Chapter 3

Our Medium- and Long-Term Management Strategy

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PHOTO
Japan / Rainbow Bridge
Aiming to achieve MSV by executing our medium- and long-term management strategy based on Asset Assembler model

Nippon Paint is implementing its medium- and long-term management strategy based on Asset Assembler model for pursuing MSV. On this page, Yuichiro Wakatsuki, Director, Representative Executive Officer & Co-President, explains the approach and direction of this unique management strategy along with the competitive advantages concerning M&A, financial, and capital management strategy.

Q&A with Co-President Wakatsuki on Our Medium- and Long-Term Management Strategy

Yuichiro Wakatsuki
Director, Representative Executive Officer & Co-President

Q.1 Please explain Group management strategy based on Asset Assembler model.

We are implementing a strategy of expanding businesses by going beyond paint and coatings into adjacencies (Paints+) over the medium and long term. (See “Message from Co-President Wakatsuki” on page 17.) Our goal is to maximize EPS and PER by leveraging this unique business model that sets us apart from competitors.

Asset Assembler model is a model in pursuit of MSV which gives us a competitive advantage to growth with limited PMI risk following M&A.

The key point of this model is that our outstanding management team of every partner company can pursue autonomous growth within our Group through proactively leveraging various resources in our worldwide platform, such as technical capabilities, an extensive distribution network, purchasing power, know-how, and powerful brands, rather than being imposed from NIPF headquarters. This will allow the Group to acquire a broad range of new businesses and to drive steady growth of existing businesses.

This unique model is backed by the following strengths:

1. Focused on paint and adjacencies with significant market opportunities
2. Attractive risk-return profile of paint and adhesives
3. An assembly of talented management and strong brands
4. Domestic enhanced competitive strength
5. Advanced governance

We will leverage these strengths for maximizing EPS and PER. (See “Strengths Underpinning Our Business Model” on page 17.) For information about specific actions and the growth strategy for each region and business, see “Medium- and Long-Term Business Strategy That Reflects Regional Characteristics and Structural Changes in Markets” on page 61.

In particular, the adjacencies area including SAF (Sealants, Adhesives & Fillers) and CC (Construction Chemicals) can produce significant synergies due to overlaps with the characteristics of the paint and coatings market. Examples include the importance of distribution channels and brands for high entry barriers in the paint and coatings market.

As shown in the diagram on page 35, Nippon Paint Group as a whole will become larger and stronger as we build up earnings, brands and the knowledge of newly acquired companies on top of driving steady growth of existing businesses.

Our goal is to maximize EPS and PER by leveraging this unique business model that sets us apart from competitors.

Q.2 Please explain the competitive advantages and strengths of the M&A strategy of Nippon Paint.

Asset Assembler model is structured to produce synergies for growth at both existing businesses and newly acquired companies, which are different from the Western-style cost-cutting synergies model. This has resulted in accelerated earnings growth at these companies than prior to joining our Group.

Generally speaking, not a few overseas M&A deals by Japanese companies result in impairment losses a few years after the acquisition. However, all our acquisitions after FY2019, when we started to conduct M&A in a more aggressive manner, have delivered better-than-expected results. This is due to the successful leverage of the five strengths underpinning Asset Assembler model.

Let me explain the key points of our M&A.

1. The paint and coatings industry is characterized by sustained growth potential and profitable cash flow generation. In addition, companies can procure funds at lower interest rates in the current financial market in Japan compared to prior years. As a result, the market environment for M&A is very favorable.

The decorative paints market, which accounts for more than 50% of the total paint market, is characterized by local production for local consumption. As a result, the optimal business model for the decorative paints business differs significantly from country to country and market to market. What is critical is the procurement of raw materials, consumer preferences, distribution networks and environmental regulations.

Paint and coatings, and particularly decorative paints, have a very low threat of alternative products and strong local features. Due to these characteristics, the keys to success in the paint and coatings business are: 1) strong brands, 2) extensive distribution network, and 3) operations by management well versed in local markets. If we acquire the No. 1 market share based on these strengths, competitors cannot easily turn the tables. Then, the No. 1 player can create a virtuous cycle of further increasing its market share and earnings.

Strengths of Nippon Paint Group’s M&A based on the characteristics of the paint and coatings market are as shown in the diagram below. I cannot talk about specific target companies and regions. What I can tell you is that the key criteria are that acquisition targets, regardless of business category and region, must contribute to MSV. In particular, acquisitions must contribute to EPS starting in the first year and have an attractive risk-return profile.

A

Q

Key points of the M&A strategy

- Targets
  - Business segments: Paint decorative/industrial and adjacencies
  - Geography: Not limited
  - Potential target: Strong corporate/product brand and excellent management team

- Our Strengths
  - Financial soundness
  - Ability to finance in Japan, with stable currency
  - Full access to Nippon Paint Group’s platform
  - Excellent management teams enabling autonomous and decentralized business model

- Financial Discipline
  - Contribution to EPS
  - Reduced M&A activity
  - Smooth leverage capacity
  - Debt financing prioritized; equity-based capital raising remains an option

- Aim to achieve EPS accretion in Year 1 after acquisition and maximize capital efficiency in consideration of stability of EPS, secure financial structure, and prioritization of EPS. EPS accretion is also a must in case of equity financing

*1 Return on invested capital (after one-off expenses)
*2 Weighted average cost of capital

Our business model is not based on the Western-style global standardization and cost cutting program. Rather, we bring in excellent companies that have good prospects for a sustained contribution to EPS. We allow these companies to pursue autonomous growth while promoting collaboration with our partner companies worldwide and providing financial support. We believe this is the right business model for creating value over the medium and long term in the paint and adjacencies businesses, which are characterized by local production for local consumption. Our M&A strategy is under review and we plan to release the details in the next report.

We have received questions from investors about how we examine and make decisions about potential M&A deals. What is the secret to our “ability to tell good from bad”? So, let me dig a little deeper into this.

The only basis of judgment about a potential deal is whether it will contribute to MSV. For instance, we never consider an acquisition merely to make us bigger, to become the company with the largest revenue in the world, or based on an egotistic agenda of management to build a big track record. Even if we become No. 1 in terms of revenue, it would be meaningless if our shareholder value is impaired in the process of reaching that point.

When we examine a specific acquisition, we perform a sensuous assessment of the target company and regions. What I can tell you is that the key criteria are that acquisition targets, regardless of business category and region, must contribute to MSV. In particular, acquisitions must contribute to EPS starting in the first year and have an attractive risk-return profile.
Q&A with Co-President Wakatsuki on Our Medium- and Long-Term Management Strategy

Q.3 Please give your thoughts about financial strategy that drives Asset Assembler model.

We believe it is essential to secure stable funds through our financial strategy in order to maximize the benefits of Asset Assembler model that aims to accelerate growth through business and M&A.

Optimal capital structure:
The key elements of our financial discipline are the following: (1) Prioritizing debt financing. (2) Maintaining sufficient leverage capacity and enhancing engagement with financial institutions and rating agencies, and (3) Equity-based capital raising remaining an option with EPS accretion as a premise. The paint and adjacencies businesses have a very high cash generation capability. In addition, our Japan domestic gives us the ability to obtain funds at our sustainable rates to satisfy our strong demand for financing procurement as we pursue our M&A strategy. Accordingly, we prioritize debt financing over equity raising. Maintaining sufficient leverage capacity is essential to continuing to procure low-cost funds, which requires us to maintain our earnings growth strength in our existing business and M&A. Equally important is achieving highly positive evaluations from the understanding of financial institutions and rating agencies.

The use of debt financing and leverage will contribute to maximizing EPS through M&A. Equity-based fund-raising remains an option assuming the deal is EPS-accruing, and by selecting the optimal combination of financing methods, the company will pursue unleveraging growth without setting any upper limit. We review the status of assets as necessary in accordance with change in the market environment to ensure a sound balance sheet and the efficient utilization of assets. Taking into consideration the impact of the pandemic, we are reviewing business terms in every region and business to improve our Cash Conversion Cycle (CCC). In addition, we are taking action to respond to future credit risk collection by recording a provision for possible credit loss on the trade receivables of some real estate developers following the deterioration of the external environment. Further, we consider whether or not it is reasonable to continue to hold cross-shareholdings, and we disposed of some of cross-shareholdings in FY2021. Our property, plant and equipment, goodwill, and other assets are increasing every year as we continue to reinforce our manufacturing facilities and to aggressively execute M&A deals for future growth. At the same time, we have been taking measures to improve our asset efficiency and profitability, such as the transfer of the European automotive coatings business and the India businesses and the structural reform of the Japanese businesses and the marine coating businesses. In addition, we are reducing the risk of impairment losses on goodwill by minimizing PMI risk through autonomous and decentralized management and building up excellent quality mergers and acquisitions.

We regard to the liability situation, we are prioritizing debt financing to secure the funds for growth in engaging in M&A and other investment activities. Accordingly, the net debt/EBITDA ratio, which indicates financial leverage, is expected to increase by about four times at the end of FY2022, from 3.4 times (after adjusting for one-off items) at the end of FY2021 before the completion of the Cromology acquisition. (See “Progress of the Medium-Term Plan (FY2021-2023)” on page 51.) Basically, all of our management continuously conduct a management discussion and analysis with an average maturity of 5 years and an average before-tax interest rate of 0.4% which means that they carry an extremely low interest rate debt component. We will continue to procure finance at low interest rates and long-term maturities. We will also continue to pursue an optimal capital structure as well as to obtain highly positive evaluations from financial institutions and rating agencies, in order to maintain sufficient leverage.

Based on our judgment that we need to raise the financial base to achieve further growth through M&A, we issued new shares through a third-party allotment in FY2021, thereby increasing capital. EPS accretion starting in the first year of acquisition is an important criterion for our judgment on M&A deals. Another key point is capital efficiency where we place emphasis on achieving ROIC that exceeds WACC.

The focus of our equity policy is to raise total shareholder return (TSR) through earnings per share (EPS) growth by prioritizing growth investments while maintaining financial discipline. As part of our effort to raise TSR, our policy is to maintain steady and consistent dividend payments with a target dividend payout ratio of 30% while taking full account of factors including the trend in earnings and investment opportunities available. In FY2021, we paid an annual dividend of ¥10 per share, including the special dividend of ¥1 per share to commemorate the 140th anniversary of the foundation of the company.

Achieved revenue growth and OP margin improvement under Nippon Paint Group

<table>
<thead>
<tr>
<th>Year</th>
<th>Pre-acquisition</th>
<th>Post-acquisition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>1,948</td>
<td>1,750</td>
</tr>
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<td>2018</td>
<td>1,948</td>
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</tr>
</tbody>
</table>

Balance sheet management policy

As of the end of December 2021

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cash and equivalents</strong></td>
<td><strong>Trade and other receivables</strong></td>
</tr>
<tr>
<td>¥138.8 bn</td>
<td>¥209.7 bn</td>
</tr>
<tr>
<td><strong>Trade and other receivables</strong></td>
<td><strong>Bonds and debentures</strong></td>
</tr>
<tr>
<td>¥266.9 bn</td>
<td>¥52.3 bn</td>
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<tr>
<td><strong>Assets held for sale</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>¥3.9 bn</td>
<td>¥986.4 bn</td>
</tr>
<tr>
<td><strong>Property, plant and equipment</strong></td>
<td><strong>Equity</strong></td>
</tr>
<tr>
<td>¥317.7 bn</td>
<td>¥671.4 bn</td>
</tr>
<tr>
<td><strong>Goodwill</strong></td>
<td><strong>Retained earnings</strong></td>
</tr>
<tr>
<td>¥652.7 bn</td>
<td>¥228.9 bn</td>
</tr>
<tr>
<td><strong>Other intangible assets</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>¥300.2 bn</td>
<td>¥968.7 bn</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Liabilities</strong></td>
</tr>
<tr>
<td>¥1,955.1 bn</td>
<td><strong>Assets</strong></td>
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*Includes capital and retained earnings*

**Includes financial instruments and rating agencies, in order to maintain sufficient leverage.**

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<tr>
<td>2021</td>
<td>1,948</td>
<td>1,750</td>
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Geopolitical risks including inflation risk and the financial cost. As a result, we decided that the acquisition involved risk but that the expected returns would be greater in the medium and long-term. Betek Boya’s operating performance is impacted by the current inflation and the weak Turkish lira, but its market share is nevertheless increasing. So, we are confident that the company has ample potential to deliver strong growth. Another key point in utilizing our financial disciplines requires an acquired company to deliver EPS accretion starting in the first year. We never use optimistic assumptions that would rationalize acquisition synergies, hoping that the company can achieve EPS accretion three years after the acquisition.

Now, let me turn to the questions about the pro and cons of delegating the management of operations to local management. As mentioned in “Letter to Investors about the Integrated Report 2022” on page 15, the Co-Presidents delegate authority to local management, which is accompanied by responsibility for delivering outcomes. Before delegating authority, we perform a study to confirm that we can Trust them based on their track records and aspirations for growth through constant communication. Sending management teams from headquarters can easily create a gap between the local staff. Replacing the local senior management with Japanese senior management reinvigorates the motivation of the talented local management team.

In addition to using a simple and quick decision-making approach of relying on local management, Nippon Paint Group as a whole has established a platform for supporting the local management by providing fund procurement, economies of scale, sharing of know-how, and a relationship where the local management can directly consult with the Co-Presidents. This platform enables the growth-oriented local management to fully utilize their managerial skills. In terms of governance, the local management are responsible for supervising their own companies based on our risk management framework. (For more information, see “Risk Management” on page 121.) The performance of the major companies we have acquired since FY2014 has been strong both in high-growth and mature markets, as described in “Asset Management Report” on page 27. We have closed the acquisitions of Cromology and JUB in Europe, which are expected to contribute to our performance from FY2022 onwards. (For more information, see “Strategy for Mature Markets (Australia, New Zealand, PNG and Europe)” on page 67.) By continuing to accumulate a track record of successful M&A deals, we will also demonstrate the benefits of becoming a part of Nippon Paint Group to our M&A target companies, while listing expectations in the stock market that Nippon Paint Group can consistently deliver high growth.

