

FY2023 Second Quarter Investors Meeting

(Note1) The company's fiscal year (FY) is from April 1 to March 31 of the following year in this material. "2Q" refers to the period from April 1 to September 30.

(Note2) The Company has voluntarily adopted International Financial Reporting Standards (IFRS) from the consolidated financial statements for the fiscal year ended March 31, 2023 (FY2022). Therefore, the following pages and thereafter have been prepared in accordance with IFRS.

JERA Co., Inc.

October 27, 2023

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Outline of Financial Results

Consolidated Statement of Profit or Loss

	2023/2Q(A)	2022/2Q(B)	Change(A-B)	Rate of Change(%)
Revenue (Net sales)	2,097.3	1,943.4	153.8	7.9
Operating profit / loss	427.7	-182.5	610.3	-
Quarterly profit / loss attributable to owners of parent	291.2	-214.1	505.3	-
<reference> Quarterly profit excluding time lag</reference>	75.3	150.1	-74.8	-49.8

Consolidated Statement of Financial Position

(Unit: Billion Yen)

(Unit: Billion Yen)

	As of Sep 30,2023(A)	As of Mar 31,2022(B)	Change(A-B)	Rate of Change(%)
Assets	9,393.6	9,172.3	221.2	2.4
Liabilities	6,768.0	7,132.6	-364.5	-5.1
Equity	2,625.5	2,039.7	585.8	28.7

Key Points of Financial Results

[Revenue]

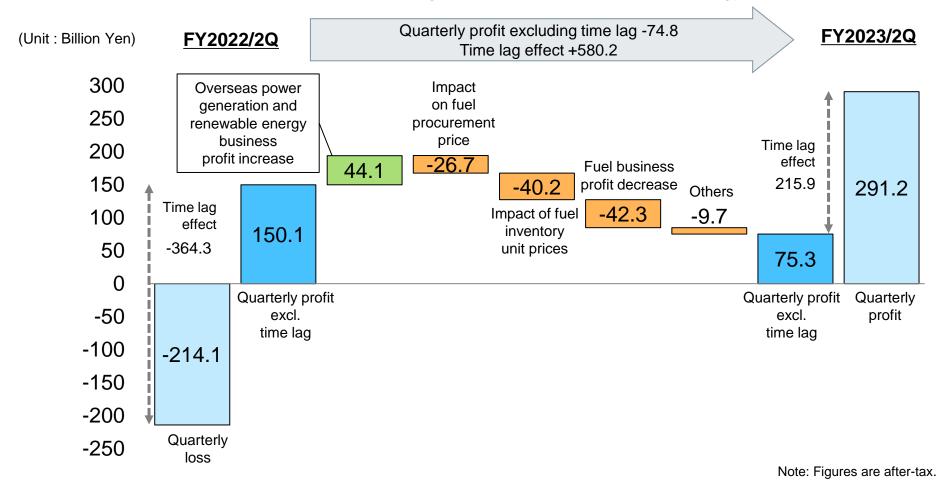
Revenue increased by 153.8 billion yen (up 7.9%) from the same period last year to 2,097.3 billion yen.

[Quarterly profit/loss]

- Quarterly profit/loss increased by 505.3 billion yen from the same period last year -214.1 billion yen and rose to profit of 291.2 billion yen.
 - •The effect of time lag shifted from losses to gains. (+580.2 billion yen [-364.3 billion yen to 215.9 billion yen])
 - •Quarterly profit excluding time lag decreased. (-74.8 billion yen [150.1 billion yen to 75.3 billion yen])
- Quarterly profit excluding time lag decreased due to the impact on fuel procurement price, the impact of fuel inventory unit prices, and the decrease in profit from fuel business, while the profit from overseas power generation and renewable energy business increased.

Change Factors of Quarterly Consolidated Profit/Loss

Quarterly profit excluding time lag decreased due to the impact on fuel procurement price, the impact of fuel inventory unit prices, and the decrease in profit from the fuel business, while profit from the overseas power generation and renewable energy business increased.



3

Consolidated Statement of profit or loss

(Unit: Billion Ye								
	2023/2Q(A)	2022/2Q(B)	Change(A-B)	Main Factors of Changes				
Revenue (Net sales)	2,097.3	1,943.4	153.8	 Due to the decrease of elimination amount (factor for the revenue decrease) between JERA and JERAGM 				
Operating expenses	1,708.4	2,107.6	-399.1	 Decrease of fuel costs 				
Other operating income/ loss	38.8	-18.4	57.2	 Decrease of exchange loss +32.8 Increase of share of profit / loss of investments accounted for using equity method +23.0 				
Operating profit / loss	427.7	-182.5	610.3					
Financial income	37.6	5.4	32.2	 Increase of interest received +22.3 				
Financial costs	41.9	105.6	-63.6	Decrease of exchange loss -64.9				
Profit / loss before tax	423.4	-282.7	706.2	 Decrease of time lag effect +805.8 (-506.0 → 299.8) Decrease of profit excluding time lag -99.6 (223.2 → 123.6) 				
Income tax expense	87.5	-94.8	182.3					
Quarterly profit attributable to non-controlling Interests	44.7	26.1	18.5					
Quarterly profit / loss attributable to owners of parent	291.2	-214.1	505.3					

Key Elements

	2023/2Q(A)	2022/2Q(B)	Change(A-B)
Electrical Energy Sold (TWh)	115.4	127.8	-12.4
Crude Oil Prices(JCC) (dollar/barrel)	83.5	111.9	-28.4
Foreign Exchange Rate (yen/dollar)	141.0	134.0	7.0

Note: Crude Oil Prices(JCC) for 2023/2Q is tentative.

