

Hibiya Engineering,Ltd.

(Stock code: 1982)

Earnings Announcement for the First Half of FY3/24

November 20, 2023

Financial Highlights (consolidated)

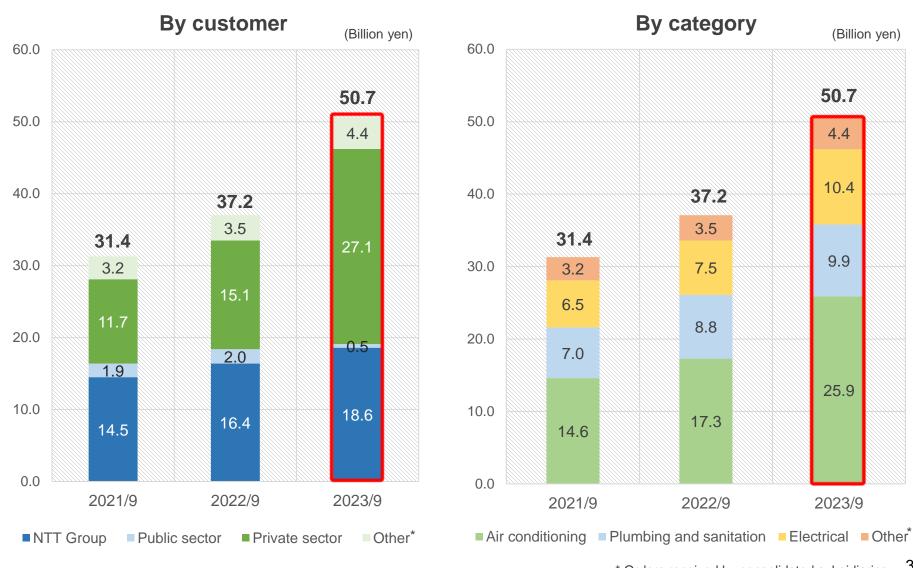
- Orders received were bullish. The Company won orders for a large data center in the private sector and for a large redevelopment project.
- Net sales rose YoY, reflecting the brisk performance of projects carried over from the previous fiscal year and those for which orders were received in the current fiscal year.
- For the current fiscal year, there were limited large, high-margin projects. However, operating profit, ordinary profit and profit attributable to owners of parent all increased.

Results were almost as forecast at the beginning of fiscal year. Therefore, no change has been made to the forecast announced on May 11.
(Billion yen)

	2021/9	2022/9	2023/9	YoY	YoY (%)	2022/3 Actual (Full year)	2023/3 Actual (Full year)	2024/3 Forecast (Full year) (Announced on May 11, 2023)
Orders received	31.4	37.2	50.7	+13.4	36.2%	78.9	87.3	86.5
Net sales	33.2	28.6	33.0	+4.3	15.4%	75.4	83.9	85.0
Operating profit	3.3	0.7	0.9	+0.2	29.6%	5.6	5.9	5.0
Ordinary profit	3.6	1.1	1.4	+0.2	24.4%	6.1	6.6	5.5
Profit attributable to owners of parent	2.7	0.7	0.9	+0.2	26.7%	4.3	4.6	3.8

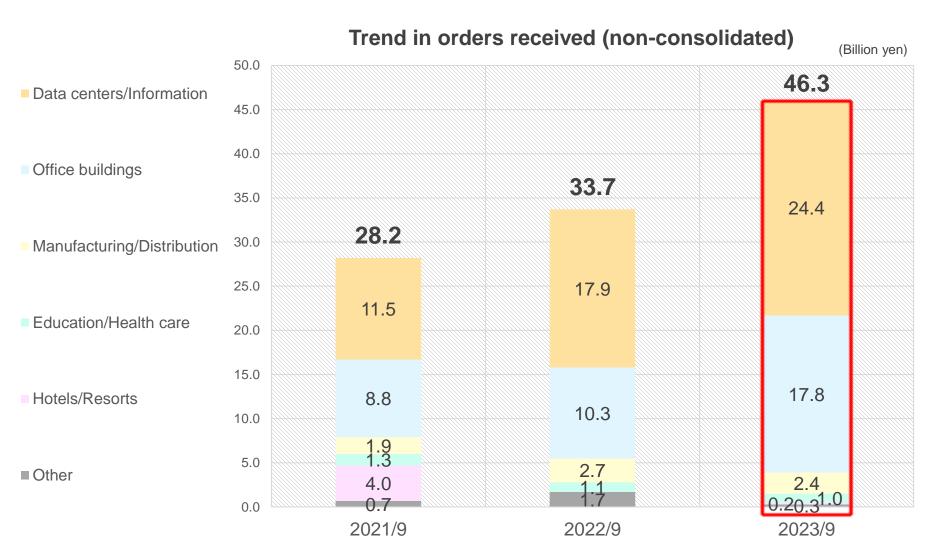
Orders Received (1): By Customer and By Category (consolidated)

