

Business Briefing

Communications Solutions Business

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Agenda

• Overview

- Optical Solutions (Optical Fiber & Cable)
- FITEL Products
- Broadband Solutions



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Become a business that "supports and leads" the evolution of data transmission and realization of a sustainable society

Directed at "creating global infrastructure combining information, energy and mobility" set forth in Vision 2030,

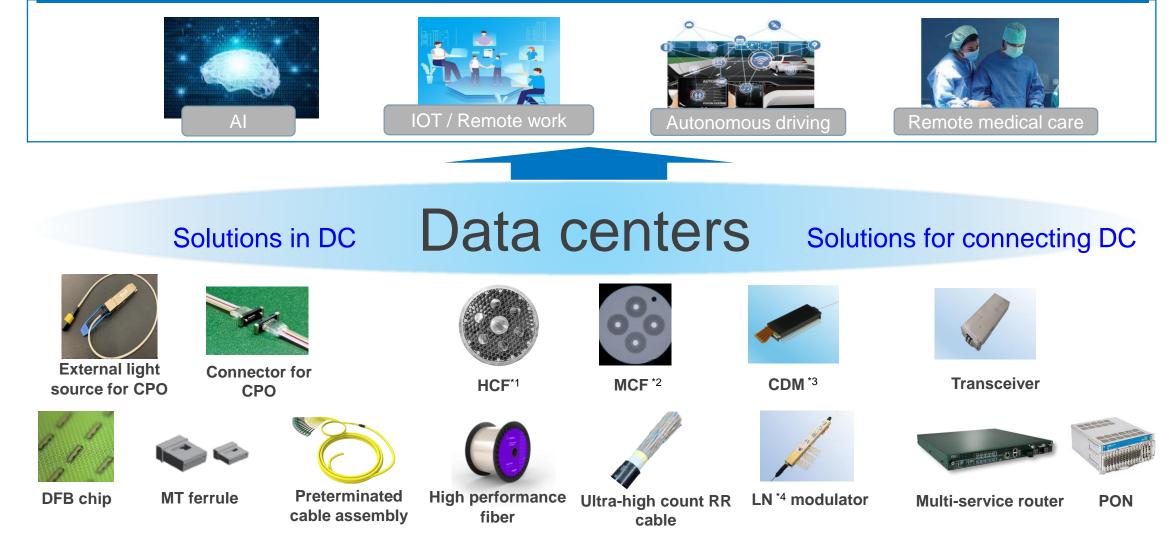
- In the telecommunications domain, secure a key position in the supply chain toward the era of IOWN and B5G, and provide around the world high value-added product lineups and solutions based on the keyword of "energy saving"
- In the non-telecommunications domains, provide high value-added product lineups and services that contribute to the generation, transmission and detection of information and energy that will lead to "increased safety and quality of life"