Consolidated Statement of Financial Position

(Unit: Billion Yen							
	As of Sep 30,2023(A)	As of Mar 31,2022(B)	Change(A- B)	Main Factors of Changes			
Cash and cash equivalents	1,654.0	1,360.9	293.1	 Increase in JERA, etc. 			
Property, plant and equipment	2,720.0	2,387.8	332.2	 Increase of acquisition of Parkwind, etc. 			
Investments accounted for using equity method	1,320.9	1,112.7	208.1	 Increase of acquisition of GPI, etc. 			
Others	3,698.5	4,310.8	-612.2	 Decrease of accounts receivable trade -254.8 Decrease of derivative assets (JERAGM, etc.) -305.2 			
Assets	9,393.6	9,172.3	221.2				
Interest-bearing liabilities	3,465.4	3,510.8	-45.3	 Borrowings -410.0 Commercial Paper -79.0 Corporate Bonds +74.7 			
Others	3,302.6	3,621.8	-319.2	 Decrease of derivative liabilities (JERAGM, etc.) -443.4 			
Liabilities	6,768.0	7,132.6	-364.5				
Equity attributable to owners of parent	2,604.3	2,022.8	581.4	 Profit +291.2 Foreign currency translation adjustments +172.7 			
Non-controlling interests	21.2	16.8	4.3				
Equity	2,625.5	2,039.7	585.8				

Consolidated Statement of Cash Flows

(Unit: Billion Yen)

		2023/2Q(A)	2022/2Q(B)	Change(A-B)
Operating cash flow		994.7	-717.7	1,712.4
	Purchase of property, plant, and equipment	-123.8	-188.0	64.2
Investment cash flow	Purchase of investment securities	-57.8	-9.4	-48.3
	Others	-228.6	-28.0	-200.5
		-410.3	-225.5	-184.7
Free cash flows		584.4	-943.3	1,527.7
	Increase (decrease) in interest-bearing debt	-294.4	908.2	-1,202.7
Financial cash flow	Dividends paid *1	0	-83.1	83.1
	Others	-96.3	-48.7	-47.5
		-390.8	776.4	-1,167.2

Increase (decrease)in cash and cash equivalents (minus indicates decrease)	293.1	-135.9	429.0
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*1 Excluding Dividends paid to non-controlling interests

Segment Information

(Unit: Billion Yen)

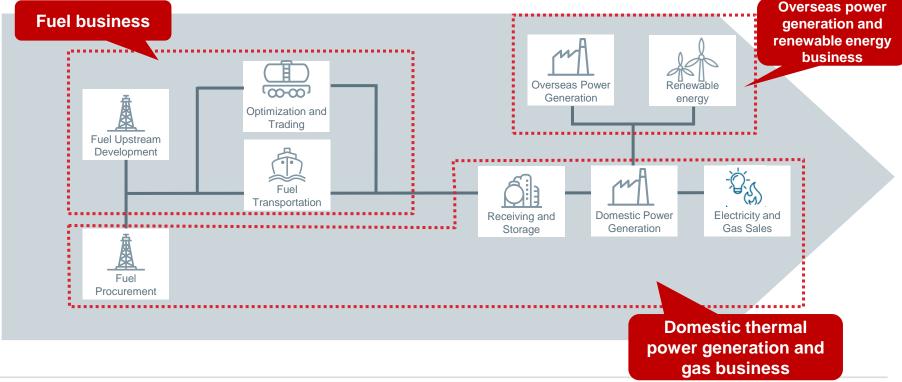
	2023/2Q(A)		2022/2Q(B)		Change(A-B)		
	Revenue	Profit / Loss	Revenue	Profit / Loss	Revenue	Profit / Loss	Main Factors of Changes in Profit / Loss
Fuel	242.4	75.3	386.5	117.6	-144.0	-42.3	•Profit decrease in JERAGM, etc.
Overseas power generation and renewable energy	18.6	33.4	2.2	-10.6	16.4	44.1	•Gain on reversal of impairment loss in Formosa 2 +19.6 •Profit increase in overseas IPPs +24.5
Domestic thermal power generation and gas	2,275.5	186.1 -29.7 ^{※2}	2,616.0	-163.9 200.3 ^{%2}	-340.5	350.0 -230.1 ^{%2}	 Impact on fuel procurement price -26.7 Impact of fuel inventory unit prices -40.2 Gain/loss on sale of LNG -62.0
Adjustments ^{%1}	-439.3	-3.6	-1,061.3	-157.2	622.0	153.6	•Elimination of unfulfilled fuel contracts +92.5
Consolidated	2,097.3	291.2 75.3 ^{%2}	1,943.4	-214.1 150.1 ^{%2}	153.8	505.3 -74.8 ^{%2}	

%1 : "Adjustments" includes headquarter expenses and consolidation adjustments such as intersegment eliminations

%2 : Excluding the effect of time lag

(Reference) : JERA's Value Chain and Segment

- JERA owns the entire supply chains for fuel and thermal power generation, from fuel upstream business (development of gas fields) to transportation and storage (fuel terminal operation) to power generation and wholesaling.
- We have three business segments; "Fuel business" for investment in fuel upstream, transportation and trading business, "Overseas power generation and renewable energy business" for investment in overseas power generation and domestic and overseas renewable energy business, and "Domestic thermal power generation and gas business" for sales of electricity and gas in Japan.



FY2023 Forecast

- Profit excluding time lag is expected to be around 150 billion yen, while time lag profit is projected to be 200 billion yen based on the current fuel price trends, with a total profit of around 350 billion yen.
- Results may fluctuate due to changing trends in fuel markets and other factors.
- No change from the previous forecast announced in FY2023/1Q.

