Sixth Medium-Term Management Plan

(FY2022-FY2024)

- Moving into the Next Phase of Growth -



Contents



- 1 Corporate Philosophy and Management Vision
- Review of Fifth Medium-Term Management Plan (1)-(3)
- Business Environment and Longer-Term Vision (1)-(2)
- 4 Basic Policy of Sixth Medium-Term Management Plan
- 5 Earnings Targets (1)-(2)
- 6 Capital Policy
- Business Strategy (1)-(7)
- **8** Business Base Strategies (1)-(5)
- 9 Investment Plans and Cash Flow Projections

1. Corporate Philosophy and Management Vision



Corporate philosophy

Contribution to society and the public, and sound management

Management vision

Realization of

- long-term protection of bridges
- multifaceted steel structure engineering
- creation of a resilient social environment and harmonious coexistence with the natural environment
- construction of a robust operational foundation

as well as the pursuit of sustained expansion



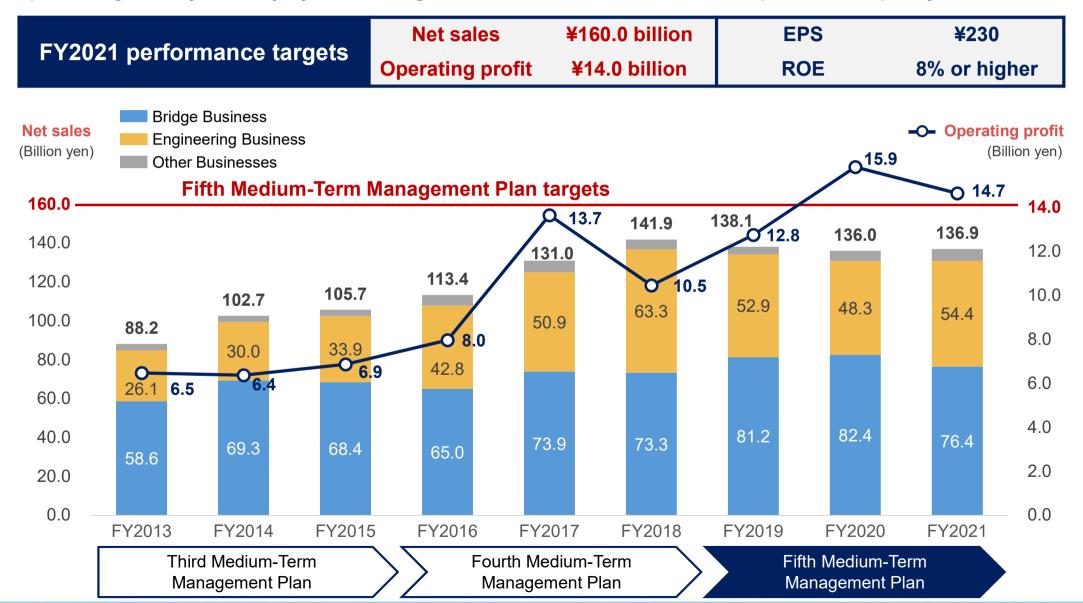
Roles of YBHD Group

- Creating value for society and the public by building and protecting high-quality products and connecting them
 to future generations
- Contributing to the improvement of regional convenience and the development of social life and logistics through infrastructure development
- Contributing to and driving the development of each business segment as a leading company
- Contributing to the development of the human talent that underpins national and regional economic development by transferring technology and knowledge through our overseas business

2. Review of Fifth Medium-Term Management Plan (1): Sales and Operating Profit



Despite changes in the business environment since the plan was formulated, we achieved the operating profit target one year early by conducting business activities in line with the plan's basic policy.



2. Review of Fifth Medium-Term Management Plan (2): EPS and ROE



Earnings per share (EPS) surpassed the plan's ¥230 target one year early Return on equity (ROE) is trending around 10%, above the plan's target of 8% or higher