*Note: We utilized NPSA’s low-cost fund- procurement capability to repay its high interest rate borrowings and allocated cash generated to aggressive investment in marketing activities, achieving market share gains (FY2016-27% > FY2015: 34%).*
Aiming to achieve our FY2023 revenue and operating profit targets through revenue growth and margin improvement

Building the foundation of Asset Assembler model

In the first year of our three-year Medium-Term Plan (FY2021-2023), we made progress on the establishment of Asset Assembler model to accelerate growth through the existing businesses and M&A. While accelerating autonomous growth of Group partner companies, we are aggressively pursuing growth through M&A in the paint and adhesives businesses. At the same time, we are developing the foundation for even faster growth, as well as clarifying roles and reinforcing governance with the smaller headquarters at the holding company. We will continue to relentlessly pursue growth over the medium and long term based on Asset Assembler model.

Financial plan for FY2021-2023

- **FY2021 Results**
  - Revenue: 998.3 billion yen
  - Operating profit: 87.6 billion yen
  - Operating profit margin: 8.8%
  - Profit attributable to owners of parent: 67.6 billion yen
  - EPS (yen): 29.41

- **FY2022 Forecast**
  - Revenue: 1,200.0 billion yen
  - Operating profit: 115.0 billion yen
  - Operating profit margin: 9.6%
  - Profit attributable to owners of parent: 81.0 billion yen
  - EPS (yen): 34.49

- **FY2023 Targets**
  - Revenue: 1,100.0 billion yen
  - Operating profit: 140.0 billion yen
  - Operating profit margin: 12.1%
  - Profit attributable to owners of parent: 1,100.0 billion yen
  - EPS (yen): 45.00

- **CAGR Targets**
  - CAGR: +10% for FY2021-2023

FY2021-2022 revenue/growth rate

- **FY2021 Results (Tanshin basis)**
  - Revenue: 998.3 billion yen
  - Operating profit: 99.8 billion yen
  - Operating profit margin: 10.0%
  - Profit attributable to owners of parent: 67.6 billion yen
  - EPS (yen): 29.41

- **FY2022 Forecast**
  - Revenue: 1,200.0 billion yen
  - Operating profit: 115.0 billion yen
  - Operating profit margin: 9.6%
  - Profit attributable to owners of parent: 81.0 billion yen
  - EPS (yen): 34.49

- **FY2023 Targets**
  - Revenue: 1,100.0 billion yen
  - Operating profit: 140.0 billion yen
  - Operating profit margin: 12.1%
  - Profit attributable to owners of parent: 1,100.0 billion yen
  - EPS (yen): 45.00

FY2021-2022 operating profit

We were unable to achieve a satisfactory operating profit in FY2021 due to raw material price increases and supply chain disruptions. However, we effectively achieved operating profit growth after excluding one-off items, backed by solid earnings growth in Australia, Turkey, and Asia except China, along with the contribution from the newly consolidated Indonesia business. There were also significant savings of headquarters expenses compared with the initial plan as we moved towards the smaller headquarters at the holding company. For FY2022, we forecast around 30% operating profit growth from efforts to improve margin by increasing selling prices and reviewing M&A expenses, on top of the effects of higher revenue.

FY2021-2022 operating profit analysis

- **2021 (Tanshin basis)**
  - Revenue: 998.3 billion yen
  - Operating profit: 99.8 billion yen
  - Operating profit margin: 10.0%

- **2022 Forecast**
  - Revenue: 1,200.0 billion yen
  - Operating profit: 115.0 billion yen
  - Operating profit margin: 9.6%

- **FY2021-2022 revenue analysis**
  - (Non-GAAP basis) +10.6% (+ ¥127.9 bn)
  - (Tanshin basis) +29.2% (+ ¥225.7 bn)

- **FY2021-2022 revenue/growth rate**
  - **FY2021**
    - **Japan**
      - Results
        - Revenue: 416.8 billion yen
      - Growth rate
        - +15.0%
    - **NIPSEA China**
      - Results
        - Revenue: 168.1 billion yen
      - Growth rate
        - +25.3%
    - **Asia (excluding NIPSEA China)**
      - Results
        - Revenue: 190.6 billion yen
      - Growth rate
        - +25.3%
    - **New consolidation (Indonesia)**
      - Results
        - Revenue: 190.6 billion yen
      - Growth rate
        - +25.3%
    - **Oceania**
      - Results
        - Revenue: 49.2 billion yen
      - Growth rate
        - +5.3%
    - **Americas**
      - Results
        - Revenue: 164.6 billion yen
      - Growth rate
        - +5.3%

- **FY2021-2022 operating profit**

Revenue reached a record high in FY2021 despite the pandemic, due to higher selling volumes and an improved price/mix coupled with the effects of exchange rate fluctuations and new consolidation of the Indonesia business. Our strong performance in FY2021 reaffirmed the strengths of our high market share in all operating regions globally and our business model that respects the autonomy of Group partner companies. In FY2022, we forecast revenue growth of around 20% based on continued autonomous growth and contributions from M&A. Our plan is to achieve our Year 3 revenue target in the Medium-Term Plan of 1,100 billion yen one year early.
Towards FY2023 — Year 3 of the Medium-Term Plan

We assume that we can achieve organic growth with operating profit margins in the high single digits to low teens in FY2022 and beyond by increasing our market share based on solid paint demand centered on Asia including China. If the raw material price inflation settles by the end of FY2022, we see good prospects for achieving our Year 3 operating profit target in the Medium-Term Plan of 140 billion yen even without an additional M&A deal, thanks to a significant contribution from margin improvement in FY2023, achieved through selling price increases.

Illustration of FY2021-2023 operating profit (Billion yen)

<table>
<thead>
<tr>
<th>FY2021 (Trendlines)</th>
<th>FY2021 (after one-off expenses)</th>
<th>FY2022 Forecast</th>
<th>FY2023 Medium-Term Plan target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net debt/EBITDA</td>
<td>Net debt/EBITDA</td>
<td>Net debt/EBITDA</td>
<td>Net debt/EBITDA</td>
</tr>
</tbody>
</table>

As of end of FY2022, expect interest-bearing debts to increase due to borrowing of funds for the acquisition of Cromology and JUB.

Status of debt

Maturity of long-term debt

*Stable yen-based maturity of 3-5 years
*Average interest rate at 0.4%*
*Long-term credit rating of A (R&I)*

Operating cash flow lower than expected due to higher raw material prices. Maintain capital expenditure aimed at continuous revenue increase and business development while maintaining a dividend payout ratio of 30%.

Capital expenditure (Billion yen)

<table>
<thead>
<tr>
<th>FY2022 Capital Expenditure</th>
<th>FY2022 Capital Expenditure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>8.8</td>
</tr>
<tr>
<td>NPSA China</td>
<td>22.0</td>
</tr>
<tr>
<td>Asia</td>
<td>6.5</td>
</tr>
<tr>
<td>Americas</td>
<td>4.3</td>
</tr>
<tr>
<td>Oceania</td>
<td>4.3</td>
</tr>
<tr>
<td>Japan</td>
<td>5.4</td>
</tr>
<tr>
<td>Total</td>
<td>49.5</td>
</tr>
</tbody>
</table>

Focus on capex for new facilities and introduction of operational capacity in Asia and other regions with strong revenue growth, while Japan requires more renewal and maintenance capex. Overall capital expenditure to sales ratio to be c.5%.

Rawmaterialprices

Our guidance for FY2022 announced in February 2022 assumed that the Japan naphtha price would remain above ¥60,000 through 1H FY2022. However, raw material prices have increased beyond our assumptions due to rising crude oil and naphtha prices caused by US and UK bans on Russian oil imports. We will continue to raise selling prices to keep up with raw material price increases, which we expect will result in continuous and gradual improvement of the operating profit margin. However, margin improvements may be delayed depending on crude oil and naphtha market developments. We are well positioned to restore the operating profit margin over the medium and long term through continuous selling price increases.

Roadmap for achieving operating profit improvement of ¥25.0 bn from FY2022 to FY2023

*+10% revenue = ¥310.0 bn
+10% OP margin = ¥31.0 bn
+15% OP margin = ¥46.9 bn
c. ¥25.0 bn

We have been raising selling prices in the decorative paints business in major operating regions since FY2021. We have also conducted price negotiations in the automotive and industrial businesses while maintaining sound relationships with customers.

Our responses in the first half of FY2022

- Price increases of all products
- Price increases of some products

We are reviewing SG&A expenses in all operating regions, which resulted in a 1 pt reduction in the consolidated SG&A expense in FY2022, to 29.5% from 30.5% in FY2021.

Road map for improving the OP margin

Our guidance for FY2022 announced in February 2022 assumed that the Japan naphtha price would remain above ¥60,000 through 1H FY2022. However, raw material prices have increased beyond our assumptions due to rising crude oil and naphtha prices caused by US and UK bans on Russian oil imports. We will continue to raise selling prices to keep up with raw material price increases, which we expect will result in continuous and gradual improvement of the operating profit margin. However, margin improvements may be delayed depending on crude oil and naphtha market developments. We are well positioned to restore the operating profit margin over the medium and long term through continuous selling price increases.
Financial highlights

Nippon Paint Group has grown steadily through the acquisitions of paint manufacturers in the United States in FY2017 and in Australia and Turkey in FY2019 along with the successful growth of the decorative paints business in China and other Asian countries. In FY2021, we achieved revenue growth for the fifth consecutive year and a record revenue due to the acquisition of the Indonesia business, selling price increases in every region, and the weaker yen.

Group operating profit reached a record high in FY2021 due to the benefits of acquisitions and growth of the Chinese business. Group operating profit remained at the same level in FY2021 due to higher revenue and the reduction of fixed costs, despite raw material price increases and a provision for a potential credit loss in China. The operating profit margin in FY2021 decreased from the previous year due to an increase in the raw material cost contribution ratio.

Earnings per share (EPS) rose or falls roughly in proportion to changes in earnings, such as operating profit. EPS increased in FY2021 due to a significant increase in net profit and a dividend increase. Earnings per share through a third-party allotment to procure funds for the full integration of the Asian JVs and the acquisition of the Indonesia business.

Net profit after tax in FY2021 increased due to the benefits of acquisitions and the full integration of the Asian JVs in FY2021 and the acquisition of the Indonesia business, selling price increases, and the stronger yen. Net profit after tax increased in FY2020 due to the beneﬁts of acquisitions and growth of the decorative paints business in China and Türkiye in FY2019 along with the successful growth of the decorative paints business in China and other Asian countries.

Operating profit / Operating profit margin

Net debt* / Net D/E ratio

Dividends per share*1 / Dividend payout ratio (IFRS)*2

Total shareholder return (TSR)

Return on equity (ROE) / Return on invested capital (ROIC)*

Net cash flow / Net D/E ratio

Earnings per share (EPS)*

Free cash flow (Billion yen)

Capital investments in the paint industry are relatively low and positive cash flow is the norm. Free cash flow in FY2017, FY2019, and FY2021 were negative due to the acquisitions of overseas paint manufacturers. However, our operating cash flow has increased consistently every year.

Nippon Paint Holdings Integrated Report 2022

Our basic policy is to pay stable and consistent dividends and maintain a dividend payout ratio of 30%. Our dividend payout ratio has been above 30% since FY2018. In FY2021, we paid an annual dividend of ¥15 per share including a commemorative dividend of ¥1 per share for the 140th anniversary of the company’s founding. As a result, our dividend payout ratio was 32.9%.

*1 Calculated assuming that the five-for-one stock split on April 1, 2021 was conducted in January 2017.

*2 Dividend payout ratio in FY2017 is JGAAP-based figures calculated after adjusting for amortization of goodwill.

Nippon Paint Holdings Integrated Report 2022

Nippon Paint Holdings Financial and Non-Financial Highlights

Value Creation Achievements (Financial and Non-Financial Highlights)

Figures for FY2017 are based on JGAAP and figures for FY2018 to FY2021 are based on IFRS.

Nippon Paint Holdings Integrated Report 2022

Nippon Paint Holdings Financial and Non-Financial Highlights

Value Creation Achievements (Financial and Non-Financial Highlights)

Figures for FY2017 are based on JGAAP and figures for FY2018 to FY2021 are based on IFRS.
## Value Creation Achievements (Financial and Non-Financial Highlights)

### Non-financial highlights

#### Employees / Ratio of overseas employees

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Employees</th>
<th>Ratio of overseas employees (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>20,257</td>
<td>58.1</td>
</tr>
<tr>
<td>2018</td>
<td>20,402</td>
<td>64.2</td>
</tr>
<tr>
<td>2019</td>
<td>25,970</td>
<td>67.0</td>
</tr>
<tr>
<td>2020</td>
<td>27,318</td>
<td>68.2</td>
</tr>
<tr>
<td>2021</td>
<td>30,247</td>
<td>89.1</td>
</tr>
</tbody>
</table>

* The ratio of overseas employees of Nippon Paint in FY2020, which was previously included in the Japan segment, has been included in the Consolidated total (common) since FY2021.

#### Employee satisfaction level (Japan Group)*

<table>
<thead>
<tr>
<th>Year</th>
<th>Employee Satisfaction (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>76</td>
</tr>
<tr>
<td>2018</td>
<td>82</td>
</tr>
<tr>
<td>2019</td>
<td>83</td>
</tr>
<tr>
<td>2020</td>
<td>89</td>
</tr>
</tbody>
</table>

* Survey by Nippon Paint Labor Union.

#### Number of Directors of the Board* / Ratio of Independent Directors on the Board*

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Directors of the Board (persons)</th>
<th>Ratio of Independent Directors (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>9</td>
<td>76</td>
</tr>
<tr>
<td>2018</td>
<td>10</td>
<td>78</td>
</tr>
<tr>
<td>2019</td>
<td>11</td>
<td>74.5</td>
</tr>
<tr>
<td>2020</td>
<td>8</td>
<td>56.7</td>
</tr>
</tbody>
</table>

* Number of Directors who were elected at the Ordinary General Meeting of Shareholders held in March 2021. The FY2021 figure is the number of the Directors in effect as of April 28, 2021.

