



J-POWER Group Medium-Term Management Plan 2024-2026









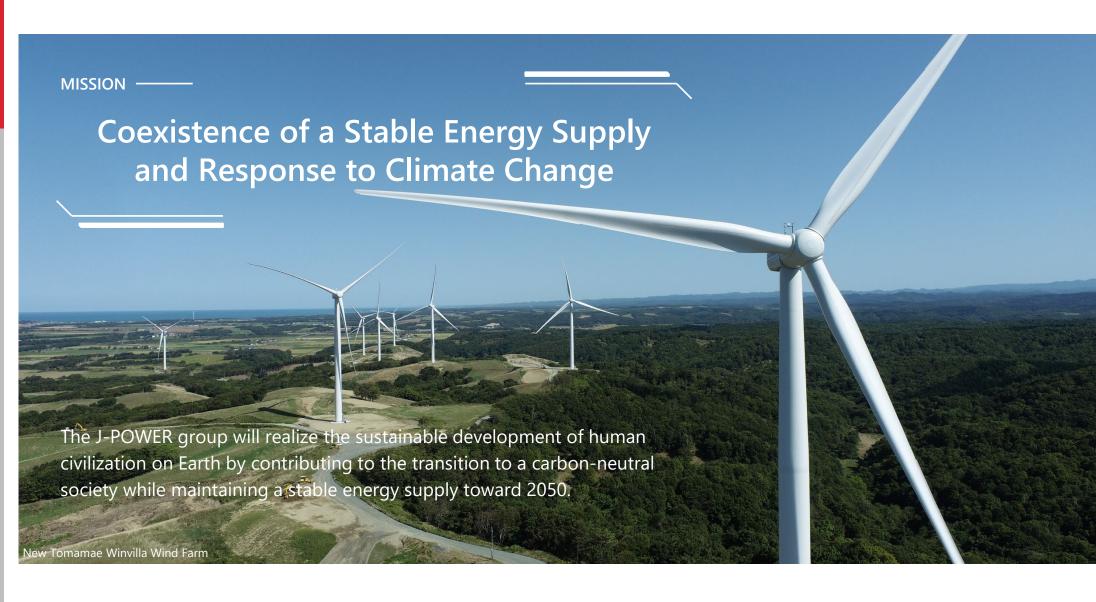
2 —— Medium-Term Management Plan FY2024-FY2026

3 —— Priority Items

Appendix

MISSION





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- 1 Summary of Medium-Term
 Management Plan FY2021-FY2023
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3 — Priority Items

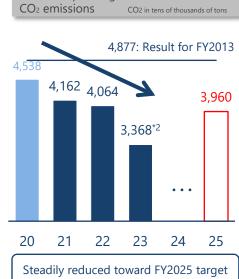
Appendix

Summary of Medium-Term Management Plan FY2021-FY2023 1/2 POWER

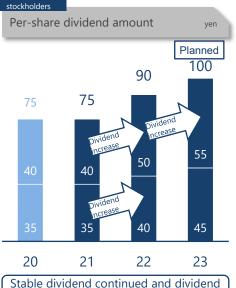


MW

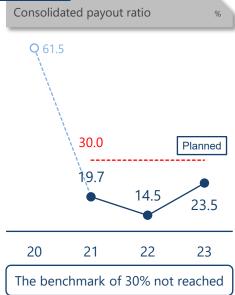








increase determined three times*3



^{*1} Compared to FY 2017 *2 Preliminary results

^{*3} The year-end dividend for FY2023 will be put on the agenda for the 72nd General Meeting of Shareholders.

Summary of Medium-Term Management Plan FY2021-FY2023 2/2 **POWER**



Actions

Major initiatives

Results

Future tasks

Action 1

Accelerating the development of CO₂-free power sources



Accelerating the development of renewable energy globally



Steadily promoting the Ohma **Nuclear Power Plant**

New development on a scale of 1,500 MW in sight Owned capacity on a scale of 10,000 MW achieved Improved profitability during price escalation Reliable promotion of offshore wind power projects in Japan

Progress of conformance review

Early full-fledged construction Improved predictability of investment recovery

Action 2

New value creation utilizing existing assets (Upcycling)



Upcycling of renewable energy





Determination and promotion of NEXUS Sakuma Project Promotion of repowering of hydro and wind powers

Realization of NEXUS Sakuma Project Securing and improving profitability

Plan

Progress of environment assessment Determination to discontinue the existing Matsushima Thermal Power Plant

Realization of GENESIS Matsushima Plan Realization of transition at other thermal power plants



Initiatives for early implementation of CCS

Establishment of a joint venture between ENEOS Group Research and consideration as an advanced CCS business

Development of a CCS value chain based on implementation in own thermal power plants

Action 3

Challenges to new business areas



Pursuing the possibility of CO₂-free hydrogen (Including CO₂-free ammonia)



Accelerating the social implementation of innovations Involvement in the hydrogen/ammonia value chain and consideration of power generation applications

Participation in hydrogen/ammonia production and supply projects Accelerated studies of power generation use

Establishment of external networks and enhanced internal collaboration Investing in 13 start-up companies

Shift from exploration to business development

Action 4

Enhancement of business foundation



Expansion of overseas business foundation





Promotion of sustainable management

Started operation of three large projects (Triton Knoll in Britain, Jackson in US, Batang in Indonesia)

Replacement of business portfolio, including sale and reinvestment of assets

Establishment and raising of CO₂ reduction plans Identification of materiality and setting of targets (KPI)

Reconfiguration of business portfolio Accelerated payback of investment

Establishment of a system to measure capital efficiency by business and take appropriate remedial measures