(Unit: Billion Yen)

		Current Forecast(A)	Previous Forecast(B)	Change (A-B)	Rate of Change (%)
F	Profit	350.0	350.0	-	-
	Time lag effect	200.0	200.0	-	-
	Profit excl. time lag	150.0	150.0	-	-

[Reference : Comparison with the previous year's result]

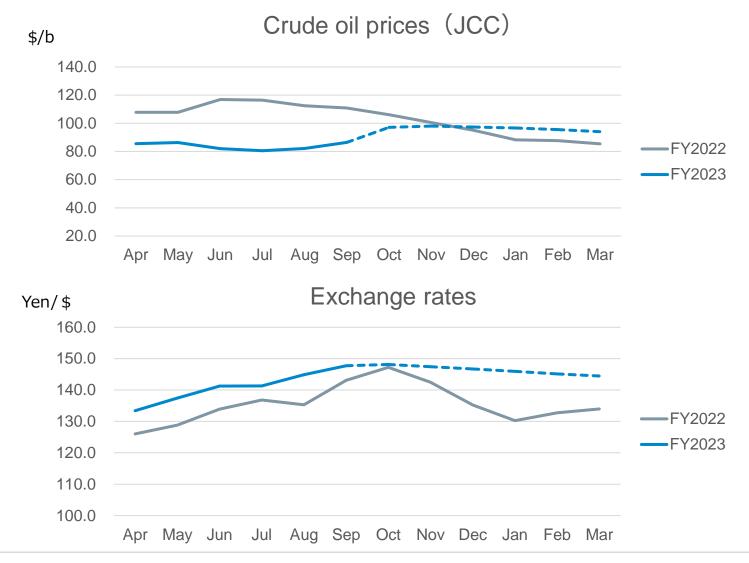
(Unit: Billion Yen) Current Rate of Change (A-B) FY2022 Result(B) Forecast(A) Change (%) **Profit** 17.81.866.3 350.0 Approx. 330.0 **Time lag effect** 200.0 -182.4Approx. 380.0 Profit excl. time lag 150.0200.3 Approx. -50.0 -25.1

[Key Data]

	Current Forecast	(Of these, from Oct onwards)	Previous Forecast	【Reference】 FY2022 Result
Crude oil prices(JCC) (dollar/barrel)	Approx. 90	Approx.96	Approx.79	102.7
Foreign exchange rate (yen/dollar)	Approx.144	Approx.146	Approx.140	135.5

Appendix

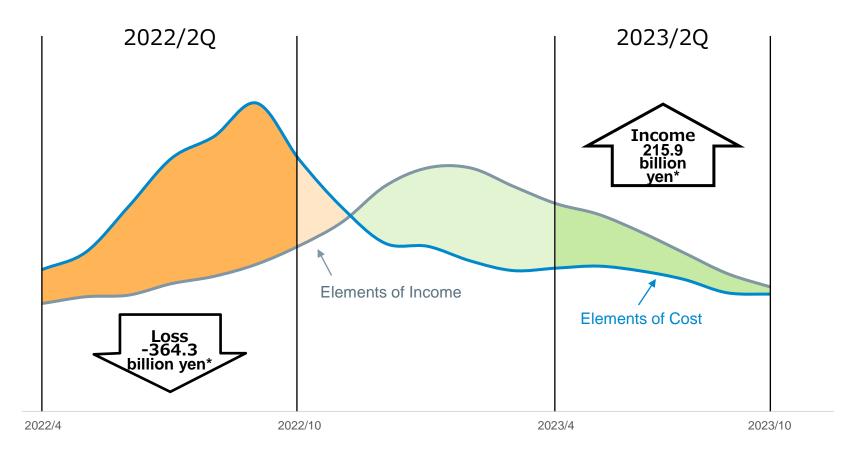
Trends in crude oil price and exchange rates



11

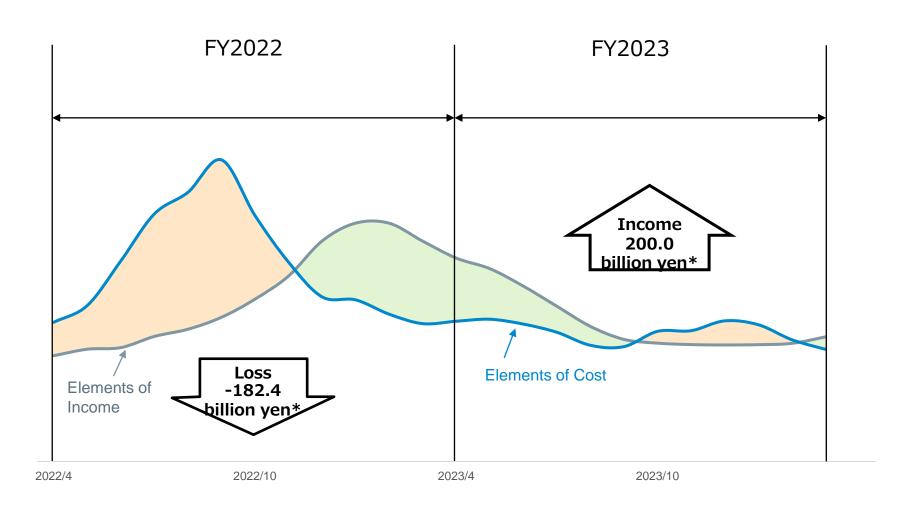
Image of Time Lag (2022/2Q - 2023/2Q)

- Time lag is profits and losses due to the time difference between changes in fuel prices and their reflection in sales prices.
- > The impact on profits and losses will be neutral in the medium to long term.