#### Number of countries/regions where Nippon Paint Group has the No. 1 market share in decorative paints

<table>
<thead>
<tr>
<th>Year</th>
<th>No. 1 market share</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>5</td>
</tr>
<tr>
<td>2018</td>
<td>5</td>
</tr>
<tr>
<td>2019</td>
<td>8</td>
</tr>
<tr>
<td>2020</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Awarded the Gold Brand from a Chinese brand evaluation institution

- Award winner for six consecutive years

<table>
<thead>
<tr>
<th>Year</th>
<th>Brand Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>LiBang</td>
</tr>
<tr>
<td>2018</td>
<td>LiBang</td>
</tr>
<tr>
<td>2019</td>
<td>LiBang</td>
</tr>
<tr>
<td>2020</td>
<td>LiBang</td>
</tr>
<tr>
<td>2021</td>
<td>LiBang</td>
</tr>
</tbody>
</table>

#### Co2 emissions in Japan (Scope 1 and 2)*

<table>
<thead>
<tr>
<th>Year</th>
<th>CO2 Emissions (t-CO2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>36,893</td>
</tr>
<tr>
<td>2018</td>
<td>36,430</td>
</tr>
<tr>
<td>2019</td>
<td>45,714</td>
</tr>
<tr>
<td>2020</td>
<td>42,374</td>
</tr>
<tr>
<td>2021</td>
<td>42,971</td>
</tr>
</tbody>
</table>

* The survey coverage was six companies until FY2017: Nippon Paint Holdings (NPHD), Nippon Paint (NPTU), Nippon Paint Automotive Coatings (NPAC), Nippon Paint Industrial Coatings (NPIU), Nippon Paint Surf Coatings (NPSC), and Nippon Paint Marine Coatings (NPMC). The survey coverage from FY2018 is seven companies: NPHD, NPTU, NPAC, NPIU, NPSU, NPMC, and Nippon Paint Materials (NPMJ).

#### Water use in Japan* (thousand m³)

<table>
<thead>
<tr>
<th>Year</th>
<th>Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>396</td>
</tr>
<tr>
<td>2018</td>
<td>409</td>
</tr>
<tr>
<td>2019</td>
<td>540</td>
</tr>
<tr>
<td>2020</td>
<td>500</td>
</tr>
<tr>
<td>2021</td>
<td>458</td>
</tr>
</tbody>
</table>

* The survey coverage was six companies until FY2017: Nippon Paint Holdings (NPHD), Nippon Paint (NPTU), Nippon Paint Automotive Coatings (NPAC), Nippon Paint Industrial Coatings (NPIU), Nippon Paint Surf Coatings (NPSC), and Nippon Paint Marine Coatings (NPMC). The survey coverage from FY2018 is seven companies: NPHD, NPTU, NPAC, NPIU, NPSU, NPMC, and Nippon Paint Materials (NPMJ).

#### Ratio of water-based paints in the decorative paints business (Global)*

<table>
<thead>
<tr>
<th>Year</th>
<th>Ratio (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>82.3</td>
</tr>
<tr>
<td>2018</td>
<td>83.8</td>
</tr>
<tr>
<td>2019</td>
<td>86.7</td>
</tr>
<tr>
<td>2020</td>
<td>87.5</td>
</tr>
<tr>
<td>2021</td>
<td>89.9</td>
</tr>
</tbody>
</table>

* Calculated on water-based paint shipments divided by total paint shipments in units of 10,000 tons. Data for four companies: Nippon Paint (NPTU) and NIPSEA (beginning in FY2016), Dunn-Edwards (beginning in FY2017), and DuluxGroup (beginning in FY2019).

### Struggles and Solutions

- **Struggle:** The aggressive expansion of the ASEAN business since 1967 has led to the Group holding the top market share in Japan for many years. However, employee satisfaction improved in the area of comfortable workplace environments, which was identified as an area requiring improvement in FY2020.

- **Solution:** The Group is steadily reducing CO2 emissions in manufacturing processes. As a result of these actions, the water use in Japan decreased in FY2021 from the previous year.

- **Struggle:** Demand for water-based paints is increasing every year as a result of growing environmental awareness and tightened environmental regulations around the world. The Group is using its technological strengths to develop highly competitive water-based paints and products.

- **Solution:** The Group is steadily reducing CO2 emissions in Japan by taking actions, such as conducting energy-saving activities and introducing renewable energy towards the goal of reducing CO2 emissions by 20% in FY2030 compared to the FY2019 level. The Group’s CO2 emissions in Japan (Scope 1 and 2) in FY2021 was roughly unchanged from the previous year despite the recovery of production volume.

- **Struggle:** The Group identified the efficient use of water as an item of Materiality under resources and environment, and is taking actions such as efficiently using water for raw materials as well as reducing water use and using recycled water in manufacturing processes. As a result of these actions, the water use in Japan decreased in FY2021 from the previous year.

- **Solution:** The Group is steadily reducing CO2 emissions in Japan by taking actions, such as conducting energy-saving activities and introducing renewable energy towards the goal of reducing CO2 emissions by 20% in FY2030 compared to the FY2019 level. The Group’s CO2 emissions in Japan (Scope 1 and 2) in FY2021 was roughly unchanged from the previous year despite the recovery of production volume.
The global paint market has strong local features and huge growth potential over the medium and long term.

**China — Decorative paints market**

No change in medium- and long-term growth potential

Paint demand in China is expanding as urbanization increases. The urbanization rate in China increased from around 50% in 2016 to between 60% and 70% in 2021, and is expected to continue in advance gradually (See Figure 1). Per capita paint consumption is still around one-third of the level of advanced countries. Consumption is expected to climb consistently at a GDP+ rate in China increased from around 50% in 1990s are aging. As a trend, repainting demand has been growing rapidly (See Figure 3). In response to this situation, the Chinese government announced a plan in 2020 to repair, reform and redevelop old urban residential communities in 39,000 locations with 7 million households nationwide. In addition, the government established the goal of completing the renovation of residential communities built in 2000 or earlier by the end of 2025. The government has asked residents to renovate the interiors of their houses and replace home electric appliances. Backed by the present situation concerning existing houses and a push by the government for renovations, repainting demand is expected to continue to climb. Based on our estimates, repainting demand for existing houses is around one-third of total paint demand for housing in China and paint demand for new houses is around two-thirds. In urban areas, the rapid aging of government’s houses has raised paint demand for existing houses to roughly the same level as paint demand for new houses.

Rapidly expanding repainting demand

In China, the real estate market gained momentum with housing reforms in 1998. Since then, an enormous number of private housing units have been built. Private houses that were built in large numbers in the late 1990s are aging. As a trend, repainting demand has been growing rapidly (See Figure 3). In response to this situation, the Chinese government announced a plan in 2020 to repair, reform and redevelop old urban residential communities in 39,000 locations with 7 million households nationwide. In addition, the government established the goal of completing the renovation of residential communities built in 2000 or earlier by the end of 2025. The government has asked residents to renovate the interiors of their houses and replace home electric appliances. Backed by the present situation concerning existing houses and a push by the government for renovations, repainting demand is expected to continue to climb. Based on our estimates, repainting demand for existing houses is around one-third of total paint demand for housing in China and paint demand for new houses is around two-thirds. In urban areas, the rapid aging of government’s houses has raised paint demand for existing houses to roughly the same level as paint demand for new houses.

**Indonesia and Türkiye — Decorative paints market**

Strong growth continues driven by GDP growth, urbanization and government economic stimulus policies

The urbanization rates in Indonesia and Türkiye increased from 51% and 74%, respectively, in 2015, to 57% and 77%, respectively, in 2021. In addition, the urbanization rates in these countries are expected to increase further, similar to the situation in China, to 68% and 86%, respectively, in 2030 (See Figure 1). In Indonesia, paint demand is expected to grow further driven by the government’s stimulus measures, including infrastructure investments accompanying the capital city relocation project. In Türkiye, market growth is expected to continue despite the high inflation caused by the depreciation of the Turkish lira against major currencies. In addition, renovation and repair demand is expected to increase with GDP growth (See Figure 2). Disposable income in both countries has been growing steadily (See Figures 4 and 5). In line with this trend, growth is projected in the premium market, on top of growth already taking place in the economy and standard markets. In addition, we expect growth of per capital paint consumption in these countries.

Expecting market growth driven by the recovery of the housing market and GDP growth

The population of Australia has been growing steadily (See Figure 6). Private dwelling commencements declined in Australia and Europe in 2020 due to the pandemic but a recovery has started as a result of government stimulus, albeit disrupted by supply constraints (See Figures 7). Generally speaking, demand for decorative paints has a higher correlation to GDP growth than to private dwelling commencements as these mature markets are biased to existing home renovation and repair. Considering that GDP growth is expected to continue in Australia and Europe, we expect that solid growth will continue in the decorative paints market over the medium term (See Figure 2).
Growth Strategy for Rapidly Growing Repainting Market in China

1. Growth opportunities and potentiality of repainting market in China

China’s property market has entered the era of stock housing. The underpinnings of the “Homeownership Not Speculation” policy, China’s Property Market has plateaued. In 2021, China’s property development investment made up 25.2% of total fixed asset investment, down by two percentage points from 2020. In terms of construction scale, from 2005 to 2015, Compound Annual Growth Rate (CAGR) of property development investment was 28%. CAGR of project commencement was 8.5%, CAGR of housing transaction was 8.8%, and CAGR of project completion was 6.3%. From 2016 to 2021, these 4 indicators dropped respectively to 7.5%, 3.5%, 2.7% and 4.9%. It is estimated that in the next two decades, annual transaction volume of new property will drop to below 15%, down 40% from its current level.

Sustained policy control has led to a decline of new property transaction volume, and consequently increasing the proportion of stock housing gradually in the property market. It is estimated that stock property housing will reach 350M units by 2025, and 420M units by 2030. As a key indicator of the arrival of stock housing era, since 2018, Residential housing has made up over 40% of China’s total transaction volume. In 2021, Resale Housing transaction was 41% of the total transaction.

China’s Tier 1 cities have crossed over into Era of Stock Housing. Beijing’s resale housing transactions are close to 70% of total property transaction, while in Shanghai it stands at 60%, while in Shenzhen and Guangzhou they are at approximately 50%. For Tier 2, 3 & 4 cities, resale housing transactions have made up over 30% of total property transactions and are also steadily increasing.

The 1998-2008 period was known as the Golden Decade of China’s property market. Judging from the repair and maintenance cycle of 10-15 years, a large amount of stock housing has reached or exceeded the ‘Redecorating’ threshold. Repairing of stock housing is set to overload some property to become the key support for demand for home decoration. By 2025, it is estimated that renovation of stock housing will make up 32% of total demand of housing renovation. By 2030, this ratio will rise to over 50% of total renovation.

Stock housing era, coupled with government policies, pushes repainting to highs

In 2021, China’s State House issued a Guide on Upgrading of Aged Housing Estates in Cities and Townships, which categorized the upgrading of aged housing estates into an initiative of social security housing and entitled it for subsidies from central government. The 14th 5 Year Plan, formulated in 2021, stipulates that housing estates completed before the end of 2020 will be upgraded within the 14th 5 Year Plan period. “City Upgrading” has been escalated to be a national strategy.

The 110,000 housing estates targeted for upgrading are estimated to have 480M square meters of construction area. It is estimated that renovation of stock housing will make up 32% of total demand of housing renovation. By 2030, this ratio will rise to over 50% of total renovation.
2. Business strategy that responds to the Chinese repainting market

Nippon Paint China adopts “Refresh and beautify the living spaces” as its corporate mission, and has a vision “To construct with technology a most valuable eco-system, to become the leader in paint and coating total solutions.”

It is also in the value system of Nippon Paint China, to Enable Customer’s Achievements, to Lead through Innovation, to Cooperate for Winning, and to Encourage Drive to Succeed.

As the leader of China’s paint and coatings industry, Nippon Paint China is actively responding to China government’s 14th 5 Year Plan, and drive the contribution of paint and coatings industry in City Upgrading.

Focus on core business & core cities, strive for sustained growth
1. Focus on Art paints, to satisfy demand in consumption upgrade and individualized needs
2. Focus on high-potential cities, enhance efficiency to ensure high-yield

Uplift existing renovation model (Refresh)
1. Leverage on E channel: deep exploration of homeowners’ needs, increase penetration of renovation through Refresh
2. Improve on Net Promoter Score (NPS)
3. Multi-faceted innovation to drive growth
1. Business model innovation: Explore partnership system and find growth drivers
2. Eco-system innovation: form alliances in renovation with fellow producers of construction materials, collaborate with leading companies
3. Product innovation: develop product solutions for key scenarios in renovation, such as bathroom, window, balcony, exterior wall, sunroom, basement, rooftop

Retail Strategy

Organization: form Upgrade project team
1. Form Upgrade project team, to coordinate strategies, plans and execution of upgrading, to streamline process of product offering, solutions, delivery and quality assurance

Channel: establish regional centers of competency and Upgrade partners
1. Establish centers of competency in sales regions, to develop technical and application expertise in supporting Upgrade
2. To recruit Upgrade partners & jointly manage project leads, promotion and development

Provide scenario-based products and solutions
1. Cloud-based, digitalized & smart systems for complete management of Upgrade projects
2. Scenario based products & solutions

Project Strategy

Organization: form Upgrade project team
1. Form Upgrade project team, to coordinate strategies, plans and execution of upgrading, to streamline process of product offering, solutions, delivery and quality assurance

Channel: establish regional centers of competency and Upgrade partners
1. Establish centers of competency in sales regions, to develop technical and application expertise in supporting Upgrade
2. To recruit Upgrade partners & jointly manage project leads, promotion and development

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1. Cloud-based, digitalized & smart systems for complete management of Upgrade projects
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Growth Strategy Deployment in High-Growth Countries (Indonesia and Türkiye)

Market features and characteristics in high-growth countries (Indonesia and Türkiye)

The Indonesian and Turkish markets have proven resilient, having endured the impact of the COVID-19 induced recession and are now emerging as one of the top players in their respective regions. These countries are similar in many ways. They boast a sustainability-oriented youth population – Indonesia’s median age (as of 2021) is 23.1 whereas Türkiye is 32.2. This in turn has facilitated the growth of a strong middle-class segment to maintain a higher standard of living. Both are growing in the retail internet economy. It is unsurprising since both countries have high levels of internet penetration – Indonesia at 75.3% and Türkiye at 59% – and are active players in the internet economy, especially e-commerce.