> Establishment of PDCA cycle Further deepening





2 Medium-Term Management Plan FY2024-FY2026

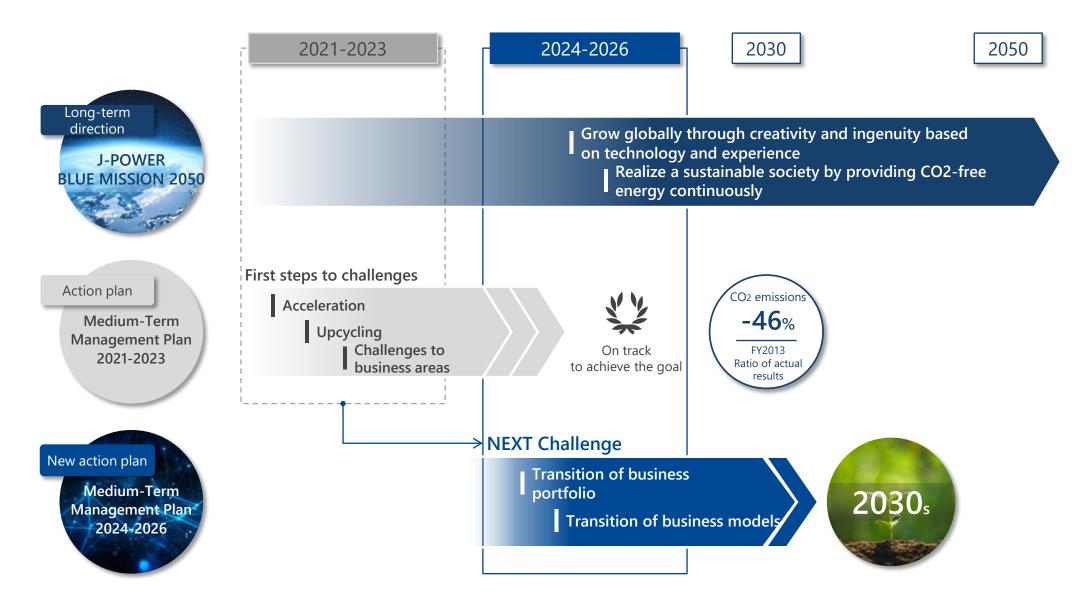
3 —— Priority Items

Appendix

Positioning of Medium-Term Management Plan FY2024-FY2026



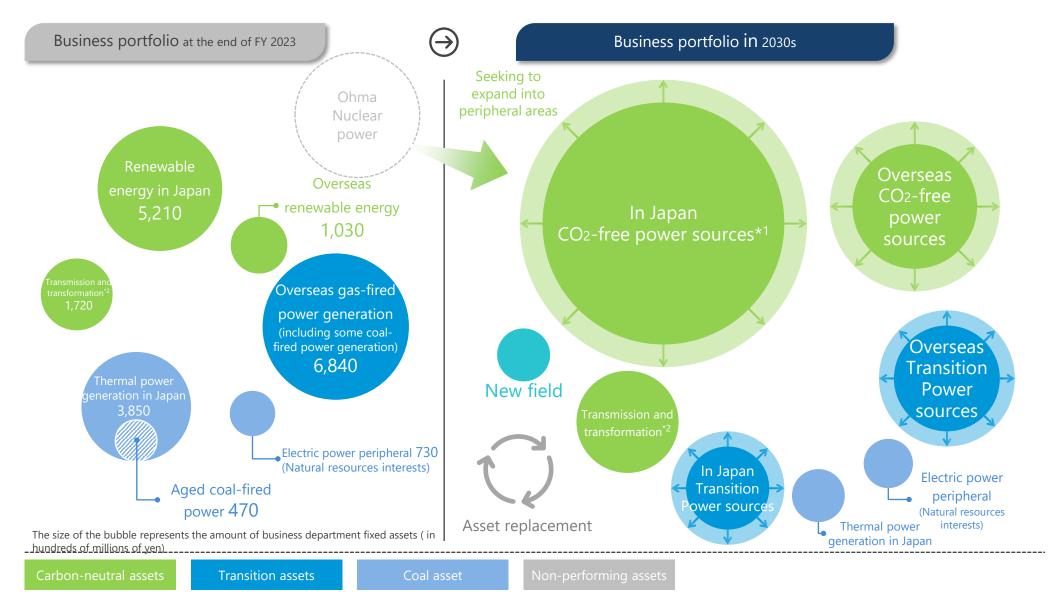
By continuing our initiatives to date, we have gained a certain level of prospects for achieving our 2030 CO2 reduction target. Looking to the world beyond 2030, the J-POWER group will take on the challenge of further transition and the development of carbon-neutral assets.



Targeted business portfolio 2030s

This plan will be updated, reviewed, and refined as needed according to the government's GX policies (including the energy master plan, global warming mitigation measures, NDC), the electricity supply and demand situation, the electricity system design, the progress of industrial development, and other conditions.

With the aim of accelerating the transition to carbon-neutrality after 2030, we will promote the transition of thermal electric power generation in Japan and aim to transform our business portfolio to one centered on carbon-neutral assets both domestically and abroad while being mindful of capital efficiency.



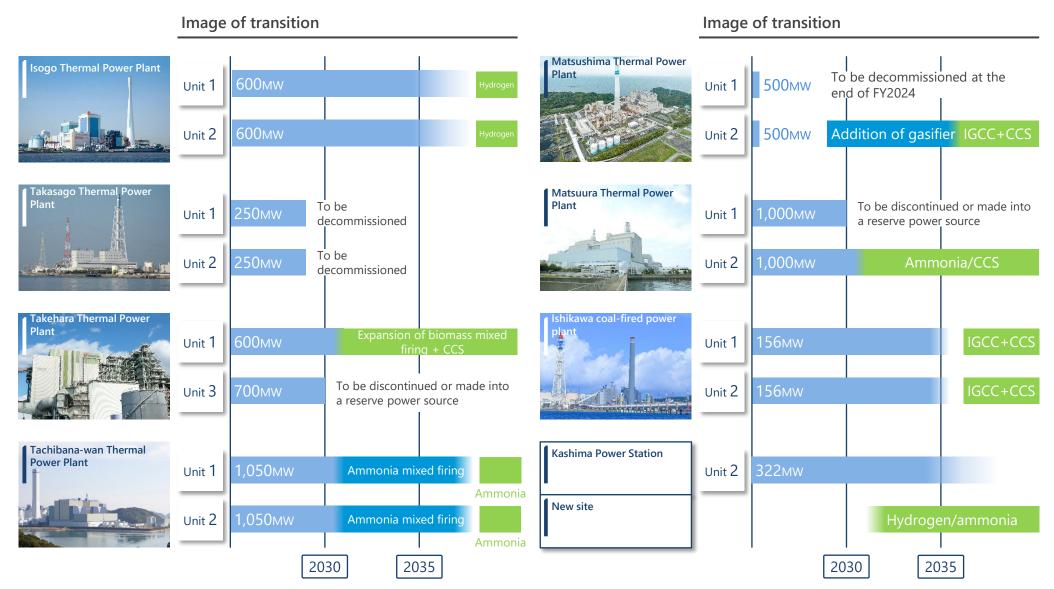
^{*1} Domestic renewable energy, CO2-free thermal power and Ohma nuclear power

^{*2} Transmission and transformation business is an initiative of J-POWER Transmission

Direction of thermal power generation transition in Japan

This plan will be updated, reviewed, and refined as needed according to the government's GX policies (including the energy master plan, global warming mitigation measures, NDC), the electricity supply and demand situation, the electricity system design, the progress of industrial development, and other conditions.

