

July 23, 2026

ESMAP Webinar Series: July 2026
Launch H4D Knowledge Product:
Japan's Hydrogen and Derivatives Framework

JERA's Decarbonization Strategy



JERA's Value Chain and Company Overview(As of March 31, 2025)

Covering the entire value chain of the fuel and thermal power generation business

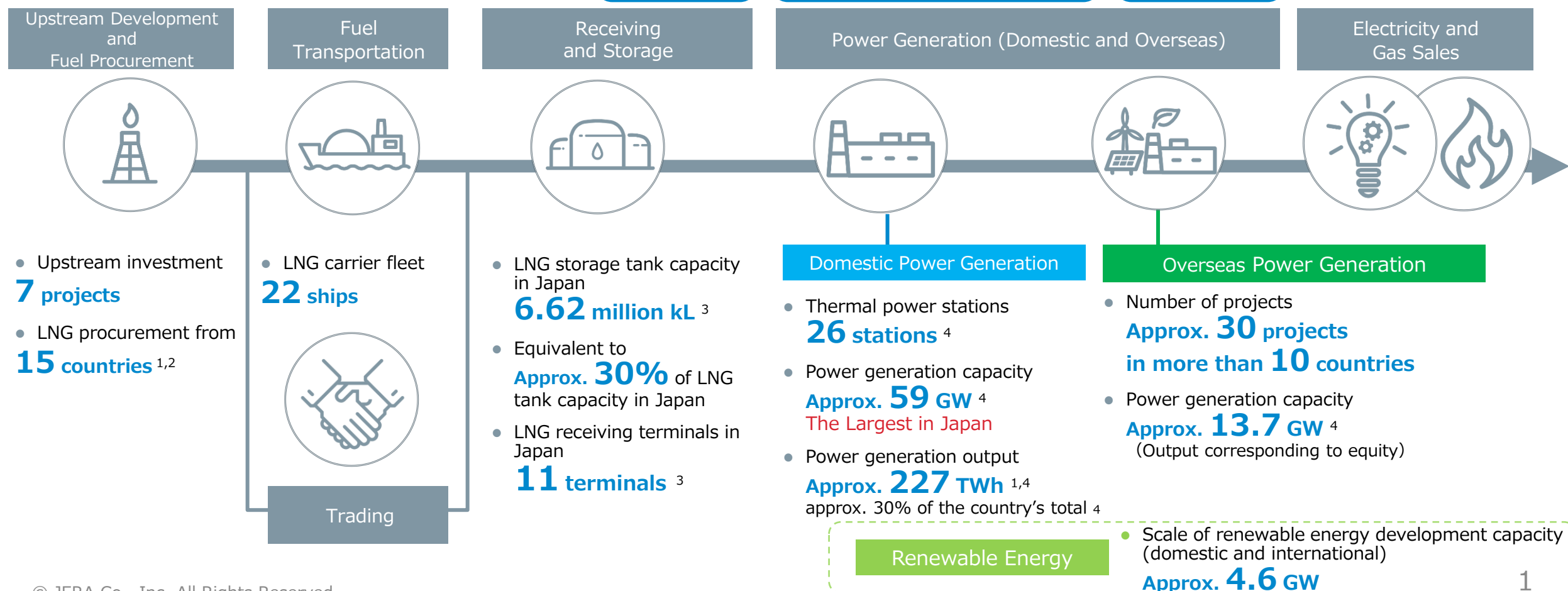
Our LNG transaction volume is among the largest in the world.