In 2021, compared to previous year, e-commerce volume rose by 69% in Türkiye and the ratio of e-commerce to general commerce was 17.7%. On the other hand, Indonesia’s 202 million strong internet users contributed US$8.5 billion to the country’s burgeoning e-commerce sectors. Both countries have meteoric forecasts indicating that this will more than double by 2025. This is music to the ears of those of us in the coatings industry. Coupled with strong growth figures – Indonesia (6.8%) and Türkiye (11%) – and rising post-pandemic income, there has been a noted uptick of product sales.

Much of this has also been underpinned by similarities in cultural motivations pertaining to home renovations. In the aftermath of a prolonged lockdown, and COVID-19 movement restrictions, there has been a stated increase in hygiene awareness, prompting many to refurbish their homes and repaint them. In Indonesia, the repainting cycle has been found to be between 1.5-2 years compared to 2-3 years in Türkiye.

Growth strategy in Indonesia

Indonesia remains a vibrant market, and PT Nippon is optimistic about our strategic growth outlook and focuses on delivering consistent results in the market. In line with the aspiration, our growth strategy is nested in three aspects – strategic industries, technological capacity and social media marketing. One of the main areas for opportunities in the industrial segment is in automotive manufacturing. As more Indonesians recover from the economic effects of the pandemic, the return to the normal will be coupled with a spike in our production sometime beginning this August. This is a corollary to a growing middle-class segment with significantly higher wages than during the pandemic period, who will be its primary source of demand. As a result, there will be a surge in demand for automotive coatings as manufacturers race to meet the growing urbanization and travel needs of this segment of society.

The rise in technological capacity will also prove to be a gamechanger for the paint industry. The computerized colour tinting machine (CCM) is one such example. Where previous color mixers were done manually and were limited in choice of colors, this machine is able to tint up to 10,000 colors from just a handful of neutral bases in just over three minutes. These improvements have had a marked impact on efficiency and quality which has resulted in more satisfied consumers. PT Nippon is also the first paint company to give a 100% Colour Accuracy and Colour Consistency Guarantee for all 160LC machine tinted products.

In terms of product marketing, it makes prudent business sense to leverage Indonesia’s tech savvy young population and pour towards social media marketing. Online activities and partnerships with social media celebrities have done plenty to enhance Nippon Paint’s social media presence and reach public brand awareness. There is an opportunity to drive acceptance of our premium segment of decorative paints as well as our “Vinilex” line of paints (7 differentiated sub-products) which have a strong lead in the middle-income segment. By focusing on an online marketing approach and an aggressive distribution plan, we are then able to elevate the Nippon Paint brand name which translates to greater awareness of the products for the Premium and Middle-income segments.

Growth strategy in Türkiye

Leveraging its excellent performance in the Turkish market, Betek Boya remains steadfast in expanding its footprint in the market and delivering value to all our stakeholders. To that end, our goals are focused in the areas of expanding its External Thermal Insulation Composite System (ETICS) sector, developing a customer-centric approach to business and synergising with investments in industrial coatings.

In addition, ETICS, which contributes up to one third of our revenue from paint, is ripe for further expansion into the Turkish market. With its 225 mm sqm annual ETICS supply in 2021, Betek Boya is the solid market leader, four times bigger than competitors in Turkish market and also has a leading position in Euro region. Thus, in coming months, the demand for thermal insulation will skyrocket, leaving a huge potential for us to maximise. This is made even more pertinent as 48% of energy expenditure in the country comes from buildings as opposed to industry, and 40% of energy consumption from heating and cooling. With its thermal comfort and health-protecting features, thermal insulation allows for energy saving up to 60%. To use energy efficiently is to protect the world and the future of our children. Thermal insulation has a critical role in environmental health and anti-global warming. As a flagship paint brand FIII Boya has the highest brand Try of mind scores in all customer groups. The New Generation Dealer System and “FIII Ustam” painter loyalty programs are the most important features that differentiate experience-oriented interactions/strategies from the sector.

Thanks to all these innovative strategies, it is the company with the highest and most efficient distribution scores and the widest painter loyalty platform.

The development of a customer-centric approach to business in a natural continuation of Betek Boya’s multi-brand strategy which has been in place since 1993, delivering solutions to all consumer needs in all socio-economic segments. This strategy has helped propel us into building the largest product portfolio among any local and multinational paint manufacturers in the country and further augment the portfolio, allowing us to compete better with rivals in the region.

By consistently investing in this strategy, we do not allow any aggressive competition to gain place in the market. We place the customer at the core of our business in order to build positive experiences and foster long-term relationships which empowers our leadership further.

Industrial coatings is one aspect of business with immense opportunity with cutting edge technology providers which allows us to stand head and shoulders above our counterparts in the same market. Our approach in this sector is on the ability to provide solutions that protect against corrosion, UV light, and water – among others. This is complemented by adherence to strict protocols pertaining to sustainability measures which ensures that, while we improve technologically, we do so in a manner which maintains harm to the environment.
DuluxGroup aims to continue delivering consistent, profitable growth by focusing on three strategic growth pillars:

1. Extending DuluxGroup’s market leadership positions in the Pacific

From its heritage dating back to 1918, DuluxGroup has evolved to become a leading marketer and manufacturer of premium branded products that enhance, protect and maintain the places and spaces in which people live and work. This is expressed in our core purpose—“Imagine a Better Place.”

In relatively mature ANZ markets, DuluxGroup has invested in and leveraged its market leadership position and regional scale in well-structured market segments to deliver consistent and profitable growth.

In Australia and New Zealand, approximately 75% of DuluxGroup’s business is comprised of Dulux paint & coatings and the Selleys and Selleys businesses. They are complemented by other home improvement segment businesses in the roof restoration systems market with the acquisition of QRS Roofing Supplies.

1. **Extending DuluxGroup’s market leadership positions in the Pacific**

**Complementing organic growth with strategic M&A 2019-2022**

- Leverage and continue to invest in our core capabilities across our market leading business, particularly:
  - our premium brands,
  - consumer-led insights, innovation and marketing,
  - and growth through our retail and trade customer channels by focusing on experience and proximity.

2. **Focus on well-structured markets and market segments that deliver consistent growth and strong returns, with an emphasis on the relatively stable existing home renovation and maintenance markets, typically 65% of Group revenue.**

3. **Focus on product categories that are premium branded – where consumer trust, quality, continuous innovation and supply chain excellence drive competitive advantage.**

4. **Continue to foster our strong culture, - increasing consumer engagement
  - generating increased participation in the renovation and repair market through trade and retail distribution,
  - and also recruiting, developing and retaining a diverse and talented workforce.**

**Organic growth supported by value generating M&A**

Organic growth will be driven by ongoing investment in the fundamentals that have underperformed success in the past. More specifically:

- generating increased participation in the repair and renovation market through strong marketing and innovation, including increased do-it-for-me services to consumers,
- increasing consumer engagement through digital platforms,
- promoting omnichannel and optimization of logistics for the trade/professional market.

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**5. Continue to invest in our core capabilities across our market leading business, particularly:**

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- and growth through our retail and trade customer channels by focusing on experience and proximity.

**6. Focus on well-structured markets and market segments that deliver consistent growth and strong returns, with an emphasis on the relatively stable existing home renovation and maintenance markets, typically 65% of Group revenue.**

**7. Focus on product categories that are premium branded – where consumer trust, quality, continuous innovation and supply chain excellence drive competitive advantage.**

**8. Continue to foster our strong culture, - increasing consumer engagement
  - generating increased participation in the renovation and repair market through trade and retail distribution,
  - and also recruiting, developing and retaining a diverse and talented workforce.**

**Organic growth supported by value generating M&A**

Organic growth will be driven by ongoing investment in the fundamentals that have underperformed success in the past. More specifically:

- generating increased participation in the repair and renovation market through strong marketing and innovation, including increased do-it-for-me services to consumers,
- increasing consumer engagement through digital platforms,
- promoting omnichannel and optimization of logistics for the trade/professional market.

**5. Continue to invest in our core capabilities across our market leading business, particularly:**

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2. Leveraging capability for growth into the mature European paint & coatings market

DuluxGroup established foothold positions in Europe in decorative paints markets with the acquisitions of Craig & Rose in the UK in 2016 and Mazois Déco in France in 2017, followed by the acquisition of French brand Pure & Paint in 2020. With these relatively small-scale acquisitions, DuluxGroup has leveraged its expertise in premium brands and customer-led marketing and innovation, along with its retail channel management capability, to progressively grow its presence in European Big Box consumer retail, complemented by other channels including online.

Cromology and JUB – a strong platform with scale and capable management to enable growth

The acquisition of major market leaders French-based Cromology and Slovenia-based JUB provides DuluxGroup with the market position and regional scale needed to drive DuluxGroup and Nippon Paint Group's growth ambitions in European decorative paints markets. They each have premium brands, leading market positions across western and central Europe respectively, capable management teams, local market know-how, strong trade and retail distribution, well-established manufacturing assets and supply chain capabilities.

Cromology and JUB, along with Mazois Déco and Craig & Rose, provide DuluxGroup a substantial European decorative paints platform from which to deliver ongoing growth in the world's second-largest decorative paints market (after China).

Symmetry with DuluxGroup – consumers, customers and market dynamics

Europe, like Australia, is a mature market where delivering consistent, year-on-year, organic growth is underpinned by ongoing investment in the core fundamentals of premium brands, consumer-led marketing and innovation, customer service and supply chain excellence.

DuluxGroup is the natural owner for Cromology and JUB. They have much in common in terms of their respective customers (B2B, DIY and DIY customers (Trade/own stores, Big Box and independent)) and competitive landscapes. While there are large global decorative paint market players in Europe, DuluxGroup already competes with many of these players in ANZ and has done so for many years. Over time, we see compelling strategic opportunities leveraging the product portfolio, technology, marketing and innovation, procurement and customer channel management capability of DuluxGroup along with the global scale and resources of the wider Nippon Paint Group.

DuluxGroup's European "partner company" – Cromology (B2B, Mazois Déco and Craig & Rose) will drive Europe decorative paints growth over the medium to long term, including through leveraging DuluxGroup's core capabilities, which have delivered above-market, profitable growth in Australia, New Zealand and PNG for many decades.

Enabling our European partner companies to drive organic and inorganic growth through:

- **Customer channels** – grow share in trade customer chains (e.g., omni-channel trade fulfilment) and continue to build a meaningful presence in DIY consumer retail (e.g., shake-up Big Box presence) over time.
- **Product category extensions** – leveraging the wider DuluxGroup and Nippon Paint technology and product portfolio, including specialty coatings (e.g., wood, metal, concrete and texture coatings). ETICS and SAF.
- **Geographic extensions** – focusing on adjacent markets with similar market and consumer dynamics.

3. Leveraging capability for growth into global sealants, adhesives & fillers segments

DuluxGroup has successfully grown into a paint, adhesives & sealants business in ANZ, most notably with its market leading clickfix sealants, adhesives & fillers (SAF) business. DuluxGroup is now collaborating with NDPEA Group, to help build a material, sustainable and market leading SAF business in Asia through transferring our Safleys capabilities including consumer insights, marketing, product, technical and supply chain expertise. We will continue to focus on this collaboration, building on its success to date.

Further, DuluxGroup aims to grow into global SAF segments in markets where structures are similar to Safleys ANZ experience and where we know we can successfully compete. Given DuluxGroup’s European expansion in paint related distribution networks, we will continue to explore options to add local SAF businesses to generate growth in paint adjacent categories.

In doing so, we will focus on opportunities offering premium established brands, local product, locally compliant technology, strong supply chain capability, distribution reach, management talent and deep SAF expertise. DuluxGroup will look to leverage its capability, including in Big Box retail, to generate long-term sustainable growth.

Cromology

**Cromology’s geographical presence and market position**

Cromology is Europe’s fourth largest decorative paints producer, with strong market positions in the Benelux, Spain, Germany, France, Italy, Romania and Sweden markets. Cromology’s market share in these markets, as well as delivery through its extensive distribution network, is underpinned by strong positions in major trade channels.

Cromology has significant scale across its product portfolio, including its premium brands, broadly marketed through its extensive company store network, it is well-positioned for growth opportunities in major trade channels as well as with counterparties.

DuluxGroup’s ambition is to benefit from Cromology’s market scale, its well-established manufacturing assets and strong retail channel management capability to deliver consistent, profitable growth by focusing on premium brands, innovation and customer service with key retail partnerships.

Cromology and JUB provides DuluxGroup with significant capabilities.

- **Cromology**
  - Premium brands – where consumer benefits.
  - Strong market positions.
  - Extensive trade market distribution reach.
  - A strong retail channel management capability.
- **JUB**
  - Strong market positions.
  - Premium brands – where consumer benefits.
  - Extensive trade market distribution reach.
  - A strong retail channel management capability.

SWOT analysis

**Strengths**

- Strong market positions.
- Premium brands, backed by strong R&D capability.
- Outstanding management with excellent market know-how.
- Product portfolio including in-depth ETICS expertise.
- Extensive distribution.

**Opportunities**

- Expand product portfolio and geographical coverage to new markets.
- Well-positioned to benefit from organic expansion in other European countries.
- Partner to launch higher DuluxGroup product portfolio, including SAF and leveraging Berol, Selleys and JUB’s portfolios.
- Partner to sell DuluxGroup’s ETICS capability in Europe and other key markets.

**Weaknesses**

- Smaller procurement scale, and will benefit from wider global buying power.
- Like most companies, there are ongoing challenges from volatile raw material and energy prices, exacerbated by conflict in Ukraine.