In accordance with the BLUE MISSION 2050 roadmap, inefficient coal-fired power plants will be phased out, while high-efficiency thermal power plants will be selected based on the characteristics of each location to achieve low-carbon and decarbonization while contributing to stable power supply.

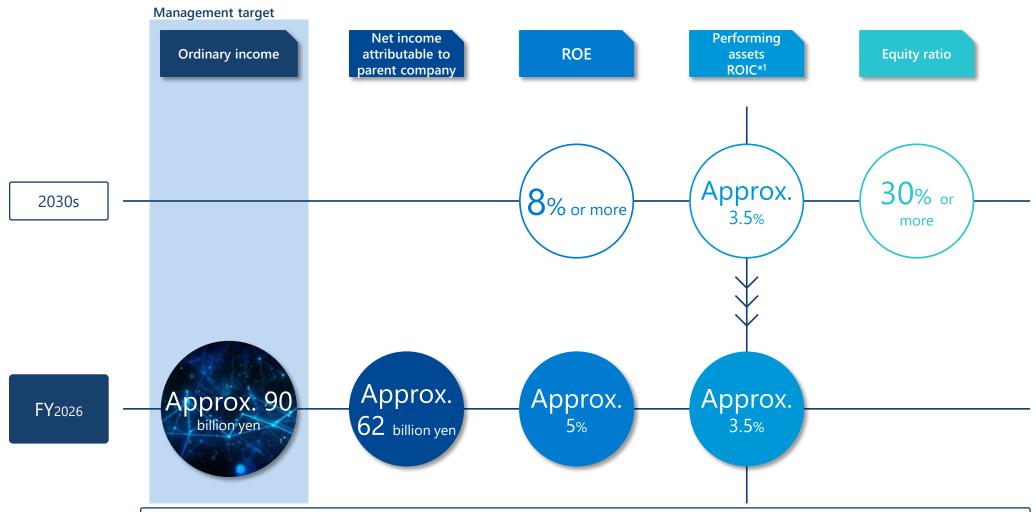


Management target



While the impact of climate change policies on our business performance is unavoidable to a certain extent, we have set a future ROE target of 8% or higher.

We aim to achieve our target of 90 billion yen in ordinary income in fiscal 2026, while keeping in mind the level of ROIC required for the future.



Assuming a ratio of non-performing assets of around 10%, the level of ROIC for operating assets required to achieve a ROE of 8% or more in the 2030s is set at around 3.5%. Work on converting construction in progress and other assets into operational assets while aiming for a performing assets ROIC of around 3.5% from FY2026.

Return to stockholders



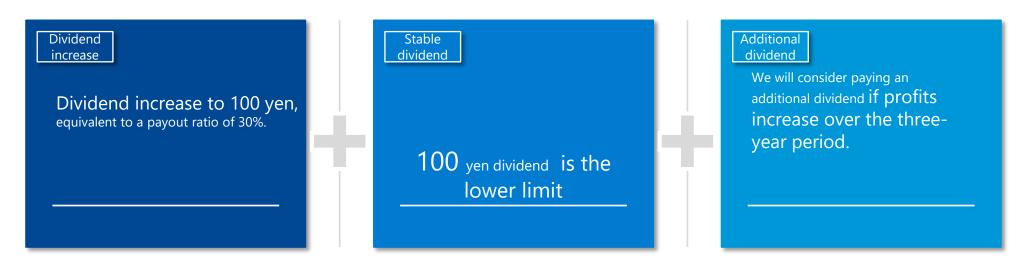
We will maintain a policy of stable and continuous dividend payments.

We will pay a stable dividend of 100 yen per share (forecast), and will consider paying an additional dividend if profits increase over the three-year period.

Basic policy on return to stockholders

Excluding short-term profit fluctuation factors, we aim for a consolidated dividend payout ratio of 30%, and strive for stable and continuous enhancement of returns to shareholders based on profit levels, performance prospects, financial conditions, and other factors.

Return to stockholders FY2024-FY2026



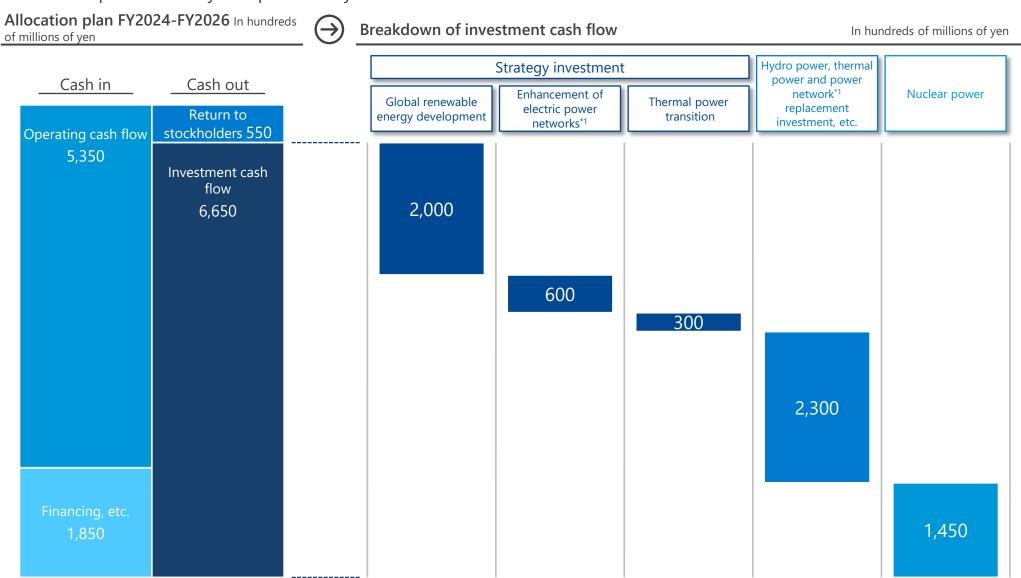
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Capital allocation FY2024-FY2026