* Figures are after-tax amounts.

Image of Time Lag (FY2022 – FY2023)



* Figures are after-tax amounts.

[Electrical Energy Sold(TWh)]

	Apr to Jun	Jul to Sep	Oct to Dec	Jan to Mar	Total
FY2023	48.1	67.3			115.4
FY2022	57.9	69.9	63.6	63.7	255.1

[Electrical Power Generated(TWh)]

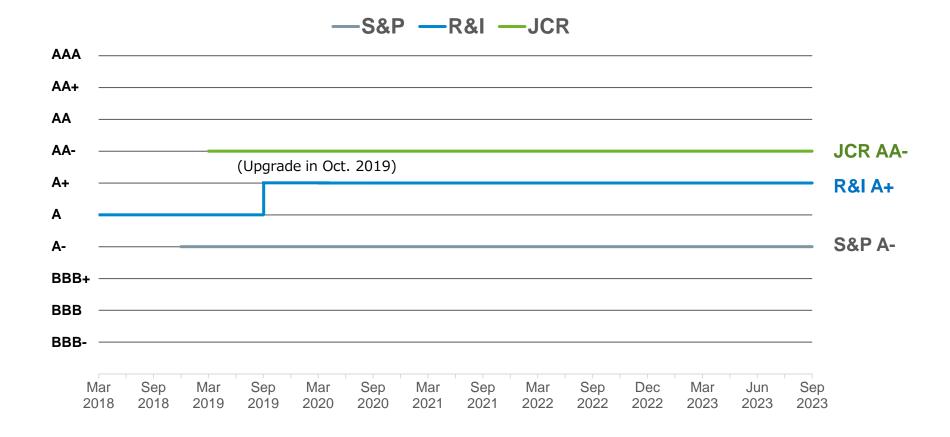
		Apr to Jun	Jul to Sep	Oct to Dec	Jan to Mar	Total
FY2023		47.5	66.2			113.6
	LNG	36.2(76%)	48.8(74%)			85.0 (74%)
	Coal	11.2(24%)	17.2(26%)			28.4(25%)
	Others	0(0%)	0.1(0%)			0.2(0%)
FY2	022	52.8	63.5	58.0	60.8	235.1
	LNG	41.7(79%)	47.0(74%)	43.9(76%)	45.8(75%)	178.4(76%)
	Coal	11.2(21%)	16.5(26%)	14.0(24%)	15.0(25%)	56.7(24%)
	Others	0 (0%)	0 (0%)	0 (0%)	0(0%)	0 (0%)

*The total may not match due to rounding.

14

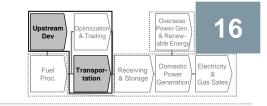
Credit Ratings

[Issuer Credit ratings history]



Reference: Overview and topics of each segment

Fuel Business: Fuel Upstream / Transportation Business



Participating in LNG upstream projects by leveraging one of the world's largest LNG transaction volume (FY2022: Approximately 35 million tons^{*}), we secure stable LNG sources and acquire the information related to procurement and the market trend. Additionally, We own fuel carriers that contribute to highly consistent, flexible, and competitive fuel supply.

Fuel Upstream Project

Project Name	Country	LNG Production / Liquefaction Capability	Investment Ratio *1	
Darwin LNG Project		Approx. 3.7 million tons/year	6.132%	
Gorgon LNG Project		Approx. 15.6 million tons/year	0.417%	
Ichthys LNG Project	Australia	Approx. 8.9 million tons/year	0.735%	
Wheatstone LNG Project		Approx. 8.9 million tons/year	Gas field: 10%, LNG plant: 8%	
Barossa gas field Project		LNG production and liquefaction capacity is the same scale as Darwin LNG Project.	12.5%	
Freeport LNG Project (Train1)		Approx. 5.15 million tons/year	25%	
Freeport LNG Development, L.P.*2	United States	Approx. 15.45 million tons/year*3 for all three lines	25.7%	

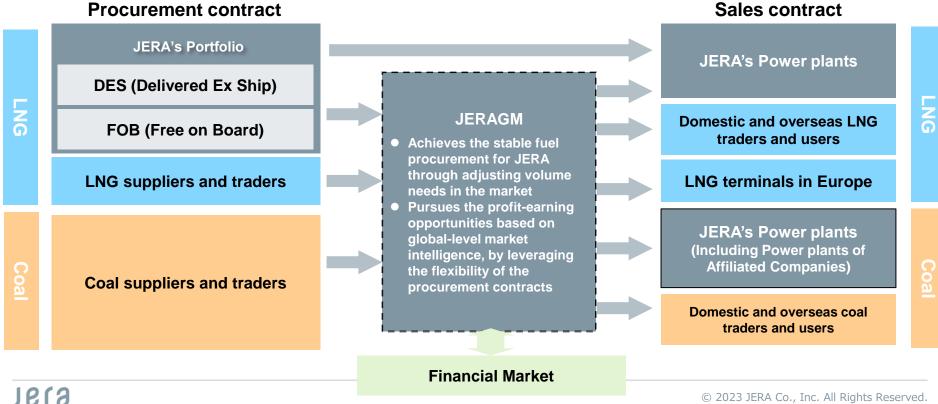
*1 The stake of Wheatstone LNG Project represents the ratio of shares held through PE Wheatstone in which JERA invests *2 Freeport LNG Project Management Company

*3 Including 5.15 million tons/year from Train 1

In June 2022, a fire incident occurs at the Freeport LNG terminal, shutting down operations at the terminal. In 2023, regulatory approvals for resumption of production were obtained one by one. And production has resumed at all lines.

