



Energy for a New Era

FY2025 First Quarter Consolidated Financial Results

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

JERA Co., Inc.

July 31, 2025

Outline of Financial Results

Consolidated Statement of Profit or Loss

(Unit: Billion Yen)

	2025/1Q(A)	2024/1Q(B)	Change(A-B)	Rate of Change(%)
Revenue (Net sales)	830.8	765.9	64.8	8.5
Operating profit	127.5	134.4	-6.8	-5.1
Profit	92.5	93.4	-0.8	-0.9
<Reference> Profit excluding time lag	48.3	73.0	-24.7	-33.9

Consolidated Statement of Financial Position

(Unit: Billion Yen)

	As of Jun. 30,2025 (A)	As of Mar. 31,2025(B)	Change(A-B)	Rate of Change(%)
Assets	8,226.2	8,589.7	-363.4	-4.2
Liabilities	5,344.1	5,596.4	-252.3	-4.5
Equity	2,882.1	2,993.2	-111.1	-3.7

Key Points of Financial Results

【Revenue】

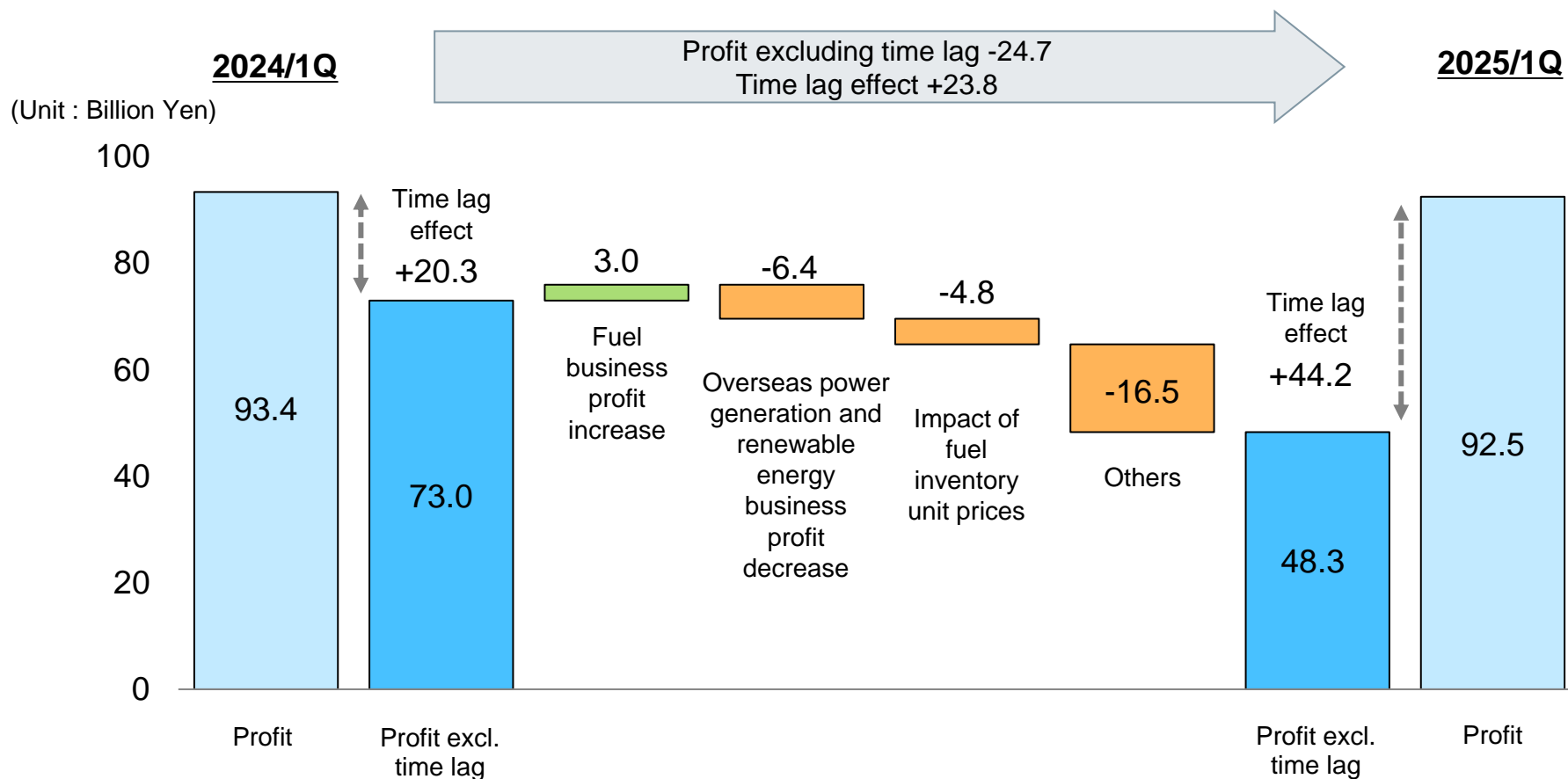
- Revenue increased by **64.8 billion yen (up 8.5%)** from the same period of last year to **830.8 billion yen** mainly due to an increase in electrical energy sold.

【Profit】

- Profit **decreased by 0.8 billion yen** from the same period last year **93.4 billion yen** to **92.5 billion yen**.
 - The effect of time lag increased.
(+23.8 billion yen [20.3 billion yen to 44.2 billion yen])
 - Profit excluding time lag decreased.
(-24.7 billion yen [73.0 billion yen to 48.3 billion yen])
- Profit excluding time lag decreased mainly due to a decrease in profit from overseas and renewable energy power generation businesses and the impact of fuel inventory unit prices, despite an improvement in profit from the fuel business.

Factors for Fluctuations in Consolidated Profit

- Profit excluding time lag decreased mainly due to a decrease in profit from overseas and renewable energy power generation businesses and the impact of fuel inventory unit prices, despite an improvement in profit from the fuel business.



*Figures are after-tax.

Consolidated Statement of Profit or Loss

(Unit: Billion Yen)

	2025/1Q(A)	2024/1Q(B)	Change(A-B)	Main Factors of Changes
Revenue (Net sales)	830.8	765.9	64.8	• Increase of electrical energy sold
Operating expenses	731.8	643.1	88.7	
Other operating income/ loss	28.6	11.5	17.0	• Equity method profit / loss +7.1
Operating profit	127.5	134.4	-6.8	
Financial income	24.3	20.6	3.7	
Financial costs	14.6	18.7	-4.1	
Profit before tax	137.2	136.2	0.9	• Decrease of time lag effect +33.1 (28.2→61.4) • Decrease of profit excl. time lag -32.1 (108.0→75.8)
Income tax expense	26.7	22.2	4.4	
Profit attributable to non- controlling Interests	18.0	20.6	-2.6	
Profit	92.5	93.4	-0.8	

Consolidated Statement of Financial Position

(Unit: Billion Yen)

	As of Jun 30,2025 (A)	As of Mar 31,2025 (A)	Change (A-B)	Main Factors of Changes
Cash and cash equivalents	1,135.8	1,261.6	-125.7	• Decrease in JERAGM, etc.
Property, plant and equipment	2,864.8	2,905.1	-40.3	
Investments accounted for using equity method	1,238.2	1,299.2	-61.0	
Others	2,987.3	3,123.6	-136.3	
Assets	8,226.2	8,589.7	-363.4	
Interest-bearing liabilities	3,014.5	3,099.7	-85.1	
Others	2,329.5	2,496.7	-167.1	
Liabilities	5,344.1	5,596.4	-252.3	
Equity attributable to owners of parent	2,793.6	2,896.1	-102.5	• Profit +92.5 • Dividends paid -43.1 • Foreign currency translation adjustments -72.3
Non-controlling interests	88.5	97.1	-8.6	
Equity	2,882.1	2,993.2	-111.1	

Consolidated Statement of Cash Flows

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(Unit: Billion Yen)

		2025/1Q(B)	2024/1Q(B)	Change(A-B)
Operating cash flow		175.5	6.9	168.5
Investment cash flow	Purchase of property, plant, and equipment	-64.8	-37.0	-27.7
	Purchase of investment securities	-21.4	-4.7	-16.7
	Others	10.2	-4.2	14.4
		-76.0	-46.0	-30.0
Free cash flows		99.4	-39.1	138.5
Financial cash flow	Increase (decrease) in interest-bearing debt	-62.1	32.0	-94.1
	Dividends paid *	-43.1	-	-43.1
	Others	-63.0	35.3	-98.3
		-168.2	67.4	-235.6
Increase (decrease) in cash and cash equivalents (minus indicates decrease)		-125.7	96.9	-222.7

* Excluding Dividends paid to non-controlling interests

Segment Information

(Unit: Billion Yen)

