時代にまっすぐ、技術にまじめです。

Earnings Announcement Fiscal Year Ended March 2020

May 26, 2020

Hibiya Engineering,Ltd.

These materials include forward-looking statements that incorporate risks and uncertainties and are not guarantees concerning future performance. Future performance may differ from forecasts in these materials due to changes in the operating environment and other reasons.

Financial Summary



(Billion yen)

- Orders received increased 3.4% (¥2.6 billion) mainly because of higher NTT Group orders
- Sales increased 8.4% (¥5.8 billion) mainly because of progress at large projects
- Big increases in earnings at all levels mainly because of a higher profit margin

*Most Sixth Medium-term Management Plan targets and FY3/20 financial goals were achieved.

	2018/3 Actual	2019/3 Actual	2020/3 Actual	YoY (%)	2020/3 Forecast (Announced Feb. 5, 2020)	Targets of 6th Medium-term Management Plan
Orders Received	72.5	75.8	78.4	3.4%	75.0	75.0 ~
Net sales	66.8	70.0	75.8	8.4%	75.0	75.0 ~
Operating Profit	3.1	2.0	3.6	80.1%	4.0	4.0 ~
Ordinary Profit	4.0	3.2	4.2	32.0%	4.4	5.0 ~
Profit attributable to owners of parent	7.2	2.7	3.5	30.5%	3.6	3.0 ~

*Forecasts were revised mainly due to the sale of all shares of Nihon Meccs, which was an equity-method affiliate.



Orders received by category & by customer (consolidated)

- The order backlog continued to increase.
- NTT Group orders increased in FY3/20 to the ¥40 billion level because of increasing demand for 5G facilities and data center renovations.





Sales by category & by customer (consolidated)

- Sales growth continued in FY3/20.
- A big increase in sales due to progress at large private-sector projects and a recovery in sales involving NTT Group projects.





Major completed projects and projects carried over

Completed projects

Projects carried over





Summary income statements (consolidated)

- The gross profit margin increased in FY3/20 because of rigorous management of construction project budgets.
- The ROE recovered to 6.1%.

	2018/3	2019/3	2020/3		2020/3	(Billion yen) Targets of 6th
	Actual	Actual	Actual		Forecast (Announced Feb. 5.	Medium-term Management
Net sales	66.8	70.0	75.8		2020)	Plan
Cost of sales	55.9	60.4	63.9			
Gross profit (GP margin)	10.9 (16.3%)	9.5 (13.5%)	11.9 (15.8%)	Net sales	75.0	75.0 ~
SG&A expenses	7.7	7.5	8.2			
Operating profit	3.1	2.0	3.6	Operating profit	4.0	4.0~
Non-operating income	0.9	1.1	0.5			
Ordinary profit	4.0	3.2	4.2	Ordinary profit	4.4	5.0~
Extraordinary income	4.5	0.5	0.8			
Income taxes	1.2	0.9	1.4	Profit attributable to	36	30~
Profit attributable to owners of parent (ROE)	7.2 (12.3%)	2.7 (4.7%)	3.5 (6.1%)	owners of parent (ROE)	5.0	(5.0% ~)



Distributions to shareholders

Basic policy

Based on the earnings targets of the 6th medium-term plan, stock will be repurchased in a flexible manner as part of shareholder distributions while continuing to place emphasis on dividends.