Large projects in the private sector grew considerably.



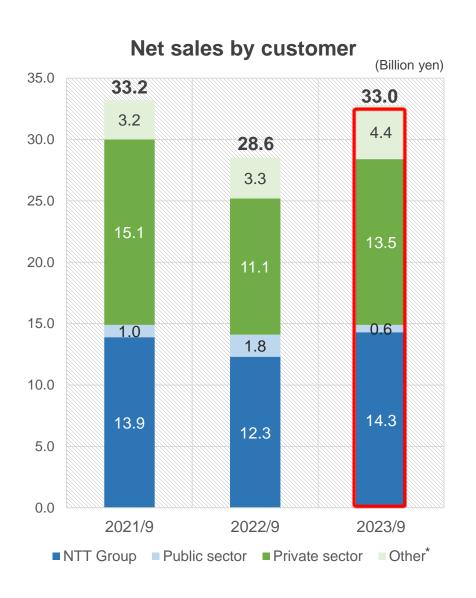
Orders Received (2): By Facility Category (non-consolidated)

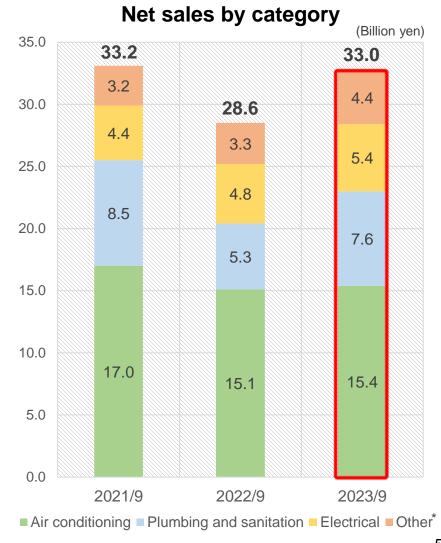
Orders for data centers and information and for office buildings increased.



Net Sales (1): By Customer and By Category (consolidated)

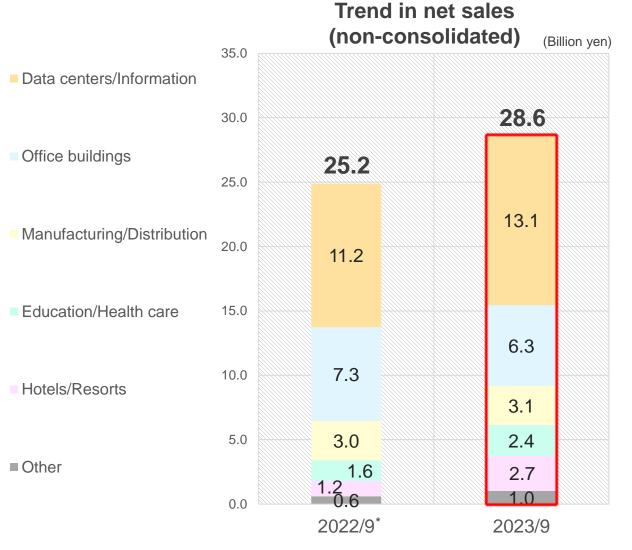
Sales were strong both in the NTT Group and in the private sector.