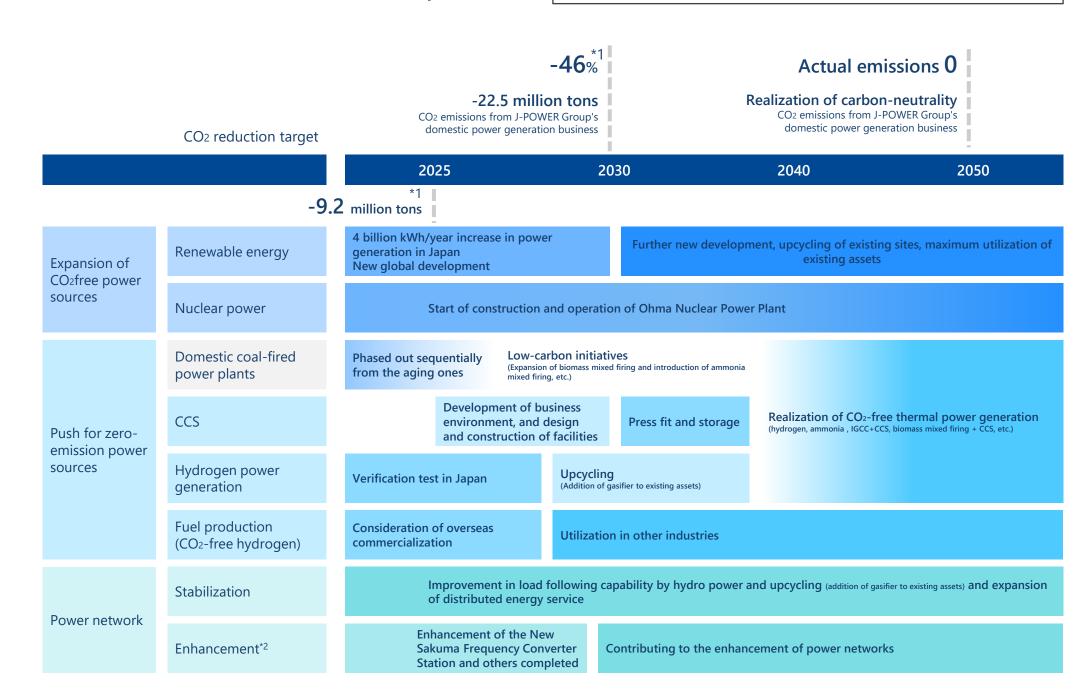
We plan to make strategic investments of approximately 300 billion yen over the next three years, with a view to making 700 billion yen in strategic investments by FY2030.

We will prioritize investments in domestic and international carbon-neutral assets that support sustainable growth, with a focus on capital efficiency and profitability.



BLUE MISSION 2050 road map

This plan will be updated, reviewed, and refined as needed according to the government's GX policies (including the energy master plan, global warming mitigation measures, NDC), the electricity supply and demand situation, the electricity system design, the progress of industrial development, and other conditions.







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Priority Items



Priority Items

具体的な取組項目



Growth strategy

Establishment and growth of sustainable revenue stream



Renewable energy in Japan Increased revenue by expanding power generation and realizing environmental value



Overseas

Generating returns over multiple time horizons while improving capital efficiency



Transition strategy

Strategies for business portfolio in 2030s



Hydrogen/ ammonia

Securing decarbonization technologies by pursuing multiple opportunities



Promotion of enhancement plan of the Sakuma Frequency Converter Station and pursuit of new business opportunities



Ohma Nuclear power

Steady promotion with a view to the use of long-term decarbonization power source auctions



Innovations

Creation of new revenue streams through collaboration with start-ups, etc.



Business management

Improvement of profitability and investment efficiency



Department management Enhancement of business portfolio management according to business characteristics by changing segments



Investment efficiency

Autonomous management of the sector through ROIC, strengthening of initiatives to improve capital efficiency



Enhancement of group's competitiveness



Human resources

Continued development of diverse human resources who will become pioneers of wisdom and technology



Improved group competitiveness through the creation of 3Ps "Yoryoku" of human resources