Total assets
Approx.
8.5
trillion yen ⁵

LNG transaction volume (annual) ¹
Approx. **35** million tonnes
One of the world's largest

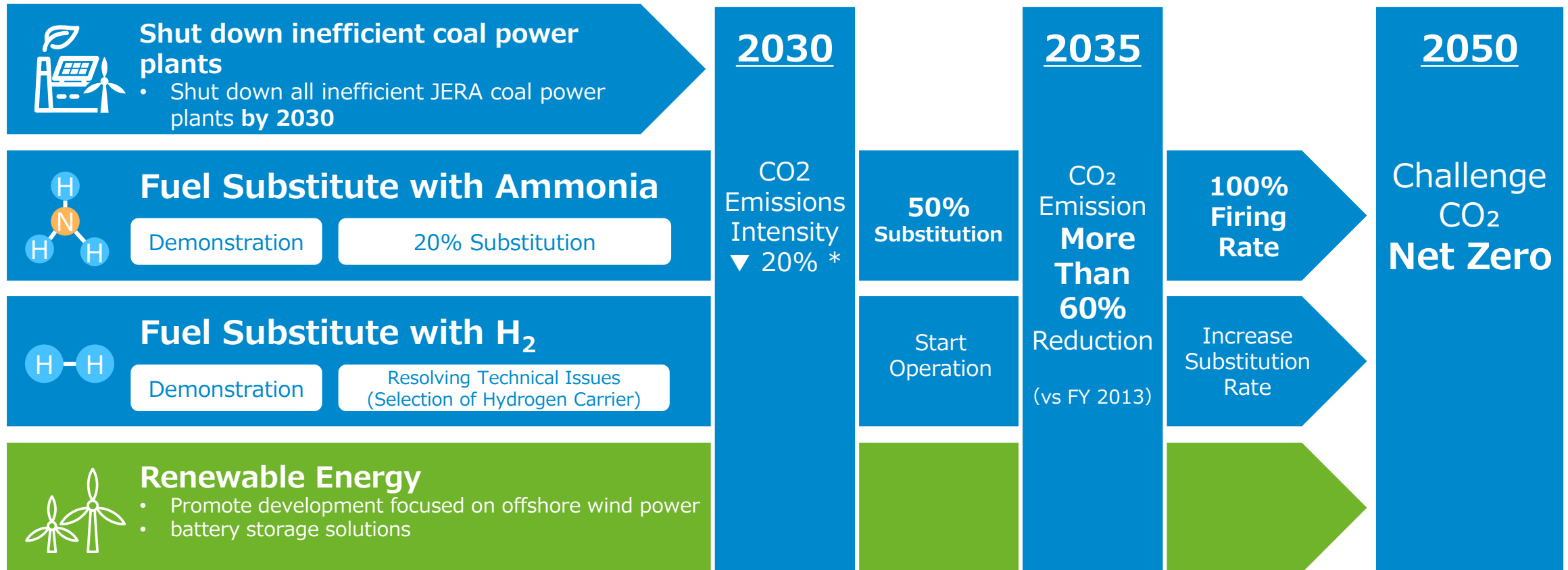
Revenue
Approx.
3.3
trillion yen ^{1,5}

1. FY2024
2. Represents the number of countries exporting LNG to our terminals
3. Includes joint projects with other companies in Chita and Yokkaichi
4. Includes facilities currently under construction. Domestic figures exclude joint thermal power holdings.
5. Voluntarily adopted International Financial Reporting Standards (IFRS)
6. Cumulative Installed Capacity
7. As of June 30, 2025