**Threats**

- Current disruption in global supply chain, exacerbated by conflict in Ukraine.
- Global supply chain volatility and pricing.

**JUB**

**JUB’s geographical presence and market position**

JUB has a strong B2B market leading position in interior paints and ETICS in central Europe, particularly in the former Yugoslavia, and a strengthening position in other central European countries, particularly in painting compounds and ETICS systems.

**JUB’s geographical presence and market position**

JUB is in the top three in Italy, Switzerland and Benelux, and also a No. 1 in Spain, Romania and Portugal.

**JUB’s market position**

- **Interior paints ETICS**
- **Decorative paints**
Q&A with Co-President Wee Siew Kim about Actions for Improving the Profitability of the Japanese Businesses

Nippon Paint Group regards improving the profitability of the Japanese businesses as one of its management challenges. To tackle this challenge, we are implementing structural reforms based on the Co-President setup along with cooperation from our overseas partner companies. On this page, Director, Representative Executive Officer & Co-President Wee Siew Kim talks about challenges at the Co-President setup along with cooperation from our overseas partner companies.

Wee Siew Kim
Director, Representative Executive Officer & Co-President

Q.1 Please explain the reasons and background for the decline in the profitability of the Japanese businesses.

A. The business landscape of today is very volatile. A global pandemic, international conflicts, disruption in supply chains, inflations and talk of a looming recession all have an impact on business operations. In Japan, the changes that we are seeing in our operations and business can be partly attributed to external factors such as decrease in automobile production and increase in raw material prices. From a management analysis, a fundamental factor that has impacted the business is bunshaka or company splits along different lines of business in 2015. The concept of splitting the Group into its operating companies based on lines of business (automotive coatings, decorative paints, industrial coatings, and surface treatmen) has proven to be beneficial to the Group. However, bunshaka caused partner companies to lose a sense of collaboration and that has affected the business operations in the long run. This also comes with several other considerations such as the capabilities of the partner companies function to independently operate their business.

Q.2 What specific actions have you taken to improve profitability in the Japanese businesses?

A. In contrast to the paint and coatings market overseas where we are seeing continued growth, the Japanese paint and coatings market has shown decline over the past decade. However, the business in Japan, it therefore becomes important to build a cost and operating structure that is aligned with this mature market, requiring a management approach that might be different from other regions.

To continue the growth of our Japanese business and to ensure profitability, we are currently looking at two major growth areas. Firstly, for our Japan business we will drive more focus on improving the business operations in the long run. This also comes with several other considerations such as the capabilities of the partner companies function to independently operate their business.

Operating performance of the Japan segment*

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenue (billion yen)</th>
<th>Operating profit**/Operating profit margin (billion yen) (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>175.9</td>
<td>16.2/9.9</td>
</tr>
<tr>
<td>2018</td>
<td>182.8</td>
<td>16.2/9.9</td>
</tr>
<tr>
<td>2019</td>
<td>182.0</td>
<td>12.8/6.8</td>
</tr>
<tr>
<td>2020**</td>
<td>162.0</td>
<td>12.8/6.8</td>
</tr>
<tr>
<td>2021*</td>
<td>164.8</td>
<td>10.3/6.3</td>
</tr>
</tbody>
</table>

* Figures for FY2021 are based on JGAAP and figures from FY2018 to FY2020 are based on IFRS.
** Figures for FY2020 onwards have been reorganized and revised due to the change in accounting policies.

Cost structure and operational inefficiences. Based on our analysis, this has become a major factor for undermining competitiveness and profitability, as partner companies are often unable to make the right investments in areas that need further growth and expansion such as people development. However, with our firmly established Asset Assembler model that has allowed the wider Group to take advantage of a chaotic business landscape, we are confident in revitalizing our Japanese business and operations with a steadfast focus on innovation.

The second pillar is to transform the Japan Group’s technology and innovation offerings. The Japan Group has constantly supplied high quality and innovative products to customers. To ensure that innovation across the Group continues to grow, we need to make adequate investments in our resources such as skilled engineers and people who display excellent technical capabilities. Continuous investment in human resources is a priority for the Group. In 2022, we will roll out similar programs across the Group to drive further growth for our Japanese operations.
Q.3 What actions are you going to take to change the corporate culture and employee mindset?

As I have mentioned previously, change is inevitable. For us to move forward, we must embrace change and work towards gaining excellence. In our growth forward, J-LFG will play a pivotal role in our growth transformation. One key area for transformation within Japan is letting go of conventional work approaches and leveraging a more transparent management style that gives everyone the confidence to share their thoughts and opinions.

In this manner, the mindset change that we are bringing about in Japan is very similar to NIPSEA Group’s Lean for Growth (FLG) culture that ignites a spirit of growth within employees and gives them the ability to speak out and the courage to respond to change and agility.

In fact, we have even carved out a Japanese version for future action guidelines and mindset change called J-LFG that localizes the concept of our regional values in a manner that can be implemented to bring about the cultural and mindset changes needed for the Japanese business to achieve its next stage of advancement and innovation.

Six months into the implementation of J-LFG, I visited our office and factories in the Japan Group and took the time to speak with the employees there. It gave me great happiness to see that only within 6 months, employees can understand the significance and importance of J-LFG. One of the key concepts of J-LFG is to reduce redundancies and focus on tasks that create value for our customers. This will help us to constantly look forward, increase communication and breakthrough the silos and hierarchy of conventional management styles, allowing the organization to bring out the diversity and strengths of each employee. I am looking forward to seeing how J-LFG will positively steer the ship forward in Japan and to share those successes with the wider Group.

Strategy for Next-Generation Technologies in the Transforming Automotive Industry

Structural changes in the automotive industry and impact on coatings

Unprecedented transformation taking place in the automotive industry

The automotive industry is undergoing the biggest change ever since its commencement. This change has created numerous business opportunities and prompted paint manufacturers including ourselves to revist their conventional products, application processes, and supply chains.

J-LFG is one of the biggest themes in the industry. To meet increasingly stringent environmental regulations globally, many automobile manufacturers have prioritized environmental impact reductions, including achieving zero CO₂ emissions, as a key agenda as they look ahead to 2050.

Carbon neutrality initiatives of automobile manufacturers are focused mainly on reducing CO₂ emissions from two source emissions from manufacturing and other activities within the company (Scope 1 and 2) and emissions across the supply chain outside the control of the company, ranging from material procurement to sales and the disposal of products (Scope 3).

Procuring alternative energy and reducing CO₂ emissions from two source reductions, including achieving zero CO₂ emissions, as a key agenda as they look ahead to 2050.

On the other hand, as automobile manufacturers are focusing on reducing CO₂ emissions from two source emissions from manufacturing and other activities within the company (Scope 1 and 2), they are also looking at shifting to new energy vehicles (electrification) and promoting car sharing services in order to reduce CO₂ emissions throughout the whole process of sales, use, and disposal of the vehicles.

In addition, a paradigm shift is occurring in the industry, often represented by Connected, Autonomous, Shared, and Electric (CASE) and Mobility as a Service (MaaS). These shifts are expected to change the structure of the automotive industry demonstrated by new entrants from outside the industry in addition to current major players.

Changes in the paint and coatings spurred by evolution in the automotive industry

The automotive coatings industry is undergoing a significant transformation in line with changes in the automotive industry.

Coatings are essential for the automotive industry, as they protect components from elements such as air, water, and sunlight and are used in a wide range of applications such as undercarriage protection, exterior paint, and interior trim. The emergence of new needs are opening up numerous business opportunities. In other words, the future growth of paint manufacturers, including ourselves, will depend on whether we can break away from our conventional thinking and provide new value to our customers.

Carbon neutrality initiatives in the automotive industry are requiring paint manufacturers to speedily respond to such moves. In expanding our business opportunities, it is critical how quickly we serve our customers and help solve the problems they are facing. For instance, existing paint production processes and collection of raw materials, as well as developing environmentally friendly coatings which consumes less energy in paint.
booth and drying furnaces. Although CASE and Maas may have only a limited direct impact on coatings, such shifts can still create various growth potential.

In the electric vehicle segment, current car makers are expanding their business domains to fit in with the new environments while totally different enterprises enter the sector, generating new markets for us to increase our sales and market share.

Automobile manufacturers, which are our existing customers, are pushing out the boundaries of their business beyond automotive manufacturing and into peripheral areas. This offers many manufacturing new business opportunities that are not bound by our conventional business scope.

With advancing vehicle performances, the possibilities for value added by coatings are also expanding. For example, NPAC is developing decorative films that are transparent to light emitted by sensors, which are vital for self-driving vehicles and other applications. As the sharing economy grows, we also anticipate a change in user needs regarding vehicles, colors and functionalities such as coatings with vivid colors and coatings that can easily change car body appearance depending on users’ preferences. The possibilities to be exploited are endless. In this environment, providing solutions to emerging needs in the new era as coatings technology specialists will give us the most competitive advantage.

Research and development activities at NPAC, aiming towards a global leading company

In the Volatile, Uncertain, Complex, Ambiguous (VUCA) environment, NPAC will continue proactive research and development activities for next-generation technologies. Our aim is to become a global leading company that can provide services and added value as a valuable partner to our customers by both reforming the technologies we have accumulated over many years and also producing new ideas.

Research and development activities for next-generation technologies

NPAC is speeding up the shift to next-generation coatings, such as environmentally friendly coatings and coatings with anti-fail properties, while also improving our existing products. Our goal is to help create a sustainable society and to respond to customers’ needs involving CASE and Maas. In addition, core technologies we have accumulated since our founding to develop new coating technologies should provide greater added value to our stakeholders.

Decorative film technology, one of our focus areas, can provide design flexibility that cannot be achieved through conventional coatings. Moreover, this technology is expected to help automobile manufacturers cut back CO2 emissions (Groups 1 and 2). Although our focus with the film technology has been on automotive interior Center Information Displays, film application is now considered to be a scalable option in exteriors, which are becoming more multi-functional, as well as in non-automotive applications. We see our decorative film as a technology that will allow us to constantly tackle social issues while meeting customer needs. NPAC successfully launched functional decorative films covered with our coatings in February 2022. Further business development will be conducted to sell these films without restricting our scope to these activities to customers within Japan or in the automotive industry, in order to make decorative films one of our core businesses.

Apart from film, NPAC is also a developer of in-mold coating technology, which is a direct coating process that does not require a paint booth or a drying furnace.

Our business is on a global scale. Therefore a global collaboration platform where our members provide technical assistance and information exchange is one of the key areas we are reinforcing. This enables us to respond more quickly to the needs of our customers around the world.

Automotive production is continuing to decline, due to the influence of the pandemic and parts shortages such as semiconductor chips. The paint industry is also impacted by the ongoing price increases and unstable supply of raw materials and logistics bottlenecks.

Actions for improving profitability

We must rise to the challenge of improving profitability in the current market environment with rising prices of raw materials and sluggish car production. In order for us to become a growing company even in such harsh conditions, productivity improvement and optimization are key areas we are working on.

Against the backdrop of the structural changes in our industry, we must break away from the conventional business approaches. In fact, our operational process improvement is in progress across the company, pushing us to think outside the box. For instance, rigorous improvement activities are underway with the goal of streamlining operations. Examples include a bottom-up initiative where we solicit areas for improvements within the company and launch projects to tackle issues, the realignment of production and sales workflows from a long-term perspective, and the consolidation of inefficient operations. For issues that require discussions among several divisions over the long term, cross-project divisions are being formed in which measures for reform are being discussed on a daily basis.

In order to cope with rising raw material prices and manufacturing costs caused by numerous external factors, we are taking actions such as cost reduction activities and implementing an optimal procurement and production system from a global perspective. Our goal is to eliminate concerns about supply challenges and improve profitability. Adjusting selling prices in accordance with market conditions has also been one of our key initiatives.

Strengthening our overseas business infrastructure

In accordance with our strategy to integrate our business entities in Asia, in May 2022, NPAC has completed the integration of business entities in China. Aiming at creating synergies and reinforcing foundation, operations are integrated in China and other Asian countries where we anticipate a rapid growth. As new energy vehicles are increasingly accepted in Asia, we aim to quickly raise our market share by leveraging our extensive distribution and technical network without missing any opportunities that occur in the transformation of the automotive industry.

In the Americas, management structure was changed in April 2022, instituting the position of Chairman, who is responsible for overseeing operations throughout the Americas, including Mexico and Brazil. These measures have established a framework for creating synergies in the Americas while maintaining autonomous management in each country. In 2023, a new factory is slated for completion in Chattanooga, Tennessee, USA. The new factory, which is designed for energy conservation and advanced automation for next-generation manufacturing, will enable us to expand market share through unified activities throughout the Americas, strengthening existing businesses and shifting to local production of electrodeposition coatings.

NPAC aims to improve our global market presence, not only within our businesses. By reinforcing our global network, we seek to be the best partner to our customers operating on a global scale.

Aiming to Improve Profitability and Strengthening Our Global Business Structure

Shinji Takedagawa
Representative Director & President, Nippon Paint Automotive Coatings Co., Ltd. (NPAC)

Shinji Takedagawa joined the former Nippon Paint Co., Ltd., after graduating from Meiji University College of Economics in 1984. After 38 years of experience in sales, planning, and management in the automotive coating business, he transferred to the Nippon Paint Automotive Coatings Co., Ltd. following its launch in 2015. Appointed as Managing Director in 2016 and the Deputy President and Executive Corporate Officer in January 2020, he was appointed President in January 2021.

Aiming to improve profitability and efficiency, NPAC has established a framework for creating synergies in the Americas while maintaining autonomous management in each country. Aiming at creating synergies and reinforcing foundation, operations are integrated in China and other Asian countries where we anticipate a rapid growth. As new energy vehicles are increasingly accepted in Asia, we aim to quickly raise our market share by leveraging our extensive distribution and technical network without missing any opportunities that occur in the transformation of the automotive industry.

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Contribution to MSV with a sustainability strategy

Creating paints and coatings to add color, comfort, and safety to people everywhere has been our mission since the company was founded.