Sustainability

Deepening of ESG management

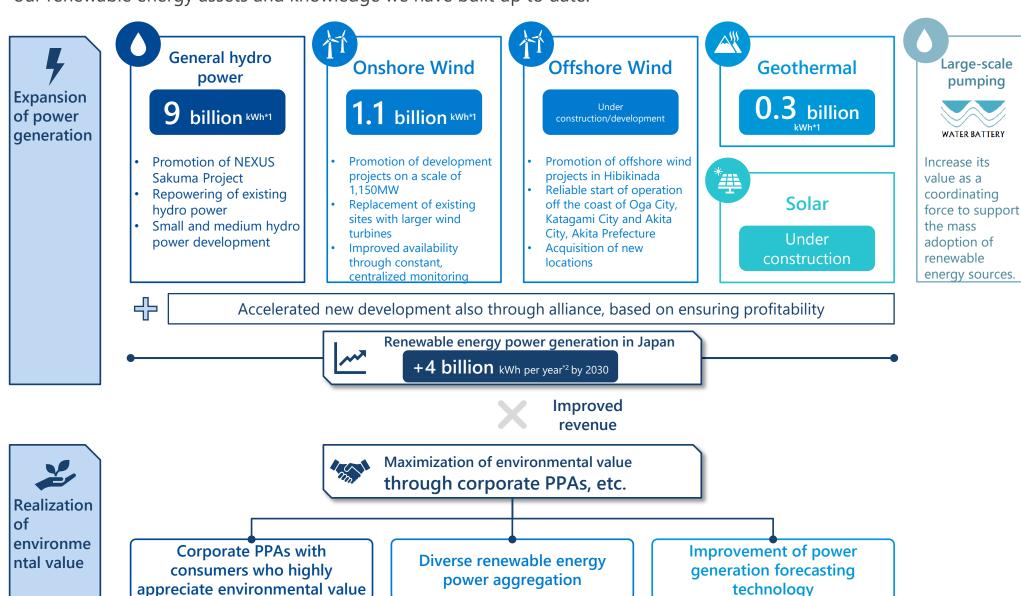


From the development of the promotion system to the stage of deepening

Renewable energy business in Japan



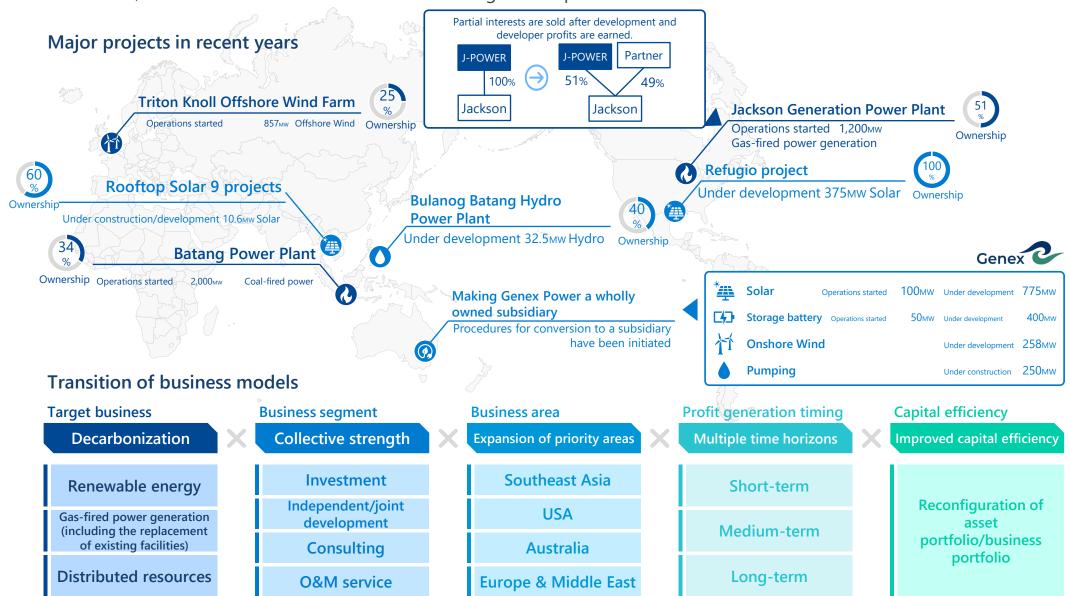
As Japan's leader in renewable energy development with a history of more than 70 years, we aim to increase revenue and achieve further growth by expanding power generation (+4 billion kWh) and realizing environmental value by leveraging our renewable energy assets and knowledge we have built up to date.



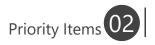
Priority Items 01 Overseas business



We aim to expand our business segments and business areas while improving capital efficiency, centering on the acquisition of developer profits not only in the power generation business but also in renewable energy and other businesses, and to shift to a business model that can generate profits over a diverse time horizon.



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Priority Items 02 CO2-free hydrogen/ammonia strategy



In addition to promoting the GENESIS Matsushima Project to commercialize coal gasification power generation technology for future CO2-free hydrogen power generation, we will pursue various opportunities from upstream to downstream in the supply chain to secure decarbonized technologies.



Manufacturing and supply



Power generation



a ccs

Pursuit of coal gasification technology





Operation of a larger gasifier Demonstration test of gas turbine operation with highly concentrated hydrogen

Aiming for CO2-free hydrogen power generation in the future with gasification technology at the core

Pursuit of diverse decarboniza tion options



Overseas blue hydrogen/ammonia

Research and consideration of participation in overseas upstream projects



Overseas green hydrogen/ammonia

Research and consideration of participation in overseas upstream projects



Coal hydrogen in Australia

Consideration of hydrogen production and supply by lignite gasification



Green hydrogen in Japan

Consideration of the feasibility of green hydrogen in Japan



Utilization of hydrogen/ammonia power generation

Consideration of the procurement, transportation, acceptance, and combustion of hydrogen/ammonia



CCS in Japan

Initiatives to implement CCS with the **ENEOS Group**

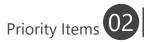


Overseas CCS

Pursuing the possibility of CO₂ retention overseas

Acquisition of the development rights for a large-scale green hydrogen/ammonia production project in Oman

- Consortium with Yamna and EDF signs business development agreement with Hydrom*1, an Omani government agency
- Approximately 4.5 GW of solar power, wind power, and storage batteries and 2.5 GW of water electrolyzers to be installed
- A detailed project study will be conducted in the future to confirm the feasibility of the project



Priority Items 02 Contributing to the enhancement of power networks



We will steadily promote the J-POWER Transmission's Sakuma Frequency Converter Station enhancement plan to contribute to the wide-area operation of the power system.

Building on our achievements to date, we will pursue business opportunities to help strengthen the power network to support the mass adoption of renewable energy.

Transmission and transformation facilities

J-POWER Transmission owns and operates critical transmission and transformation facilities throughout Japan, including the cross-regional interconnection facilities that interconnect the grids of different electric power companies.



Transmission lines Total length: Approximately 2,400 km Substations

AC/DC converter stations 4 locations

Frequency converter stations 1 location

Construction of the New Sakuma Frequency **Converter Station and others**

Start of construction in April 2022 Operation scheduled to start in FY2027

J-POWER will steadily promote the replacement/expansion of the New Sakuma Frequency Converter Station and related transmission lines to meet consumers' expectations for enhancing the capability to interchange electric power between 50Hz in eastern Japan and 60Hz in western Japan. J-POWER will continue to pursue business opportunities contributing to strengthening power networks.

Today's most pressing issues also include the need to sophisticate maintenance due to over-aging deterioration and strengthen resilience against intensifying natural disasters. J-POWER will continue to contribute to a stable power supply through these efforts.





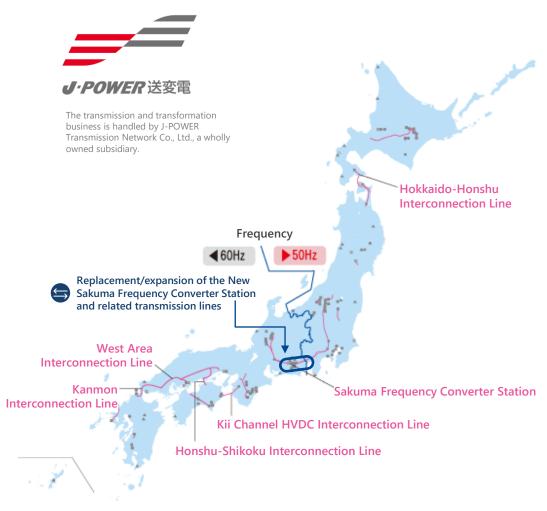


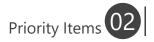
Construction of the New Sakuma Frequency **Converter Station and others**

- New Sakuma Frequency Converter Station

- Sakuma East Trunk Line, etc.

Approx. 138 km





Priority Items 02 Ohma Nuclear Power Plant Project



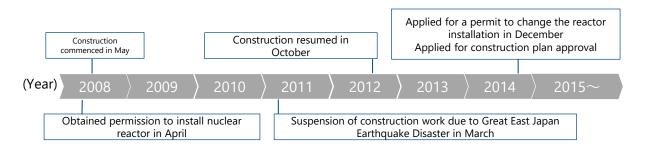
As a large-scale CO₂-free power source and a power plant that supports the nuclear fuel cycle, we will promote the Ohma Nuclear Power Plant Project, which contributes to climate change response and Japan's energy security, with the highest priority on safety assurance, while also keeping in mind the use of the Long-Term Decarbonization Power Auction Program.