Dividends

A big increase in shareholder distributions using dividends



Repurchases

Consistently repurchasing shares

Treasury Shares Repurchased 2018/3 2017/3 2019/3 2020/3 2015/3 2016/3 Shares 450,000 440,000 460,000 4,490,000 370,000 300,000 Amount 720 700 750 11,020 700 560 (million yen)

5th Medium-term Management Plan

6th Medium-term Management Plan

Sixth Medium-term Management Plan and Achievement

The Sixth Medium-term Management Plan: April 2017 - March 2020



Fundamental goal and core strategies

Fundamental Goal

"Establish and reinforce corporate reforms" for the stable and long-term continuation and advancement of business operations

Core Strategies

Invest in human resources and ICT to change how people work

- Recruiting, training and skill enhancement activities
- Workforce diversity activities
- Maintain the proper work-life balance
- Establish a competitive edge and operate efficiently

- More advanced life cycle total solutions
- Expand and upgrade consistentrevenue businesses
- Cooperation among Hibiya Engineering Group companies
- Collaborative sales activities with the NTT Group
- Use alliances



Achievement in FY3/18- FY3/20

Invest in human resources and ICT to change how people work

Invest in human resources and ICT to change how people work	Jobsite efficiency and stronger risk management by using ICT and discussions & follow-ups
 A company-wide cloud-based desktop service Started using a cloud-based expense processing system and working time management system Started using a cloud-based human resources system Internet processing of invoice and order forms using 	 Using apps for remote jobsite confirmations and follow-ups Higher efficiency due to schedule management, chart and other apps Virtual jobsite accident lessons using virtual reality Ouisble uses discussions and follow ups for isbaits
the Hibiya-EDI system (P9)	Quickly use discussions and follow-ups for jobsite progress and studies (P10)
The career design project for women	Working style reform working groups and stronger ties with partner companies
Received second-tier Eruboshi certification for female workplace participation and career advancement	 Conducted many types of training programs (construction industry working style reform seminar,
Tokai Office designated Aichi Female Empowerment Company	 communication training, etc.) Established a portal site for members of the Safety and Usetth Connective Appreciation
Follow-up training programs following pregnancy/child-raising time off	 Started the Hibiya Meister Program Information sharing meetings and seminars held
Started leader development orientation (construction site field trips, discussion groups, etc.) (P11)	jointly with partner companies (training for eliminating customer complaints) (P12)



Use of ICT to improve efficiency





Jobsite efficiency and stronger risk management by using ICT and discussions & follow-ups





The career design project for women

Certified by Aichi

prefecture in January 2020

あいち女性輝き



	2018	2019	2020	Total
New graduate	28	23	27	78
Of which women	7	6	6	19

➡ % of women: 24.3%

Working style reform working groups and stronger ties with partner companies



HIBIYA



Achievement of Sixth Medium-term Management Plan

Results of life cycle total solutions sales activities (FY3/18 to FY3/20)

Growth of renovation projects due to consistent-revenue activities and the use of alliances

Consistent-revenue activities	Renovation s	ales activities	CO ₂ emission reduction
Orders: ¥29.0 billion Number of orders: 817	Orders: ¥129.3 l Pct. of total orde	billion ers: 64.9%	Orders: ¥3.8 billion Number of orders: 35/175 facilities
Medium/long-term proposals based sales for CO ₂ reduc	l on the life cycles tion, zero-energy	s of the installed bas buildings (ZEB) and	e of equipment and nationwide d other projects
 Expand/upgrade consistent-revenue busic Proposals to NTT Group and other major cust comprehensive building renovation work Medium/long-term maintenance proposals for inspections and aging diagnosis service Use the new Life Cycle Service Center for groconsistent-revenue businesses (page 17) 	nesses* tomers for r regular owth of	 Use alliances for CC Use experience with C ZEB orders for public- Use alliances with leas LED lighting projects (The local government program 	D ₂ reduction, ZEB and other activities CO ₂ emission reduction projects to capture sector buildings (page 14) sing companies to capture orders for large (page 31) ent carbon management reinforcement
 Proposals for using subsidies for replacing equipment Capture orders for renovation projects eligible for subsidies for diagnostic projects with the potential to lower CO2 emissions (page 16) 		 Use subsidies of the local government carbon management reinforcement program to meet local government needs involving disaster preparedness and lowering CO₂ emissions (pages 15, 26) 	
* Consistent-revenue businesses are equipment upgrade and replacement services that match the life cycles of customers' buildings.		 Project for school Installation of heating Taiwa-cho in Miyag 	heating/AC systems ng/AC system at elementary schools in i