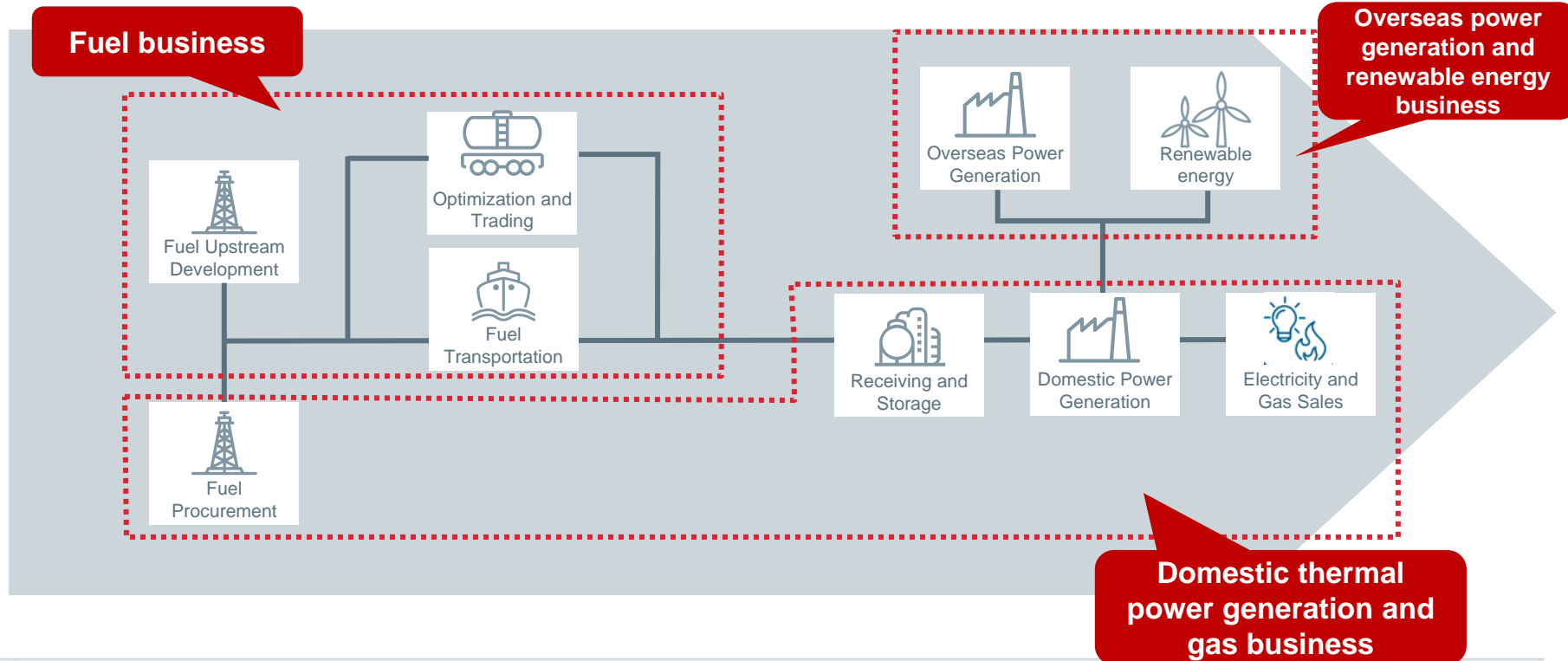
	2025/1Q(A)		2024/1Q(B)		Change(A-B)		Main Factors for Changes In Profit / Loss
	Revenue	Profit / Loss	Revenue	Profit / Loss	Revenue	Profit / Loss	
Fuel	106.8	32.5	108.7	29.5	-1.9	3.0	<ul style="list-style-type: none"> •Profit increase in Freeport •Profit decrease in JERAGM, etc.
Overseas power generation and renewable energy	18.6	-0.9	16.2	5.4	2.3	-6.4	<ul style="list-style-type: none"> •Profit decrease in Renewable energy, etc.
Domestic thermal power generation and gas	928.8	70.8 26.6※2	875.5	50.5 30.2※2	53.3	20.3 -3.5※2	<ul style="list-style-type: none"> •Impact of fuel inventory on unit prices -4.8 •Deterioration in LNG competitiveness -5.2 •Gain/loss on sale of LNG +6.4 •Deterioration in coal competitiveness -3.0
Adjustments※1	-223.5	-9.9	-234.6	7.8	11.0	-17.7	<ul style="list-style-type: none"> •Elimination of unrealized transaction of JERAGM -23.0
Consolidated	830.8	92.5 48.3※2	765.9	93.4 73.0※2	64.8	-0.8 -24.7※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.



FY2025 Forecast

- Profit excluding time lag is expected to be around 200 billion yen, while time lag profit is projected to be 30 billion yen, with a total profit of around 230 billion yen. (No change from the previous forecast)
- Results may fluctuate due to changing trends in fuel markets and other factors.

(Unit: Billion Yen)

	Current Forecast(A)	Previous Forecast(B)	Change (A-B)	【Reference】 FY2024 Result
Profit	230.0	230.0	-	183.9
Time lag effect	30.0	30.0	-	40.1
Profit excl. time lag	200.0	200.0	-	143.7

[Breakdown for each segment]

(Unit: Billion Yen)

	Current Forecast(A)	Previous Forecast(B)	Change (A-B)	【Reference】 FY2024 Result
Profit excl. time lag	200.0	200.0	-	143.7
Fuel	100.0	100.0	-	122.7
Overseas power generation and renewable energy	30.0	30.0	-	8.3
Domestic thermal power generation and gas	100.0	100.0	-	84.1
Adjustments	-30.0	-30.0	-	-71.4

*Breakdown is based on rough estimates at the disclosure date.

Appendix

Key Elements

[2025/1Q Results]

	2025/1Q(A)	2024/1Q(B)	Change(A-B)
Electrical Energy Sold (TWh)	46.9	45.9	1.0
Crude Oil Prices(JCC) (dollar/barrel)	74.8	87.6	-12.8
Foreign Exchange Rate (yen/dollar)	144.6	155.9	-11.3

Note: Crude Oil Prices(JCC) for FY2025/1Q is tentative.

[FY2025 Forecast]

	Current Forecast	(Of these, from July onwards)	Previous Forecast	【Reference】 FY2024 Result
Crude oil prices(JCC) (dollar/barrel)	Approx.72	Approx.71	Approx.73	82.7
Foreign exchange rate (yen/dollar)	Approx.143	Approx.142	Approx.146	152.6

Trends in Crude Oil Price and Exchange Rates

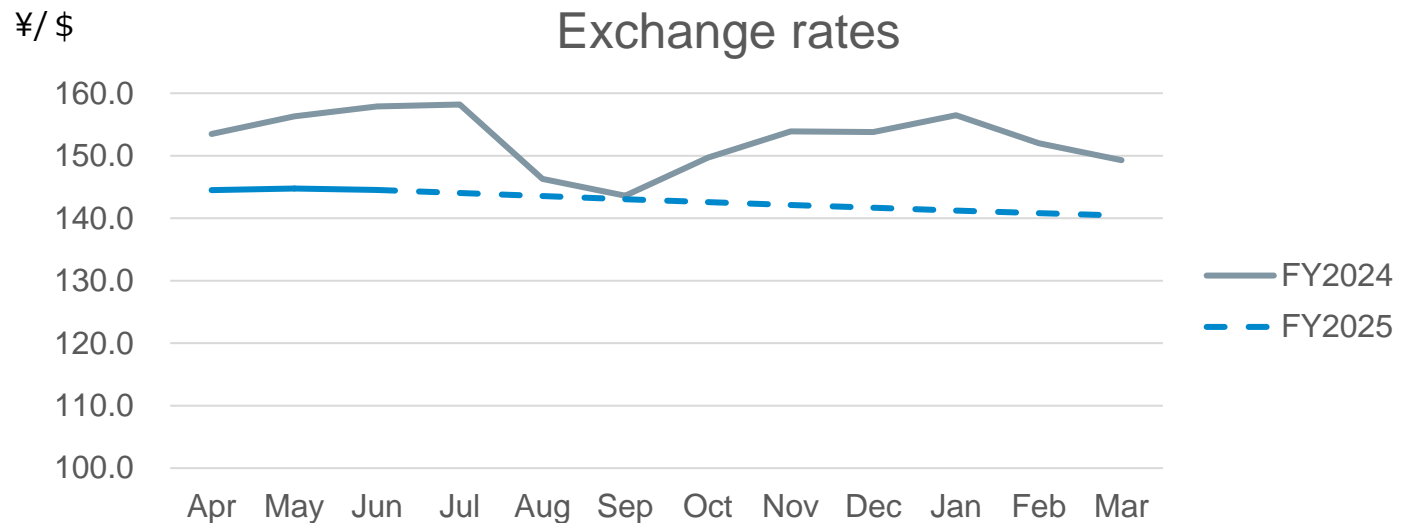
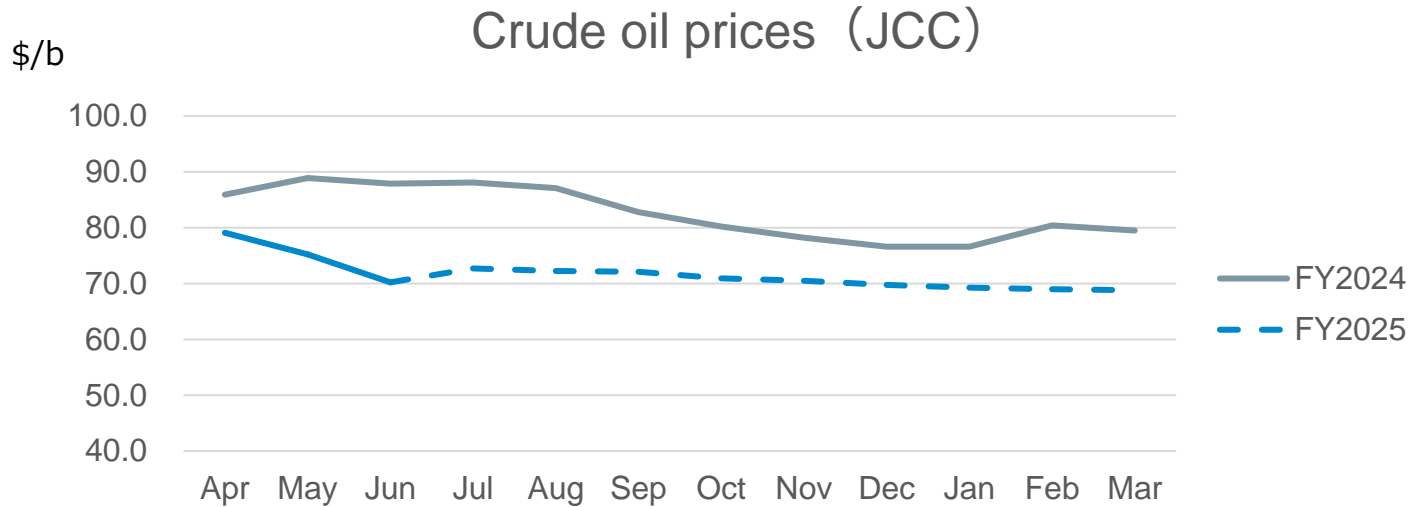
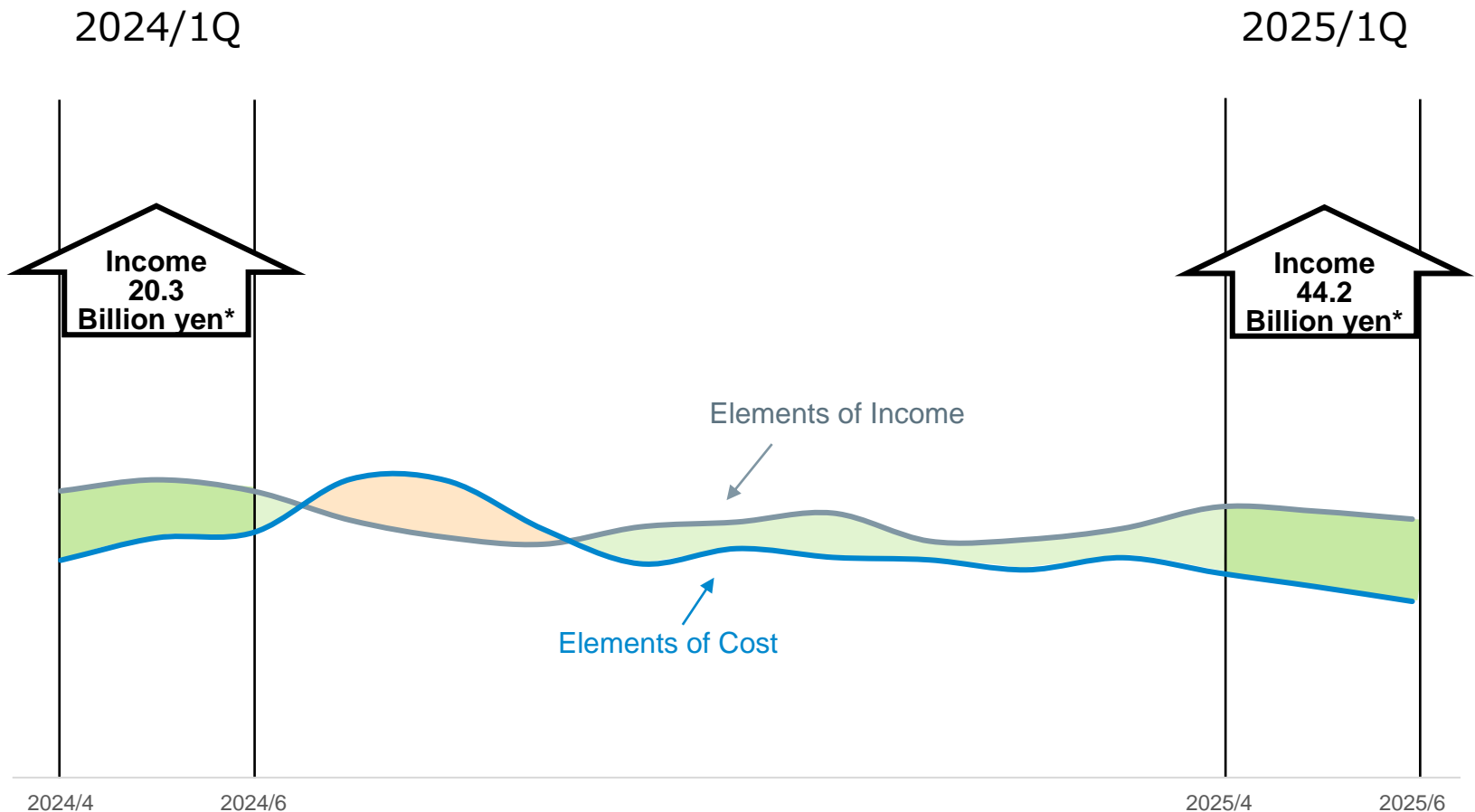