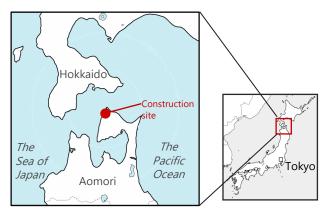
Overview of Ohma Nuclear Power Plant Project

Construction site	Ohma-machi, Shimokita-gun, Aomori Prefecture	
Capacity	1,383мw	
Reactor type	Advanced Boiling Water Reactor (ABWR)	
Fuel	Enriched uranium Mixed (uranium and plutonium) oxide	
Start of construction	May 2008	
Start of operations	To be determined	



Process (Results)





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Priority Items 02 | Creation of new business areas



Through investment and collaboration with startups, etc., the J-POWER Group will seek to create value by integrating its technologies and expertise, and will establish a new organization (newly established as the "Innovation Promotion Department" in April 2024) to develop and accelerate the results of value creation into new profitable businesses.

Examples of major collaboration with funded start-ups











As of March 31, 2024, we made direct investments in a total of 12 companies, including the following, in addition to the five companies listed above.

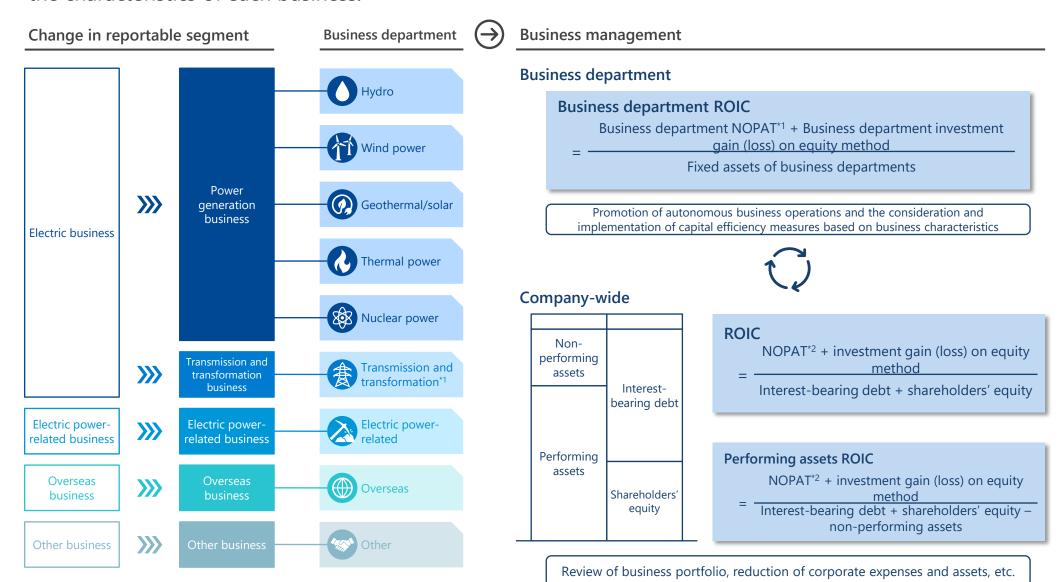
- GITALUSA Inc.
- BELLDESIGN Inc.
- Scalar, Inc.
- Save Medical Corp.
- VUILD, inc.
- AREANO Inc.
- · WASSHA Inc.

We will seek to create new value with startups and businesses other than those in which we have invested.

Priority Items 03 | Business management

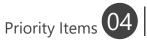


Through the introduction of ROIC, we aim to improve company-wide ROIC by encouraging business departments to operate autonomously and to consider and implement capital efficiency measures based on the characteristics of each business.



^{*1} The transmission and transformation business is an initiative of J-POWER Transmission.

^{*2} After-tax operating income (including non-operating and extraordinary gains/losses that can be directly charged to business departments)

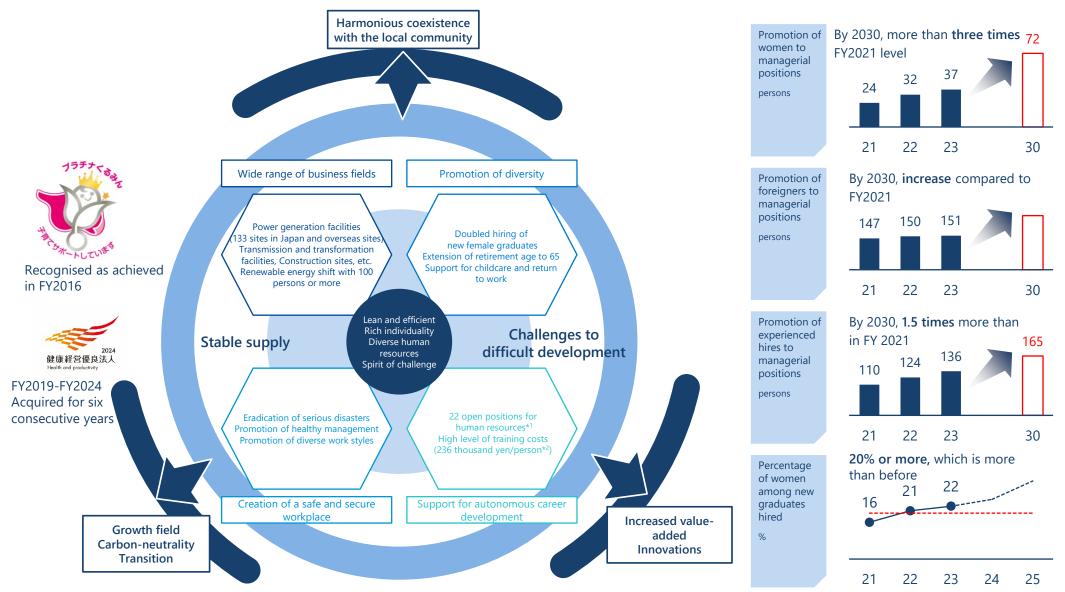


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Priority Items 04 Human resource strategy to enhance corporate value



We will contribute to solving various social issues facing Japan and the world by respecting individuals, ensuring opportunities for diverse work experiences, developing and improving human resources systems that support employees' challenges, and continuing to nurture diverse human resources who will become pioneers of wisdom and technology.



