Paper on Disaster Management in Japan 2015*, Table 3

## **Risks**

Our Group, which supplies products to the growth industries of automobiles and social infrastructure, is constantly vying with competition in the global market and technological development. It is also important for us to keep a close eye on supply-demand balances and price fluctuations caused by the properties of raw materials.

Identifying the various risks associated with our business and their degree of importance, we will continue to conduct sound and positive management from a medium- to long-term perspective.

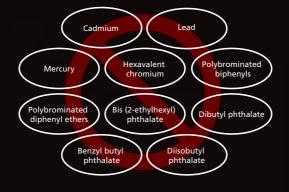


### **Raw material restriction**

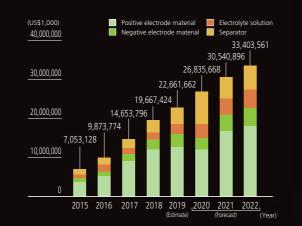
Lead is included as a restricted substance in the European Union's RoHS Directive and ELV (End-of-Life Vehicles) Directive. This tightening of restrictions could have repercussions worldwide. Furthermore, there is concern that the increase of eco-compliant vehicles will lead to a rise in the price and supply shortages of such rare metals as lithium, nickel, cobalt, and manganese.

Since lead and rare metals are the main raw materials for our products, these trends could exert an impact on our Group's production activities.

#### **RoHS directive: 10 restricted substances**



#### Four principal components of lithium-ion batteries Global market scale trends and forecasts



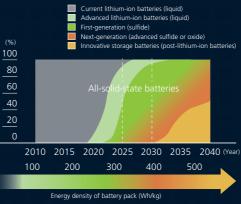


### Changes in the market environment

Automobiles, which are the main application of our Group's products, are a growth industry in which technology is evolving all the time.

It is necessary for us to implement strategies that accurately grasp changes in the market, such as the rapid rise of eco-friendly vehicles as a result of the tightening of exhaust-gas emissions; the emergence of alternative, post-lithium-ion batteries; the drift of young people away from cars; and the diffusion of car-sharing services.

#### Assumed technological shift of EV batteries



Source: New Energy and Industrial Technology Development Organization (NEDO), news release of June 15, 2018

#### Number of car-sharing vehicles in five regions worldwide



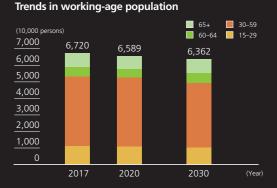
Source: Daiwa Institute of Research Group, Policy Analysis Report, "Rapidly Expanding Car Sharing and the Future Mobility Society (1)"

## **Supply-chain fluctuations**

Lead-acid batteries and automotive lithium-ion batteries, which are the mainstays of our Group, are both products that are easily impacted by the market conditions of raw material suppliers and customers. The cobalt required for lithium-ion batteries is a conflict mineral and also entails the risk of child labor. Proper supply-chain management and the ensuring of stable supply and demand are essential.

#### **Retention of human resources**

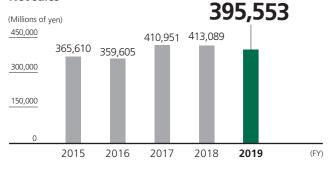
In Japan, the decline of the working-age population due to aging and the low birthrate is emerging as a common risk for companies. To strengthen our corporate competitiveness by securing talented human resources and enhancing labor productivity, our Group believes it is important to provide employees with workplace environments in which everyone can fully display their abilities, enjoy good physical and mental health, and continue to work zealously, regardless of gender, age, and so on.



#### Source: Ministry of Health, Labour and Welfare, Annual Health, Labour and Welfare Report 2018

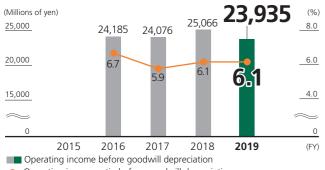
# **Financial Highlights**

#### Net sales



Net sales were down year-on-year due primarily to lower sales prices in conjunction with lower prices for lead in the automotive battery business as well as effects from yen appreciation.

#### Operating income before goodwill depreciation/ Operating income ratio before goodwill depreciation



Operating income ratio before goodwill depreciation

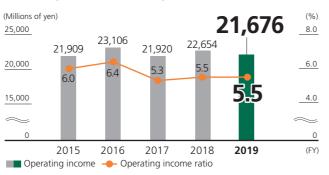
Operating income before goodwill depreciation was down year-on-year because of the decline in operating income.