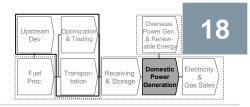


- In addition to the Singapore headquarters, JERAGM has offices in the United Kingdom, the Netherlands, the United States, and Japan, and holds approximately 300 employees who engage in asset-backed trading.
- Utilizing the global trading network, JERAGM supplies LNG and coal to JERA's domestic power generation business. Leveraging this commercial flow, JERAGM has been able to achieve both the enhancement of supply stability and the expansion of profits by efficiently capturing profit opportunities through transactions with markets and third parties.
- JERAGM trades within the limited volume under the governance of the Board of Directors elected by shareholders.

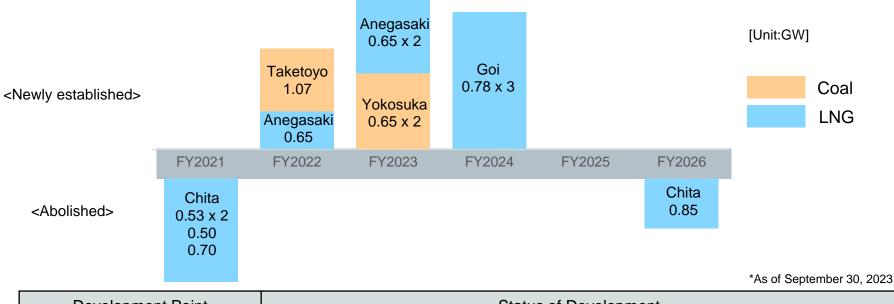


Procurement contract

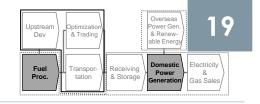
Domestic Thermal Power and Gas Business: Progress of Replacement of Thermal Power Plants in Japan



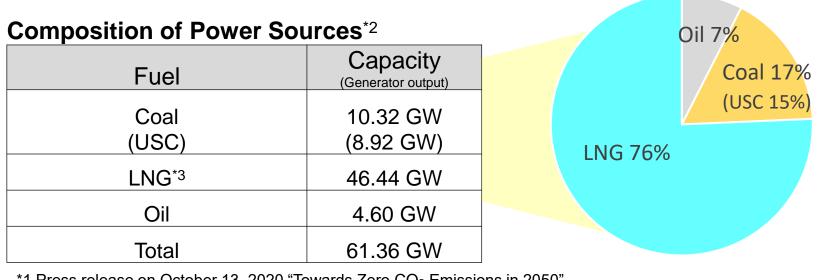
- Replaced with the latest high-efficiency thermal power generation facilities. Following Taketoyo and Anegasaki New Unit 1, Anegasaki New Unit 2 began commercial operation in April, Yokosuka Unit 1 in June, and Anegasaki New Unit 3 in August 2023.
- Construction and commissioning of Yokosuka Unit 2 and Goi Unit 1 to 3 are well underway.
- Unit 1 to 4 of Chita were abolished in FY2021. Unit 5 is planned to be abolished in FY2026 and is being considered for replacement (environmental impact assessment has been conducted).



Development Point	Status of Development	
Yokosuka	Full-scale construction started in August 2019. Construction progress: 99%	
Goi	Full-scale construction started in April 2021. Construction progress: 93%	

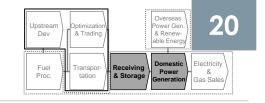


- \succ 76% of our power source is LNG, which has low CO₂ emissions.
- In coal, ultra super critical power generation system (USC), which emits comparatively small amount of CO₂, accounts for a large proportion. We will shut down all inefficient coal power plants by 2030^{*1}.



- *1 Press release on October 13, 2020 "Towards Zero CO₂ Emissions in 2050" https://www.jera.co.jp/english/information/20201013_539
- *2 As of September 30, 2023. Includes capacity under construction. Excludes capacity of affiliates.
- *3 Includes LPG and City Gas.

Domestic Thermal Power and Gas Business: Domestic Thermal Power Plants

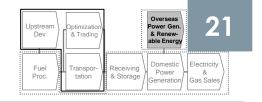


> We own nearly half of total thermal power generation capacity in Japan.