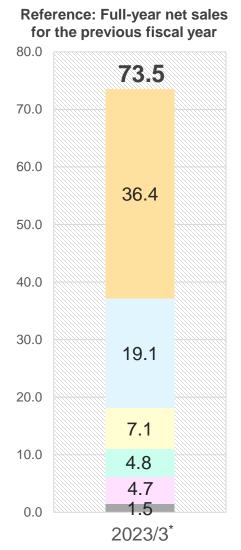




Net Sales (2): By Facility Category (non-consolidated)

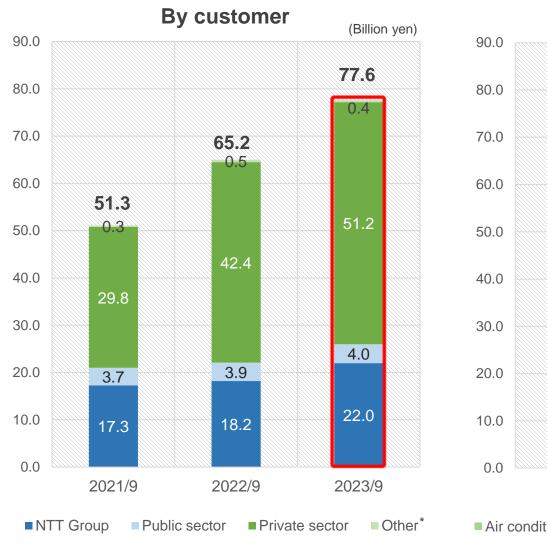
While net sales in office buildings declined, those in other categories, namely data centers and information, manufacturing and distribution, education and health care, and hotels and resorts, grew in a well-balanced manner.

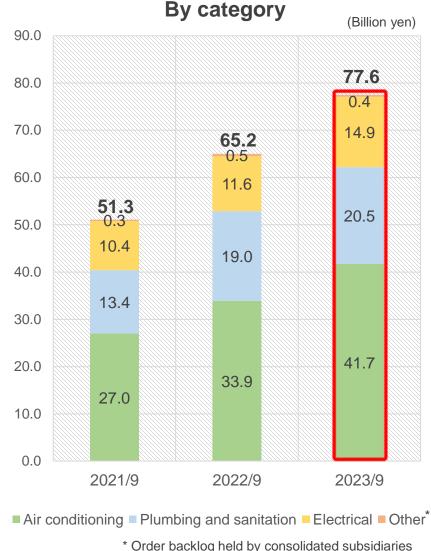




Order Backlog by Customer and by Category (consolidated)

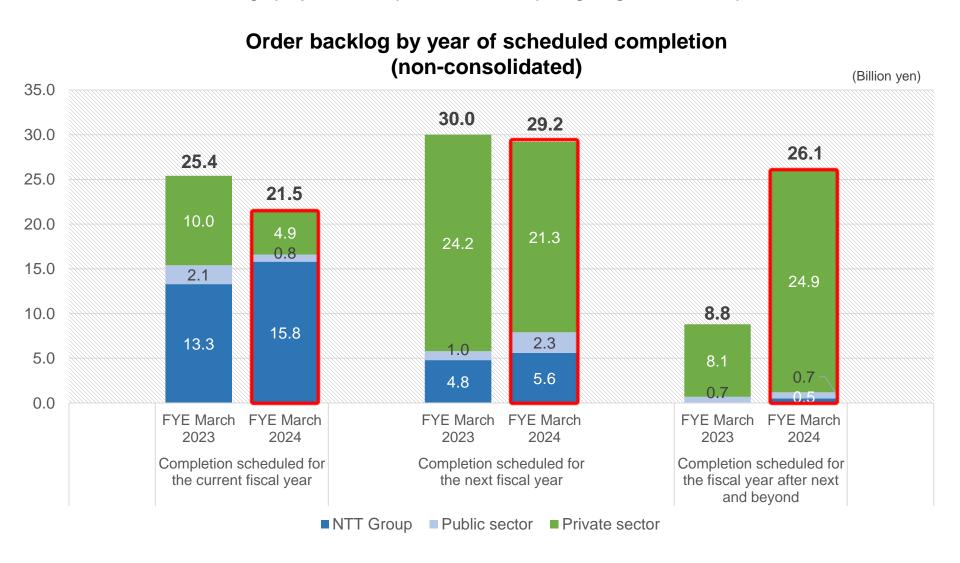
The order backlog increased as projects in the private sector were larger in size than in the past.





Order Backlog by Year of Scheduled Completion (non-consolidated)

Projects whose completion is scheduled for the fiscal year after next and beyond increased because of orders received for large projects in the private sector requiring long construction periods.



Summary Income Statements (consolidated)

- There were a smaller number of large, high-margin projects than in the two preceding fiscal years. However, a gross margin of 14.9% was attained.
- Operating profit, ordinary profit and profit attributable to owners of parent increased YoY.