Image of Time Lag (FY2024/1Q – FY2025/1Q)

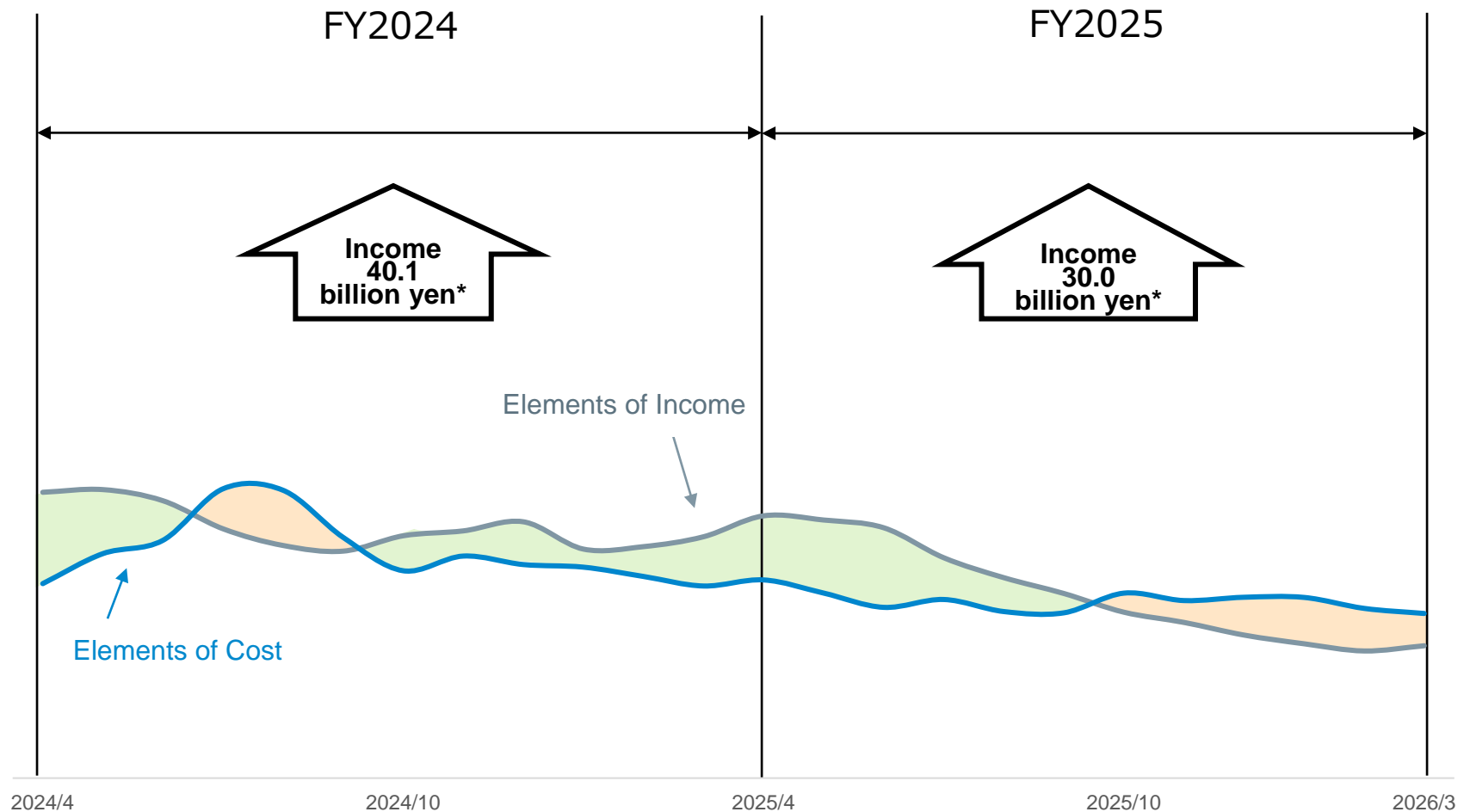
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- Time lag is profits and losses due to the time difference between changes in fuel prices and their reflection in sales prices.
- The impact on profits and losses will be neutral in the medium to long term.



* Figures are after-tax amounts.

Image of Time Lag (FY2024 – FY2025)



* Figures are after-tax amounts.

Electrical Energy Sold and Electrical Power Generated

[Electrical Energy Sold(TWh)]

	Apr to Jun	Jul to Sep	Oct to Dec	Jan to Mar	Total
FY2025	46.9				46.9
FY2024	45.9	66.2	57.8	64.2	234.1

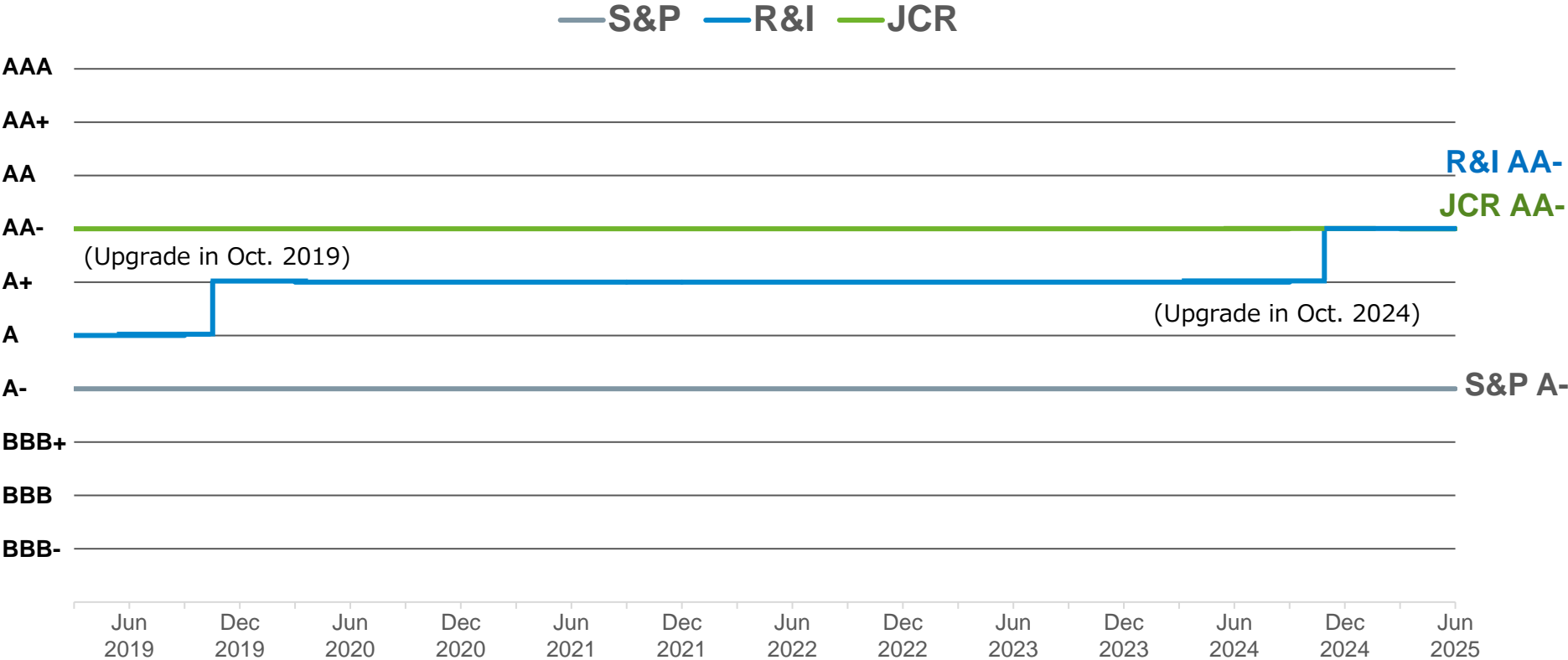
[Electrical Power Generated(TWh)]

		Apr to Jun	Jul to Sep	Oct to Dec	Jan to Mar	Total
FY2025		45.7				45.7
	LNG	35.3 (77%)				35.3 (77%)
	Coal	10.4 (23%)				10.4 (23%)
	Others	0 (0%)				0 (0%)
FY2024		45.2	65.1	54.9	62.1	227.2
	LNG	33.0 (73%)	48.1 (74%)	42.1 (77%)	46.5 (75%)	169.7 (75%)
	Coal	12.1 (27%)	16.6 (25%)	12.5 (23%)	15.2 (24%)	56.4 (25%)
	Others	0.1 (0%)	0.4 (1%)	0.2 (0%)	0.5 (1%)	1.1 (0%)

*The total may not match due to rounding.



[Issuer Credit Ratings History]



Topics

JERA Announces Milestone Agreements with U.S. Partners to Secure Up to 5.5 Million Tonnes of New Long-Term LNG Supply

- The U.S.-sourced LNG under this destination-free FOB contract allows flexible response to power supply and demand fluctuations and is expected to enhance Japan's energy security.
- Procurement through long-term contracts not only ensures a stable physical supply of LNG but also contributes to stabilizing procurement prices.
- We will continue to build a well-balanced LNG portfolio by diversifying procurement from the Middle East, Asia, Australia, the United States, and other regions, thereby spreading regional risks.