FY2021 performance targets

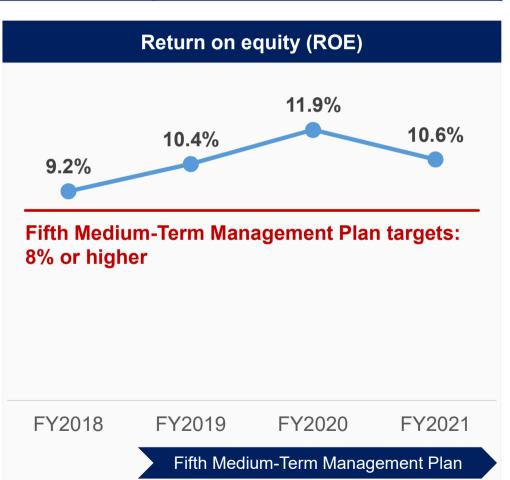
Net sales ¥160.0 billion

EPS ¥230

Operating profit ¥14.0 billion

ROE 8% or higher





2. Review of Fifth Medium-Term Management Plan (3): Progress vs. Goals



The engineered structure system business, which is on track to become a second key source of earnings, missed its targets; the core bridge business secured major bridge construction and maintenance orders, and other segments broadly achieved their targets.

| | Basic policy | | Progress and Attainment |
|---|--|----------|--|
| 1 | Optimize and maintain growth in the bridge business by reinforcing maintenance business to complement new construction work | ✓ | Strong orders for new bridge construction and maintenance, such as projects to expand highways to four lanes and major upgrade projects; performance outpaced targets, with record earnings and orders in FY2020 |
| 2 | Establish a dual-plant framework and strengthen profit-loss management to drive further growth in the engineered structure system business | ✓ | Work on establishing the dual-plant system generally proceeded as planned; orders started recovering in 2H FY2021, but earnings underperformed targets due to the impact of the COVID-19 pandemic |
| 3 | Further expand the civil engineering steel structure engineering business, as exemplified by tunnel segments | ✓ | Earnings missed targets due to sluggish orders and production, reflecting delays to work schedules for shield tunneling projects |
| 4 | Expand the overseas bridge, aluminum products, and precision equipment manufacturing businesses | ✓ | The overseas bridge business was weak due to the COVID- 19 pandemic, but earnings were firm in aluminum products and precision equipment manufacturing |

3. Business Environment and Longer-Term Vision (1)



The business environment is likely to remain positive for the Group; we forecast expansion in the bridge construction market over the next three years and longer-term growth in civil engineering demand, supported by projects related to national resilience, disaster prevention and mitigation, and carbon neutral strategies

| Segment | | Medium term | Long term | |
|-----------------------------|--|--|--|--|
| Bridge | | Growth in new construction order volume, driven by projects to expand highways to four lanes and the start of orders for the western extension of the Osaka Bay Road | Moderate decline in new construction order volume; continued steady level of maintenance projects such as earthquake-proofing and major upgrade work | |
| Funcionani | Engineered structure system | Private sector investment contracted due to the pandemic, but the market is recovering on moves to bring supply chains back to Japan | Rising investment in warehouse and logistics facilities spurred by growth in the e-commerce market, as well as upgrades to aging facilities and consolidation / redevelopment of existing facilities | |
| Engineering | Civil engineering / Construction and machinery steel | Firm demand for tunnel segments, supported by planning and implementation of major infrastructure projects such as the maglev Chuo Shinkansen high-speed rail line | Increase in demand in the carbon neutral-related market for civil engineering steel structures such as wind turbines | |
| Precision Equipment | | Flat demand in the mainstay market for LCD and OLED panel manufacturing equipment | Continued growth in demand for semiconductor production equipment | |
| Key themes for the Group | | (1) Tackle ESG issues | (2) Implement DX | |
| | | (3) Address labor shortage | (4) Eliminate serious workplace | |