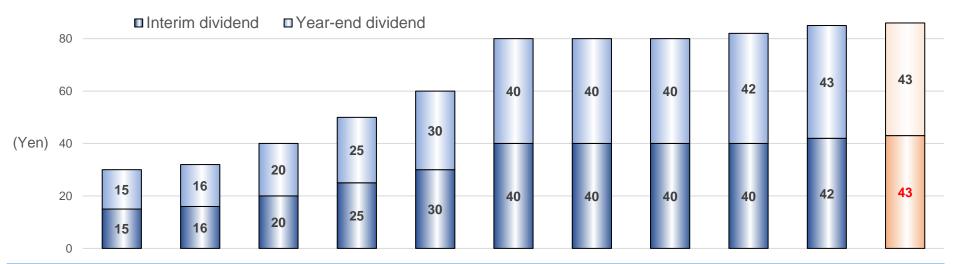
(Billion yen)

					(Dillion yen)
	2021/9 Actual	2022/9 Actual	2023/9 Actual	YoY	YoY (%)
Net sales	33.2	28.6	33.0	+4.3	15.4%
Cost of sales	26.0	23.9	28.0	+4.1	17.5%
Gross profit	7.2	4.7	4.9	+0.2	4.5%
Gross profit ratio	21.8%	16.4%	14.9%	_	-1.5%
SG&A expenses	3.8	3.9	3.9	-0.0	-0.3%
Operating profit	3.3	0.7	0.9	+0.2	29.6%
Non-operating income	0.3	0.3	0.4	0.0	14.6%
Ordinary profit	3.6	1.1	1.4	+0.2	24.4%
Extraordinary income (losses)	0.2	_	0.0	0.0	-
Income taxes	1.1	0.3	0.4	0.0	21.5%
Profit attributable to owners of parent	2.7	0.7	0.9	+0.2	26.7%

Shareholder Return (Trend in Dividend per Share)

■ **Dividend** The interim dividend will be increased by 1 yen per share from the previous fiscal year, to 43 yen per share. (The annual dividend will be 86 yen per share.)

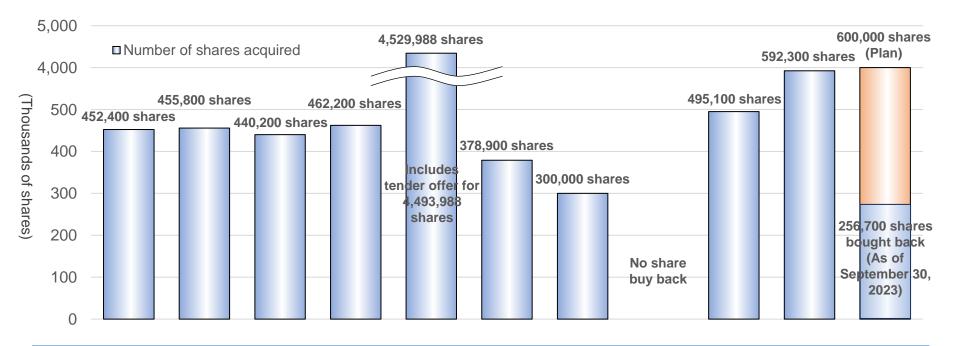
(Previous fiscal year: 42 yen for interim dividend and 43 yen for year-end dividend --> This fiscal year: 43 yen for both interim and year-end dividends)



FYE	2014/3	2015/3	2016/3	2017/3	2018/3	2019/3	2020/3	2021/3	2022/3	2023/3	2024/3 (Forecast)
Interim dividend	15	16	20	25	30	40	40	40	40	42	43
Year-end dividend	15	16	20	25	30	40	40	40	42	43	43
Payout ratio	41.2%	36.5%	25.5%	28.0%	22.9%	71.9%	54.3%	62.1%	44.6%	42.4%	51.9%
(consolidated)	-		f the Fifth Medi ement Plan (av 30.0%			the Sixth Med ement Plan (av 49.7%			ne Seventh Me ement Plan (av 49.7%		_
DOE	1.7%	1.7%	2.1%	2.5%	2.7%	3.3%	3.3%	3.2%	3.2%	3.1%	_

Shareholder Returns (Trend in Share Buy Backs)