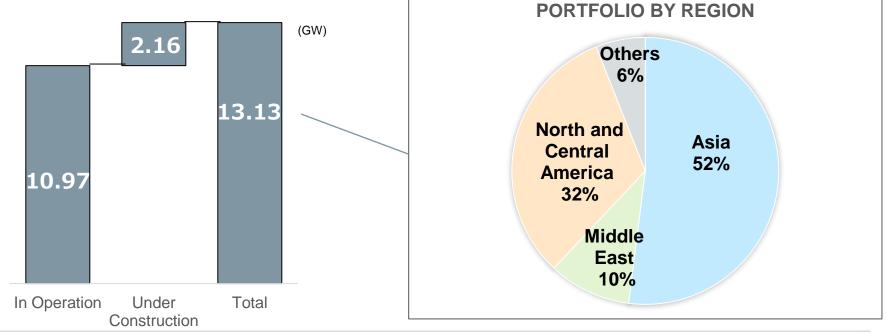
	of Thermal Power Pl output and fuel type listed for ea Joetsu Hirono Hitachinaka		power pl A		
4	Hitachinaka Kyodo <hitachinaka generation=""></hitachinaka>	0.65 GW	•		
5	Kashima	1.26 GW	•		
6	Chiba	4.38 GW	•		
7	Goi <goi generation="" united=""> *Scheduled to start operation in FY2024</goi>	2.34 GW	•		
8	Anegasaki	1.20 GW	•		
9	Anegasaki < JERA Power ANEGASAKI> *Started operation in August 2023	1.941 GW	•		
10	Sodegaura	3.60 GW	•		
(11)	Futtsu	5.16 GW	•		
(12)	Yokosuka < JERA Power YOKOSUKA> *Scheduled to start operation in phase of 0.65GW each from June 2023	1.30 GW	•		6
13	Minami-Yokohama	1.15 GW	•		D
(14)	Yokohama	3.016 GW	•		Ð
(15)	Higashi-Ohgishima	2.00 GW	•		
(16)	Kawasaki	3.42 GW	•		
17	Shinagawa	1.14 GW	•		
(18)	Atsumi	1.40 GW	••		
(19)	Hekinan	4.10 GW	•		
20	Taketoyo <jera power="" taketoyo=""> *Started operation in August 2022</jera>	1.07 GW	•		
(21)	Chita	1.708 GW	•	♦ LNG ♦ Coal ♦ Heavy Oii	
(22)	Chita Daini	1.708 GW	•	 ← Crude Oil ◆ Utility Gas 	
23	Shin-Nagoya	3.058 GW	•	■ LNG Terminal ² ■ Coal Terminal	
24)	Nishi-Nagoya	2.376 GW	•		
25	Kawagoe	4.802 GW	•	1 Power plant's name <operator's name=""></operator's>	
(26)	Yokkaichi	0.585 GW	•	 2 Includes jointly operated terminals in the Chita and Yokkaichi areas 	

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Overseas Power Generation and Renewable Energy Business: Portfolio of Overseas Power Generation and Renewable Energy Business

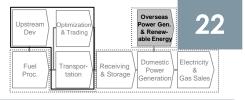


- JERA is expanding its businesses through the experience gained from projects around the world. Total capacity of power generation in overseas projects is 13.13 GW (including under construction).
- JERA aims to secure funds and expand earnings by replacing its portfolio through the sale and reinvestment of assets to achieve an optimal asset structure in line with changes in the business.
- In 2023, JERA transferred its shares in the Formosa 3 offshore wind project. In addition, JERA successfully completed the acquisition of Parkwind NV in Belgium.



< Power Generation Capacity (As of September 2023) >

Overseas Power Generation and Renewable Energy Business: List of Overseas Power Generation / Renewable Energy projects (1)

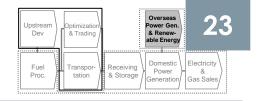


(As of September 30, 2023)

Investment on Platform Companies* *Companies participating in multiple power generation						
Country	Project Name	Investment ratio	Capacity	Fuel type	Notes	
	TeaM Energy IPP	25.0%~50.0%	2,341 MW	Coal		
Philippines	Aboitiz Power Corporation	27%	4,829 MW	Coal/Oil/ Renewable	Including under construction	
Thailand	EGCO Corporation	12.3%	6,317 MW	Coal/Gas/ Renewable	Including under construction	
Vietnam	Gia Lai Electricity Joint Stock Company	35.1%	503 MW	Solar/Wind/Hydro	Including under construction	
India	ReNew Company	7.3%	13,745 MW	Solar/Wind/Hydro	Including under construction	
Bangladesh	Summit Power IPP	22.0%	1,883 MW	Gas	Including under construction	
Japan	Green Power Investment	17.85%	112 MW*	Offshore Wind	Under construction	
United Kingdom	Zenobe Battery Storage	9.9%	235 MW	-	Including under construction	
Belgium	Parkwind	100.0%	600 MW	Offshore Wind	Including under construction	
	*The capacity only includes the offshore wind projec	ts that JERA has agree	ed with other share	nolders to utilize its n	nanagement assets	

Power Generation / Renewable Energy Projects(1/2)						
Japan	Solar	100.0%	14.6 MW	Solar	Including under construction	
	Chang Bin/Fong Der/Star Buck Gas Thermal IPP	19.5%~22.7%	3,060 MW	Gas	Including under construction	
Taiwan	Formosa 1 Offshore Wind IPP	32.5%	128 MW	Offshore Wind		
	Formosa 2 Offshore Wind IPP	49.0%	376 MW	Offshore Wind		
Vietnam	Phu My Gas Thermal IPP	15.6%	715 MW	Gas		
Indonesia	Cirebon2 Coal Thermal IPP	10.0%	1,000 MW	Coal		

Overseas Power Generation and Renewable Energy Business: List of Overseas Power Generation / Renewable Energy projects (2)



(As of September 30, 2023)