Use of CO₂ emission reduction expertise to receive a ZEB Ready* order for a public-sector building

Zero-energy building project for the Kamigori-cho town office





Alliance for meeting public sector needs to receive a renovation project order

Carbon management reinforcement program and use of self-reliant and dispersed energy equipment





Use of a potential diagnosis project subsidy to receive a renovation order

Total solutions for current customers for equipment at many locations



- Subsidies cut the cost of renovations by about 50%
- Annual cost of electricity reduced by about ¥2.9 million (20%)
- Annual CO₂ emissions down 44%

Solution-based sales combining head office/branch office resources



New LC Service Center strengthened consistent-revenue activities and increased orders

Expanded Life Cycle Service Center contributed to growth in renovation projects







Forecast and Distributions to Shareholders of FY3/21



Forecast and Distributions to Shareholders of FY3/21

Forecast (consolidated)

		(Billion yen)
	FY3/20 Actual	FY3/21 Forecast
Orders	78.4	62.0
Sales	75.8	68.0
Operating profit	3.6	2.0
Profit attributable to owners of parent	3.5	1.5

The forecast is based on the following assumptions concerning the business climate amid the uncertain outlook caused by the COVID-19 crisis. Downturn in orders because of weak building construction demand > Slower progress at construction projects as customers push back completion dates > Lower profit margins caused partly by higher prices of some building materials Hibiya Engineering will respond with speed and flexibility to changes in market conditions. **Distributions to Shareholders**

Plan to continue paying a stable dividend from a long-term perspective

Dividends: Maintain 80 yen per share

Repurchases: Undecided



Postponement of the Seventh Mediumterm Management Plan

Hibiya Engineering planned to start its Seventh Mediumterm Management Plan in April 2020. However, the new coronavirus crisis and other events have made the outlook for business operations uncertain. Consequently, the announcement of the new management plan is currently expected to take place with the announcement of results of operations for the first half of the fiscal year ending in March 2021.

Major completed projects (FY3/18-3/20)



Orders received of the priority domains



Projects in FY3/18

Office / Hotel

An environmentally friendly office building located directly above Onarimon Station in central Tokyo



Sumitom	no Fudosan Onarimon Tower
Location	Minato-ku Tokyo
Floor area	32,631 m ²
Structure	22 stories above ground/2 stories below ground/2 levels of roof
Hibiya's work	Air conditioning/sanitation

An onsen hotel that incorporates nature and Japanese design themes; every guest room has an outdoor bath



Hak	one Kowakien Ten-yu
Location	Hakone, Ashigarashimo-gun, Kanagawa
Floor area	14,660 m ²
Structure	9 stories ab <mark>ove ground/</mark> 1 story below ground
Hibiya's work	Sanitation

Projects in FY3/18

Logistics facilities

A large postal distribution center for the Kyoto area



The largest GLP distribution facility in Japan,	
conveniently located near major Osaka area highway	s



Kyoto post office		
Location	Joyo city, Kyoto	
Floor area	55,130 m ²	
Structure	5 stories above ground	
Hibiya's work	Air conditioning	

GLP Suita		
Location	Suita city, Osaka	
Floor area	165,236 m ²	
Structure	4 stories above ground	
Hibiya's work	Air conditioning/sanitation	

Health care / Power facilities

Projects in FY3/18

Н НІВІУА

A hospital in the city of Toyoake that is designated an advanced treatment hospital



A super mega-solar project located in a model recovery district of Fukushima prefecture with a substation for very high voltages



Fujita He	alth University new building B
Location	Toyoake city, Aichi
Floor area	31,776 m ²
Structure	8 stories above ground/1 story below ground/1 level of roof
Hibiya's work	Sanitation