JERA Zero CO₂ Emissions 2050 Roadmap for its Business in Japan

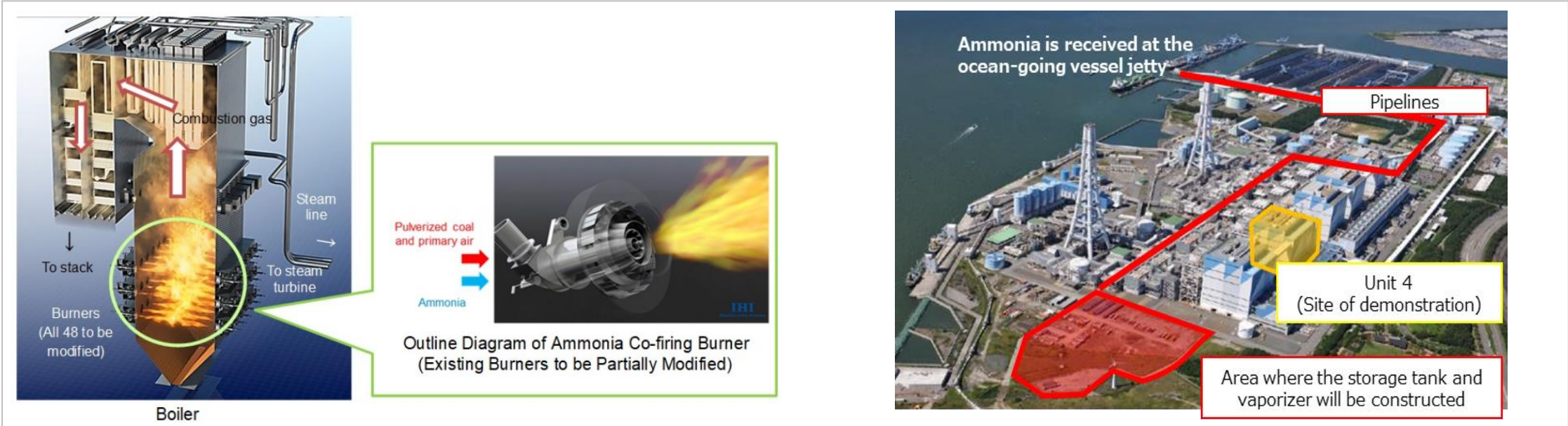
- Achieve net zero emissions in Japan through low-efficiency coal elimination, ammonia and hydrogen substitution, and renewable energy
- The path to zero emissions varies depending on the situation of the economy or region. Develop optimal roadmap overseas sequentially



*Compared with the emissions intensity of thermal power generation for the whole economy based on the long-term energy supply and demand forecast for FY 2030 presented by the government.

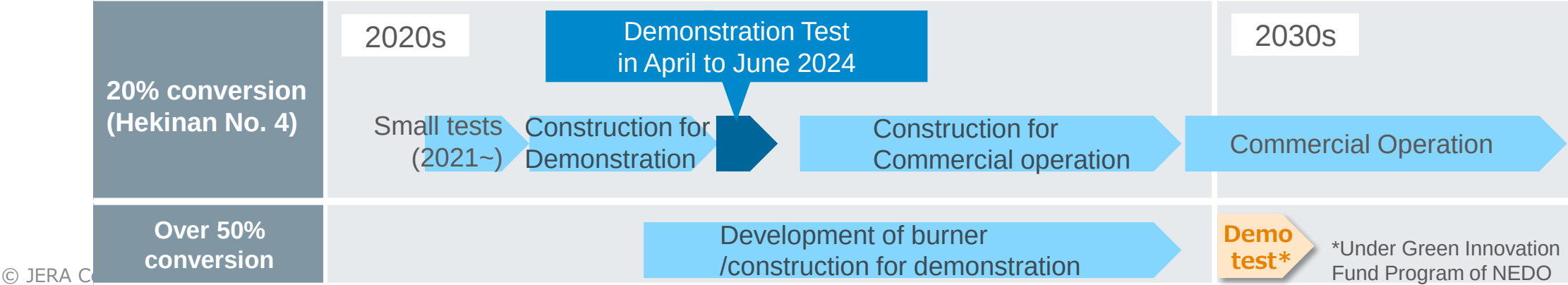
Demonstration of Ammonia Conversion

- The world's 1st demonstration test of large-volume fuel ammonia substitution (20%) supported by NEDO at a 1GW-class commercial coal-fired thermal power plant has performed.



Summary for Boiler and Modified Burner

Hekinan thermal power station for the demonstration (Aichi)



Hydrogen Conversion Plan - Chita Thermal Power Station Replacement Plan

- JERA and Toho Gas Co., Ltd. have established Chita Energy Solutions LLC for the construction and operation of the Power Station, and CES contracted with Toshiba and Taisei Corporation for construction work.
- Future hydrogen utilization will be based on the progress of hydrogen carrier's development.