#### Total equity before noncontrolling interests/ Shareholders' equity ratio



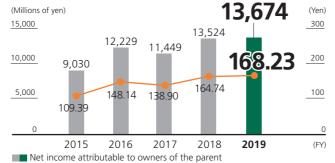
Total equity before noncontrolling interests was down year-on-year despite an increase in net income attributable to owners of the parent. The main factors were payment of dividends. acquisition of treasury shares, a decrease in foreign currency translation adjustments due to changes in exchange rates, and a decline in the valuation difference of other securities in conjunction with lower share prices.

#### Operating income/Operating income ratio



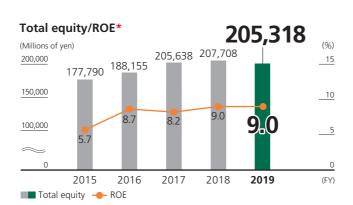
Despite strong sales of stationary lead-acid batteries and power supplies and effects from lower raw materials costs, operating income was down year-on-year due to a deterioration of profitability in the automotive lithium-ion battery business.

#### Net income attributable to owners of the parent/ Earnings per share



---- Earnings per share

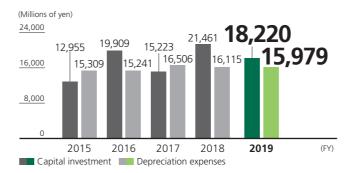
Net income attributable to owners of the parent reached a record high as a result of changes in income taxes and adjustments and other factors.



As a result of efficient operation shareholders' equity and an increase in net income attributable to owners of the parent, ROE, an indicator of management efficiency, was flat from the previous year.

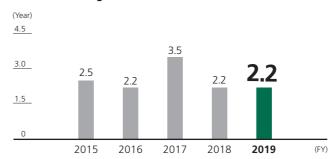
\* Since FY2016, ROE has been calculated based on income before goodwill depreciation.

#### Capital investment/Depreciation expenses



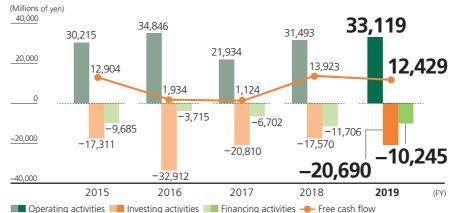
Strategic capital investments were made as planned in Tianjin, China, and Hungary, but capital investment was down year-on-year based on investigation and implementation of investment needed in light of market conditions and other factors.

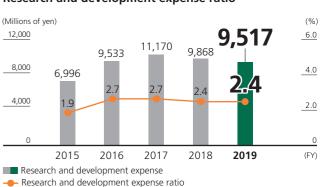
#### Interest-bearing debt to cash flow ratio



Despite an increase in cash flows from operating activities, interest-bearing debt increased with the application of IFRS 16 (Leases) to overseas subsidiaries starting in fiscal 2019, and the ratio of interest-bearing debt to cash flows remained at the same level as in the previous year.

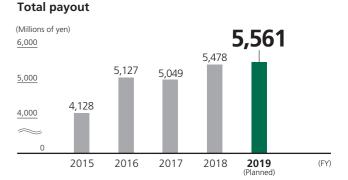
#### Cash flows from operating activities, investing activities, and financing activities





Research and development expense/ Research and development expense ratio

R&D expense was down year-on-year, but we are actively conducting R&D with a focus on the lithium-ion battery business. The ratio of R&D expense to sales was flat from the previous year.



We plan to acquire a total of 1.5 billion ven in treasury shares as a part of shareholders returns. We plan to increase the total amount of shareholder returns compared to the previous year with the effects of the share buyback taken into account.

#### **Cash Flows from Operating Activities**

Income taxes and other taxes were paid, but as a result of profit before income taxes, depreciation and amortization, receipt of dividends, receipt of advance payments in conjunction with orders for large projects in the industrial battery and power supply business, and other factors, cash flows from operating activities were up ¥1,626 million from the previous year.

#### **Cash Flows from Investing Activities**

Cash flows used in investing activities were down ¥3,120 million from the previous year, primarily as a result of purchase of property, plant, and equipment.

