

Enhancing planetary health

Financial Results for Fiscal 2021 Business Overview

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Total Engineering Orders for FY2021

Approx. **316** Billion Yen (Target: 500 Billion yen)

Although targets were missed due to the timing of some expected projects, the overall market environment is recovering

	Ove	rseas	Domestic
Results for fiscal 2021	Approx. 146 Billion Yen		Approx. 170 Billion Yen
Orders target for fiscal 2021	340 Billion Yen		160 Billion Yen
Main orders received	Energy Solutions • Saudi Arabia Dew point control unit • Malaysia FLNG (FEED) • Nigeria FLNG (FEED) • Canada LNG (change order), etc.	Facility Infrastructure Solutions • Taiwan LNG Terminal • Philippines Mega solar • Malaysia Medical products mfg. plant • Bangladesh Infrastructure construction in special economic zone ,etc.	 Pharmaceutical mfg. plants Chemical plants Hospitals Nuclear related Maintenance services , etc.

Total Engineering Orders Target for FY2022

Value of FY2022 Consolidated Orders Target :

840 Billion Yen

	Overseas		Domestic
Orders target for fiscal 2022	670 Billion Yen		170 Billion Yen
Expected Projects	Energy Solutions Facility Infrastructure Solutions		
	 Middle East GOSP North America Gas chemicals Middle East Gas chemicals North America LNG Southeast Asia LNG Southeast Asia Chemicals, etc. Asia Solar power and powstorage system Europe Battery parts mfg. plate and factories Asia Biodegradable plastic production demonstration, etc. 	e Hos Blue dem SAF Nuc	rmaceutical mfg. plants pitals e hydrogen production nonstration production demonstration clear related intenance services , etc.

Domestic and Overseas Market Environment

🖰 Overseas

- Resumption of development investment, anticipating post-pandemic recovery in energy demand and energy security policy
- More inquiries/orders from international oil companies and others for feasibility studies and front-end engineering and design for LNG projects. EPC orders for large LNG projects may resume after the latter half of fiscal 2022
- Steady progress in Middle East/North America petrochemical projects
- In infrastructure, ongoing investments such as renewable energy projects in Asia



- Investment remains brisk in life sciences, healthcare, and maintenance
- Progress in large-scale investment for life science applications such as biopharmaceuticals and vaccine production
- In decarbonization, SAF and blue hydrogen production will be demonstrated, among other expected progress

We will continue to closely monitor the impact of the rising prices of materials and equipment and transportation costs against the backdrop of the situation in Ukraine and other factors.

Progress in Major Projects: LNG Canada

Large modules being completed one after another



Progress in Major Projects: LNG Canada

Modules shipped in succession are arriving in Canada



Progress in Major Projects: LNG Canada

Progress is also being made in installing modules and equipment on-site



Progress in Major Projects: Basra Refinery Upgrading

Temporary and permanent facilities construction now underway



Functional Materials Manufacturing Results for FY2021 and Target for FY2022



Status of Key Strategies in the medium-term business plan (Summary)

Steady progress in implementing the three key strategies

Transformation of EPC Operations	 Appointment of a non-Japanese president at the overseas EPC operating company (JGC Corp.) Stronger framework for regional management: JGC Asia Pacific Formulation of a medium-term IT strategy, with April 2023 as the start of accelerated digitalization of EPC Reinforcement of life science business: IHI Plant Services' pharmaceutical plant EPC business acquired
Expansion of Manufacturing Business for High-Performance Functional Materials	 Expansion of silica sol production/sales for hard disk polishing, in the wake of higher chip demand Expansion of catalyst sales overseas, development of catalysts supporting decarbonization Start of full-scale production of high thermal conductivity silicon nitride substrates
Establishment of Future Engines of Growth	 Joint demonstration of a SAF production supply chain model, mainly sourced from used cooking oil Joint Green Innovation Fund project underway with Asahi Kasei to demonstrate green chemical production using hydrogen from renewable energy sources Invests in U.S. Company NuScale Power which is ready for commercialization
Implementing strategic investment	 Value of FY2021: Approx. 16 Billion Yen (Main investment) Digital transformation of EPC Invests in U.S. Company NuScale Power Acquisition of IHI Plant Services' pharmaceutical plant EPC business Development of new product technologies in functional materials manufacturing Facilities related to high thermal conductivity silicon nitride substrates , etc.

Status of Key Strategies in the medium-term business plan (Summary)

Sign Alliance Agreement on EPC Projects for Fuel Ammonia Plants with TOYO

Subject

- Fuel-ammonia manufacturing plants and ammonia receiving terminals
- Receipt of orders and execution of EPC projects, starting from feasibility studies (FS) and front-end engineering design (FEED) for above

焼料アンモニア案件に係る協業合意書 一切印式 タロ22年4月25 東洋 む式会社 F 会社

Significance

 This field is being promoted under the leadership of Japanese companies with the backing of the Japanese government. To contribute to the development of this field, we have established a leading position in related EPC by working with partners who can utilize and complement each other's strengths.