- Pursue technologies across the value chain to create sustainability
- Engage and work with our stakeholders to meet their expectations
- Respect, support, and enable our diverse employees and company associates to achieve their full potential and create innovative, advanced governance and risk management

Autonomous sustainability structure

Based on the Asset Assembler model, we updated the sustainability structure in 2022 by shifting to an autonomous structure with a stronger link with human operations, away from the structure where the headquarters led our sustainability initiatives. Directly under the Directors, Representative Executive Officers & Co-Presidents, four materiality-based global teams have been formed for carrying out sustainability strategies on a Group-wide basis. By having team leaders directly report progress and proposal to the Co-Presidents, and the Co-Presidents, who further submit reports to the Board of Directors whenever necessary, sustainability activities are overseen by the Board of Directors.

Sustainability strategy linked to materiality

At Nippon Paint Holdings Group we aim to conduct our business activities to support and enable sustainable development everywhere we operate. We aim to include the three elements: economic, social and environmental integration. Creating paints and coatings to add color, comfort, and safety to people everywhere has been our mission since the company was founded. Finding solutions to global sustainability challenges is our responsibility to future generations and is a driving force for our continued growth and success. To achieve this, we will:

- Pursue technologies across the value chain to create sustainability benefits through innovative products and services, and new business opportunities.
- Engage and work with our stakeholders to meet their expectations and together achieve our shared sustainability commitments, responsibilities, and challenges.
- Establish effective governance frameworks to ensure the transparency, objectivity, and fairness of the management of our company and earn society’s trust everywhere we operate.

Activities to determine KPIs

In addition to the risks and opportunities identified for each materiality, our Group formulates sustainability policies and strategies based on the characteristics of each region and market in which it operates as well as on the demands of stakeholders. KPIs are also selected as necessary in line with policies and strategies. Progress toward reaching the KPI targets is monitored.

With regard to climate change initiatives, KPIs are reviewed and established for each country and region to achieve the medium- to long-term targets set in the strategy. The KPI targets are monitored.

Environment & Safety

- Minimize the carbon footprint
- Ensure the safety of employees and stakeholders
- Invest in the well-being of employees
- Build and enable better communities for all stakeholders
- Promote sustainable products
- Drive innovation towards UN SDGs and carbon neutrality
- Maintain the most advanced governance system possible as a listed company, including integrity, internal controls, and risk management
Strengthening climate action through our global team

Brad Hordern
DuixGroup

Addressing Nippon Paint Group’s most material sustainability impacts is a key imperative and priority for the organization to ensure Maximization of Shareholder Value (MSV). Within the sustainability aspects of environment and safety, the identified priority material impacts are climate change, resources and environment (especially waste and water), and safe people and operations.

During 2021 each Partner Company Group (PCG; Nippon Paint Group companies grouped by region or business) has continued to progress on their individual ambition, targets, and priorities within each of these impact areas. This report includes a small number of newly consolidated Nippon Paint Group metrics for these impacts and while it is pleasing to observe that there was improvement on prior years for most of them, safety performance provided a sobering reminder of the need for improved management of significant risks. Comparing 2021 performance with the prior year, this progress includes:

- Safe People and Operations: Three fatalities (versus none in 2020) and 10% reduction in lost workday case injuries
- Resources and Environment: 6% increase in waste generation, 4% increase in waste recovered (recycled, reused), and 4% reduction in water withdrawal
- Safe People and Operations: Three fatalities (versus none in 2020) and 10% reduction in lost workday case injuries

While many of these results are encouraging and provide a strong foundation for further improvement progress in the coming year, the occurrence of these fatalities (one employee, two contractors) in NIPSEA Group reinforces the increased importance of effectively managing safety to protect everyone who works for us. Our sincere thoughts are with their families and work colleagues. Further details and highlights of individual Partner Company Group progress in these impact areas are highlighted in the following pages.

Our priority in 2022 is to work more closely together via a newly established working group comprising senior environment and safety leaders from each PCG. The focus will be on identifying our priority in 2022 is to work more closely together via a newly established working group comprising senior environment and safety leaders from each PCG. The focus will be on identifying these impact areas are highlighted in the following pages.

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Climate change

Climate change is beginning to have a serious impact on our lives every year. To mitigate the impact of climate change, we will work to reduce greenhouse gas (GHG) emissions and minimize business risks caused by climate change.

Report based on the TCFD recommendations

In September 2021, Nippon Paint Group expressed its support for the final report of the Task Force on Climate-related Financial Disclosures (TCFD) recommendations. With the goal of achieving MSV, we are working to enhance climate change-related measures and information disclosure.

Goverance

Nippon Paint Group has shifted to an autonomous management structure based on Asset Assembler model with a new sustainability structure launched in 2022 designed to enhance sustainability initiatives within business activities, rather than initiatives led by the headquarters. We have set up four Global Teams based on Materiality including climate change directly report to the Co-Presidents in order to implement these climate-related risks and opportunities in formulating the medium- and long-term growth strategy of the Group.

Although our energy intensity is not significant compared to many other manufacturing businesses, our group scale means we still collectively consume a considerable amount of energy and therefore work to actively reduce our energy consumption. This includes cooling water required in the process of dispersing and stabilizing pigments and other raw materials. We have identified carbon taxes as the greatest risk that could directly affect our operations and anticipate cost increases due to higher carbon prices. Therefore, we have started considering the sourcing of alternative energy as a workaround. Carbon taxes have already been introduced in some countries and it is expected that the tax rates will be hiked gradually to achieve the net zero targets of each country.

In terms of climate-related scenarios, the Group has conducted reviews on the 2-degree and 4-degree scenarios. According to a report by the International Energy Agency (IEA), we will continue to incur certain costs both in a scenario where we will shift to a decarbonization process worldwide (the 2-degree scenario) and a scenario where the current policies for decarbonization go unchanged globally (the 4-degree scenario), unless we make progress with lowering our CO2 emissions assuming our CO2 emissions remain unchanged from...
Sustainability Strategy

2020 levels. There are concerns that carbon prices will have an even greater impact on operating costs, given the potential increase in emissions associated with the Group’s future business expansion.

Global warming is of interest to society as a whole, including the Group’s major customers. While it entails physical and regulatory risks, global warming can be linked to opportunities to expand our business by addressing its impacts strategically. Specifically, such opportunities include expanding sales of products that improve ship fuel efficiency, help reduce CO₂ emissions at automobile manufacturing plants, and mitigate the rise in road surface temperature.

For instance, ATTSU-9 ROAD®, which produces a highly reflective asphalt pavement, is expected to contribute to reducing CO₂ emissions by countering the heat island effect. We have estimated the financial impacts of road pavement coatings, including degree of contribution to savings, based on the market growth forecast for these coatings.

Risk management

The Global Team that works directly under the Co-Presidents identifies and assesses risks, including their importance, based on the criteria of factors directly related to our operations (the amount of raw materials used, energy, water, and CO₂ in the manufacturing process) and external factors (users’ application-based needs and product features needed). Once identified and assessed, the Global Team proposes risks and opportunities and their action plans to the Co-Presidents. The Co-Presidents, who allocate and propose the targets to the Board of Directors. These targets, after approval by the Board of Directors, are set as group-level targets.

Group partner companies formulate business plans in line with these group-level targets and action plans. The Audit Committee has identified the effectiveness of responses to ESG and SDGs initiatives as an issue to be addressed based on the effectiveness evaluation, and is deliberating on this agenda from the perspective of MSV.

Metrics and targets

We will accelerate our response to climate change by conducting activities to reduce CO₂ emissions based on the net zero targets and the carbon neutral policies of the government of each country and contributing to net zero in our operating regions around the world. As concrete measures, we will focus on reducing emissions intensity in emerging countries, where markets are expanding, by introducing renewable energy and replacing equipment with energy-saving and electrified models. By taking these actions, our Japan Group, DuluxGroup in Australia, and Dunn-Edwards in the U.S. will aim to achieve Net Zero by 2050 and NIPSEA Group by 2060.

We currently calculate Scope 3 emissions from our operations in Japan and DuluxGroup in Australia, and have taken steps to expand the coverage to our global operations.

Interim targets and actions for net zero emissions

**NIPSEA Group**

- Formulated NIPSEA Green Plan 1.0, the movement to advance the agenda on sustainable development – Profit, People, Environment
- Aim to reduce energy intensity by 8% by 2025 against a 2021 baseline, with a yearly reduction target of 2%. Also aim to reduce emissions intensity (Scope 1 and 2) by 15% by 2025, with a yearly reduction target of 4%.
- Use a combination of renewable (hydro turbines and solar panels) and non-renewable (petrol and diesel) sources of electric energy to power both operations-related and non-production-related activities.
- Introduced battery-operated forklifts

**DuluxGroup**

- Agreed DuluxGroup targets of 50% renewable energy consumption and 50% CO₂ emissions reduction by 2030, plus net zero carbon by 2050.
- commenced development of detailed action plans to achieve the 2030 targets in the first half of 2022.
- commenced program of specialist energy efficiency studies at two factories to identify reduction opportunities.
- Achieved a 5% reduction in energy consumption in 2021.
- Reduced the CO₂ emissions intensity (Scope 1 and 2) by 3% in 2021, achieving the minimum value.

**Dunn-Edwards**

- Adapting software in H2 2022 to track company-wide Scope 1, 2, and 3 emissions in order to achieve true metrics for net zero carbon (Scope 1 and 2) by 2050.
- Discussed operating new corporate office on generated renewable energy.
- Committed to reducing energy usage through efficient lighting and Energy Star® equipment.
- Committed to providing electric vehicle charging resources.
- Used renewable energy supplied in each state (at least 34% of energy supplied in California was renewable energy).

**Japan Group**

- Agreed Japan target of 35% CO₂ emissions reduction (Scope 1 and 2) by 2030 from 2019 levels, plus net zero carbon from our domestic operations by 2050.
- Purchase renewable energy in Japan. 100% renewable energy at Osaka headquarters in FY2021, about 7% of electricity used in Japan in FY2022. Afterwards, increase gradually.
- Consider energy-saving and use of renewable energy to reduce the impact of carbon taxes.

Global CO₂ emissions and energy consumption report

Total energy consumption (kilotonnes of production) across the Group decreased 14% during 2021, despite a significant increase in production associated with inclusion of recent acquisitions and business sales growth. This improvement was primarily driven by a 2% reduction in NIPSEA Group, which accounts for 57% of the Group consumption, and a 7% reduction in DuluxGroup, who accounts for 8% of the Group consumption. Consumption in other areas of the business was steady. Consistent with the decrease in energy consumption, Scope 1 and 2 greenhouse gas emissions (kilotonnes per tonne of production) across the Group decreased 8% during 2021.

This excludes Dunn-Edwards where emissions data is not currently available; however, this is not significant as they account for 1% of the Group energy consumption. All partner company groups have now established Scope 1 and 2 emissions reduction targets which will drive further improvement in coming years. For Scope 3 greenhouse gas emissions, DuluxGroup and the Japan Group continue to determine their annual footprint, while other partner company groups plan to do this in the near future. This will enable consolidated group reporting of these emissions in future, together with an improved understanding of risks, opportunities, and reduction plans across the partner company groups.

CO₂ emissions and energy consumption from operations in Japan (results)

We continued with production adjustment and working from home arrangements due to the pandemic in FY2021.

Compared to the previous year, energy consumption increased slightly following the slight recovery of production volume but CO₂ emissions remained roughly unchanged. Scope 3 is becoming more important in understanding business risks and opportunities, so we are refining the calculation method. Processing of sold products (Category 10) and Use of sold products (Category 11) are outside the scope of calculation in accordance with WBCSD’s Chemical Sector Guidance.
Sustainability Strategy

Resources and environment

Effective use of resources such as water, energy, and raw materials, and prevention of environmental pollution are important matters for sustainable business. We will advance these efforts throughout life cycle of products.

The Group has identified “Resources and Environment” as one of its materiality items. In the paint manufacturing process, we not only comply with all relevant laws and regulations, but also take a proactive approach to preventing pollution.

In 2021, we established (1) a policy on waste and effective use of resources, (2) a global policy for the prevention of environmental pollution, and (3) a global policy for the effective use of water with the Global Working Team (currently, the Global Team) under the then ESG Committee.

Waste generated (Global)

<table>
<thead>
<tr>
<th>Year</th>
<th>Waste Generated (kg/t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>11.5</td>
</tr>
<tr>
<td>2020</td>
<td>9.9</td>
</tr>
<tr>
<td>2021</td>
<td>10.5</td>
</tr>
</tbody>
</table>

Waste recovered (recycled, reused) (Global)

<table>
<thead>
<tr>
<th>Year</th>
<th>Waste Recovered (kg/t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>6.2</td>
</tr>
<tr>
<td>2020</td>
<td>4.5</td>
</tr>
<tr>
<td>2021</td>
<td>4.3</td>
</tr>
</tbody>
</table>

Water withdrawal (Global)

<table>
<thead>
<tr>
<th>Year</th>
<th>Water Withdrawal (kL/t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>0.69</td>
</tr>
<tr>
<td>2020</td>
<td>0.95</td>
</tr>
<tr>
<td>2021</td>
<td>0.53</td>
</tr>
</tbody>
</table>
The Group has designated Safe People and Operations (occupational safety and health) as one of our materialities. Workplace safety and promoting the health of all employees is a fundamental part of our corporate management, and all Group companies implement occupational safety and health initiatives.

In FY2021, the Global Working Team (currently the Global Team) set up under the then ESG Committee established a global policy on occupational safety and health. NIPSEA Group ensures that its health, safety, and environmental (HSE) efforts cover the following areas: 1) Raising employee awareness on the importance of health and safety measures, 2) Objective and target setting on key HSE performance indicators (KPIs), 3) Regular reviewing of HSE performance, 4) Resource planning for HSE implementation, maintenance, and improvement, and 5) Avaling grievance mechanisms. As actions covering the area 1), NIPSEA Group utilizes a variety of communication tools to raise employee awareness of health and safety measures, as well as the roles and responsibilities of top Management, the HSE committee, Heads of Departments, and employees themselves. We also ensure that employees are well-informed on the relevant HSE precautions through workshops and briefings held on subject matters like chemical and PPE safety, machine use, and stress management.