#### **Cash Flows from Financing Activities**

Borrowings were repaid, treasury shares were acquired, dividends were received, and other factors affected cash flows, and cash flows used in financing activities were down ¥1,461 million from the previous year.

# **Non-Financial Highlights**

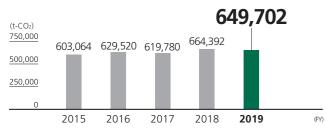
Notes. Scope of application Japan: Subsidiaries in Japan; Overseas: Subsidiaries and affiliates subject to the equity method in countries other than Japan; Global: Japan and overseas, however, not all subject companies are included in some instances.

## Percentage of environmentally considered products in total sales of all products (global)



In fiscal 2019, the target was achieved by increasing sales of vehicles with start-stop systems (ISS: idling stop systems), which achieve low fuel consumption, as well as products for power generation systems that utilize renewable energy and other products.

#### CO2 emissions in production\* (global)



The CO<sub>2</sub> emissions reduction target (at least 2% from fiscal 2018) was achieved by implementing energy-saving measures in production processes.

. \* We have been expanding the scope of application since fiscal 2018.

### Conflict mineral\* survey implementation ratio (global)

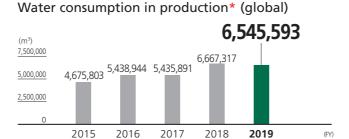


In fiscal 2019, all matters concerning surveys of conflict minerals based on customer needs were handled by cooperating with suppliers. We start operation of a cobalt survey in fiscal 2020. We also established a Responsible Mineral Procurement Policy that can respond to changes in minerals subject to survey and risks and undertake measures that mitigate various CSR procurement risks in the mineral supply chain.

\* Minerals that are extracted in conflict regions and provide financial resources to armed groups. Conflict minerals refers specifically to gold, tantalum, tungsten, and tin products originating in the Democratic Republic of Congo and neighboring countries. Ratio of recycled lead used as lead raw materials in lead-acid batteries (global)



The rate of use of recycled lead by overseas Group companies increased in fiscal 2019, and the amount of recycled lead used in lead-acid batteries greatly exceeded the initial plan.



In the future, we will continuously undertake activities to promote the reuse of water so that we can achieve our water use reduction targets.

\* We have been expanding the scope of application since fiscal 2018.

### Achievement ratio of supplier CSR issues improvement plan (global)



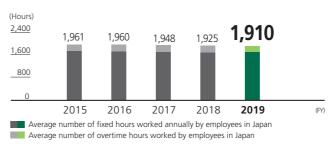
In fiscal 2019, we performed supplier audits relating to CSR issues identified based on the results of a supplier CSR survey. In the future, we will reduce CSR procurement risks even further by conducting surveys with an expanded scope of application.

Number of serious product incidents (global)



As a result of priority implementation of product safety education for employees, the number of serious products accidents was zero in fiscal 2019. We will continuously improve product safety management.

#### Annual working hours\* (Japan)



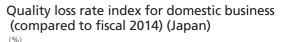
The Group is taking measures to manage appropriate working hours and implementing work style reforms. We believe that continuously implementing these activities is essential for maintaining comfortable working environments.

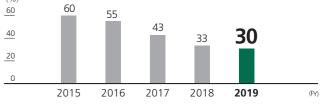
\* Notes: Employees do not include personnel on leave or those transferred to workplaces overseas. Period: January to December Annual working hours= Average number of fixed hours worked annually by employees in Japan+ Average number of overtime hours worked by employees in Japan

# Achievement ratio of response plan for intellectual property infringement by imitation products (Overseas)



We conducted our second survey in countries subject to monitoring in fiscal 2019 and worked with government officials in Vietnam, Indonesia, and Laos to expose imitation products.





The trend has been downward compared to fiscal 2014. Going forward, we will undertake further quality improvement measures and seek to achieve our quality loss targets.

\* The index is shown with the fiscal 2014 quality loss index set at 100. Quality loss rate: The loss ratio occurring during product manufacturing and sales.)

### Achievement ratio of training plan to support employee growth (global)



In fiscal 2019, we again implement rank-specific education and quality education in accordance with an annual plan. In addition to enhancing employees' problem-solving capabilities, we also undertake measures to support future career development.

#### Number of significant compliance violations



In fiscal 2019, the Group did not commit any significant compliance violations.