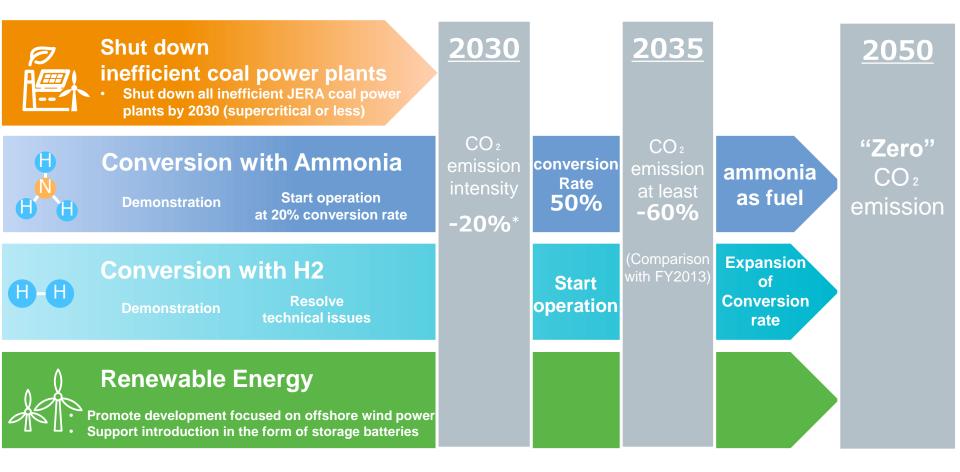
Power Generation / Renewable Energy Projects(2/2) Country **Project Name Investment ratio** Capacity **Fuel type** Notes Ratchaburi Gas Power Thermal IPP 1,400 MW Gas 15.0% Thailand Solar Power IPP 49.0% Solar 31 MW 5.0% Wind Power IPP 180 MW **Onshore Wind** Bangladesh Meghnaghat Gas Thermal IPP 49.0% 718 MW Gas Under construction UAE Umm Al Nar Gas Thermal IWPP 20.0% 1,550 MW Gas 5.0% 1.025 MW Ras Laffan B Gas Thermal IWPP Gas Ras Laffan C Gas Thermal IWPP Gas 5.0% 2.730 MW Qatar Mesaieed Gas Thermal IPP 10.0% 2,007 MW Gas Umm Al Houl Gas Thermal IWPP 10.0% 2.520 MW Gas Oman Sur Gas Thermal IPP 19.5% 2.000 MW Gas Gas Mexico Valladolid Gas Thermal IPP 50.0% 525 MW 2.950 MW Tenaska Gas Thermal IPP 11.1%~17.5% Gas Gas Carroll County Gas Thermal IPP 20.0% 702 MW Cricket Valley Gas Thermal IPP 38.0% 1,100 MW Gas **United States** Linden Gas Thermal IPP 50.0% 972 MW Gas **Compass Gas Thermal IPP** 50.0% 1,123 MW Gas **Brady Thermal IPP** 100.0% 1,633 MW Oil/Gas El Sauz Onshore Wind IPP 100.0% 302 MW **Onshore Wind** Under construction **United Kingdom** Gunfleet Sands Offshore Wind IPP 25.0% 173 MW Offshore Wind

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Reference: Progress of JERA Zero CO₂ Emissions 2050

JERA Zero CO2 Emissions 2050: Roadmap for its Business in Japan

JERA established "JERA Zero CO² Emissions 2050 Roadmap for its Business in Japan", including four initiatives.



*Reduce carbon emission intensity of thermal power plants by 20% based on the long-term energy supply-demand outlook for FY2030 as set by the government

JERA Zero CO2 Emissions 2050: Efforts to Achieve Zero CO2 Emissions in JERA's Value Chain

JERA is participating in business throughout the value chains, from fuel upstream development, transportation, and storage and to the power generation and electricity sales. We are working with many countries and companies around the world to achieve zero emissions at each stage.



Fuel upstream development Transportation and storage



 Building ammonia and hydrogen supply chain



 Demonstration project for hydrogen utilization



Fuel receiving

and storage

Renewable energy development

 Development of wind and solar power generation and participation in these projects

• Participation in battery storage business

JERA Zero CO2 Emissions 2050: Efforts towards Zero CO2 Emissions (Ammonia and Hydrogen **Supply Chain)**

Ei	eld	Business Partners	(Announced in the last o	
	eia	ADNOC (UAE)	Contents Consideration of cooperation in the fields of clean hydrogen and ammonia	Date 2023/7
		PIF (Saudi Arabia)	Consideration of opportunities for the development including green hydrogen production	2023/7
Upstream Development		TAQA (UAE)	Consideration of project development in the area of decarbonization, including green hydrogen and ammonia production	2023/2
		CF Industries (United States)	Consideration of project development for blue ammonia production and sales & purchase of	2023/1
/Production		Yara (Norway)	clean ammonia	2023/1
		Chevron (United States)	Consideration of collaboration on multiple lower carbon opportunities in Asia Pacific region (Australia) and the United States	2022/11
Transp	ortation	Nippon Yusen / Mitsui O.S.K. Lines	Consideration of transporting fuel ammonia for the Hekinan Thermal Power Plant	2022/11
		Kyushu Electric Power	signed a MOU concerning comprehensive discussions on collaboration aimed at achieving decarbonization and a stable supply of energy supply	2023/10
Power Supply / Utilization	Japan	Kyushu Electric Power Chugoku Electric Power Shikoku Electric Power Tohoku Electric Power Hokuriku Electric Power Hokkaido Electric Power	Consideration of cooperation in the adoption of hydrogen and ammonia as fuel for power generation	2022/11 ~2023/6
/ / Uti		Mitsui	Signed an Ammonia Sales and Purchase Agreement for its use in the demonstration project at the Hekinan Thermal Power Station	2023/6
ldq	Europe	Uniper (Germany)	Signed a Heads of Agreement for the sale of low carbon hydrogen/ammonia produced in the US	2023/9
Su	Luiope	EnBW / VNG (Germany)	Consideration of the development of ammonia cracking technology for hydrogen production	2023/6
/er		EVN (Vietnam)	Signed a MOU that commits the collaboration to establish a decarbonization roadmap for EVN	2023/10
Pow	PI	PPT (Thailand)	Consideration of collaboration on initiatives for expanding the supply chain and usage of hydrogen and ammonia towards decarbonization in Thailand	2023/5
	Asia	Aboitiz Power (Philippines)	Consideration of cooperation in studies to decarbonize business and conversion using ammonia at a coal-fired power plant	2023/2
		EGCO (Thailand)	Consideration of cooperation in conversion using ammonia towards decarbonization	2023/1
		IHI Asia Pacific (Singapore)	Consideration of collaboration on the expansion of ammonia usage in Malaysia	2022/10
		Jurong port, MHI-AP (Singapore)	Consideration of establishing a 100% ammonia direct combustion power plant in Singapore	2022/8
R&D NEDO's Project)		NIPPON SHOKUBAI Chiyoda Corporation	Development of large-scale ammonia cracking catalyst and technology	2023/6
	s noject)	ENEOS	Construction of hydrogen quality standard system for industrial utilization	2023/6
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26