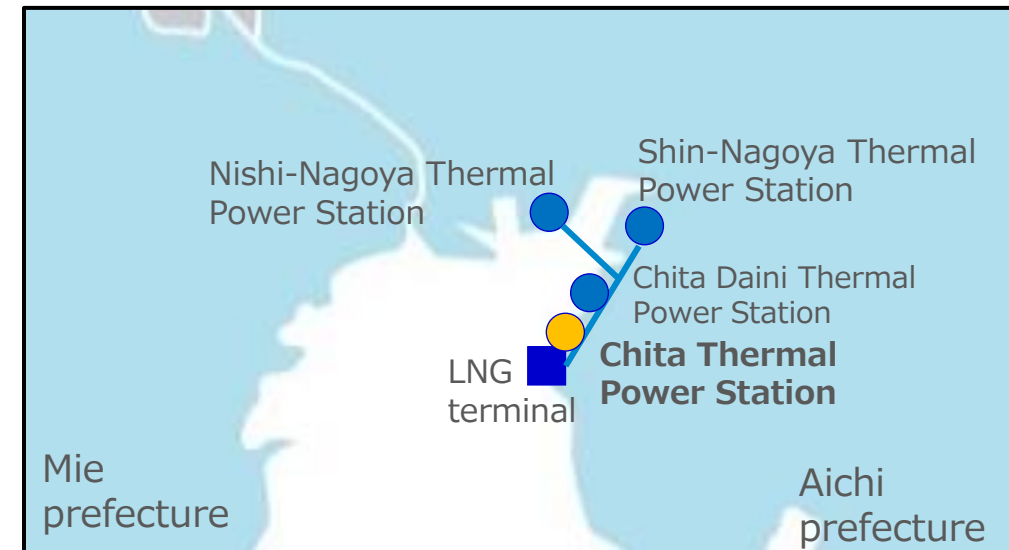
- Location Chita City, Aichi Prefecture, Japan
- Site area Approx. 560,000 m²