FYE	2014/3	2015/3	2016/3	2017/3	2018/3	2019/3	2020/3	2021/3	2022/3	2023/3	2024/3 (Plan)
Buyback amount (Billion yen)	0.49	0.72	0.70	0.75	11.09	0.70	0.56	_	0.94	1.13	1.5



Eighth Medium-term Management Plan Basic Policies

Deepening Core Business

- Initiatives regarding the Company's data centers
- Expansion of the data center market
- Data center technologies available from the Company

Expanding Business Areas

■ Achievements and potential of ZEB technologies

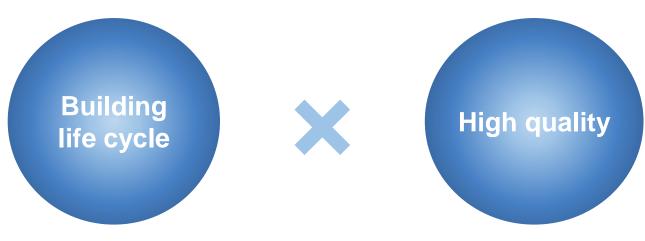
Strengthening Management Foundation

ESG Management

- **■** Workstyle reform and increase of communication
- Initiatives regarding the environment and governance

Initiatives regarding the Company's data centers

Expertise Cultivated through NTT Group Facility Projects



- Provide services aligned with the life cycle of buildings
 - > Carry out renovations without the suspension of customers' operations and communication equipment
- High quality technologies cultivated in the construction of telecommunications station buildings
 - > Build resilient high-performance equipment and systems

Long history of high reliability in the area of telecommunications

Receive more orders related to data centers (new construction and on-demand processes*)

Expansion of the Data Center Market

Need for high-capacity data communication processing due to the advancement of cloud, AI and other technologies

Trend towards high-density and hyper-scale* data centers

- Significant increase in power consumption
- Expansion of floor area

Conventional model

Hyper-scale model

Use	Network servicesColocation services	Cloud servicesE-commerce sites, etc.	Generative AI and other new business domains (e.g. ChatGPT)
Power consumption (Rack heat generation)	Up to 5 kW per rack (Low load)	Up to 10 kW per rack (High load)	Up to 80 kW per rack (Very high load)
Floor area	Approx. 500 m ²	Approx. 5,000 m 2 \sim	Expect to vary considerably depending on the scale of generative AI

^{*} A hyper-scale data center is any data center with a server room floor area of 5,000 m² or more and a power capacity of 6 kVA per rack or more.

Data Center Technologies Available from the Company

Technologies related to data centers

Side-wall air supply air conditioning

.. See page 24 of the reference material.

Supplying cool air from all the outlets of the air conditioner installed on the indoor wall surface (An air conditioning method for high capacity cooling)

Air conditioning using outdoor air

.. See page 25 of the reference material.

Cooling servers and other devices with the use of cool outdoor air in winter and in mild-temperature seasons* (A high energy efficiency air conditioning method)

* Spring and fall seasons when people can feel comfortable to some extent without cooling or heating

Heat load test

... See page 26 of the reference material.

A test simulating heat generation to check that cooling is properly performed

e.g., verifying the function of the installed air conditioning system, optimizing temperatures in server rooms and rack air inlet temperatures and verifying the function of backup systems used in the event of an air conditioning failure

Immersion cooling systems

... See page 27 of the reference material.

Servers and devices are directly immersed and cooled in a liquid tank filled with liquid coolant* (A next-generation cooling method)

Achievements and Prospect of ZEB Technologies



ZEB Ready acquired Kamigori-cho Town Hall Main Building

2020



ZEB Ready acquired Miyagi Daihatsu Sales Ogawara Store



Acquisition of ZEB
Second Experiment Building,
TOA Development and
Research Center



Acquisition of ZEB
New Kurasawa Construction
architect office building

CO2 emissions -46%

2030

2025

Future aspirations

- Establish a firm position as a ZEB planner
- Strengthen actions for local governments'
 ZEB projects
- Strengthen actions for ZEB projects in the private sector

2023

2023: ZEB certification acquired

Design and construction of the Second Experiment Building at TOA Development and Research Center Consulting on a new Kurasawa Construction office building

2022: **ZEB Ready certification acquired**Consulting on the Miyagi Daihatsu Sales
Ogawara Store