Global policy on occupational safety and health

We care for the health, safety and well-being of everyone.

Global occupational safety and health

Sadly, there were three fatalities in 2021 compared with none in the prior two years, reinforcing the imperative of ensuring effective identification and management of high consequence risks in all of our workplaces. The separate incidents occurred in NIPSEA Group and involved one employee and two contractors. Injuries to employees and contractors that resulted in lost workdays (number of cases per 200,000 hours) across the Group decreased 10%. This was driven by a 23% reduction in DuluxGroup and a 9% reduction in NIPSEA Group, with both businesses accounting for 58% of injuries across the group. Dunn-Edwards accounted for 43% and has experienced a significant increase in cases over the last two years, which has been driven by COVID-19 infections in the workplace.

Results of actions for occupational safety and health in Japan

Based on the idea that a business is not viable if it is not safe, the Japan Group puts safety first and foremost and implements measures to prevent injury accidents before they occur. The number of injury accidents decreased in FY2021 compared to FY2020 levels, but the number of accidents that resulted in lost time increased by four. Following the occurrence of one heat stroke case requiring long lost time, the Japan Group has taken actions such as recognizing the risk of heat strokes and reviewing preventive measures throughout the production locations within the Group in order to prevent the recurrence of accident.

Based on risk assessment, which is the basis of occupational safety and health activities, we took steps to prevent disasters and accidents involving getting pinched or caught, contact with hazardous materials, which increased in number in FY2020, as priority targets. In addition disasters and accidents that occurred in Group production locations in Japan and overseas were shared within the Group in order to strengthen accident controls by reviewing production site rules and safety measures and providing education of production site workers.

Approach to the procurement of raw materials

The Group’s businesses depend on supply of raw materials, equipment, supplies, information services and various other products and services. Maintaining healthy cooperation with suppliers is therefore essential to our sustainable growth. The Group has established and disclosed the procurement policy that is aligned with its basic approach to business transactions. The Group also aims to ensure that all Group employees and its suppliers understand and follow this approach and policy.

To ensure that procurement activities are performed responsibly, the Group established procurement guidelines based on a policy that further clarifies the definition of the items that must be observed by suppliers and members of the Group. Procurement activities of the Group place priority on quality, cost, and delivery time (QCD) as well as the environment and governance (ESG) aspects, with the goal of further emphasizing the sustainability of our supply chains.

NIPSEA Group remains committed to operating as a responsible business that is held to high standards and strives to create a positive impact on sustainable development. Our Supplier Code of Conduct, which outlines clear business conduct expectations for new and existing suppliers, ensures that our business partners uphold the same high standards that we do. The Supplier Code of Conduct covers three main areas (see the chart below).

At NIPSEA Group, the Procurement department evaluates its suppliers on an annual basis. This supplier evaluation exercise includes an environmental assessment to ensure that they meet its required Standard Operating Procedures (SOPs) in managing environmental matters. In the event that suppliers fall short of the expectations NIPSEA Group has of them, the group provides solutions and guidance to help them improve their processes.

Business Practices and Ethics

Our standard corporate policies that focus on legal and regulatory compliance such as anti-corruption and fair competition laws

Labor Practices and Human Rights

Our commitment to human rights and equal opportunity in the workplace, amongst others

Environmental Regulation and Protection

Our commitment to protecting and preserving a healthy and sustainable planet

Lost workday case rate - employees & contractors (Global)

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>0.52</td>
<td>0.51</td>
<td>0.46</td>
</tr>
</tbody>
</table>

Lost Workday Case Rate (per 200,000 hrs)

<table>
<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>0.36</td>
<td>0.31</td>
<td>0.28</td>
<td>0.26</td>
<td>0.23</td>
</tr>
</tbody>
</table>

Frequency rate of lost time injury accidents (Japan Group)

<table>
<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>0.43</td>
<td>0.40</td>
<td>0.39</td>
<td>0.37</td>
<td>0.35</td>
</tr>
</tbody>
</table>

Number of accidents by employment type (Japan Group)

<table>
<thead>
<tr>
<th>Year</th>
<th>Full time employees</th>
<th>Others (contractors and temporary staff)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>2018</td>
<td>19</td>
<td>2</td>
</tr>
<tr>
<td>2019</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>2020</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>2021</td>
<td>14</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Serious accidents</th>
<th>Non-lost time injury accidents</th>
<th>Lost time injury accidents</th>
<th>Total number of lost time injury accidents (per 1,000,000 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>2018</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>2019</td>
<td>7</td>
<td>4</td>
<td>11</td>
<td>22</td>
</tr>
<tr>
<td>2020</td>
<td>2</td>
<td>5</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>2021</td>
<td>16</td>
<td>1</td>
<td>0</td>
<td>17</td>
</tr>
</tbody>
</table>

NIPSEA Group Supplier Code of Conduct

01

02

03

085

086

Sustainability Strategy

Safe people and operations

As a chemical manufacturer, we still believe that accidents and health damage caused by handling chemical substances are major risks. We will ensure the safety of employees and everyone involved in our business, and will educate and make investments to minimize risks.
We will pursue MSV on the strength of our human capital

Gladys Goh
NIPSEA Group

As a Japan-origin global corporate group operating in 30 countries and regions worldwide, including in China and other parts of Asia, Nippon Paint Group is committed to contributing to Maximization of Shareholder Value (MSV) by leveraging the diversity and strengths of its human capital, as well as fulfilling its obligations to its stakeholders, which is the premise of MSV.

The People & Community Team conducts activities around two items of Materiality: Diversity & Inclusion as well as Growth with Communities. Our activities are conducted in each country and region with focus on the three pillars of (1) Increasing the ratio of women in managerial positions, (2) Celebrating diversity, and (3) Building and enabling local communities.

Diversity & Inclusion

Respect for the people around us and active acceptance of diverse values are important for our sustainable growth. We place great importance on the diversity of employees and other people involved in the business and respect human rights.

Human capital for sustained growth

For Nippon Paint Group to grow in a sustainable manner, it is essential that we secure skilled human resources and offer a corporate culture and working environment in which it is comfortable and rewarding to work, thus allowing people to leverage their individuality and capabilities to the fullest. The Group promoted the enhancement of human resources by investing in human capital through the intensification of training programs developed autonomously by each partner company according to the challenges faced. Expanding training programs can expect to lead to improving competitive advantage in hiring new college graduates and mid-career people and reducing the turnover ratio. Accordingly, it is a key initiative for enhancing the human resource portfolio.

DuluxGroup offers a comprehensive learning program for everyone from those who are newly appointed to senior leaders to develop the skills they need to operate as global leaders and to foster ongoing learning, building capability along their career journey. They encourage employees to “Own their Growth” and to take the initiative to access the learning that they need to improve their skills and specialist knowledge. DuluxGroup continually revises and improves the curriculum to ensure it remains relevant, effective and aligned to DuluxGroup’s growth ambitions. The Group currently offers programs such as “Leading in Complexity,” “Commercial Acumen” in partnership with Harvard, and a full Sales Capability and Marketing curriculum.

The NIPSEA Group adopts a group-level learning framework that ensures the holistic development of our employees through upskilling their capabilities and competencies required at differing job levels. Training and educational programs are uniquely tailored at the country level depending on the needs identified from our annual training needs analysis. NIPSEA Group’s provision of diverse training and educational programs ranges from technical to leadership upskilling to better equip our employees with the necessary skills in today’s ever-evolving business landscape. In FY2021, we clocked a total of 387,243 hours for our employees, with an average of 11.0 hours per employee.

In Japan Group, we offer training programs for prospective hires, new employee induction training, follow-up training, training for newly appointed managers, and annual training, etc., to all employees as appropriate to their current career stages and the roles it is hoped they will play. In FY2021, total training hours for selection training and group training by job level at Group companies in Japan reached 32,000 hours. The increase in training hours was the result of expanding and enhancing the target of training programs and training schedules by improving the on-boarding training we offer to new mid-career hires and opening a business college with the goal of strengthening the business literacy of our executives.

Ensuring and enhancing diversity

Assembly of human capital with diversity is one of the primary basics of Asset Assembler model. Nippon Paint Group Global Code of Conduct established in January 2022 states that the Group embraces diversity. In addition, the Group partner companies worldwide implement human resource management with the goal of ensuring and enhancing diversity.

The NIPSEA Group is continuously working in Asian countries to improve gender representation in its management team and the Board of Directors. Hiring local talent in countries and regions where we operate businesses not only leads to strengthening the competitiveness for acquiring market share but also contributes to the creation of employment opportunities in local communities. The percentage of people hired from local communities to senior manager positions has reached 57.1%. DuluxGroup has doubled the number of women in the senior leadership team of all business divisions in the last five years, implementing programs for increasing the ratio of women in each position level, focusing on improving the gender balance in particular among senior managers.

Dunn-Edwards has increased female representation among its leadership ranks from 20% to 30% over the past five years and successfully mirrors the ethnic demographics of each of the diverse communities they operate in.

In Japan Group, we are conducting activities for promoting female employees to managerial positions by taking reference from success cases of the Group partner companies overseas. Specifically, we have been sending female employees selected through internal entry system to external training programs for cross-industrial exchanges. We are working to develop executives by fostering a leadership through collaboration with members in other industries, and by encouraging autonomous career development by providing opportunities to meet a variety of role models. We are also actively promoting the appointment of management and executive personnel with high expertise from outside the company. As of 30 June 2022, two female Director of the Board, one female Executive Officer, and one female Corporate Officers were appointed to Nippon Paint Holdings.

Improvement of employee engagement

Improving employee engagement can lead to excellent human resources to continuously perform at their potential. We regularly monitor and review the employee satisfaction levels of partner companies which newly joined the Group based on Asset Assembler model (cf. success cases at DuluxGroup). Dunn-Edwards uses employee feedback to drive initiatives targeted at attracting, developing and retaining a workforce that will provide a competitive advantage. Historically, data shows that the first 2 years of employment, as well as advancement during that time, are the most critical to create a connection with the company. Based on this information, salary, retirement plan (401(k)), and leadership from front-line managers are the most important factors. As a result, we have structured compensation, healthcare benefits, tuition assistance, vacation, and retirement plan policies to ensure attractive and competitive offerings in these areas, and we continue to adapt and develop training for career advancement at all levels.

<table>
<thead>
<tr>
<th>Percentage of women</th>
<th>Employees</th>
<th>Management post</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIPSEA Group</td>
<td>24.8%</td>
<td>25.1%</td>
</tr>
<tr>
<td>Dunn-Edwards</td>
<td>70.6%</td>
<td>30.7%</td>
</tr>
<tr>
<td>DuluxGroup</td>
<td>34.7%</td>
<td>32.9%</td>
</tr>
<tr>
<td>Japan Group</td>
<td>22.0%</td>
<td>6.1%</td>
</tr>
</tbody>
</table>

Employee satisfaction level (Japan Group)

<table>
<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>76%</td>
<td>73%</td>
<td>72%</td>
<td>71%</td>
<td>70%</td>
</tr>
<tr>
<td>Asia</td>
<td>78%</td>
<td>77%</td>
<td>76%</td>
<td>75%</td>
<td>74%</td>
</tr>
<tr>
<td>China</td>
<td>82%</td>
<td>81%</td>
<td>80%</td>
<td>79%</td>
<td>78%</td>
</tr>
<tr>
<td>America</td>
<td>76%</td>
<td>75%</td>
<td>74%</td>
<td>73%</td>
<td>72%</td>
</tr>
<tr>
<td>Other</td>
<td>79%</td>
<td>78%</td>
<td>77%</td>
<td>76%</td>
<td>75%</td>
</tr>
<tr>
<td>Total</td>
<td>76%</td>
<td>75%</td>
<td>74%</td>
<td>73%</td>
<td>72%</td>
</tr>
</tbody>
</table>

* The number of employees at DuluxGroup at the time of year-end, was included within the Consolidated total for the FY2020.
The Group companies in Japan are encouraging men to take childcare leave to support men actively participating in childcare. In addition, these companies have established flexible working systems in step with the life events of their employees, including work-from-home systems and systems allowing paid leave to be taken in hourly increments, shortened working hours, and childcare and nursing care. We have introduced a working from home system in order to respect and assist the work motivation of employees by developing a working environment that allows employees to bring out their full potential without being constrained by working hours and geographic location of employees. As measures to prevent COVID-19 infections, we apply the working from home system to employees without limiting the employees who are allowed to work from home and the frequency of usage. The questionnaire survey of employees of the Group companies in Japan conducted in February 2022 had positive responses, such as working from home system improves work efficiency by making it easier to schedule a meeting with overseas attendants; and the use of web conferencing system facilitates smooth information sharing and decision making.

Basic policy for respecting human rights

The Nippon Paint Group has clearly stated in the Nippon Paint Group Global Code of Conduct that we respect the human rights of employees and stakeholders.

Case studies

Employee engagement scores at DuluxGroup

DuluxGroup’s engagement score reached 86% in 2021, which was 8 percentage points higher than the score in the previous survey, which was conducted prior to joining Nippon Paint Group, and is well above industry and high performance norms. The high engagement score reflects the pride that DuluxGroup people have for their brands, with 97% of employees recommending DuluxGroup products to their family and friends. DuluxGroup employees understand their part in the bigger picture and understand from their job contributes to the business strategic priorities. Their continued high scores are driven by leaders at a local level, who are empowered to work with their teams to drive high performance. DuluxGroup enables this by investing heavily in leadership development.

Due diligence in human rights

For the past two years, DuluxGroup has published its Modern Slavery Statement in compliance with Australian legislation. DuluxGroup is committed to identifying, assessing and addressing modern slavery risks within its operations and throughout its supply chain. Modern slavery is a serious violation of a person’s basic human rights. DuluxGroup opposes modern slavery in all its forms, and respects and supports the human rights and freedoms of workers within our operations and throughout our supply chain.