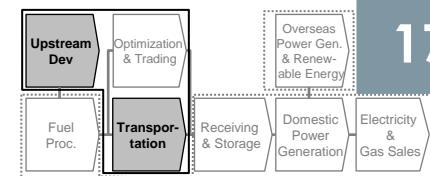
Overview of New Agreements

Overview	Sales and Purchase Agreement	Sales and Purchase Agreement	Heads of Agreement	Heads of Agreement
Seller	NextDecade Corporation	Commonwealth LNG	Sempra Infrastructure	Cheniere Marketing LLC
Project	Rio Grande LNG (Texas)	Commonwealth LNG (Louisiana)	Port Arthur LNG Phase 2 (Texas)	Corpus Christi LNG (Texas) Sabine Pass LNG (Louisiana)
Contract Term	20 Years from COD	20 Years from COD	20 Years from COD	More than 20 years
Contract Volume	Approx. 2.0 MTPA	Approx. 1.0 MTPA	Approx. 1.5 MTPA	Up to 1.0 MTPA
Deliver Terms	FOB	FOB	FOB	FOB

Contributing to a stable energy supply
through competitively priced and highly flexible U.S.-sourced LNG

Overview of each segment

Fuel Business: Fuel Upstream / Transportation Business



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- LNG Demand has increased in Europe and Asia. JERA participates in LNG upstream projects and JERA's transaction volume is the world's largest class (FY2024: Approximately 35 million tons in JERA Group). JERA diversifies procurement risk secures by building portfolio which makes JERA acquire the procurement market information and the trend.
- Additionally, JERA owns fuel carriers for highly consistent, flexible, and competitive fuel supply.

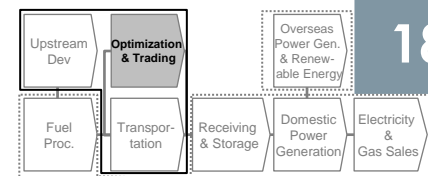
Upstream Project

Project Name	Country	LNG Production / Liquefaction Capability	Investment Ratio
Darwin LNG Project	Australia	Approx. 3.7 million tons/year	Gas field: 5.15% LNG plant: 6.132%
Gorgon LNG Project		Approx. 15.6 million tons/year	0.417%
Ichthys LNG Project		Approx. 8.9 million tons/year	0.735%
Wheatstone LNG Project		Approx. 8.9 million tons/year	Gas field: 10%*1 LNG plant: 8%*1
Barossa gas field Project		Approx. 3.7 million tons/year	12.5%
Scarborough Gas Field Project		Approx. 8.0 million tons/year at maximum (Supply starts in 2026)	15.1%
Freeport LNG Project (Train1)	United States	Approx. 5.15 million tons/year	25%
Freeport LNG Development, L.P.*2		Approx. 15.45 million tons/year for all three lines*3	21.9%*4

*1 Ratio of capital contribution through PE Wheatstone, in which JERA invests *2 Freeport LNG Project Management Company

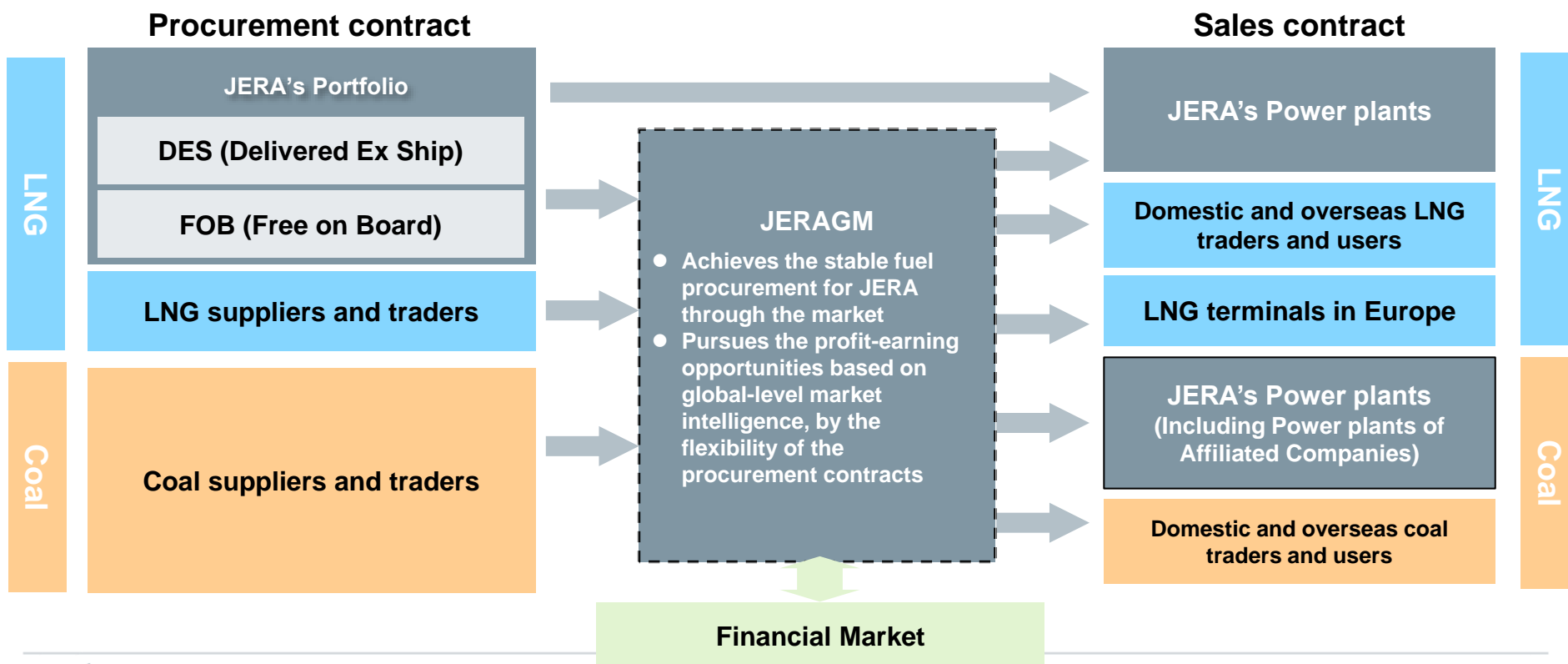
*3 Including 5.15 million tons/year from Train 1 *4 Ratio of capital contribution through Gulf Coast LNG Holdings LLC, in which JERA invests

Fuel Business: Fuel Trading Business

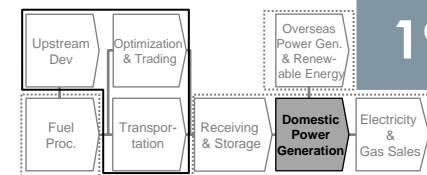


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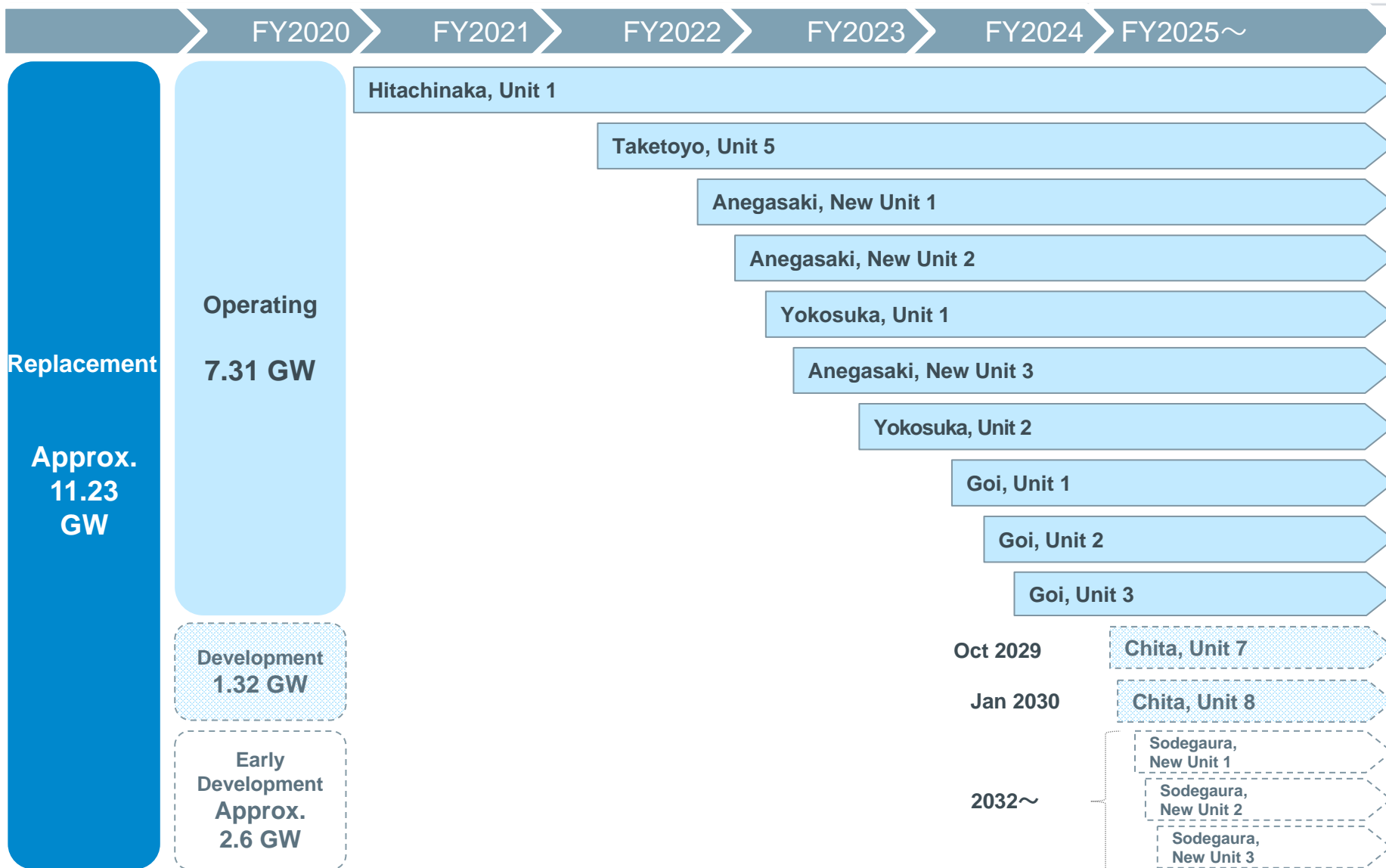
- JERAGM has offices in Singapore (HQ), UK, US, and Japan. Approximately 300 employees engage in asset-backed trading.
- With the global trading network, JERAGM supplies LNG and coal to power plants in Japan. Leveraging this commercial flow, JERAGM has succeeded in achieving both fuel supply stability and the expansion of profits by capturing business opportunities through markets and third parties.
- JERAGM's operation is under the governance of the Board of Directors elected by shareholders.