2021: **ZEB Ready certification acquired**Design and construction of Kamigori-cho Town Hall

2018: ZEB planner registration acquired ZEB29P-00083-PGC

♦ Feasibility study operations

- 2022: ZEB Ready
 Project planning on the resilience-type ZEB renovation of the Obuse-machi
 Town Hall building
- 2023: Consulting on ZEB Ready certification acquisition
 Feasibility study on the conversion of three existing Nishinomiya City government public buildings to ZEBs
- Consulting on the potential ZEB Ready certification an archeological museum in a city
- Many other studies on the conversion of stores to ZEBs

Seventh Medium-term Management Plan Eighth Medium-term Management Plan

Nineth Medium-term Management Plan Tenth Medium-term Management Plan

Workstyle Reform and Increase of Communication

Encourage the active participation of women

Career design project for women activities

- Round-table talk involving female managers (May 2023)
- Meetings to encourage women to actively participate at small branches (Sep. 2023)
- Seminar and inspection tour by the Society of Female Construction Equipment Engineers* (Oct. 2023)
- * Organized by the Japanese Association of Building Mechanical and Electrical Engineers





Communication with business partners

Sharing quality and safety awareness

- Online collaboration association portal
- Opinion exchange meetings
- Safety conferences
- Safety training
- Mastery recognition program

Partnership Building Declaration (announced in Sep. 2023)





Office upgrades

Introduce diverse workstyles and improve work efficiency, productivity and engagement

Status of implementation

Medium-Term Management Plan	Location	Status		
Eighth plan	Tokyo Main Office	Underway		
Eightii pian	Kyushu Branch	Finished in Sep. 2023		
	Toyama Sales Office	Finished in Mar. 2022		
Seventh plan	Okinawa Branch	Finished in Mar. 2022		
	Kansai Branch	Finished in Jun. 2021		

Kyushu Branch after renovation finished in Sep. 2023







Internet conference booth

Initiatives Regarding the Environment and Governance

Initiatives regarding carbon-free management

Extension of scope for calculating greenhouse gas emissions (from FYE March 2023)

- Extension of scope for calculating Scope 1 and 2 emissions Added gasoline consumed by employees of business partners during commuting and power consumption at on-site offices
- > Calculation and disclosure of <a>Scope 3 emissions started

Name	Targets for calculating greenhouse gas emissions
Scope 1	Direct greenhouse gas emissions from the Company
Scope 2	Indirect greenhouse gas emissions associated with the consumption of electricity, heat and steam supplied from other companies
Scope 3	Indirect greenhouse gas emissions that do not fall under Scope 1 or 2 (Emissions from other companies in connection with activities of the Company)

- Strengthening of risk management
- ➤ Risk Management Committee established (Apr. 2023)
- ➤ Ensure a balance between growth through sound risk-taking and risk management

Risk Map

- Identify risks affecting the Group
- Determine departments in charge of individual risks

Strategic risks

Operational risks

Compliance risks

Accounting and financial risks

Risk Management Committee (meetings to be held at least once a year)

- Identify risks and evaluate their significance
- Review measures for addressing the risks



Major completed projects in the first half

Use	Name of Property	Mi	tsui Link Lab Shinkiba 2
Data centers/ Information	Data center A (Chiba)Data center B (Tokyo)Data center C (Tokyo)	[Production a	and logistics facilities]
Office buildings	 Sumitomo Fudosan Kachidoki Building (renovation) 	and and a second a	
Production and logistics facilities	Mitsui Link Lab Shinkiba 2GLP ALFALINK Sagamihara II		
Education/ Health care	 Nanzan University Building A (renovation) 	Location Floor area	Koto-ku, Tokyo 18,204 m ²
Hotels/Resorts	Mercure Tokyo Haneda Airport	Scale	Four aboveground stories with a single-story penthouse
	, , , , , , , , , , , , , , , , , , ,	Our work	Air conditioning and sanitation