^{*1} Cumulative results up to FY2023 *2 FY2023 results

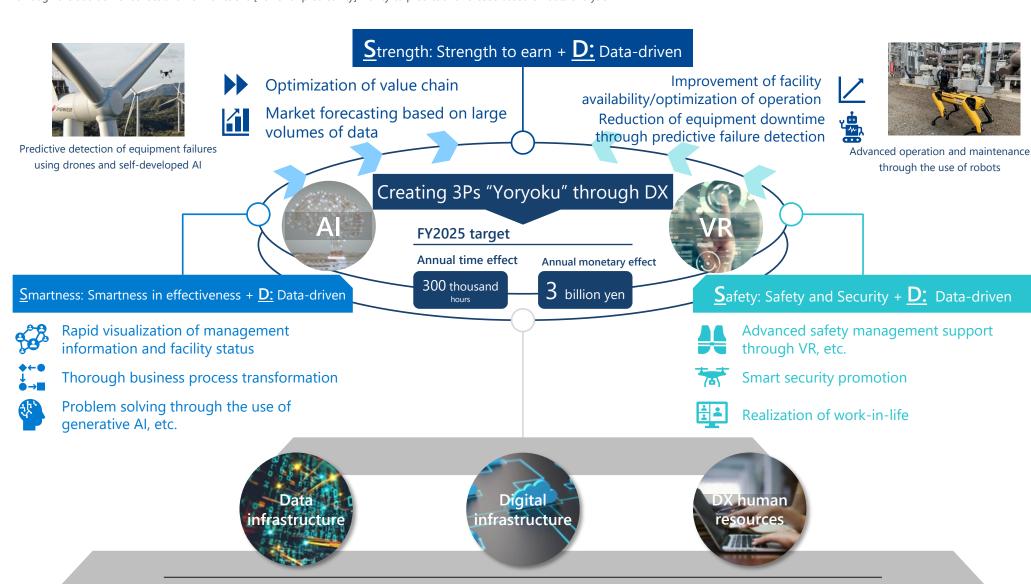
^{*3} Results for the year in which recruitment activities are carried out; actual induction is in April of the following year.

Priority Items 04 | Creating 3Ps "Yoryoku" through DX



The J-POWER Group aims to create the 3Ps "Yoryoku" (powers of potentiality, productivity and predictivity*) of human resources and improve the Group's competitiveness by promoting specific measures to realize its DX promotion vision "DX 3S+D."

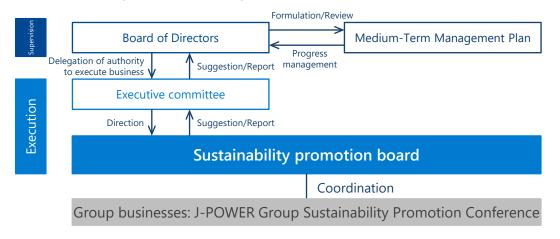
* A term coined to describe the following: [Power of potentiality] The power of leeway created by automation and streamlining of operations [Power of productivity] The power of originality and ingenuity gained through the addition of senses and new functions [Power of predictivity] Ability to predict and foresee based on data analysis





Based on the ESG management promotion system that has been developed so far, we will deepen ESG management by implementing the PDCA cycle.

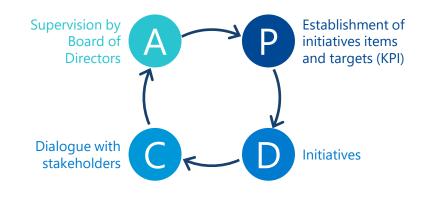
Sustainability promotion system



Committee

Transition to a company with an audit committee

PDCA cycle

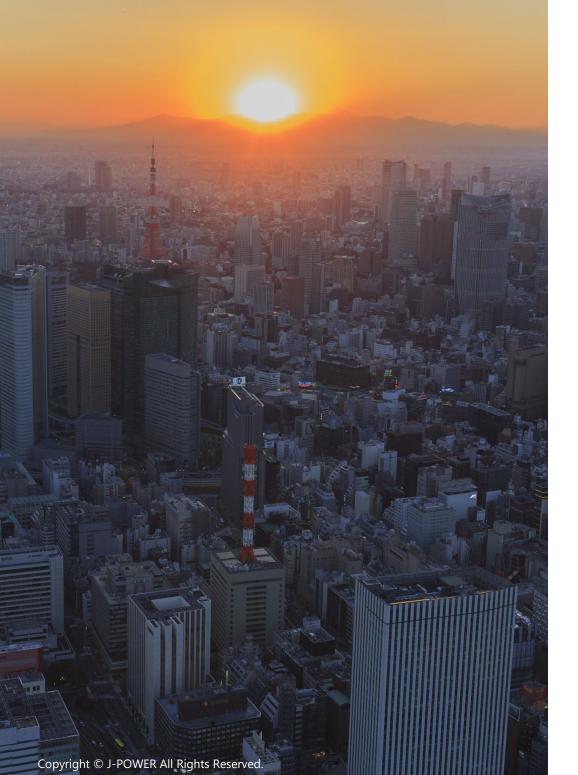


Incorporation and operation of materiality assessment into executive compensation

	Materiality	Achievements to date	Initiatives
[4]	Energy supply	Formulation of "BLUE MISSION 2050" Establishment of new CO ₂ reduction target for FY2025 Raising of CO ₂ reduction target for FY2030	Steady promotion of "BLUE MISSION 2050" Steady achievement of CO ₂ reduction target for FY2025 Clarification of path toward achieving CO ₂ reduction target for FY2030 Enhanced TCFD (climate change) disclosure Implementation of disclosure of TNFD (natural capital)
	Response to climate change		
889	Respect for people	Establishment of basic human rights policy	Steady progress toward achieving diversity target for FY2030 Implementation and establishment of human rights due diligence
(<u>A</u>)	Harmonious coexistence with the local community	Community-based operation of power facilities	Deepening the way of coexistence with the community, led by the officials in charge of coexistence with the community
	Enhancement of	Establishment of Nominating and Compensation	Continued and thorough evaluation of the effectiveness of the Board of Directors