Toward 2030 – Realization of a B5G society



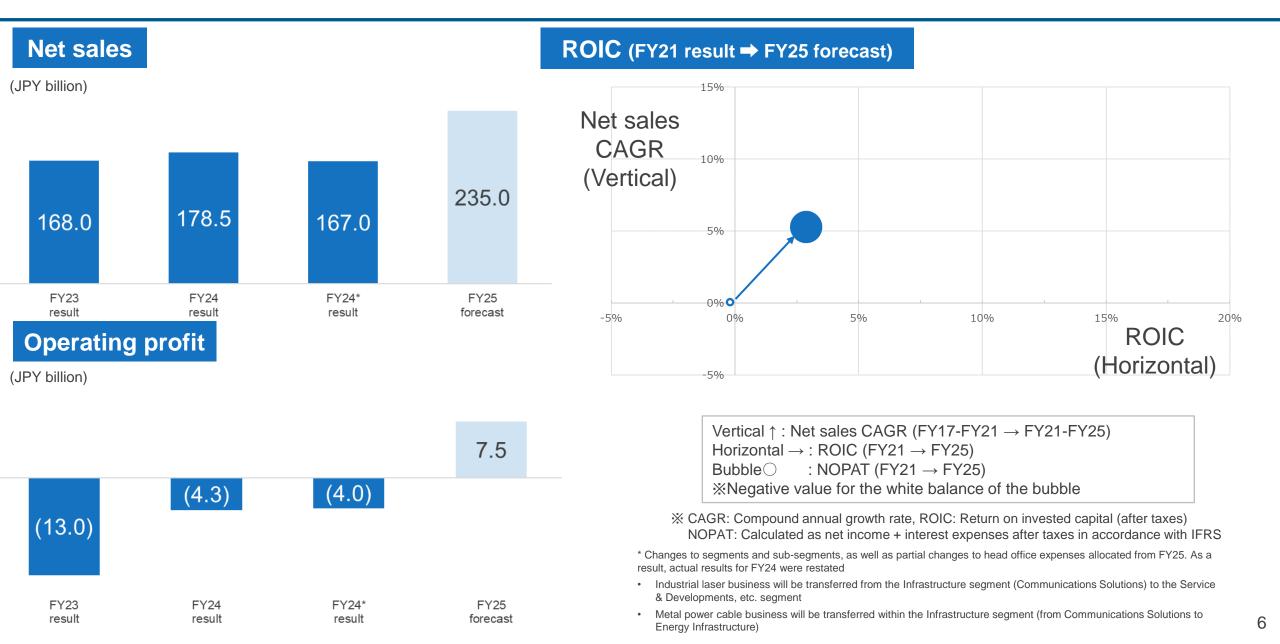




*1 HCF: Hollow-core Fiber, *2 MCF: Multicore Fiber, *3 CDM: Coherent Driver Modulator, *4 LN: LiNbO3 (Lithium niobate)

Net sales and operating profit trends





Looking back on FY24



Segment	Looking back
Optical solutions	 Slow sales to the telecom market mainly in the Americas In the active AI / data center market, made progress in steadily capturing hyperscaler and dark fiber provider demand Executed the various measures for growth Integrated 3 business units (launched Lightera Holding G.K.), increased production of data center products (including acquisition of Hakusan Inc.), etc.
FITEL products	 Delayed recovery in the telecom market In the active AI / data center market, made progress in steadily capturing hyperscaler demand Enhanced the value chain (acquired Furukawa FITEL Optical Components Co., Ltd., etc.)

Broadband solutions

 \checkmark Japan CATV business was firm

FY25 forecast



Recognition of the business environment and envisioned risks	Priority initiatives
 AI / data center and enterprise market Strong growth will continue North America Telecom market will start to recover Dark fiber demand will provide a boost Outlook for BEAD^{*1} demand is unclear LATAM and Europe telecom market Difficult price competition will continue 	 Capture as much data center demand as possible Increase production capacity for the main products Enhance the solutions portfolio Expand the customer base (MTDC *2) Establish a system for increasing North America cable sales Expand solution sales Strengthen the sales channels and the sales/ engineering functions
 ✓ China ■ AI / data center market will grow, and telecom market will start to recover ✓ Japan ■ CATV market will remain firm 	 FITEL products ✓ Capture as much data center demand as possible Increase production capacity for the main products Enhance the solutions portfolio ✓ Expand the lineup in partnership with Furukawa FITEL Optical Components Co., Ltd. ✓ Develop products for CPO
Risks: Impact of US tariffs and trade friction between the US and China	Broadband solutions✓Capture as much Japan CATV demand as possible ✓✓Promote co-creation with other companies