Major completed projects in the first half

GLP ALFALINK Sagamihara II

Mercure Tokyo Haneda Airport

Production and logistics facilities

Hotels and Resorts



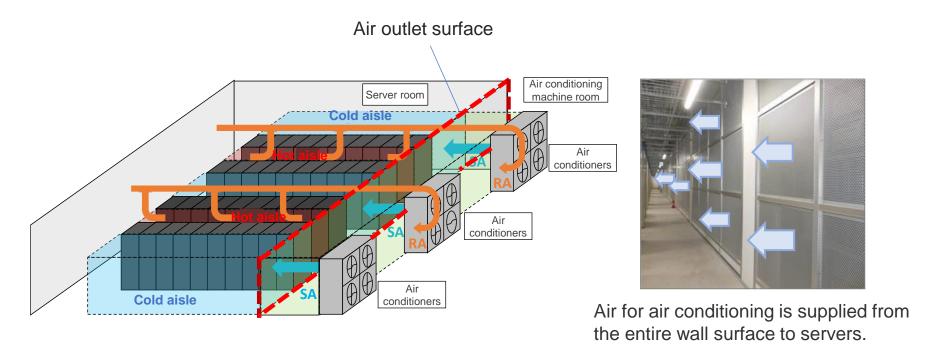


Location	Sagamihara-shi, Kanagawa	Location	Ota-ku, Tokyo
Floor area	90,470 m ²	Floor area	13,814 m ²
Scale	6 stories above ground	Scale	11 stories above ground
Our work	Air conditioning and sanitation	Our work	Air conditioning and sanitation

References

Side-wall air supply air conditioning

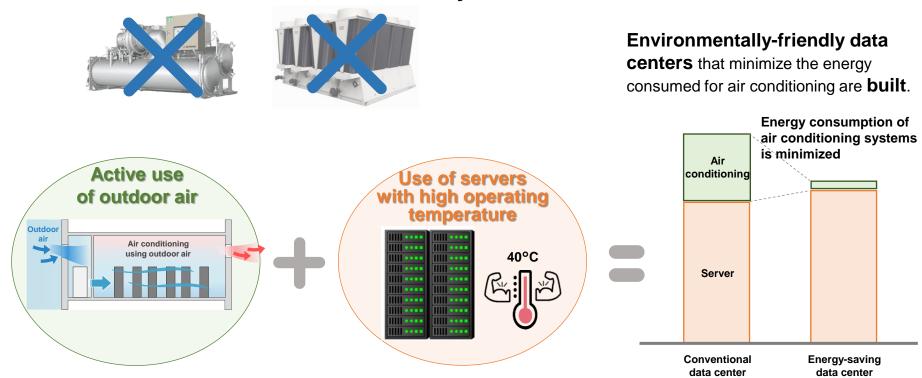
- An air conditioning method that blows cool air from the entire surface of the interior walls into cold isles* to address excessive heat generation
 - The air required for air conditioning increases significantly in line with the increase in the heat generated by servers.
 - An air conditioning method pushing a large volume of air to servers while controlling the speed of the air



Air conditioning using outdoor air

An air conditioning method that uses outdoor air to cool servers and devices

The operation of heat sources that consume huge amounts of electricity is reduced to the minimum necessary level.



Make active and maximum use

of outdoor air suitable for cooling servers

Heat load test

A test simulating the heat generated by servers to check that cooling is properly performed







Blank panels

Simulated heat generator

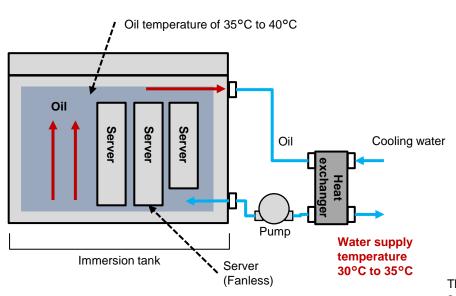


Immersion cooling systems

 A cooling system in which servers are directly immersed in a liquid tank filled with liquid coolants

The system is being tested as a next-generation cooling system.