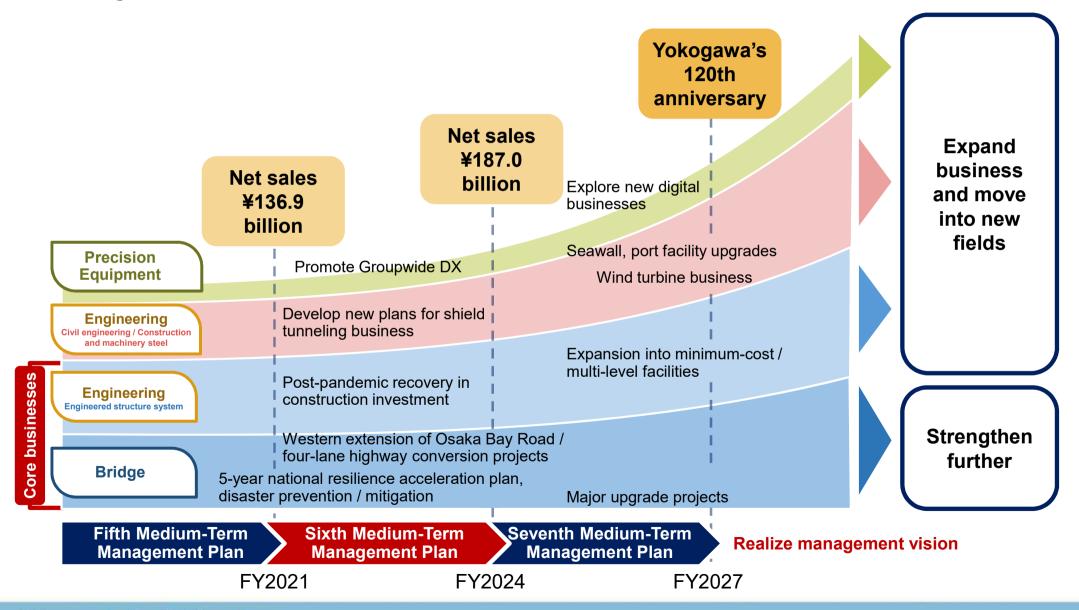
for the Group

incidents / accidents

3. Business Environment and Longer-Term Vision (2)



The Sixth Medium-Term Management Plan is positioned as a period to build the foundations for realizing our management vision.



4. Basic Policy of Sixth Medium-Term Management Plan



<Basic Policy> Build a Highly Resilient Business Base

(1) Further reinforce core businesses

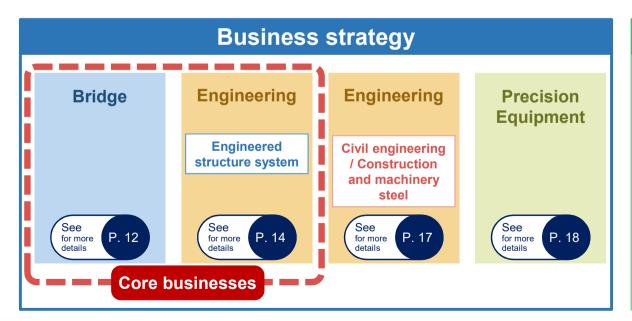
Bridge business: Reinforce maintenance services, secure orders for major new projects Engineered structure system business: Develop various management systems to improve coordination between orders and production, and make additional capital investments to improve productivity

(2) Create and develop diverse businesses

Move into new business fields such as seawall / port facility upgrades, wind power generation

(3) Establish a robust business base for the next 100 years

Develop new materials, construction methods and other technologies with low environmental impact, promote wider use of renewable energy, double investment in IT, accelerate DX measures





5. Sixth Medium-Term Management Plan: Earnings Targets (1)



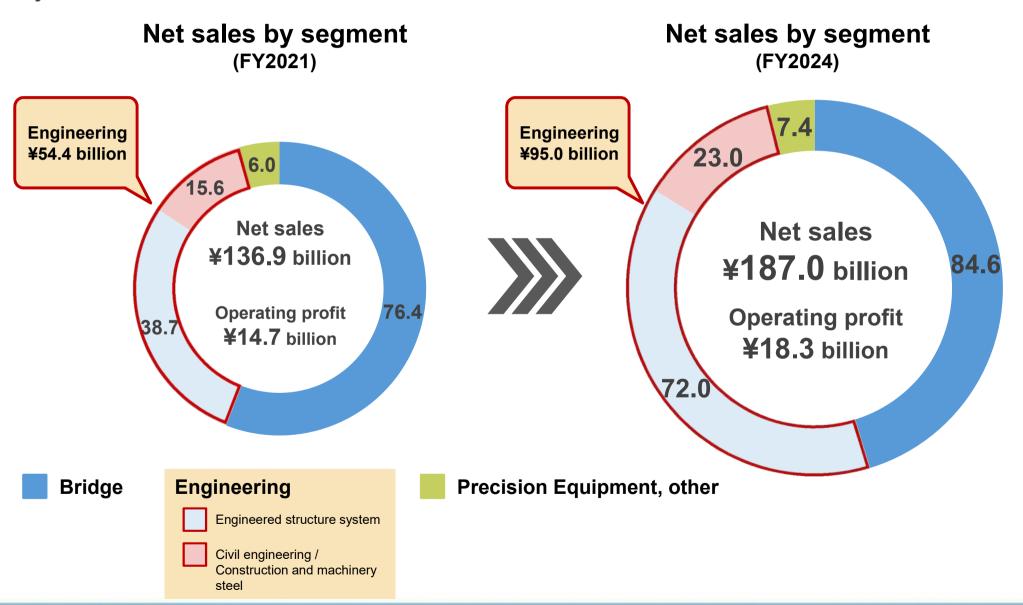
| | Fifth FY2021 targets | Sixth Medium-Term Management Plan FY2024 targets | | | |
|--------------------------------|----------------------------|---|-------|-------|--------------|
| Net sales (billion yen) | 160.0 | 138.1 | 136.0 | 136.9 | 187.0 |
| Operating profit (billion yen) | 14.0 | 12.8 | 15.9 | 14.7 | 18.3 |
| EPS (yen) | 230 | 218 | 273 | 268 | 290 |
| ROE | 8% or higher | 10.4% | 11.9% | 10.6% | 9% or higher |