The Group companies in Japan utilize self-diagnosis (the UN Global Compact SAQ Survey) provided by UN Global Compact Network Japan to facilitate awareness of supply chain risks, in an effort to survey and understand the status of various ESG-related supplier activities. This survey assesses the level of an organization’s initiatives with regard to corporate governance, human rights, labor, the environment, fair corporate activities, quality/safety, information security, supply chains, and coexistence with local communities.

Growth with communities

We will invest in communities through our value chain and to achieve sustainable business growth based on market growth, brand strengthening and good relationships with local communities.

Our mission from the Company’s very beginning has been to create innovative paint and coating solutions that bring colors and joy to people’s everyday lives. The Group will contribute to supporting and promoting sustainable development of communities through its business activities. We have set three priority areas, which we call the “Three Es,” under Nippon Paint Group’s global CSR umbrella, “Coloring Lives,” for conducting activities to promote the Growth with Communities. Education, to foster our stakeholders of the future; Empowerment, to develop our industry through activities to support and provide vocational training to socially vulnerable people and to discover talent among younger generations; Engagement, to work together with local communities and stakeholders.

Potential opportunities from the Group investing in society are increased business opportunities in founding local communities generating economic growth, increased employee engagement and commitment to our Group companies, and strong connections with local communities, which contribute to MSV. On the other hand, we have identified potential risks from the Group neglecting its obligations to stakeholders, which include a loss of trust from local communities leading to decreased ability to attract and retain talented employees and favorable business partners; lower consumer and customer loyalty – and ultimately – loss of shareholder confidence and reduced opportunity to deliver on our promise of MSV.

Case studies

Nippe Fun Farm (Japan Group: support for employment of persons with physical disabilities); Rural Revitalization for Cheongde County (NIPPSEA Group: reconnecting with the traditional community); Pet Refuge NZ (DuluxGroup: helping to build refuge shelters for pets of people who are escaping domestic violence situations); Tradeswoman (DuluxGroup: program aims to increase the number of women in construction and related trades); Color Way of Life - ART+nIPPSEA Group: Raising students’ awareness of art and colour as well as their culture through painting; Department of Conservation Trail Huts (DuluxGroup: protecting historical buildings and local community assets); Martin Art Museum (DuluxGroup: donation for painting a new machine shed for teenagers).

Investment in social contribution activities and its results and impacts

<table>
<thead>
<tr>
<th>Pillar</th>
<th>Overview</th>
<th>Example of activities</th>
<th>FY2021</th>
<th>Data collected</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>Activities for children and students who are our potential future customers or employees</td>
<td>Industry-University Collaboration Activities with the University of Tokyo Japan Group; AVDA Awards conducted annually (NIPPSEA Group: International competition and awards platform for architectural and interior design students who are our future customers); Smiling Mind (DuluxGroup; program using color to create mindful spaces at elementary schools); Off the wall Graffiti (Dunn-Edwards: art education program for urban artists through after school programs, events and trained curriculum)</td>
<td>20</td>
<td>204</td>
<td></td>
</tr>
<tr>
<td>Empowerment</td>
<td>Support activities and vocational training for socially vulnerable people, and activities to find talented individuals</td>
<td>Nippe Fun Farm (Japan Group: support for employment of persons with physical disabilities); Rural Revitalization for Cheongde County (NIPPSEA Group: reconnecting with the traditional community); Pet Refuge NZ (DuluxGroup; helping to build refuge shelters for pets of people who are escaping domestic violence situations); Tradeswoman (DuluxGroup: program aims to increase the number of women in construction and related trades)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engagement</td>
<td>Collaborations with local communities and stakeholders; cooperation with NGOs, and disaster relief</td>
<td>Color Way of Life - ART+nIPPSEA Group: Raising students’ awareness of art and colour as well as their culture through painting; Department of Conservation Trail Huts (DuluxGroup: protecting historical buildings and local community assets); Martin Art Museum (DuluxGroup: donation for painting a new machine shed for teenagers);</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Global promotion system

In FY2020, we launched a global conference to create closer links among Group companies for closer information sharing and mutual consultation. The conference is the centerpiece of the NIPPON PAINT Group Global Outreach Program designed to enhance social contribution efforts throughout the Group. Based on this program, we have implemented outreach programs in 20 countries across Asia and Europe as well as in Australia, New Zealand, the United States, and Japan. Progress is shared globally to upgrade our initiatives across the Group.

The resources used, results, and impact of our activities are briefly summarized in the following table. In FY2021, the Group used funds amounting to over US$7.08 million for roughly 204 activities that positively affected the lives of some 290,000 people worldwide. In Japan Group, the Group used over ¥269 million for social contribution activities, including some ¥5.22 million in donations to NPQOs and other organizations.
Promote the development of sustainable products while pursuing innovation

Hong Jiang  
NIPSEA Group / NPCS

The purpose of Nippon Paint Group is enriching our living world through the power of Science + Imagination. It describes our commitment to creating innovations that bring benefits to our society, by using our technical strengths and intellectual assets, including intellectual property, organizational capability, and technology networks, across Nippon Paint Group. One recent example is that, since the outbreak of COVID-19 pandemic in 2020, the Group has significantly increased investment in anti-viral technology, and developed a range of paint products to address this social challenge.

Our technology mission is to drive and sustain growth and market share in Japan and globally through striving to be a leading technology organization for coatings and its adjacent markets. There are three pillars in our innovation strategy: 1) build adaptive organization; 2) develop core enabling technology competency, and 3) grow into adjacent and emerging markets. It is the implementation of our Group vision for Maximizing Shareholder Value from a technology perspective. We believe that our technology organization’s culture of being customer centric, socially responsible and collaborative is the key driver to success.

Importantly, the technology collaboration and intellectual property sharing among our partner companies around the globe is under the principle of Asset Assembler model, which Nippon Paint Group strategically manages to employ the business of partner companies. The technology teams of partner companies possess high autonomy to effectively address the needs from their respective markets and customers. On the other hand, in order to drive technology sharing and capability leveraging among partner companies, the Global Technology Council (ITC) was established, to promote technology exchange platforms and cross-PC projects. We have built up adaptive ways to enhance global technology collaborations to enhance added value of intellectual property. The technology teams in decorative paints have formed the global technology community to share best practices and leverage capability in joint technology value of intellectual property. The technology teams in decorative paints have formed the global technology community to share best practices and leverage capability in joint technology value of intellectual property. The technology teams in decorative paints have formed the global technology community to share best practices and leverage capability in joint technology value of intellectual property.

Innovation for a sustainable future

In today’s society, problems that are difficult to solve with past methods are becoming more and more apparent. We will strengthen our innovation output with active utilization of partnerships.

Significance of R&D activities in our paint and paint related businesses in utilizing and adding value to intellectual property

Worldwide there are 3,887 technical staff working in Nippon Paint Group, with 1,171 in Japan. They are our strong innovation power and core competitiveness for achieving sustainable business growth in the marketplace. Our technical staff are working in 50 R&D and technical centers to serve our domestic and global customers and consumers, including our major R&D centers in Tokyo and Osaka in Japan, Shanghai in China, Singapore, Melbourne in Australia, Los Angeles and Cleveland in the US, and France in Europe. In 2021, the total technology related expense in Nippon Paint Group is above 24.3 bn yen. In 2021, Nippon Paint Group has filed 200 new patents, and by end 2021 owned 1,000 granted patent rights. Nippon Paint Group has classified its core technologies related to paint and coatings and manages its intellectual property portfolio in 10 categories, which are polymer chemistry, color science, formulation, curing technology, dispersion technology, application technology, process technology, rheology, weathering and corrosion, and measurement science. Subject matter experts are working in core R&D teams in the R&D centers, and collaborating with scientists from the global network of technical centers to support product development across the group.

Nippon Paint Group possesses a broad open innovation network with universities and academic research institutions worldwide. In 2020, the strategic research partnership with The University of Tokyo was initiated, with the University of Tokyo & Nippon Paint joint laboratory established. The partnership aims to create innovative coating technologies in three fields, infectious disease risk reduction, social cost and environment burden control, and contribution to smart society. In Singapore, NIPSEA Group has been collaborating with the research institutes of A*STAR (Agency for Science, Technology and Research) for decades. Recently, NIPSEA Group has strategically joined hands with A*STAR to develop disruptive technologies in the fields of smart surface enabling autonomous driving, and applying artificial intelligence in coating research.
Sustainability Strategy

Management of chemical substances

In 2021, Nippon Paint Group launched the chemical substance management system named “Green 30” in order to minimize the impact on the environment and human health. The system is developed to manage chemical substances not only from Japanese chemical regulations, but also chemical substances of global concern from international treaties, such as REACH regulations. We classify the chemical risks in three categories according to the laws and regulations in the countries where our business operates; prohibited, restricted for new introduction, and avoided for new introduction. The system started in operation in Japan in 2021, and the practice is being introduced to our partner companies outside Japan.

Alkyphenol ethoxylates (APEO) are surfactants and include a subcategory of nonylphenol ethoxylates (NPEO/NPPE). These types of nonylphenols (NPs) are being regulated by the EPA and REACH. Nippon Paint has been steadily phasing out APEO-containing surfactants. In 2021, we eliminated the use of the nonylphenol compounds in our products in Europe. Dunn-Edwards continues to phase out APEO-containing surfactants through product improvement and ensures that no new APEO-containing raw materials are allowed in the newly developed products.

In addition, we have been substituting the UV absorbers that are being considered as persistent organic pollutants (POPs). Our next plan is to completely phase them out for all products for Europe by the end of 2023. In DuluxGroup, managing the risks associated with hazardous chemicals used in the formulation of the products is an important priority for our businesses. We have developed a management approach to ensure that substances with potential for long term health or environmental effects (chemicals of concern) are identified, with their risk evaluated. Improvement actions, such as formulation changes or improved packaging and labelling, are put in place to reduce or eliminate the risk of harm.

Chemicals of concern are identified from supplier safety data sheets, regulatory lists such as the European “Substances of Very High Concern” and stakeholder sustainability program listings (e.g. Living Building Challenge Red List). Whenever a new ingredient is proposed for introduction, it is reviewed against the Chemicals of Concern criteria and existing listing. If identified as a chemical of concern, a risk assessment is undertaken to determine if the chemical can be safely used in the specific product and by the intended end-user or if an additional control or an alternative formulation is needed.

Scientific knowledge, regulations and community concern related to chemicals are constantly evolving. To keep our knowledge up to date, DuluxGroup has also established a process for monitoring and reviewing stakeholder and regulatory reviews of chemical classification so that emerging concerns can be picked up and acted on pro-actively.

The effectiveness of our program is measured by tracking the usage of priority chemicals of concern (in kilograms per $000 sales) and the proportion of chemicals that had a risk management plan developed. Since 2018, DuluxGroup has had a 17% reduction in the usage of priority chemicals of concern, despite the addition of some new substances to our chemicals of concern listing. Some examples of our chemicals of concern initiatives in 2021 include Dulux Protective Coatings Congard product is now Cobalt and Meko free. Dulux Protective Coatings Formulation of a new toluene-free epoxy primer, Durepon 66. Dulux Porter’s. Reformulation away from crystalline silica in its product range.

Innovations in anti-viral paints

In February 2022, Nippon Paint launched PROTECTOMP™ brand in September 2020, named after the function “PROTECT” people’s lives from threats of viruses and bacteria + to turn the function “ON” to the surfaces of all things. Since then, we have combined all of Nippon Paint Group’s paints, coatings and surface treatment technologies to offer a lineup of products for industrial, DIY and household use.

In 2021, Nippon Paint (NPTU) released “PROTECTOMP™ Interior Wall VK Clear”, “PROTECTOMP™ Floor VK Clear” and Nippon Paint Automotive Coatings released “PROTECTOMP Car Interior VK Clear.” Three of these new products have been named “PROTECTOMP™ brand. In addition to the “Interior Wall venair” for interior walls, “Floor VK Clear,” a water-based clear paint for floors, is expected to be effective when droplets containing viruses adhere to floor surfaces. “Car Interior VK Clear,” is expected to have sustained anti-viral function with excellent stability and durability in outdoor use and application property to the car interior and to have adhesion to the substrate. In addition, our group and the University of Tokyo have jointly conducted research activities on coatings technologies with anti-viral and anti-bacterial functions to reduce the risk of infection. This is one of the joint research themes under the industry-academic co-creation agreement signed in May 2020.

In response to broader societal concern about indoor air quality, DuluxGroup Australia has recently launched UltraAir® interior wall paint range. The products have ultra low volatile and ultra low chemical emissions. Going beyond low VOC, UltraAir® has achieved GreenGuard Gold certification. This is a third party certification that evaluates more than 10,000 chemicals and volatile organic compound (VOC) and demonstrates that UltraAir® helps reduce indoor air pollution. These advanced formulations have also achieved Global Green Tag for Environmental Sustainability and Platinum Health certification and can contribute to the achievement of green building project certifications such as LEED and BREEAM, respectively. Nippon Paint has a verified Environmental Product Declaration (EPD) that quantifies the environmental impact of the product. The availability of EPDs along with GreenTag and GreenRate will be particularly valuable in the commercial sector in Australia where reducing odor and fumes is important to both trade and household consumers, making the UltraAir® product has significant appeal across all market sectors.

Chromium (Cr) free primer for construction industry

With the recent issuance of different regulations regarding pollution control for VOCs and heavy metals, environmental protection has been gaining more focus in the construction industry. Nippon Paint has developed chromium (Cr) free primer for coil coatings, which has now become an important element in industrial application and environmentally friendly coating can be widely applied to large areas of metal for decoration and protection.

Occupational Safety and Health Administration (OSHA) studies have determined that hexavalent chromium, a potent carcinogen, can cause lung cancer, with prolonged exposure resulting in silicosis and paragonitosis of the septum. The new Cr free coating primer can help to eliminate the medical risks to users and meet the stringent standard. This new technology also exhibits excellent corrosion protection and environmental properties compared to those obtained in industrial coil coating systems.

The new Cr free primer products have been successfully launched in China as the largest coil coating market. Nippon Paint has completely phased out Cr containing primer products for coil coatings in China.