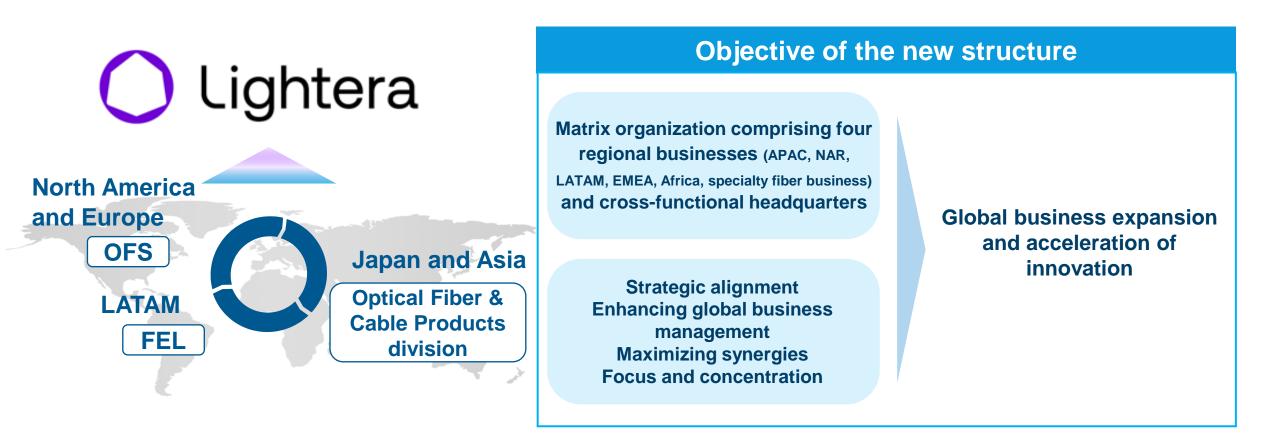
* 1 Broadband Equity Access and Deployment Program * 2 MTDC: Multi Tenant Data Center

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Optical Solutions (Optical Fiber & Cable)

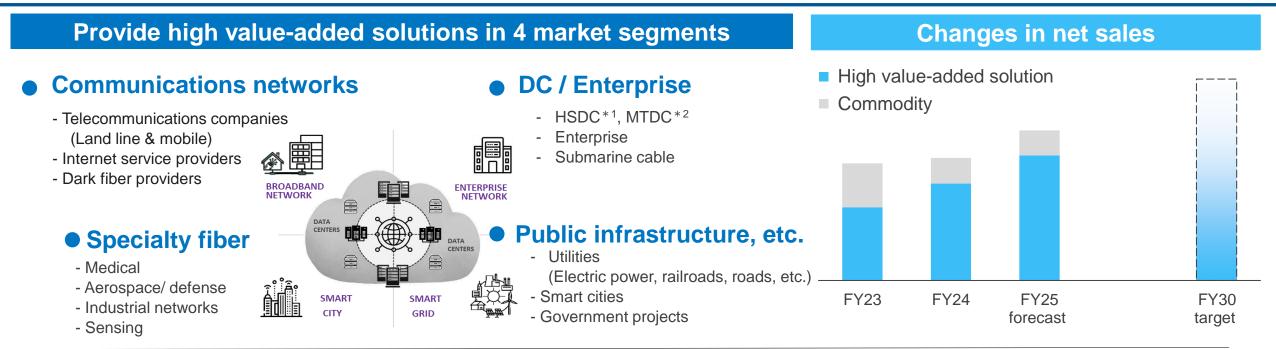


April 2025 launch "Lightera", new corporate structure has been initiated To enhance operational efficiency, expand business scale, and strengthen market presence, we have integrated Optical Fiber & Cable Products division (Japan and Asia), **OFS (North America and Europe) and FEL (LATAM)**



Lightera 2030 vision





Increase profits in the data center market

KSF

Increase profits in the North America market

Strengthen the solutions business

Strengthen cost competitiveness

*1 HSDC: Hyper Scale Data Center, : *2 MTDC: Multi Tenant Data Center

Priority initiatives

- Capture as much data center and dark fiber demand as possible
- Develop new market channels
- Expand ultra-high count and high density solutions, and increase production capacity
- Introduce new products and new solutions