^{*} Cost of equity assumption is roughly 7.3%

5. Sixth Medium-Term Management Plan: Earnings Targets (2)



We aim to sharply increase earnings by expanding the bridge business and the engineered structure systems business.



6. Capital Policy



We will continue to pay stable dividends while also increasing shareholder returns by raising the target dividend payout ratio (to 30% or higher) and buying back shares, to maintain and increase ROE.

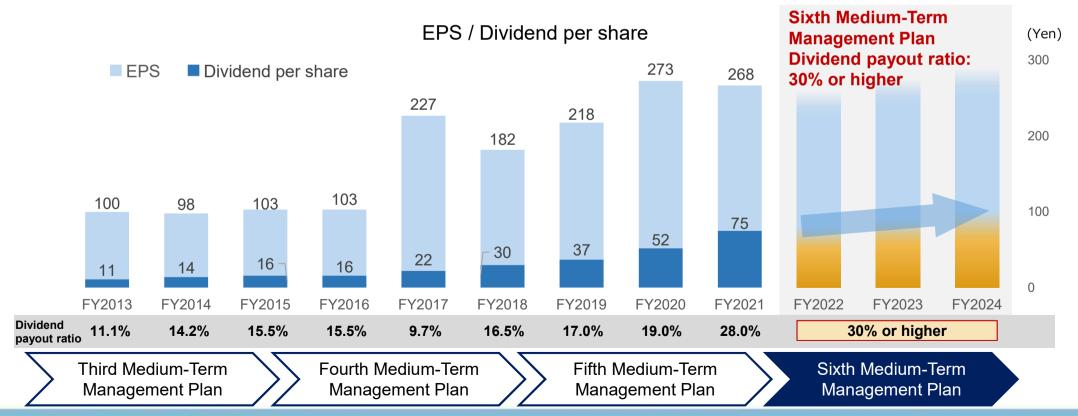
Capital policy and shareholder returns

The basic goal of our capital policy is to balance sound finances with capital efficiency. We also aim to maintain dividend increases based on a payout ratio target of 30% or higher, and buy back a certain amount of shares depending on conditions.

Cross shareholdings

Yokogawa holds shares in other companies (cross shareholdings) when doing so is deemed beneficial to increasing corporate value over the medium and long term by maintaining and strengthening business relationships and business alliances.

We are working to further reduce cross shareholdings based on dialogue with the companies in which Yokogawa holds shares.



7. Business Strategy (1) (Bridge Business: Basic Policy and Initiatives)



Policy

- Focus on securing orders for major new bridge projects starting in the next few years; also, with the new-build market likely to contract in future, strengthen the bridge maintenance business to capture emerging demand for aging infrastructure repair work
- Implement DX to achieve the new "3K" (kyuryo [wages], kyuka [time off] and kibo [prospects]) for construction workers, and reinforce safety measures

Business environment

- Projects to expand highways to four lanes, ramping up orders for western extension of Osaka Bay Road
 - Projected large increase in order volume for the new bridge construction business
- Ongoing major upgrade projects, mainly centered on expressway operators, etc.
 - Sustained strong levels of demand in the bridge maintenance business

Initiatives

- Address engineer shortage, improve productivity
 - Wider use of ICT (improve worksite efficiency, secure capacity in design departments, etc.)
- Tackle more technically challenging projects (earthquake-proofing truss and arch bridges)
 - Actively respond to demand, including through tie-ups with other companies
- Use large upgrade projects etc. to stand out in the market
 - Develop upgrade technology / processes
- Develop technologies that help to reduce environmental impact
 - Development work or new materials that reduce construction times, such as precast components, accelerated engineering processes

Bridge Business net sales



¥84.6 billion

FY2021

FY2024





7. Business Strategy (2)

(Bridge Business: Maintenance Business Operating Environment)



Large-scale upgrade and maintenance projects - projected market of ¥3 trillion

Deck replacement, girder replacement, etc.