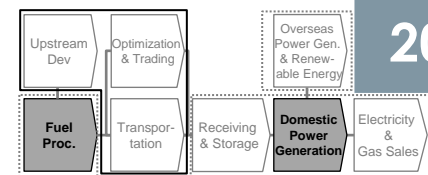
Domestic Thermal Power and Gas Business: Progress of Replacement of Thermal Power Plants in Japan



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Domestic Thermal Power and Gas Business: Composition of Power Sources

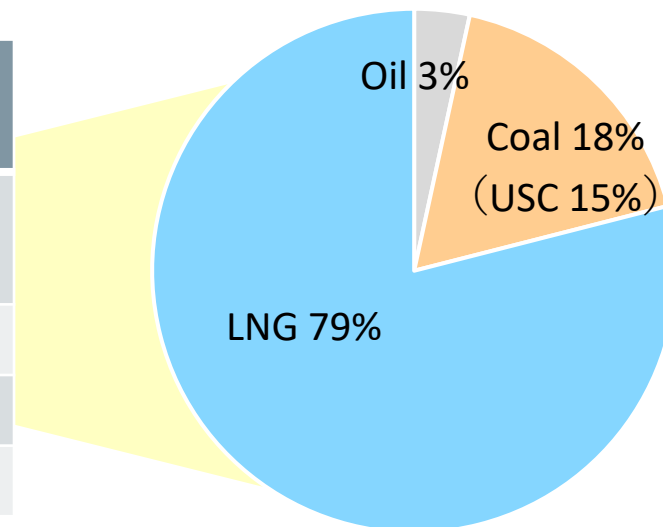


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- 79% of our power source is LNG, as low CO₂ emissions.
- Almost of JERA's coal thermal power plants consist of ultra super critical power generation system (USC) with high efficiency. JERA is going to shut down all inefficient coal thermal power plants, Non-USC Plants by 2030*¹.

Composition of Power Sources*²

Fuel	Capacity (Generator output)
Coal (USC)	10.32 GW (8.92 GW)
LNG* ³	46.29 GW
Oil	2.00 GW
Total	58.61 GW



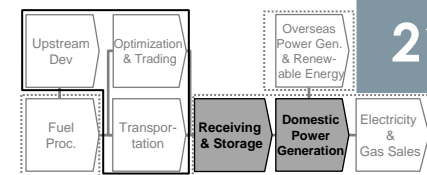
*1 Press release on October 13, 2020 "Towards Zero CO₂ Emissions in 2050"

https://www.jera.co.jp/english/information/20201013_539

*2 As of June 30, 2025. Includes capacity under construction.
Excludes capacity of affiliates.

*3 Includes LPG and City Gas.

Domestic Thermal Power and Gas Business: Domestic Thermal Power Plants

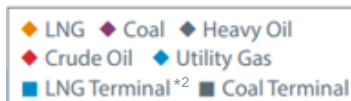
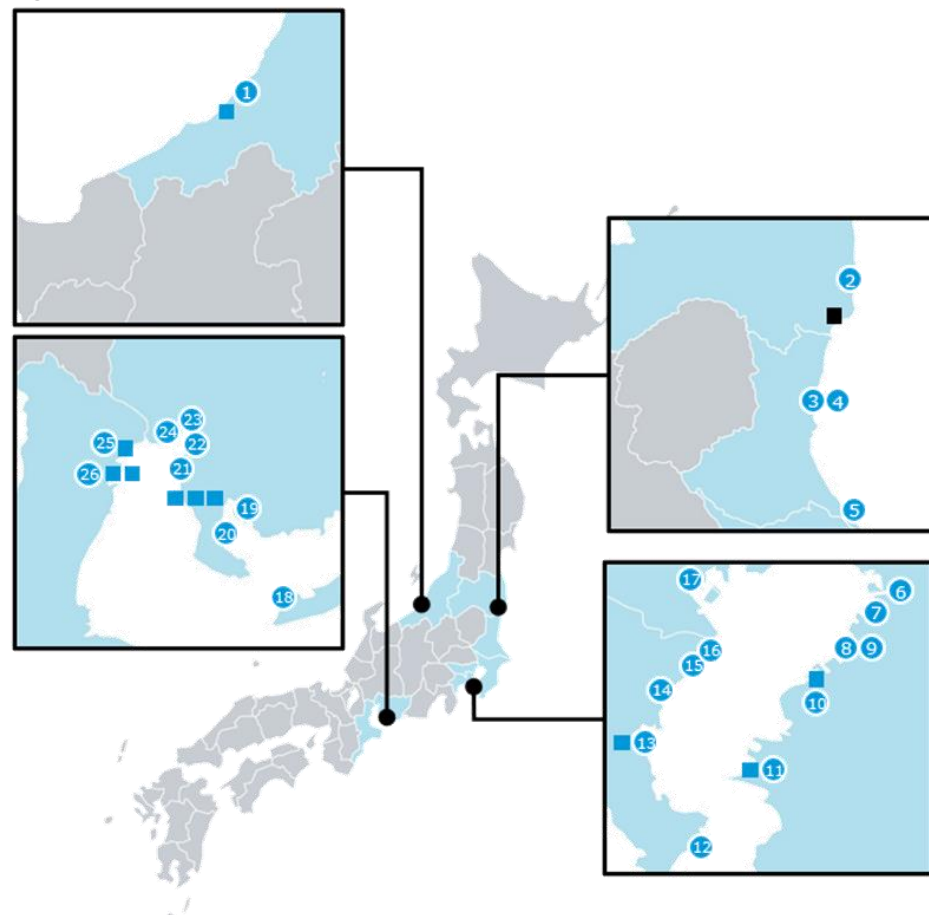


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➤ JERA owns nearly 40% of total thermal power generation capacity in Japan.*3

List of Thermal Power Plants in Japan*1 (Total output and fuel type listed for each thermal power plant)

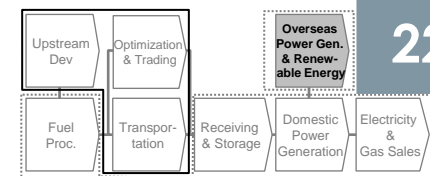
① Joetsu	2.38 GW	◆	As of June 30, 2025
② Hirono	1.80 GW	◆◆◆	
③ Hitachinaka	2.00 GW	◆	
④ Hitachinaka Kyodo <HITACHINAKA GENERATION>	0.65 GW	◆	
⑤ Kashima	1.26 GW	◆	
⑥ Chiba	4.38 GW	◆	
⑦ Goi <GOI UNITED GENERATION> <small>*Goi began commercial operation in March 2025</small>	2.34 GW	◆	
⑧ Anegasaki	1.20 GW	◆	
⑨ Anegasaki <JERA Power ANEGASAKI> <small>*Started operation in August 2023</small>	1.941 GW	◆	
⑩ Sodegaura	3.60 GW	◆	
⑪ Futtsu	5.16 GW	◆	
⑫ Yokosuka <JERA Power YOKOSUKA> <small>*Started operation in December 2023</small>	1.30 GW	◆	
⑬ Minami-Yokohama	1.15 GW	◆	
⑭ Yokohama	3.016 GW	◆	
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> <small>*Started operation in August 2022</small>	1.07 GW	◆	
㉑ Chita	1.708 GW	◆	
㉒ Chita Daini	1.708 GW	◆	
㉓ Shin-Nagoya	3.058 GW	◆	
㉔ Nishi-Nagoya	2.376 GW	◆	
㉕ Kawagoe	4.802 GW	◆	
㉖ Yokkaichi	0.585 GW	◆	



*1 Power plant's name <Operator's name> *2 Includes jointly operated terminals in the Chita and Yokkaichi areas

*3 Reference: METI "Electricity Survey Statistics"

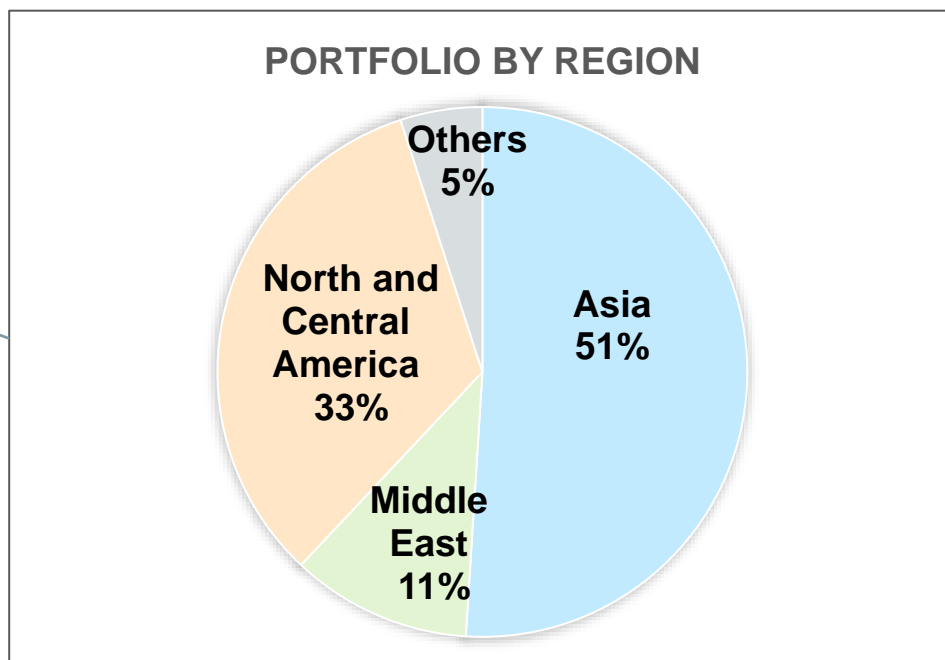
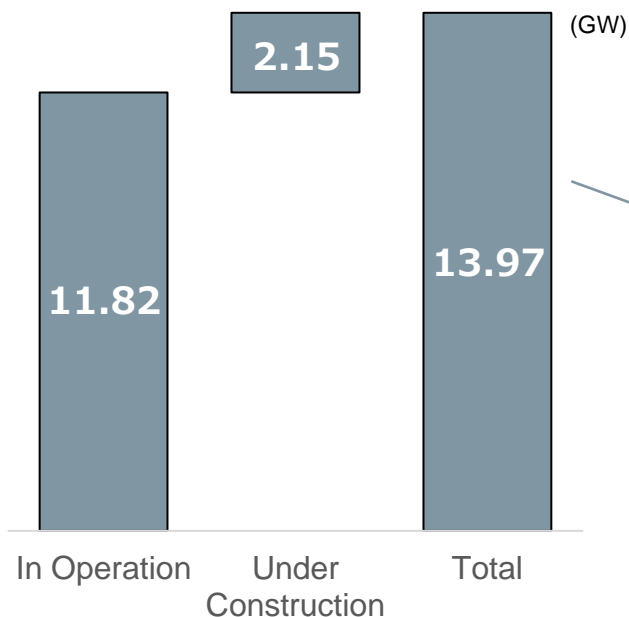
Overseas Power Generation and Renewable Energy Business: Portfolio of Overseas Power Generation and Renewable Energy Business



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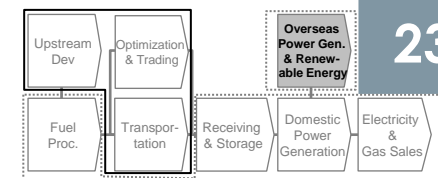
- Total capacity of power generation in overseas projects is 13.97 GW (including under construction) and JERA gains know-hows through the projects around the world.
- By recycling its portfolio, JERA achieves an optimal asset structure in line with changes in the business environment.