【 Summary 】

Power generation method : GTCC

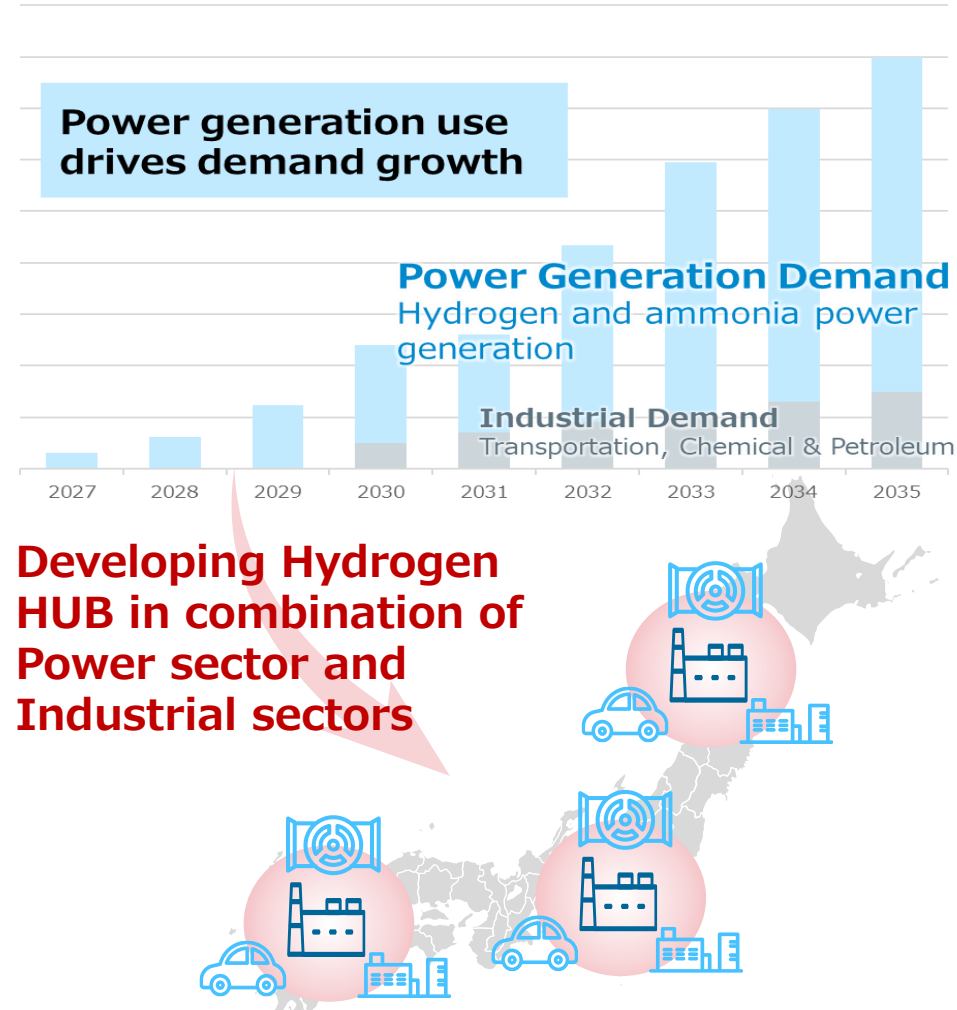
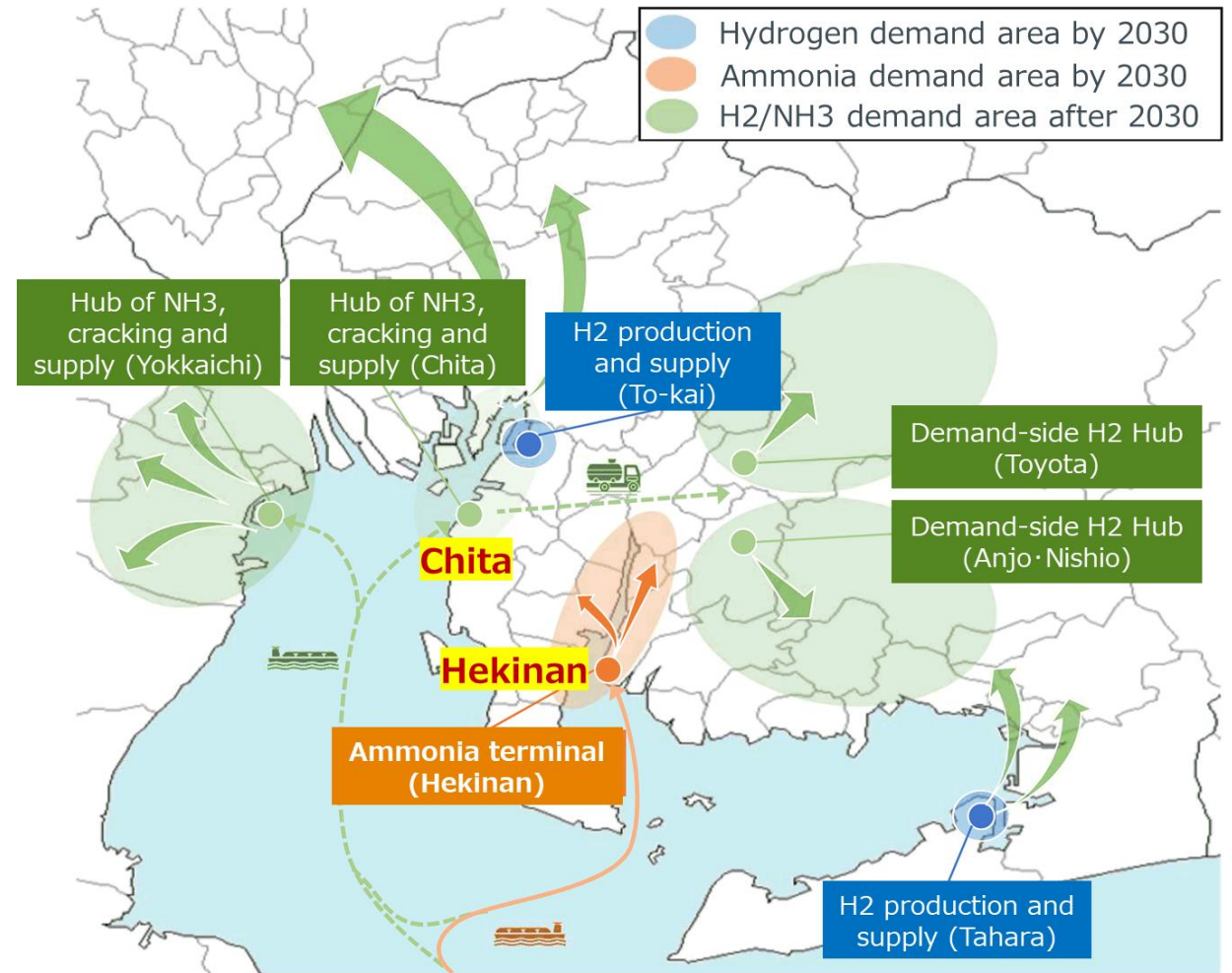
Capacity : 660MW × 2 unit