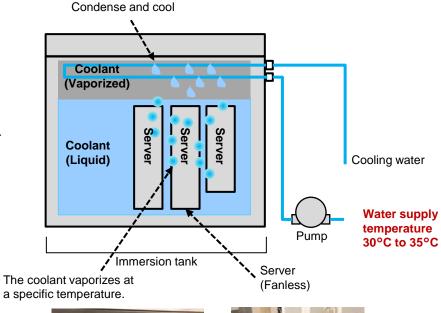
Single-phase immersion cooling system







Two-phase immersion cooling system







Initiatives Aimed at Decarbonization and Energy Conservation Projects

Decarbonization/energy conservation using alliances

Project Group

Consultant, others



Hibiya Engineering, Ltd. Roles: Survey of existing equipment for energy conservation/ CO₂ reduction, installation/maintenance of equipment, Use of local companies to support the local economy

Accomplishments (examples)

Nagano prefecture government buildings

Used bulk lease for LED lights to reduce CO₂ emissions

Local government building of Kamigori-cho, Ako-gun, Hyogo

A ZEB Ready* project involving an upgrade to a total heat exchanger and LED lighting installation



* ZEB Ready: An architectural structure with energy consumption reduced by at least 50%

Use accomplishments of prior years

Public facility run by a local government in Nagano

Survey project for LED lighting installation

Local government building in Nagano

Survey project for conversion into ZEB

Local government museum in Mie

ZEB demonstration project for increasing resilience

A Stronger Jobsite Oversight System

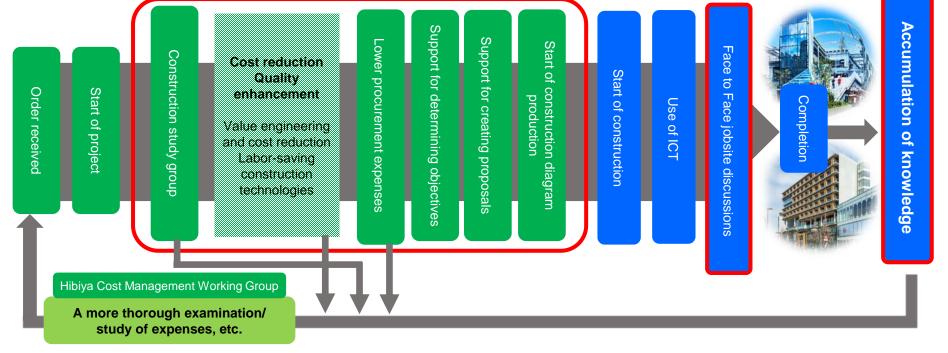
ONE TEAM/Face to Face activities

ONE TEAM Project

Established a team encompassing all tasks to support construction operations from the very first stage, aiming for cost reduction, quality improvement, and other benefits

Face to Face Project

Supervisors with extensive knowledge of the construction project visit the jobsite to strengthen communications and reduce the need to redo jobs and other risks

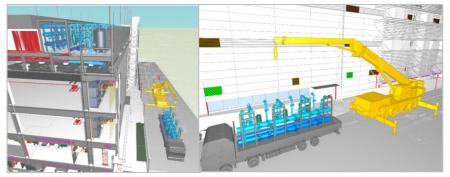


Examples of Building Information Modeling

BIM for constructing a building with greater efficiency

- 3D imaging for determining placements of pipes and ducts relative to steel beams, braces and many other obstacles eliminates the risk of needing to redo a job
- 3D presentations of the locations of equipment ensure trouble-free agreements between designers and project owners; customer response is very positive
- Initiatives for front-loading, such as the use of BIM for considering unitization and construction planning





▶ Use of BIM with the integration of architecture (customer) and equipment

► Simulated deliveries using a BIM model

Features of BIM software (Rebro/Revit) and initiatives for the future

Rebro (NYK Systems Inc.: Japan)

- To be used in the on-site construction stage in response to the on-site needs of customers
- User-friendly software featuring superior operability demonstrated in 3D drawing, such as the creation of a construction diagram
- It is expected that this software will continued to be used as 3D drawing software which will replace CAD software for building construction equipment

Revit (Autodesk, Inc.: US)

- > At present, this software is used mainly in the architectural design stage.
- Excelling in functional linkage and expandability, as a design automation tool and for automatic computation, simulation, etc.
- Promising software that is likely to be used more widely in the equipment industry if standardization progresses
- Position them as **strategic tools** for the future and enhance initiatives for **human resource development** and tool **improvement**.
- Make maximum use of BIM information through database integration in an attempt to improve business efficiency.



Thank you for your attention.

[Note]

This material contains information that constitutes forward-looking statements. These statements do not constitute a guarantee of future achievements. They are subject to risk and uncertainty.

Future results may differ from the forecast values stated in this material due to changes in the business environment and other factors.

Earnings Announcement Hibiya Engineering, Ltd. November 20, 2023