< Power Generation Capacity (As of June 30, 2025) >



Overseas Power Generation and Renewable Energy Business:

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



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(As of June 30, 2025)

Investment on Platform Companies* *Companies participating in multiple power generation projects

Country	Project Name	Investment ratio	Capacity	Fuel type	Notes
Philippines	TeaM Energy IPP	25.0%~50.0%	1,123 MW	Coal	
	Aboitiz Power Corporation	27.57%	6,297 MW	Coal/Oil/ Renewable	Including under construction
Thailand	EGCO Corporation	12.3%	6,602 MW	Coal/Gas/ Renewable	Including under construction
Vietnam	Gia Lai Electricity Joint Stock Company	35.1%	495MW	Solar/Wind/Hydro	Including under construction
India	ReNew Company	7.38%	18,460 MW	Solar/Wind/Hydro	Including under construction
Bangladesh	Summit Power IPP	22.0%	1,754 MW	Oil/Gas	
Japan	Green Power Investment	3.95%	N/A	Offshore Wind	*1
United Kingdom	Zenobe	5.54%	1,131 MW	Battery Storage	Including under construction
Belgium	Parkwind	100.0%	535 MW	Offshore Wind	

*1 The capacity only includes the offshore wind projects that JERA has agreed with other shareholders to utilize its management assets

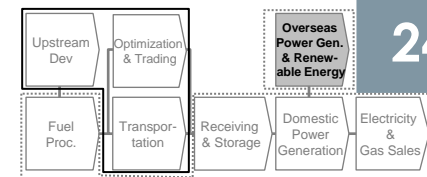
Power Generation / Renewable Energy Projects(1/2)

Japan	Solar Farm	100.0%	75 MW	Solar	Including under construction
	Ishikari Bay New Port Offshore Wind Farm	100.0%*2	112 MW	Offshore Wind	
	Oga city, Katagami city, and Akita City Offshore Wind Farm	42.00%	315 MW	Offshore Wind	Under construction
	The sea of Japan Offshore Aomori Prefecture (Southern Side of the Prefecture) Wind Farm	-	615MW	Offshore Wind	Under construction
Taiwan	Chang Bin/Fong Der/Star Buck Gas Thermal IPP	19.5%~22.7%	3,170 MW	Gas	Including under construction
	Formosa 1 Offshore Wind IPP	32.5%	128 MW	Offshore Wind	
	Formosa 2 Offshore Wind IPP	49.0%	376 MW	Offshore Wind	
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)



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(As of June 30, 2025)

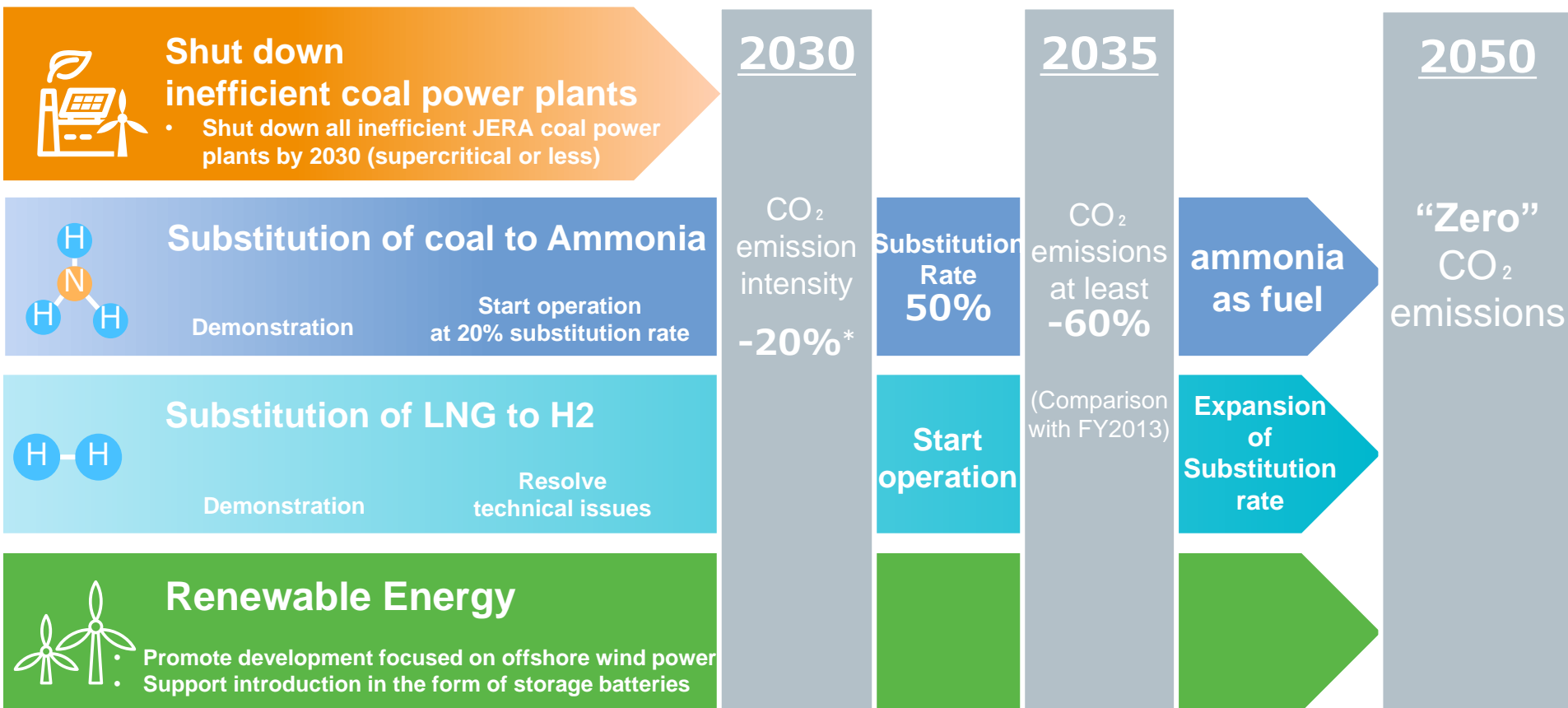
Power Generation / Renewable Energy Projects(2/2)					
Country	Project Name	Investment ratio	Capacity	Fuel type	Notes
Thailand	Ratchaburi Gas Power Thermal IPP	15.0%	1,400 MW	Gas	
	Wind Power IPP	5.0%	180 MW	Onshore Wind	
Bangladesh	Meghnaghat Gas Thermal IPP	49.0%	718 MW	Gas	Under construction
UAE	Umm Al Nar Gas Thermal IWPP	20.0%	1,550 MW	Gas	
Qatar	Ras Laffan B Gas Thermal IWPP	5.0%	1,025 MW	Gas	
	Ras Laffan C Gas Thermal IWPP	5.0%	2,730 MW	Gas	
	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	
Saudi Arabia	Amiral Cogeneration Project	49.0%	475 MW	Gas	Under construction
Mexico	Valladolid Gas Thermal IPP	50.0%	525 MW	Gas	
United States	Tenaska Gas Thermal IPP	11.1%~17.5%	2,950 MW	Gas	
	Carroll County Gas Thermal IPP	20.0%	702 MW	Gas	
	Cricket Valley Gas Thermal IPP	38.0%	1,100 MW	Gas	
	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
	Happy/Oxbow Solar IPP	100.0%	395 MW	Solar	
United Kingdom	Gunfleet Sands Offshore Wind IPP	25.0%	173 MW	Offshore Wind	

Progress of JERA Zero CO₂ Emissions 2050

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

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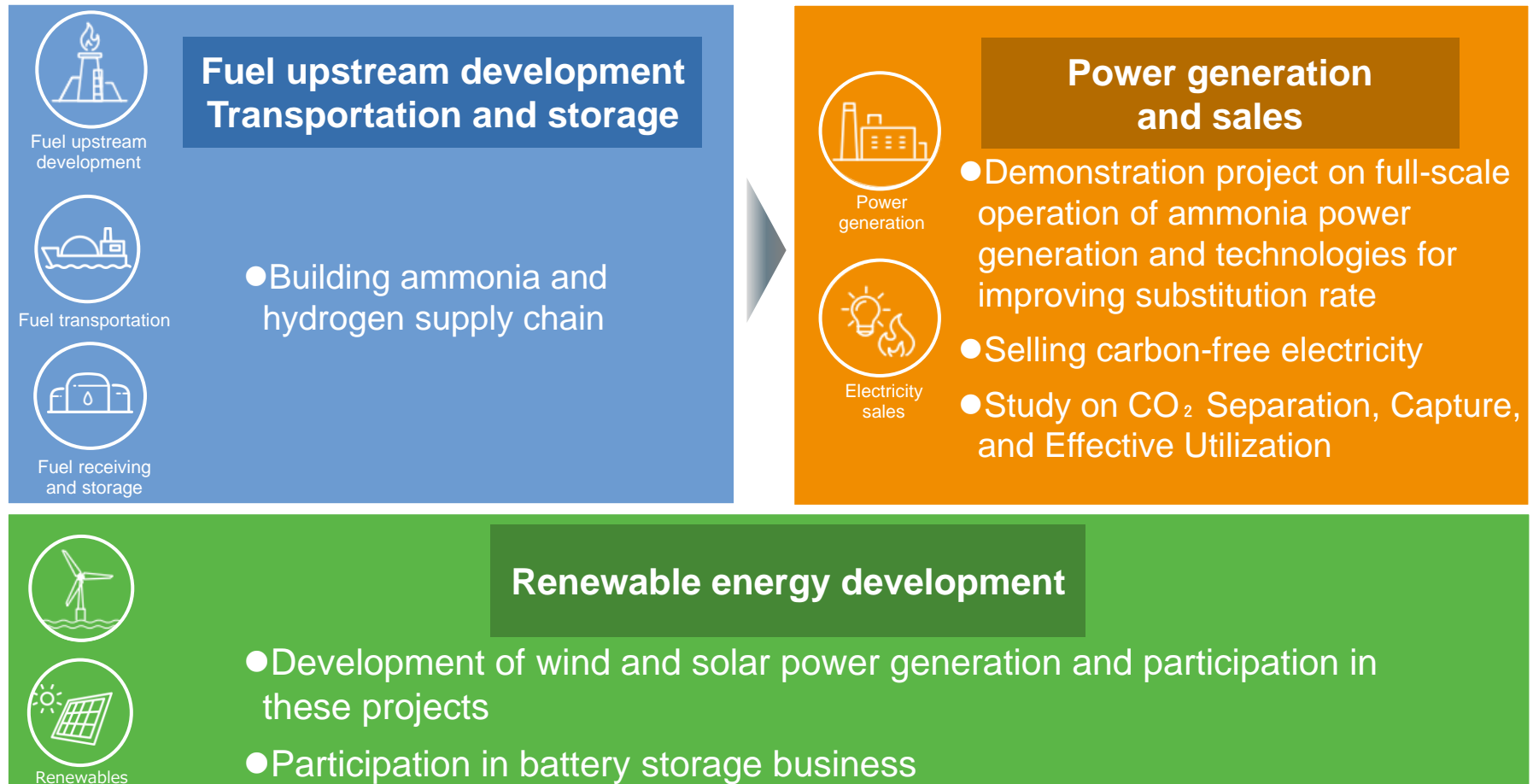
- JERA established “JERA Zero CO₂ Emissions 2050 Roadmap for its Business in Japan”, including four initiatives.