Business strategy – Solutions for data centers



- Leverage high density and low latency technology to establish superiority in the HSDC market
- Build a system for increasing global sales for MTDC and enterprise solutions

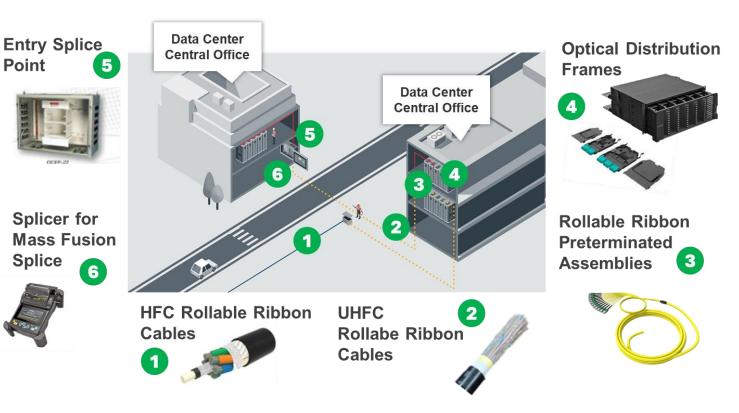
Data center requirements

- High density assemblies
- Stable, swift supply system
- Enhanced installation training and service



- Ultra-high count rollable ribbon (RR) cable
- Low loss MT ferrules & MPO *1
- Ultra-low loss fiber, MCF^{*2}, HCF^{*3}
- Global production and service network

Main products and solutions





Priority initiatives

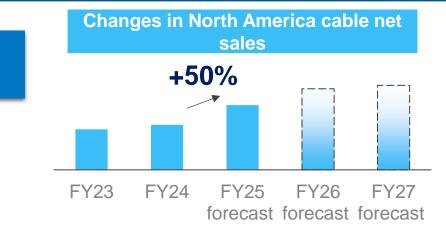
	 Increase production of the main product lineup (compared to FY23) RR cable (FY25 2 times) 	Changes in net sales to the data center market		
HSDC Hyper Scale Data Center	 MT ferrules (FY25 5 times) Expand the connection solutions Ultra-high count preterminated cable (Start sales in FY25 H2) Develop and mass produce next-generation solutions 	Quadruple		
MTDC Multi Tenant Data Center	 Expand the business in each region based on the global customer base Build a comprehensive solution portfolio 	FY23 FY24 FY25 forecast	FY30 target	
Enterprise	 Promote global co-creation with Nokia Global rollout of PON-LAN solutions 		1	

Status of the North America business

Market growth will continue, driven by data center and AI demand

Increase cable production capacity and respond to higher core counts



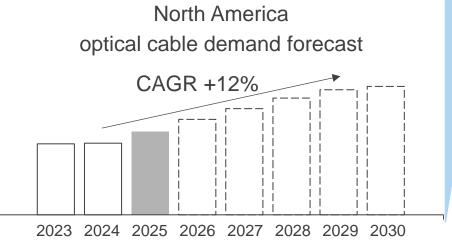


Market outlook

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- Forecast 5-year average growth rate of +12%
- Active dark fiber market due to AI / data center demand
- Further delays in the allocation of BEAD funding
- Focus on the impact of tariffs on investments



Priority initiatives

Sales

• In partnership with the major internet service providers (ISP), definitely capture dark fiber demand

Manufa cturing

- Increase production capacity (FY25 net sales +50% from **FY24)**
 - Expand RR cable products (component ratio >50%)
 - Respond to tariffs

Other

(Adjust sales prices, optimize the supply chain, etc.)