Fuels : LNG, **Hydrogen-Ready**



How to Expand the Use of Hydrogen-based Fuels

- Starting with large-scale usage of hydrogen-based fuels at thermal power plants, use of hydrogen in the industrial sector and transportation sector will be developed and expanded.



Initiatives to Strengthen the Hydrogen and Ammonia Supply Chain

1 Ammonia Production

- Securing upstream interests in fuel ammonia through investments in a blue ammonia production project to build a stable and competitive supply base

2 Transportation

- Securing long-term vessel charter agreements to support the stable, long-term procurement

3 Multi-Purpose Offtake Strategy

- Aggregating demand across multiple applications, including power, marine fuel and manufacturing
- Contributing to improved economics, operational efficiency and security of supply for fuel ammonia

Hydrogen and Ammonia Production

Ammonia Transportation

Ammonia Storage Tank

Utilization of Hydrogen and Ammonia

(to the users around the world)

1

- April 2025
FID made for the world's largest blue ammonia production project (Blue Point) in Louisiana, U.S.A.



Digital rendering of the Blue Point Project for illustrative purposes only (Credits: CF Industries)

Upstream Investments

2

- June 2026
Time charter agreement in place for 4 ammonia vessels.



Credits: NYK

Credits: MOL

Image of Fuel Ammonia Carriers

Building an ammonia transportation fleet: 4 vessels

3

- June 2024
Success of 20% fuel ammonia substitution demonstration test at Hekinan Thermal Power Station. Construction of the ammonia receiving terminal for the commercial operation on track.
- July 2024
World's first Truck to Ship fuel ammonia loading to an ammonia fueled tug-boat
- October 2023
Started discussions to supply ammonia to hard to abate industrial users