Maintenance work such as reinforcement of bridge piers, girders, decks

Functional improvements such as road widening, addition of connecting roads

East Nippon, Central Nippon, West Nippon Expressway Companies

Large-scale upgrade and repair projects (girder and deck replacement, girder reinforcement) worth roughly ¥2.2 trillion

Metropolitan Expressway Company

Large-scale upgrade and repair projects (bridge replacement, widening, deck replacement, deck, pier and girder reinforcement) worth roughly ¥630 billion

Hanshin Expressway Company

Large-scale upgrade and repair projects (deck replacement, deck, pier and girder reinforcement) worth roughly ¥370 billion

Ministry of Land, Infrastructure and Transport (existing bridges)

Replacement of reinforced-concrete decks: around 2,100 bridges, repair steel decks: 370 bridges

Five-year program to accelerate disaster prevention / mitigation and national resilience set to get underway

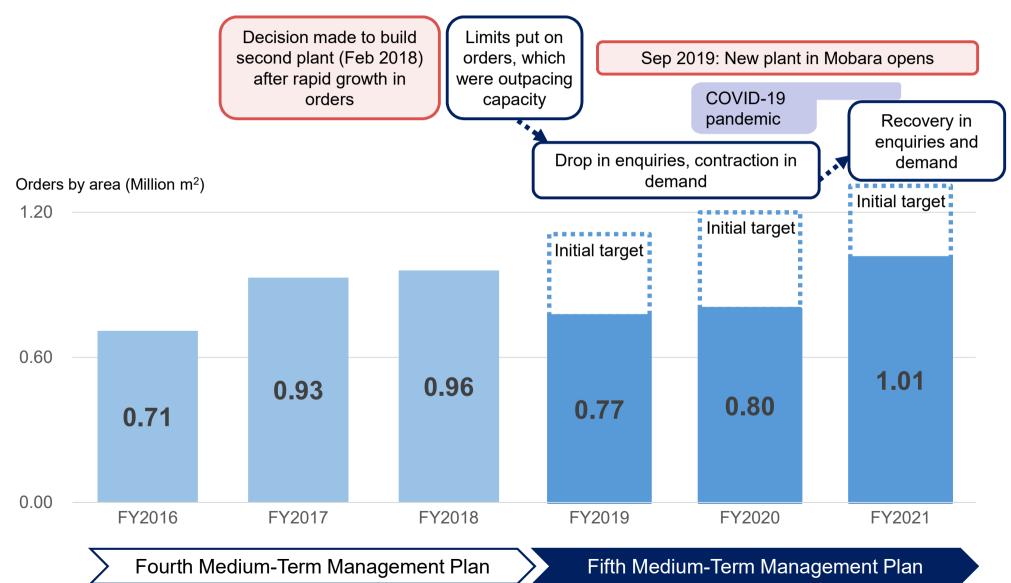
7. Business Strategy (3) (Engineering Business)

Engineered structure system

Fifth Medium-Term Management Plan Review



Sharply underperformed targets in plan's first two years due to limits put on orders and project delays caused by the pandemic; orders recovered from 2H FY2021, with 4Q order volume reaching record levels