*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

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

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



Efforts towards Zero CO2 Emissions (Ammonia and Hydrogen Supply Chain)(1)

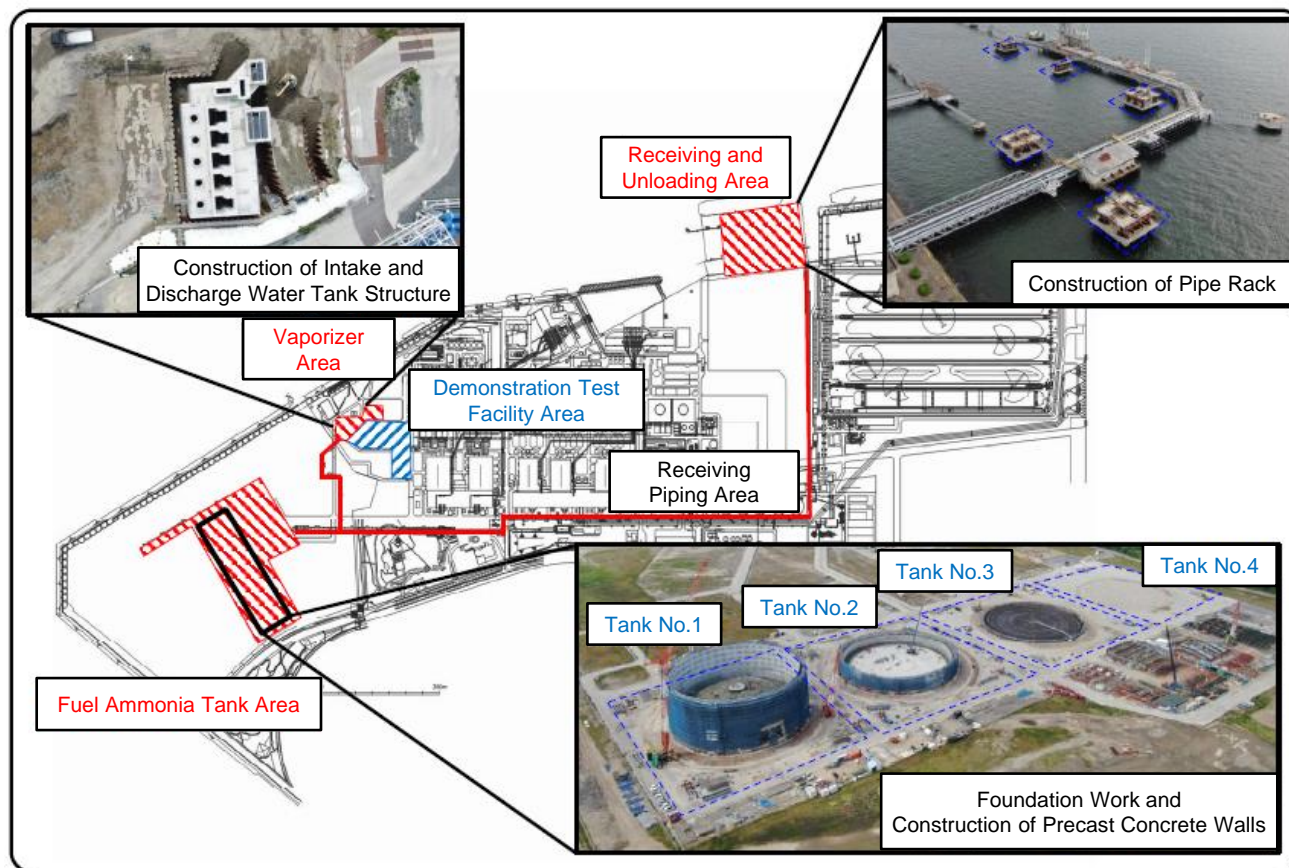
Field	Business Partners	Contents	Release Date
Upstream Development /Production	ADNOC (UAE)	Consideration of cooperation in the fields of clean hydrogen and ammonia	2023/7
	PIF (Saudi Arabia)	Consideration of opportunities for the development including green hydrogen production	2023/7
	TAQA (UAE)	Consideration of project development in the area of decarbonization, including green hydrogen and ammonia production	2023/2
	CF Industries (United States)	Joint Development Agreement for Low Carbon Ammonia Project	2024/4
	Yara (Norway)	Consideration of project development for blue ammonia production and sales & purchase of 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
	Exxon Mobil (United States)	The Joint Study to Develop Low Carbon Hydrogen and Ammonia Production Project	2024/3
	ReNew (India)	Agreement to Jointly Develop a Green Ammonia Production Project	2024/4
	Lotte Fine Chemical (Korea)	Joint Collaboration Agreement to Realize Low Carbon Fuel Value Chains	2024/8
	POSCO International (Korea)	Joint Collaboration Agreement to Realize Low Carbon Fuel Value Chains	2024/9
	CF Industries (United States) 、 Mitsui & Co.	Final Investment Decision on “Blue Point” Low-Carbon Ammonia Production Project in the United States	2025/4
Transportation	Nippon Yusen / Mitsui O.S.K. Lines	Consideration of transporting fuel ammonia for the Hekinan Thermal Power Plant	2022/11
R&D (NEDO's Project)	NIPPON SHOKUBAI Chiyoda Corporation*	Development of large-scale ammonia cracking catalyst and technology	2023/6
	ENEOS*	Construction of hydrogen quality standard system for industrial utilization	2023/6
	Toyo Engineering Corporation (Japan) *	Survey of Hydrogen and Ammonia Demand, and Demonstration Research to Achieve Stable Operation of Ammonia Cracking Equipment, in Thailand	2024/6
	DENSO (Japan)	Jointly Develop High-Efficiency Hydrogen Generation Technology that Combines SOEC with Waste Heat Utilization and Joint Demonstration Testing at a JERA Thermal Power Station	2024/8

Efforts towards Zero CO2 Emissions (Ammonia and Hydrogen Supply Chain)(2)

Field		Business Partners	Contents	Release Date
Power Supply / Utilization	Japan	Kyushu Electric Power	signed a MOU concerning comprehensive discussions on collaboration aimed at achieving decarbonization and a stable supply of energy supply	2023/10
		Kyushu Electric Power Chugoku Electric Power Shikoku Electric Power Tohoku Electric Power Hokuriku Electric Power Hokkaido Electric Power Okinawa Electric Power	Consideration of cooperation in the adoption of hydrogen and ammonia as fuel for power generation	2022/11 ~ 2023/12
		Mitsui	Signed an Ammonia Sales and Purchase Agreement for its use in the demonstration project at the Hekinan Thermal Power Station	2023/6
		Graduate School in University of Tokyo	Basic Agreement Concerning the Mainstreaming of Carbon-Free Power Combining Digital Technology and Energy	2024/3
		Yamanashi prefecture	Conclusion of a Basic Agreement on Building the Hydrogen Energy Society of the Future: Building a Regional Hydrogen Value Chain	2023/11
		NYK Line, Resonac	The World's First Truck-to-Ship Bunkering of Fuel Ammonia	2024/8
		JERA	JERA Cross Launched to Accelerate Corporate Green Transformation (GX)	2024/5
		TOHO	Japan's First Commercial Use of Electricity Generated with Hydrogen-Fired Zero-Emissions Thermal	2024/11
	Europe	Uniper (Germany)	Signed a Heads of Agreement for the sale of low carbon hydrogen/ammonia produced in the US	2023/9
		EnBW / VNG (Germany)	Consideration of the development of ammonia cracking technology for hydrogen production	2023/6
	Asia	EVN (Vietnam)	Signed a MOU that commits the collaboration to establish a decarbonization roadmap for EVN	2023/10
		PPT (Thailand)	Consideration of collaboration on initiatives for expanding the supply chain and usage of hydrogen and ammonia towards decarbonization in Thailand	2023/5
		Aboitiz Power (Philippines)	Consideration of cooperation in studies to decarbonize business and substitution using ammonia at a coal-fired power plant	2023/2
		EGCO (Thailand)	Consideration of cooperation in substitution using ammonia towards decarbonization	2023/1
		IHI Asia Pacific (Malaysia)	Consideration of collaboration on the expansion of ammonia usage in Malaysia	2022/10
		PT Pertamina (Indonesia)	Joint collaboration in building infrastructure LNG and hydrogen/ammonia and so on	2023/12
		PLN (Indonesia)	Master Plan for Energy Transition Management Project in Indonesia	2024/2

JERA Zero CO2 Emissions 2050: Efforts towards Zero CO2 Emissions (20% Substitution of Fuel Ammonia)

- At Hekinan Thermal Power Station Unit 4, we successfully conducted the world's first demonstration test* of 20% ammonia substitution at a large-scale commercial coal-fired power plant. Given the success of the demonstration testing, construction is now underway in preparation for the start of commercial operations in the latter half of the 2020s.



Under construction for commercial operation

Initiatives for Ammonia Substitution

- Under the Green Innovation Fund Project, titled 'Fuel Ammonia Supply Chain Establishment Project / Development and demonstration of ammonia high-ratio co-firing and single-fuel firing technology for coal-fired power plant,' we aim to conduct a full-scale demonstration with an ammonia substitution rate of over 50% by fiscal year 2030.