License Agreement Signed with KBR for Ammonia Manufacturing Process

- The company's process has a proven track record in the world (approximately 50% share of the global production volume) and is a process technology that can be easily adapted to larger scale production.
- Together with the alliances mentioned above, we will demonstrate our competitiveness in the field of fuel ammonia and lead the industry.



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(APPENDIX)

Status of Key Strategies in the medium-term business plan

Key Strategy 1: Transformation of EPC Operations

Accelerate transformation of overseas EPC operations	 Appointment of Mr. Farhan Mujib as president of JGC Corp. (effective Jan. 1, 2022) Draws on insight from his previous executive positions at U.Sbased KBR, extensive experience and knowledge of EPC projects, and a wide professional network of clients and contractors to accelerate transformation of our main business of overseas EPC operations 	
Large Projects Accelerate digital transformation of EPC	 Formulation of a medium-term IT strategy; from 2023, seeking integrated digital execution of EPC services for overseas projects Introducing advanced work packaging (AWP) for the Basra project in Iraq 	
Growth Markets and Segments Strengthen framework for domestic pharmaceutical business	 Acquisition of IHI Plant Services' pharmaceutical plant EPC business Pursuit of further business expansion in this segment Receipt of orders for large pharmaceutical projects (making fiscal 2021 the best year on record in this segment) 	
Growth Markets and Segments Start preparations to establish regional headquarters for the Asian market	 Establishment of JGC Asia Pacific : Stronger framework for regional management in the fast-growing Asian region; building a framework for sales and project execution that emphasizes local production for local consumption and works closely with regional clients Receipt of orders for a mega solar plant in the Philippines and an LNG receiving terminal in Taiwan 	

Key Strategy 2: Expansion of Manufacturing Business for High-Performance Functional Materials

Expanding revenue from existing business Respond to higher semiconductor demand	 Expansion of silica sol sales, on growing demand for hard disk polishing materials amid higher semiconductor demand (Fine Chemicals) Record orders and sales of structural ceramics for applications related to semiconductor production equipment; steady growth also projected in fiscal 2022 (Fine Ceramics)
Expanding revenue from existing business Expand product sales overseas Develop and sell catalysts supporting decarbonization	 Increased revenue from more overseas orders of FCC catalysts (Catalysts) Development of new amorphous silica-alumina material; focus on expanding sales from fiscal 2022 (Catalysts) Development of low-temperature denitration catalysts; market expansion for denitration in waste incinerators and biomass power generation (Catalysts)
Promoting sales of strategic products Expand production facilities for silicon nitride substrates	 Start of full-scale production of high thermal conductivity silicon nitride substrates in fiscal 2021; continued production line investment and R&D focused on higher performance, to meet greater demand (Fine Ceramics)
Exploring and developing next-gen business Expand applications to life science materials	 Start market exploration and R&D to expand applications to life science materials, including antibacterial and dental materials expected to show stable demand Life Science Group established at the R&D Center (Fine Chemicals)

Key Strategy 3: Establishment of Future Engines of Growth

Clean Energy	 Current project: Joint demonstration of a supply chain model for SAF production from used cooking oil with Revo International and Cosmo Oil
Sustainable aviation fuel (SAF)	 Establishment of "ACT FOR SKY" a voluntary organization working for the Commercialization, Promotion and Expansion of Domestically Produced
Clean Energy	 Joint project with Asahi Kasei demonstrating production of green chemicals using hydrogen derived from renewable energy sources; a NEDO Green Innovation Fund project
Green chemical production	 Targeting Japan's first demonstration of green ammonia production on a semi- commercial scale in 2024
Clean Energy SMRs – small modular reactors	 Investment in U.Sbased NuScale Power, the company closest to commercialization Joining North America's first SMR construction project Potential for EPC business in the Middle East, Southeast Asia, and elsewhere from the 2030s
Clean Energy Carbon management	 Conducted a commissioned survey to help establish global MRV/CI methodologies for GHG emission associated with LNG, hydrogen, and ammonia operations
Circular Economy Chemical recycling of plastic and fiber waste	 Start of development for licensing a plastic waste recycling technology using an oilification process Start of a joint working group with Teijin, the University of Tokyo, and others to submit proposals on legislation promoting textile recycling
Other Water treatment / Smart factory	 In water infrastructure field, start of collaboration with Nihon Suido Consultants Receipt of FEED order for smart factory

Note on Future Outlook

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