Engineered structure system

Market Trends and Targets

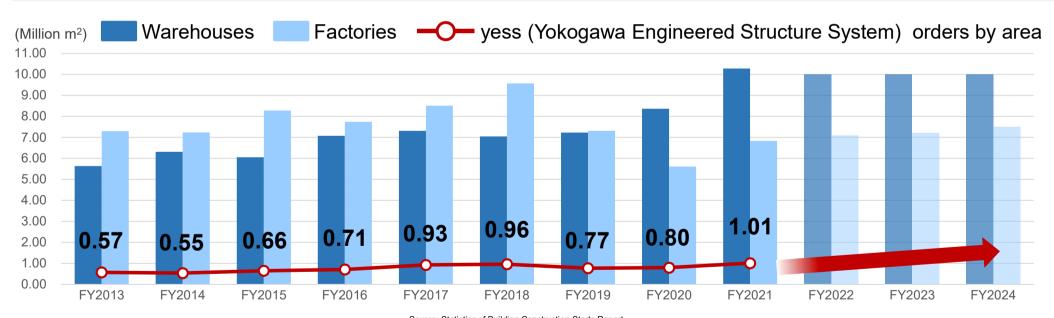


Trends in construction starts by area

 Construction of warehouses with rampways continue to lift overall construction start area and demand for lowrise warehouses also still firm; demand for factories clearly recovering on normalization of economy, return of offshore manufacturing to Japan

Targets

 Secure orders for more than 1.3 million m² by steadily promoting adoption of engineered structure system construction for low-rise warehouses and factories



Source: Statistics of Building Construction Starts Report
Order area compiled from "Number of buildings and floor area by structure, application and size (steel frame)," "Factories and workshops," and "Warehouses

Third Medium-Term Management Plan

Fourth Medium-Term Management Plan

Actua

Fifth Medium-Term Management Plan

Sixth Medium-Term Management Plan

Forecasts

Engineered structure system

Basic Policy and Initiatives

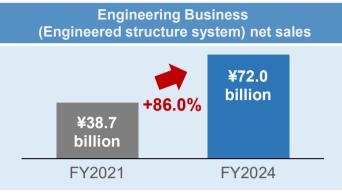


Policy

- Targeting annual orders of at least 1.3 million m² by expanding orders and production
- Achieve the above target by using ICT etc. to drive DX

Initiatives

- Initiatives to increase market share
 - Step up proposal-based marketing (identify customer needs, develop proposals that combine sales and technology)
 - Lower prices (reduce costs by introducing ICT across all divisions)
 - Shorten construction times (adopt new engineering processes and project management systems)
- Reinforce plant and worksite production systems
 - Improve coordination between dual-plant system (Mobara, Chiba) and other Group plants
 - Expand worksite support activities, identify and foster new partner companies
- Use ICT to improve productivity
 - Develop sales management and production management systems to improve business efficiency and productivity







7. Business Strategy (6) (Engineering Business)

Civil engineering / Construction and machinery steel



Policy

In the civil engineering business, continue to secure orders and production work for tunnel segments and make preparations to move into new areas such as seawalls, port facility upgrades and wind turbines

Business environment

- Continued growth in demand for deep underground tunnels in major cities
 - Tokyo: Haneda Airport Access line, maglev Shinkansen lines; Osaka: Naniwasuji line, etc.
- Wind power market expected to expand, spurred by carbon-neutral initiatives
- Many port facilities in Japan have aging bridge-type piers approaching the end of their lifespan
- In the construction market, many redevelopment projects and special large-scale projects (sports stadiums, etc.) are in the pipeline, mainly in large cities

Initiatives

- Win tunnel segment orders using strengths of new products developed with proprietary technologies
 - Develop new types of tunnel segment for soil remediation projects that utilize underground spaces
- Develop new technologies to rapidly launch businesses in new fields with good growth prospects, such as wind power generation and port facility upgrades
 - Step up efforts to capture demand for tsunami protection projects, including precast concrete seawalls
- Continue to target special construction projects such as redevelopment work and sports stadiums

Engineering Business (Civil engineering / Construction and machinery steel) net sales

¥15.6 +47.4% billion

FY2021

FY2024



Expressway tunnels



Phovare – Pitch Hovering Arena

7. Business Strategy (7) (Precision Equipment Business / New Businesses)



Policy

- The advanced technology business will step up efforts in semiconductor production equipment, demand for which continues to grow, and in panel manufacturing equipment; the information processing business will support the Group's DX strategy and digitization, and maintain and expand sales of existing software
- In new businesses, we will leverage proprietary technology, develop new technology using the latest advances, and explore new business opportunities

Business environment

- Demand for LCD / OLED panel manufacturing equipment is flat
 Semiconductor production equipment likely to see continued modest growth
- Aiming to use DX to gain competitive advantages in the Group's business fields
- Uncover dormant potential in the Group (needs and business seeds) to support new businesses