F-IITATE Solar power plant	
Location	Soma-gun, Fukushima
Floor area	312,317 m ²
Structure	1 story
Hibiya's work	Electrical

Office buildings

Structure

Hibiya's work

Projects in FY3/19



31 stories above ground/2 stories

below ground Electrical (fire alarm/security system) A building combining office space for a prominent IT company with luxury apartments



Sumitomo Realty & Development Shibuya First Tower	
Location	Shibuya-ku, Tokyo
Floor area	37,942 m ²
Structure	21 stories above ground/2 stories below ground/1 levels of roof
Hibiya's work	Air conditioning/sanitation

Office / Hotel

Projects in FY3/19

Н НІВІУА

A call center serving all areas of the Shikoku



A luxurious hotel at Kyoto Station designed to meet
the highest standards of hospitality along with
Japanese design themes



NTT West New Sanban-cho Building	
Location	Matsuyama, Ehime
Floor area	5,447 m ²
Structure	4 stories above ground/1 stories below ground
Hibiya's work	Air conditioning/sanitation

THE THOUSAND KYOTO	
Location	City of Kyoto
Floor area	22,063 m ²
Structure	9 stories above ground/ 1 stories below ground
Hibiya's work	Sanitation

Logistics facilities / Educational facilities

Projects in FY3/19

HIBIYA

A large distribution center serving many tenants that is located at the Keihin Truck Terminal



A college building designed for a new style of education and research as well as to serve as place for people to gather and a disaster response facility



DynaBASE	
Location	Ota-ku, Tokyo
Floor area	97,000 m ²
Structure	5 stories above ground
Hibiya's work	Air conditioning/sanitatior

Dtemon Gakuin Univ	versity Ibaraki Sojiji Campus, Osaka
Location	Ibaraki, Osaka
Floor area	20,130 m ²
Structure	5 stories above ground /1 levels of roof
Hibiya's work	Air conditioning

Hotels

Projects in FY3/20

Н НІВІУА

A renovation project to create a high-end hotel that reflects the architecture and atmosphere of Kyoto, Japan's capital for more than 1,000 years



©Forward Stroke Inc.

THE HIRAMATSU KYOTO	
Location	City of Kyoto
Floor area	3,982 m ²
Structure	5 stories above ground/ 1 stories below ground
Hibiya's work	Air conditioning/sanitation

Faithful restoration of the main lobby of The Okura Tokyo, including lights incorporating the famous Okura lantern motif that is a symbol is this historic hotel.

The Okura opened in 1962 as a hotel featuring a distinctly Japanese design and atmosphere rather than a format based on overseas hotels. The recent renovation carries on this tradition and takes the design to an even higher level.







Okura Fitness & Spa

The Okura Tokyo	
Location	Minato-ku, Tokyo
Floor area	180,905 m ²
Structure	41 stories above ground/1 stories below ground/2 levels of roof
Hibiya's work	Sanitation

Hotel / Multipurpose Building

Projects in FY3/20

Н НІВІУА

"Jingu Gaien no Mori" is a vacation home that provides a front seat to the greenery, views and excitement of the city.



Mitsui Garden Hotel Jingugaien Tokyo Premier	
Location	Shinjuku-ku, Tokyo
Floor area	15,800 m ²
Structure	13 stories above ground
Hibiya's work	Air conditioning

A spectacular tower in the heart of Tokyo's vibrant Shibuya district with offices, shops, restaurants and event spaces



Shibuya Scramble Square (East tower)	
Location	Shibuya-ku
Floor area	181,000 m ²
Structure	47 stories above ground/7 stories below ground
Hibiya's work	Air conditioning/sanitation

Health care / other facilities

Projects in FY3/20

НІВІУА

A university-affiliated medical center with an emergency room that never closes



FUJITA Health University OKAZAKI Medical Center	
Location	Okazaki, Aichi
Floor area	37,674 m ²
Structure	7 stories above ground
Hibiya's work	Sanitation