JERA Zero CO2 Emissions 2050: Efforts towards Zero CO2 Emission(Power Generation)

Initiatives for Ammonia Conversion

> The following projects have been adopted by NEDO and are currently being implemented.

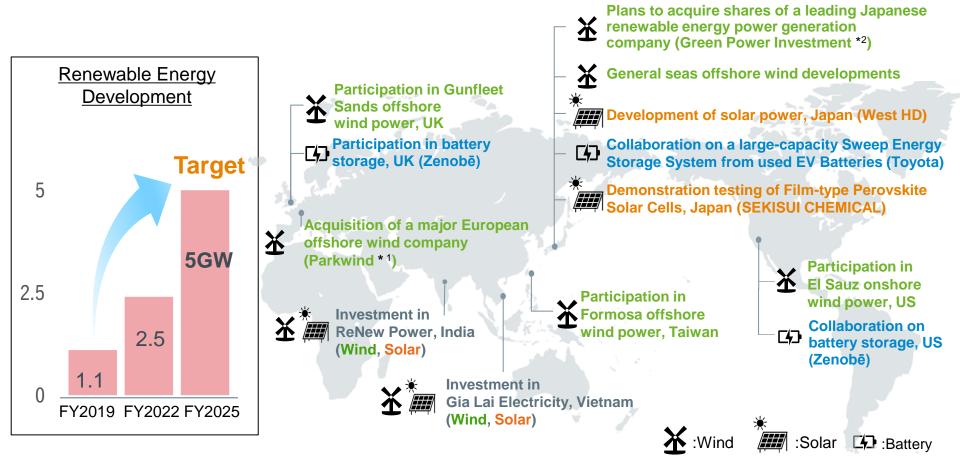
Green Innovation Fund Program / Establishment of Fuel Ammonia Development of technologies for carbon recycling and next-Project generation thermal power generation / Research, development Supply Chains project / Demonstration project to develop and demonstration of ammonia conversion technologies for technology to increase the ammonia conversion rate at coal-fired thermal power generation boilers At Hekinan Thermal Power Station Unit 4 (power output: 1 Ammonia high conversion burners will be implemented in ٠ million kW), JERA will aim to achieve 20% ammonia Hekinan Thermal Power Station Units 4 or 5, with the aim of conversion by FY2023. increasing the ammonia conversion rate to 50% or more. JERA will plan to develop a burner capable of 50% or more ٠ In addition, small-scale tests using burners of different ammonia conversion by FY2023, and to start 50% or more materials was conducted at Unit 5 of Hekinan Thermal Power ammonia conversion in actual equipment by FY2028. Station (power output: 1 million kW). Overview JERA will plan to develop an ammonia-fired burner suitable ٠ for coal boilers and to demonstrate its operation with actual equipment. We have the plan to develop the burner that can exclusively burn ammonia by FY2024, and verify that two units of different boiler types can convert to ammonia more than 50% by FY2028. Hekinan Thermal Power Station

Initiatives for Hydrogen Conversion

- Received notice of acceptance of "Demonstration project related to hydrogen utilization at an LNG thermal power plant in Japan" under Green Innovation Fund program lead by NEDO, and conducted evaluation of operational and environmental characteristics for hydrogen utilization at existing LNG thermal power plants in Japan from FY2021 to FY2028.
- Completed modification of the gas turbine at Linden Gas Thermal Power Station Unit 6 in the United States to enable the use of hydrogen, making possible the conversion of natural gas with hydrogen-containing off-gas generated at the adjacent oil refinery.

JERA Zero CO2 Emissions 2050: Efforts towards Zero CO2 Emission(Renewable Energy Development)

JERA has set a target of 5GW renewable energy development by FY2025, and is widely promoting wind power, solar power, battery storage, etc.



*1 Parkwind's equity generation capacity in operation and under construction is 0.6GW, equity generation capacity under development is 4.5GW.

*² JERA's equity generation capacity is approximately 0.1GW.

JERA Zero CO2 Emissions 2050: Efforts towards Zero CO2 Emission(Renewable Energy Development)

Renewable E	Energy Develop	ment Status	Future Initiatives			
	Major Renewable rators in Asia	Equity Generation Capacity	Consolidate renewable energy businesses under a specialized organization to create a global structure			
Jela	Jera (Japan)		Integration of Parkwind			
adani	(India)	8.0 GW	Developed Integration of			
ReNew	(India)	7.7 GW	Pipeline Over 10GW			
	(Korea)	5.6 GW	Specialized Organization for Renewable Energy			
	(Malaysia)	3.8 GW	Integration of Professional			
TATA TATA POWER	(India)	3.6 GW	Integration of existing deals Strengthen Professional talent at home and abroad 300 people			
 * JERA's generation capacity is aggregated development basis including capacity of Parkwind and GPI. (as of September 2023) Source: Compiled by JERA based on each company's website (as of May 2023) 			cooperation with regional offices			

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