Initiatives

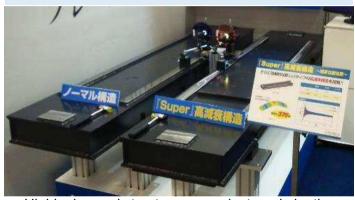
- In the advanced technology business, continue to put forward technological ideas for high-end products, and actively target production of high-volume products
- Continue to develop software that realizes i-Construction
- Explore alliances in business fields where Yokogawa has limited experience

Precision Equipment Business (Precision equipment manufacturing / Information processing) net sales

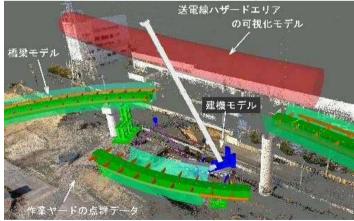


FY2021

FY2024



Highly damped structures – product made by the precision equipment manufacturing business



Bridge construction plan using 3D modeling

8. Business Base Strategies (1) (DX Strategy: Harnessing Digital Tools to Transform, Grow and Support)



DX vision

- 1. Use DX to reform work practices, improve productivity and deliver the new "3Ks" at worksites (kyuryo [wages], kyuka [time off] and kibo [prospects])
- 2. Use digital tools to reinforce safety measures
- 3. Use digital tools to preserve and utilize the skills of Yokogawa's master engineers
- 4. Use DX to support and accelerate growth in the engineered structure systems business
- 5. Use DX to explore new business opportunities

Realize our DX vision

Upgrade core IT systems

Promote user-led DX at Group companies

[Money]

Expand IT-related investment

[Assets]

Build IT infrastructure

[People]

Cultivate DX specialists

[Information]

Acquire knowledge and tech

Establish user rules for IT services Implement IT security measures

Promote DX

Establish a DX platform

Yokogawa Techno-Information Service Inc.

Utilize know-how as the Group's information processing company to support Groupwide DX

8. Business Base Strategies (2) (DX Strategy: Harnessing Digital Tools to Transform, Grow and Support)



Channel business resources into DX and build an implementation framework to create a DX platform and realize our DX vision

Cultivate DX specialists

To promote DX in back office departments, cultivate expert IT engineers through a select → train → certify process; establish an in-house certification system for employees that attain a certain level of expertise; aim to certify around 50 employees Groupwide during the Sixth Medium-Term Management Plan

Build IT infrastructure

- Introduce new networks, PCs and other IT equipment and new technologies, products and services that support information sharing and teamwork
- Build a new core IT system during the Sixth Medium-Term Management Plan to promote DX in back office departments, i.e. shift to paperless systems and improve workflow

DX KPIs

Bridge business

Construction project performance Average of 80 points or higher

Engineered structure system business

Activate management systems on schedule and secure orders and production of at least 1.3 million m² by FY2024



8. Business Base Strategies (3) (Technology Strategy)

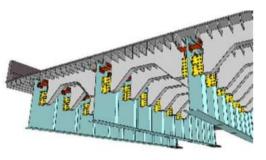


Basic Policy on R&D

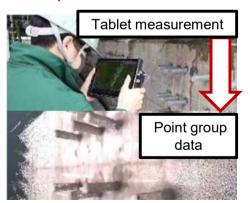
- 1. Raise technology level to maintain competitiveness
- 2. Develop technologies to support moves into new markets
- 3. Provide environmentally friendly technology to support society's decarbonization
- 4. Actively promote Construction DX to improve quality, productivity and safety

Technology strategies in each business

| Business | | Technology strategies in Sixth Medium-Term Management Plan |
|-------------------------------|--|--|
| Bridge | New bridge construction / Maintenance | Further develop technologies to support maintenance and upgrade work Increase added value in bridge-related products and develop new products |
| | Engineered structure system | Reduce costs and improve functionality to boost sales of engineered structure systems (Streamline designs, adopt multi-level designs) |
| Engineering | Civil engineering / Construction and machinery steel | Expand applications for civil engineering steel structures (floating wind turbines, etc.) Promote R&D in environmental technologies (next-generation water-processing facilities) Commercialize Phovare – Pitch Hovering Arena |
| Precision | Precision equipment manufacturing | Improve performance of highly damped structures |
| Equipment | Information processing | Increase competitiveness by adding / improving functions of software-aided bridge design and manufacturing Support DX rollout at Group companies |
| Groupwide technology strategy | | Actively promote use of Construction DX at production sites Reduce Scope 1 and 2 environmental impact |