business foundation





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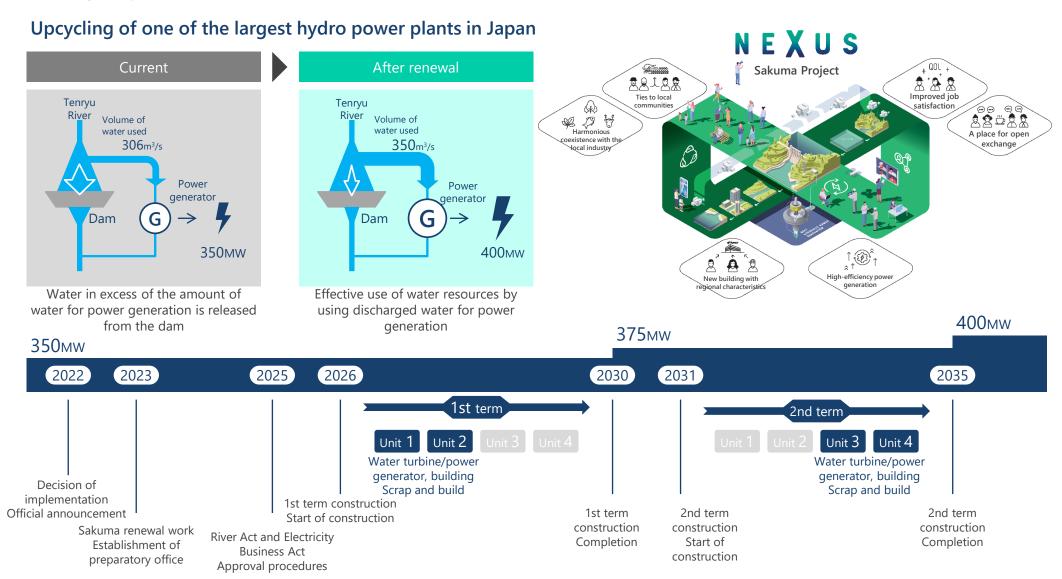
NEXUS Sakuma Project



The amount of water used for power generation will be increased to achieve a maximum output of +50 MW (400 MW is the second largest in Japan* in terms of general hydraulic power) and an annual power generation output of +55 GWh.

By taking advantage of the generator's ability to operate at both 50Hz and 60Hz, we will contribute to the stable supply of electricity for both the east and the west.

^{*} The No. 1 general hydro power plant in Japan is J-POWER Okutadami Power Plant (560 MW).



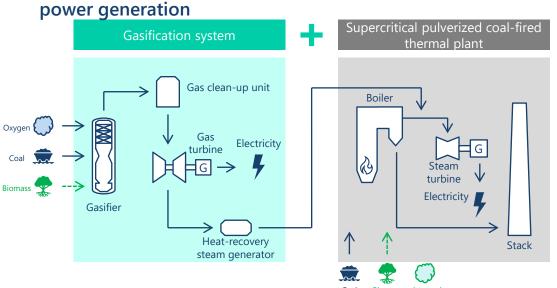
GENESIS Matsushima Plan



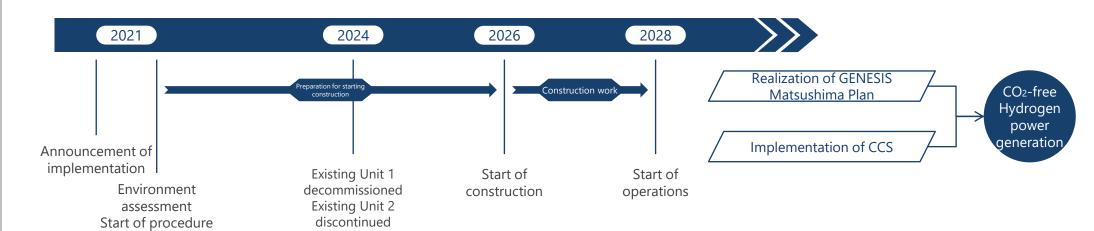
First step toward CO₂-free hydrogen power generation by commercializing the technology demonstrated in Osaki CoolGen Project.

We aim to become a leader in carbon-free thermal power generation in Japan, starting with upcycling by adding gasification facilities to existing facilities.

First step toward CO₂-free hydrogen







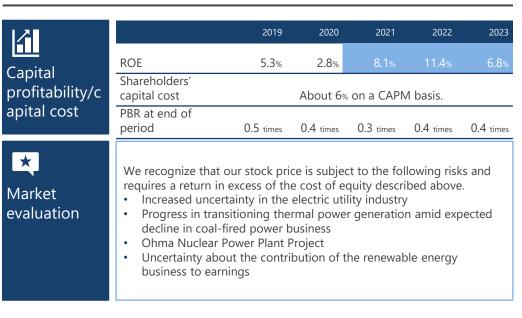
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Toward medium- and long-term enhancement of corporate value

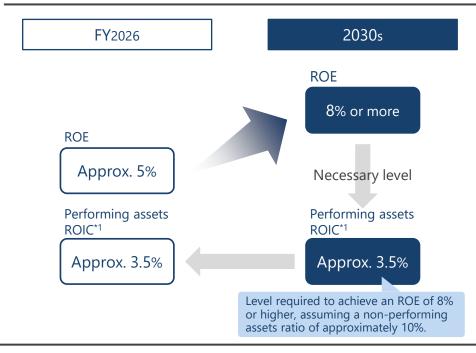


Based on the analysis and evaluation of the current situation, we will work to improve capital efficiency using ROIC as an indicator and to improve the corporate value over the medium to long term by further strengthening the dialogue with the market regarding our response to the risks inherent in our business.

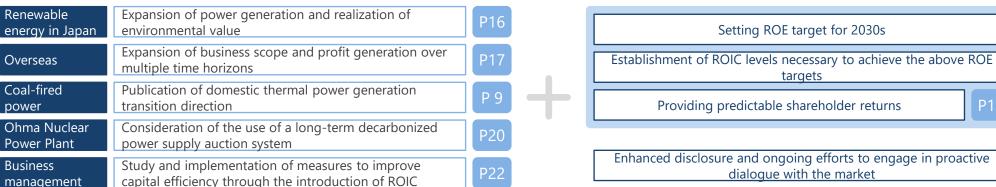
Analysis and evaluation Partially updated from material published on October 31, 2023



ROE target/ROIC level image



Remedial measures



^{*1 (}NOPAT + investment gain (loss) on equity method)/(interest-bearing debt + shareholders' equity - non-performing assets), NOPAT includes nonoperating income/loss and extraordinary income/loss which can be directly charged to business departments.

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This document contains forward-looking statements such as projections, plans, and targets related to the J-Power and our group businesses. These statements are based on information currently available to J-Power and on projections and other assumptions made at the time this document was prepared. These statements are based on certain assumptions. These statements and assumptions may prove to be objectively incorrect or may not be realized in the future.

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