These high-end condominium buildings are in a quiet residential neighborhood of the city of Hakodate



Gardenia Matsukage IV			
Location	Hakodate, Hokkaido		
Floor area	4,266 m ²		
Structure	4 stories above ground		
Hibiya's work	Air conditioning/sanitation		

Reference

Reference



Stock price and net asset value (~ end of March 2020)

Performance of Hibiya Engineering stock since the end of March 2014





Shareholders

No. of shareholders: 3,178 Shares outstanding: 25,006,321 (As of end of March 2020)





CO₂ Reduction Initiatives

Use of LED lights at all Nagano prefectural government buildings

The first project by a prefecture in Japan that uses a large-scale bulk lease for many buildings and facilities in order to lower CO₂ emissions



Hibiya Engineering activities

Studies, installation work and maintenance services for lowering CO₂ emissions associated with current equipment



Hibiya Engineering plans to use expertise gained form this project to meet the needs of local governments throughout Japan for activities that lower CO_2 emissions.

Reference



Alliances to meet public sector needs and receive renovation project orders

Self-sufficient and dispersed energy and other equipment for Information Center Manazuru





Human Resources Initiatives

Internships for Kanazawa Institute of Technology and Vietnam Japan Institute of Technology (Vietnam) students



CAD Training

Presentations by interns

Overview

- Internships for Japanese and Vietnamese mechanical engineering and construction engineering students to gain work experience
- Interns study the latest technologies for comfort, energy conservation and convenience involving environmentally friendly construction equipment



New customers, alliances and other sources of opportunities

Fall Data Center & Storage EXPO (Makuhari Messe)



Summary

Hibiya Engineering's booth featured the group's many accomplishments involving data center renovations.

The Hibiya Engineering booth

- · Hot/cold air separation technology
- · Experimental liquid immersion cooling unit
- · Heat-resistant server, wall outlet cooling with improved efficiency
- · Energy conservation for university computer rooms
- Analysis of simulated server heat generation using Hibiya Engineering's own mock heat source

Renovation EXPO 2020 (Tokyo Big Sight)



Summary

Visitors learned about Hibiya Engineering technologies and services involving energy conservation, CO_2 emission reduction, creating, storing and managing energy, and other fields

The Hibiya Engineering booth

- The energy management business, which uses subsidies for the management and conservation of energy
- · Bulk leases, a cost-efficient scheme for updating equipment at many locations

JFMA Facility Management Forum 2020 (Tower Hall Funabori)



The Hibiya Engineering booth

- Disaster preparedness project for Manazuru-machi
- Bulk lease for Nagano prefectural government
- · Energy conservation at data centers
- Information about renovation projects

*No attendance at the booth due to the COVID-19 crisis.



Seminars at the Hibiya Information Plaza

Technology Seminar – Using the IoT and AI



Summary

Companies with innovative IoT and AI technologies explained some of the latest activities in these two fields

Presentations

- · EXBeacon and other technologies for the use of digital twins
- The DBMCS building automation solution for using open systems to support the IoT
- The DiAs energy conservation navigation system using AI
- · Examples of community creation and smart community activities

Technology Seminar – Next-generation Data Centers



Summary

Explanations by several companies of the increasing importance of data centers

Presentations

- AC control for heat-resistant servers using ICT device data and activities for creating a digital twin environment
- Server technology trends evident in the NEC Express server and precautions when installing servers
- · An overview of data centers in other countries
- The last bastion of immersion cooling? Toyota's mobility service platform is hot!