Steel-C.A.P road bridge deck replacement method



Using tablet devices to measure anchor bolts (Construction DX)

8. Business Base Strategies (4) (Human Resources Strategy)



Chronic labor shortage due to Japan's aging / shrinking population

Basic policy

- Improve business efficiency across the whole Group
- Attract, retain and train human resources, secure work for employees
- Reform work practices

Attract human resources

- Pass on technological skills and know-how Hire people with the goal of maintaining the Group's longer-term competitiveness
- Further improve the retention rate
 Create motivating workplaces

Personnel plan

Increase Group headcount by around 200 to roughly 2,150 by FY2024 in line with business expansion

Train human resources

■ Enhance personnel assets
Step up training initiatives

Create a diverse workforce

- Hire people from different backgrounds (new graduates, mid-career)
- Work with overseas Group subsidiaries to train and utilize talented personnel
- Explore career design paths for female staff in general and managerial roles

8. Business Base Strategies (5) (ESG Initiatives)



Continue to support the environment and society through the Group's business activities, such as maintaining and upgrading public infrastructure

Environment



- Capture demand from national resilience plans
 Develop underground river structures, seawalls, bridge deck
 replacement methods
- Develop green energy and technologies with low environmental impact

Make effective use of floating wind turbines, next-generation water treatment facilities, low-carbon materials, etc.

■ Reduce CO₂ emissions

Switch to renewable energy, install solar power facilities, etc.



FY2024 20% reduction FY2030 50% reduction

FY2050 Carbon neutral

* vs. FY2020, Scope 1, 2

■ TCFD-based information disclosure

Social



- **■** Promote diversity
- **■** Reform work practices
- Train human resources, pass on technical skills
- Support disaster recovery, carry out emergency checks, provide temporary bridges
- Eliminate serious workplace accidents and incidents

Enforce safety measures, improve onsite installations, use DX to improve safety

Governance





- Reinforce risk management
 Group internal control system, voluntary audits
- Enforce compliance
 Compliance Committee, internal whistleblower system
- Strengthen corporate governance system
 Evaluate board effectiveness, improve cooperation with outside directors
- Implement IT security measures
 Reevaluate and strengthen current measures

9. Investment Plans and Cash Flow Projections



Key investments during Sixth Medium-Term Management Plan

Investments in IT and decarbonization

- Invest a total of ¥7 billion in IT over three years to drive DX
- Invest ¥0.33 billion in solar power systems at offices and plants

Key investments (three-year total)

| Purpose | Amount (Billion yen) |
|-------------------------------|-------------------------|
| Additional capacity | 1.6 |
| Rationalization, labor saving | 0.6 |
| Maintenance, upgrades | 4.2 |
| Environmental initiatives | 0.4 |
| DX / IT related | 7.0 |
| Other | 4.2 |
| Total | 18.0 |

Projected cash flow during the Sixth Medium-Term Management Plan

We forecast cash inflow of ¥31 billion over three years.

Roughly 60% is to be allocated to capex, with the remaining 40% for shareholder returns

Cash inflow Cash outflow Capex **Operating** ¥18.0 billion cash flow ¥31.0 billion (interest-bearing debt Shareholder to cover any shortfall) returns Approx. ¥13.0 billion

^{*} Three-year totals

(Reference)



Composition of Yokogawa HD Group segments

| | New bridge construction | Design, manufacture, and on-site construction of new bridges | |
|-------------------------|-----------------------------------|---|--|
| Bridge Business | Maintenance | Maintenance and repair of existing bridges | |
| | Overseas | Design, manufacture, and on-site construction of bridges outside Japan | |
| | Engineered structure system | Design, manufacture, and on-site construction of system structures ("yess buildings") | |
| Engineering | Civil engineering | Design and manufacture of tunnel segments Design and manufacture of off-shore and port structures | |
| Business | Construction and machinery steel | Construction of steel frameworks and forge work for high-rise buildings, etc. Design, manufacture, and on-site construction of moveable building systems (YMA) Water treatment equipment manufacturing business | |
| Precision Equipment | Precision equipment manufacturing | Production of high-precision frames for manufacturing equipment for LCD panels, OLED panels, and semiconductors | |
| Business | Information processing | Software development | |
| Real Estate Business | | Leasing some real estate owned as logistics warehouses, etc. | |