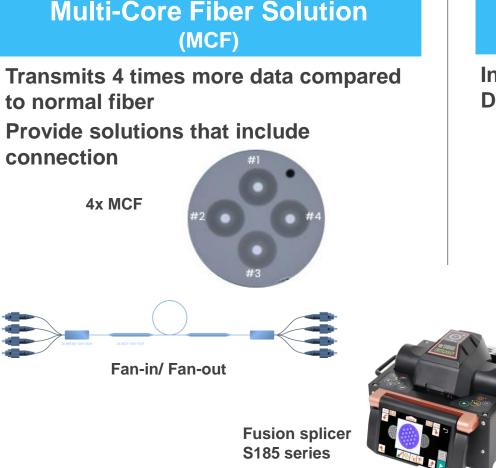


Leveraging ultra-high density, narrow diameter technology and low latency technology, realize larger data volume transmission

Ultra-high count rollable ribbon cable

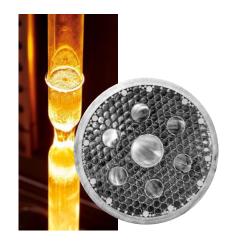
Respond to further increased transmission volumes





Hollow Core Fiber (HCF)

Increase distance between DC buildings by 50%

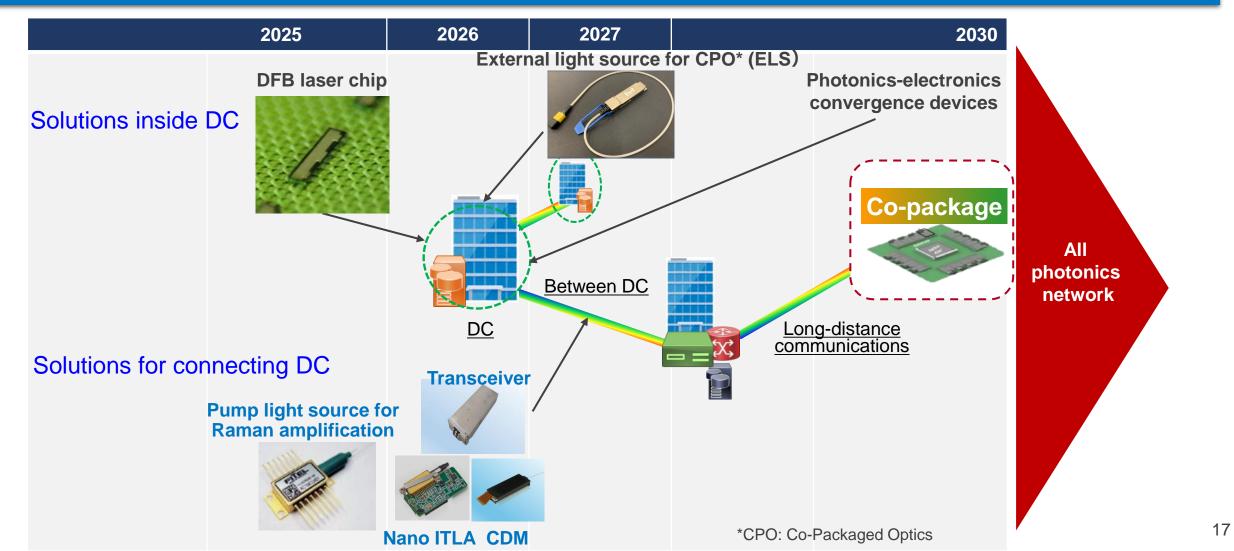


FITEL Products

Direction of the FITEL products business



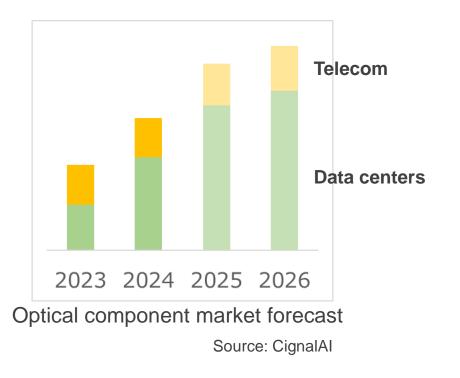
- Leverage high output, low power consumption technology to establish superiority in the AI / data center market
- Enhance the lineup of products for short distance communications within DC and for coherent communications between DC