Certified for the Hub Development Support Scheme

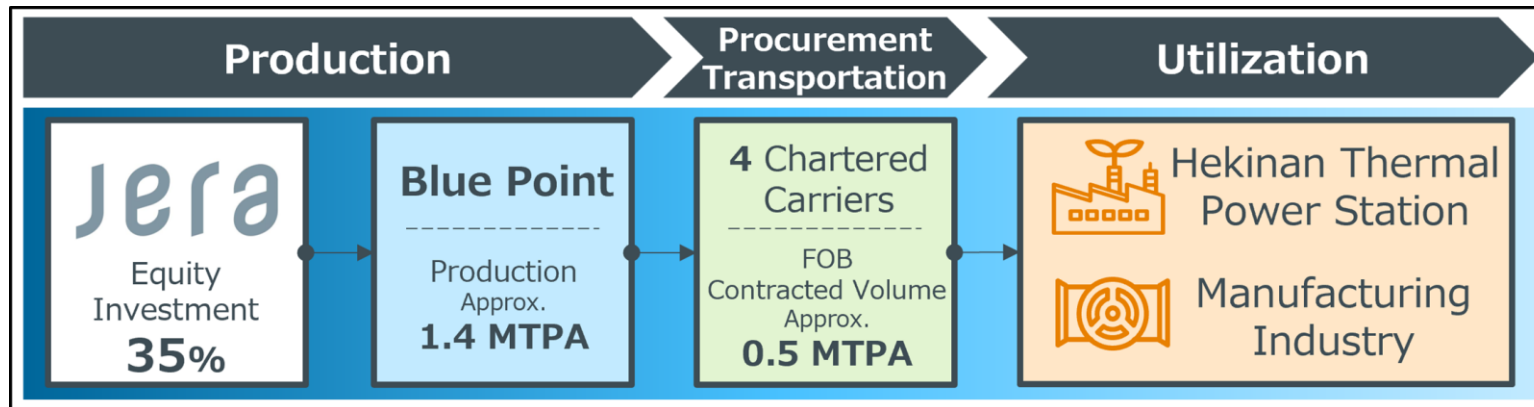
December 2025: Certified as a Low-Carbon Hydrogen and Derivatives Supplier under Japan's Price-Gas Support Scheme

Building Lower Carbon Ammonia (NH₃) Supply Chain

JERA certified as a Low-Carbon Hydrogen and Derivatives Supplier under Japan's Price-Gap Support Scheme by the Ministry of Economy, Trade and Industry(METI) (*announced on December 19, 2025*)

Power Generation Segment

- Successfully conducted the world's first NH₃ 20% demonstration test at the Hekinan P.S. (*announced on June 26, 2024*)
- Hekinan power plant has been awarded in Long-term CO₂-free capacity auction. (*announced on April 26, 2024*)
- Beyond power generation, JERA plans to supply NH₃ to a diverse range of industries, in Chubu region, and across Japan.



JERA's Initiatives for Establishing the Lower-Carbon Ammonia Value Chain (Concept Diagram)



Construction site view (as of Mar. 2026)

Note: [JERA Certified as a Low-Carbon Hydrogen and Derivatives Supplier under Japan's Price-Gap Support Scheme | Press Release\(2025\) | JERA](#)

JERA's efforts to Support Asia's Energy Transition

- Providing optimal decarbonization solutions tailored to the Situation of each Asian country, and promoting energy transition in collaboration with national energy operators and governments



Vietnam

- Vietnam Electricity Group (EVN)
- Support for Decarbonization Roadmap Development



Thailand

- Feasibility Study for Ammonia Substitution Project at BLCP Coal-Fired Power Plant*

- Feasibility Study of Ammonia Cracking Technology with PTT

- CCS Project Feasibility Study

● Roadmap ● CCS ● Hydrogen/Ammonia ● LNG ● Others

■ AZEC Cooperation Project MOU



Philippines

- System Design Support for LNG Introduction with Philippine DOE (GPDP)
- Feasibility Study on Ammonia Substitution Project at Coal-Fired Power Plant with Aboitiz



Indonesia

- JICA Energy Transition Master Plan Project
- Feasibility Study* on CCS Implementation at Thermal Power Plants with PLN

- Memorandum of Understanding (MOU) on Collaboration for Decarbonization and Carbon Reduction in the Cirebon Coal-Fired Power Plant Expansion Project
- MOU between JERA and PLN EPI on LNG Value Chain Development, etc.
- MOU between JERA and PERTAMINA on Cooperation in LNG/LCF Value Chain

* Selected for the Ministry of Economy, Trade and Industry's "Feasibility Study Project for Overseas Deployment of High-Quality Energy Infrastructure in FY2023"

Jera

Energy for a New Era