Natural gas cogeneration system

A local gov't used a Hibiya natural gas cogeneration system at a hot spring lodge

Previously unused energy is utilized to cut the cost of electricity by 60%, which lower CO₂ emissions



Reference



Examples of the Use of Building Information Modeling (BIM)

Fully utilizing BIM raises calculation profits without any reworking

- Repeating output along with construction BIM improves the ability to create cost-reduction ideas, such as for altering pipe configurations
- 3D studies as construction proceeds for placing pipes and ducts while avoiding steel beams, braces, racks and other obstacles
- Allows giving priority to Hibiya Engineering's requests, resulting in faster progress and no need to redo any work





No need to repeat tasks to fix mistakes

Advantages of using BIM

<u>3D</u>

- Placement adjustments/interference checks for facility designs
- Adjustments using overall diagrams, faster decisionmaking
- ➢ More efficient checking of confirmation applications, etc.



Construction proceeds using adjusted diagrams

Database links

- BIM-linked automatic calculations (loads, energy conservation)
- Automated equipment designs (device tables, device configurations)
- Use of information about building characteristics for maintenance operations

Building Information Modeling is a method for constructing a building data model consisting of 3D shape information created in a computer and various characteristics of a building, such as names and floor areas of rooms, the types and properties of materials used, finishing work, and other items.

Reference

Aisle Capping for Small Computers for Data Centers

A flexible aisle capping system for small computer rooms				
	Features			
More efficient climate control Uniform temperature of rack air supply surface	Flexible installation to match environment for equipment	Low cost by using general- purpose sheets		

Potential applications



Capping with ceiling



Capping with no ceiling

Capping in use



Installed under a ceiling beam



HIBIYA

Box-type capping





3D Scanners

Use state-of-the-art technology (3D scanners) for more technological advances



A Faro Focus3D high-speed 3D laser scanner





[Advantages]

- Reduces number of people and time needed to perform jobsite surveys
- Improves the safety of jobsite surveys
- Increases the accuracy of construction drawings
- Produces CAD and 3D models quickly



Use point cloud data for 3D models

Utilizing this technique as much as possible as a renovation technology



Data Center Construction Technologies

A leader in the data center building sector – 850,000 square meters

From low to high loads and even ultra-high loads

Period	1966~	2013~	2020~
Category	The first DCs/phone equipment room	Cloud DC	AI/Supercomputer DC
Major customers	Telecommunications companies	E-commerce sites	Automobile companies, research institutes, others
Heat generation	Low load	High load	Ultra-high load
Rack heat output	~5kW/rack	~10kW/rack	~50kW/rack
Cooling method	Computer AC units	Chilled water Indirect evaporation	Rear door cooling Liquid immersion cooling
Features	Reliable • Individual AC units • Floor blowers	Energy efficient • Wall blowers • Uses natural energy (external air/water)	Cooling for substantial heat generation • Cooling units for individual racks • Immersed in a liquid for cooling



Indirect evaporation cooling unit





Reference



Less

labor

Streamlining construction and installation technologies

Labor-saving method for installing rooftop equipment raises efficiency

Simple installation with single unit package for exterior equipment



A single unit for exterior equipment/base /refrigerant pipes

- · Smaller amount of labor required
- · Better, more uniform quality due to fabrication at a factory



Installation of pre-assembled rooftop water tank





Energy conservation technologies for sanitation equipment

Energy conservation and water quality at wastewater treatment facilities

Energy-efficient climate control and electrical equipment as well as a focus on conserving energy in sanitation equipment

Wastewater treatment facilities

- Requires the supply of an enormous volume of air at a steady rate
- Required amount of air changes depending on day of the week and time of day
- Too much or too little air causes water quality to decline



Reference



Minimizing energy use of a data center climate control system

Activities for creating an energy-efficient data center for NTT Data Corporation

Used for HVAC equipment control by server internal sensors

- Data links incorporating the IoT overcome barriers between ICT equipment management and facility management
- Conventional temperature sensors to not monitor the internal temperature of servers, which is what must be held down
 - ⇒Using data from sensors inside servers for climate control makes it possible to control temperatures in the most important locations





Services and technologies of Hibiya Engineering group





時代にまっすぐ、技術にまじめです。

Earnings Announcement For the Fiscal Year Ended March 2020

hibiya Engineering, Ltd.

May 26, 2020

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