Progress of the priority initiatives



- Definitely capture the demand in the strong data center market
- Increase production and sales of DFB laser chips for data centers
- AI / data center demand will continue to be strong
- Increased demand between data centers
- Telecom demand has been gradually recovering from FY24 H2



Solutions inside DC

DFB laser chip

- Increase manufacturing capacity in response to growing demand for 400G/800G
 (Increase by 5 times in FY25 H2 compared to FY23)
- Develop products and increase sales for 800G/1.6T
- Continue the activities to reduce costs, including by improving productivity

Solutions for connecting DC

Nano-ITLA

- Develop and mass produce products for 800G/1.6T
- Continue the activities to reduce costs, including by improving productivity

Broadband Solutions

Expansion of solutions



Rollout solutions that will transform lifestyles









FURUKAWA ELECTRIC GROUP PURPOSE

Composing the core of a brighter world.

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Appendix

- Business overview
- Product overview



[2025 Mid-term Plan (Road To Vision 2030 – Transform and Challenge–) Basic policy] Contribute to "creating global infrastructure combining information, energy and mobility" set forth in Vision 2030 by evolving the elemental telecommunications technology accumulated over the years and providing further solutions.

[Business environment, strengths and issues]

Business environment Main revenue opportunities	Strengths as a division		
 Increased data traffic worldwide (high speed, large volume, low latency, energy saving) Expansion of data centers, widespread use of AI technology, B5G, cloud services, advances in IoT 	 Global production network in growing markets Differentiation through high performance products and technology (optical fiber & cable, digital coherent and IP network technology) 		
Business environment Main menaces and risks	Issues as a division		
 Impact of US tariffs Trade friction between the US and China Supply chain problems Soaring personnel expenses, energy costs and raw material expenses due to inflation 	• While taking into consideration the business environment on the left, maximally utilize the global production network to provide optimum solutions to the market		

[Priority initiatives for achieving the 2025 Mid-term Plan]

- Telecommunications domain: Secure a key position in the supply chain and provide high value-added product solutions that contribute to "energy saving" in data transmission
- Non-telecommunications domain: Provide high value-added product lineups and services for contributing to the generation, transmission and detection of data and energy that will lead to "increased safety and quality of life"

Optical solutions: Capture as much data center demand as possible, build a system for increasing North America cable sales and expand solution sales

FITEL products: Capture as much data center demand as possible, expand the lineup in partnership with FFOC and develop products for CPO Broadband solution: Capture as much CATV demand in Japan as possible, and promote co-creation with other companies



Appendix – **Product overview**



	Optical solutions		FITEL products		Broadband solutions	
5G/B5G	•	•	•	•	•	•
Tougher infrastructure	•	•	•	•	•	•
Carbon neutral	•	•	•	•	•	
Main products	 Low loss fiber Low bending loss fiber Low latency fiber Submarine fiber Specialty fiber 	 Optical cable (including rollable ribbon cable) LAN cable 	 Optical connection products (including MT ferrules) Fusion splicer 	 DFB Variable wavelength laser module Laser excitation module 	 Optical transmission device Optical transceiver module 	 FTTH systems Wireless systems Network router
Main applications	I) at a centers/Connections between data centers 3013119			 Large capacity communications for data centers Digital coherent signal light source Excitation light source for optical signal amplification 	 High speed communications for telecommunications companies Large volume communications for data centers 	 Telecommunications and broadcast services Video broadcasts Wireless infrastructure High speed, large volume telecommunications services VPN services
Main customers	 Telecommunications carriers, telecommunication construction companies, internet service providers Data center operators, dark fiber operators Infrastructure companies, including electric power, railroads and expressways 		 System vendors Transmission device manufacturers 	 Telecommunications providers System vendors Transmission device manufacturers 	 Telecommunications providers CATV companies Municipalities General companies 25 	