Initiatives for Hydrogen Substitution

- Started joint development of high-efficiency hydrogen generation technology utilizing waste heat using SOEC* developed by DENSO CORPORATION. Joint demonstration tests are scheduled to start in FY 2025 at a thermal power plant in our company.

* SOEC(Solid Oxide Electrolysis Cell):SOECs operate at high temperatures using a ceramic membrane as an electrolyte to electrolyze water vapor and produce hydrogen.

- Received notice of acceptance of “Technology development project aimed at building a competitive hydrogen supply chain”, JERA is developing a catalyst to extract hydrogen from ammonia and evaluating the catalyst and process from the perspective of a power generation company.

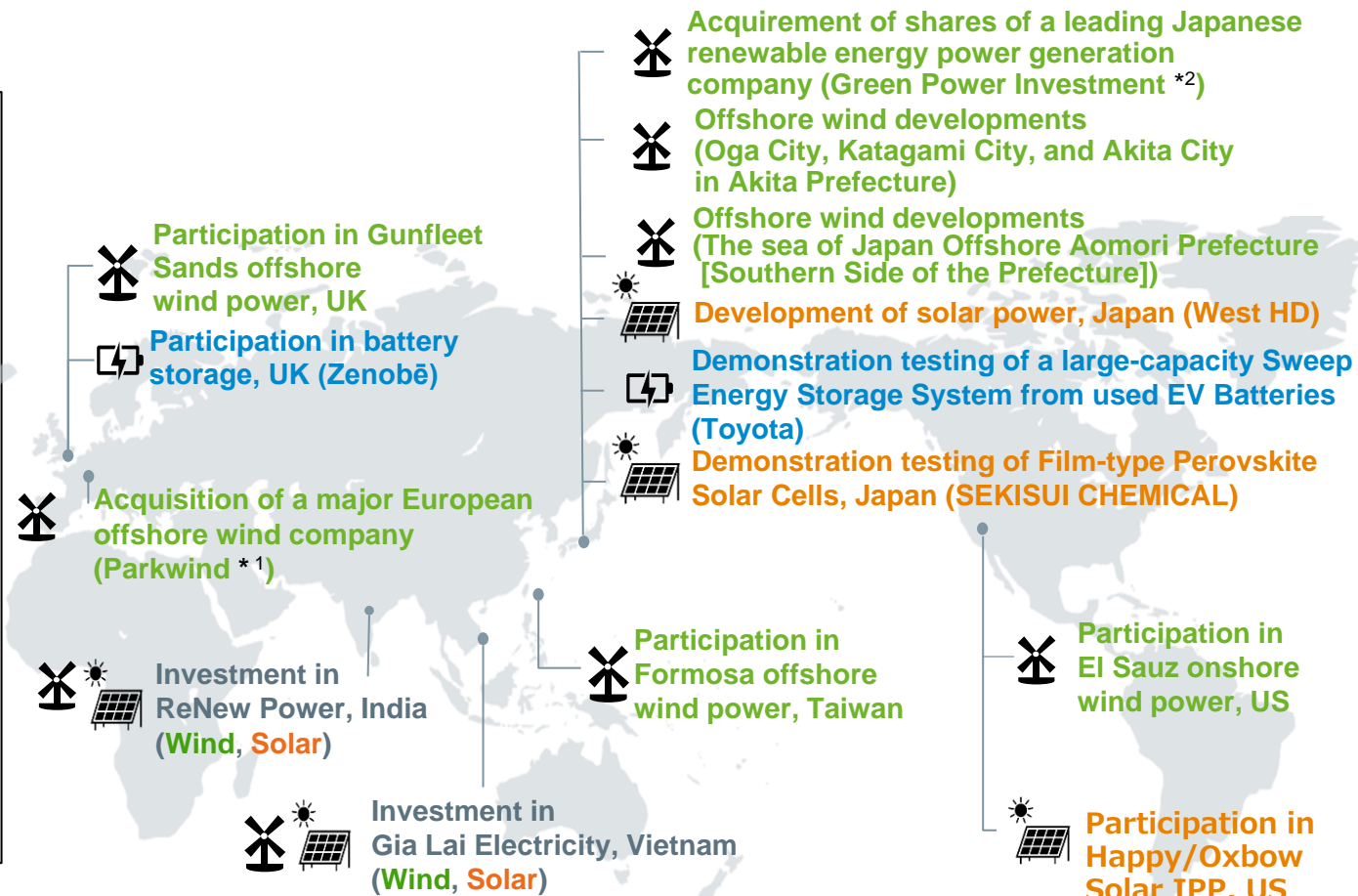
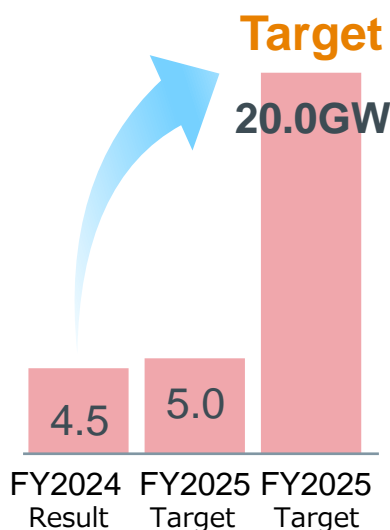
Initiatives for CCUS

- A memorandum of understanding was signed for a joint study on building a CCUS value chain at the Yokosuka Thermal Power Station, utilizing CO₂ separation and capture technology based on solid sorbents developed by Kawasaki Heavy Industries, Ltd. Toward the start of demonstration by fiscal year 2030, a comprehensive evaluation of CO₂ separation, capture facilities, and effective utilization will be conducted.

Efforts towards Zero CO2 Emissions(Renewable Energy Development)

- JERA has set a target of 20GW renewable energy development by FY2035, and is widely promoting wind power, solar power, battery storage, etc.

Renewable Energy Development



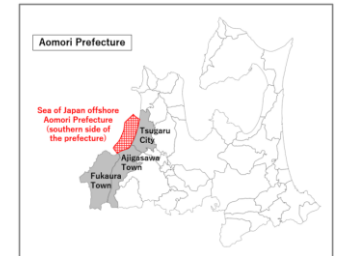
*1 Parkwind's equity generation capacity is 0.54GW.

*2 JERA's equity generation capacity is approximately 0.11GW.

JERA Zero CO2 Emissions 2050: Actions for Domestic Offshore Wind Power Generation

- JERA was selected as the business operator for an offshore wind power project off in the Sea of Japan Offshore Aomori Prefecture (Southern Side of the Prefecture) on December 24, 2024.

Tsugaru Offshore Wind	
Interconnection Capacity	615MW
Number of Units	41 units
Turbine Model	Siemens Gamesa 15MW
Planned Start of Commercial Operation	June 2030



<Map of Business Areas>

- JERA was selected as the business operator for an offshore wind power project off Oga city, Katagami city, and Akita city in Akita prefecture on December 13, 2023.

Oga, Katagami, and Akita Offshore Wind	
Interconnection Capacity	315MW
Number of Units	21 units
Turbine Model	Vestas V236-15MW
Planned Start of Commercial Operation	June 2028



<Map of Business Areas>

- JERA acquired shares of Green Power Investment Corporation on August 3, 2023. On January 1, 2024, Ishikari Bay New Port Offshore Wind Farm held by JERA and GPI began in its operation.

Ishikari Bay New Port Offshore Wind	
Interconnection Capacity	112 MW
Number of Units	14 units
Turbine Model	Siemens Gamesa 8MW
Start of Commercial Operation	1st January 2024



<Turbine Generator Installation>

JERA Zero CO2 Emissions 2050: Agreement to create JERA Nex bp

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- bp and JERA Nex * have agreed to combine their offshore wind businesses to form a new standalone, equally-owned joint venture that will become one of the largest global offshore wind developers, owners and operators. Preparing to establish JERA Nex bp.

Content of Agreement

- Creating strategic platform for growth, combining high-quality operating and development offshore wind assets, with total 13GW potential net generating capacity.
- Building on history of partnership and combining complementary expertise, standalone 50:50 venture initially to progress existing advanced developments from extensive portfolio.
- Agreed funding model to support highly disciplined, capital efficient growth, including accessing competitive financing, portfolio optimisation, and defined capital investment plans from partners.

* JERA's renewable energy business subsidiary



Left side : Yukio Kani, Global CEO and Chair of JERA
Right side : Murray Auchincloss, bp CEO

JERA Cross provides decarbonization solutions for corporate green transformation.

- JERA has established JERA Cross with the aim of combining its energy, digital, and business transformation capabilities to accelerate corporate “green transformation” (GX) .
- Integrated support for companies from designing their future vision and strategy for the GX, to the development and supply of renewable energy and other energy sources.
- JERA Cross will also provide a stable supply of “24/7 carbon free electric power”^{*1} contribute to solving client issues.

(As of June 30,2025)

JERA provides decarbonization solutions

Company	Solution	Start Date	Power Generation	remark
Toho Co., Ltd.	Offsite corporate PPA	November, 2024 ^{*2}	Hydrogen and solar	First commercial use of electricity generated by zero-emission thermal power that burns hydrogen exclusively in Japan ^{*3} Aiming to achieve 24/7 carbon-free power in the future
AIN Holdings Inc.	Offsite corporate PPA	December, 2024	Solar	Utilizing JERA's solar power generation facilities. The first off-site corporate PPA for AIN Group
Tokyo Metro Co., Ltd.	Solar virtual PPA ^{*4}	December, 2024	Solar	Non-fossil certificates (environmental value) generated by JERA's solar power generation facilities are provided through JERA Cross.
East Japan Railway Company	Offsite corporate PPA	February,2025	Solar	JERA Cross acts as an aggregator to supply the electricity generated by JERA's solar power generation facilities to Atre Oimachi and Lumine Yokohama via JR East Trading, a retail electricity provider.
PRESTIGE International Inc.	Offsite corporate PPA	March,2025	Solar	An off-site corporate PPA was introduced using JERA's solar power facilities to supply electricity to six BPO office locations operated by Prestige.
KOSHIDAKA Co., LTD	Offsite corporate PPA	April,2025	Solar	An off-site corporate PPA was introduced using JERA's solar power facilities to supply electricity to karaoke stores operated by Koshidaka.

^{*1} A name for electricity that emits no CO2 twenty-four hours a day, seven days a week, 365 days a year. In accordance with the Ministry of Economy, Trade and Industry's “Guidelines for Retail Sales of Electricity,” this means providing 100% of the electricity supply from CO2 zero-emission sources, including the environmental value derived from the use of non-fossil certificates. This does not mean that CO2 is not emitted during the life cycle of fuel production and transportation, etc.

^{*2} We have started commercial use of electricity generated by zero-emission thermal power that uses hydrogen as its sole fuel. (In addition to hydrogen power generation, Toho Studios has also introduced electricity supply from JERA's solar power generation facilities.

^{*3} Research by JERA

^{*4} Customers can virtually procure the environmental value of renewable energy by non-fossil certificates.