

Outlook of Kyuden Mirai Energy June 6, 2024

STREET



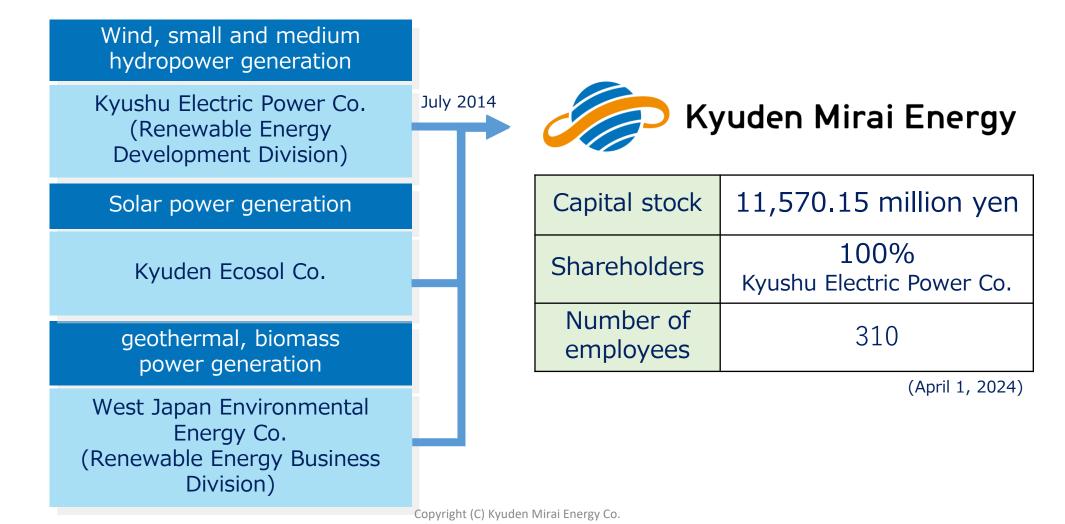
Brighten our future through renewables

Kushima Wind Power Plant (Kushima City, Miyazaki Prf., 64,800 kW, COD: October 2020)

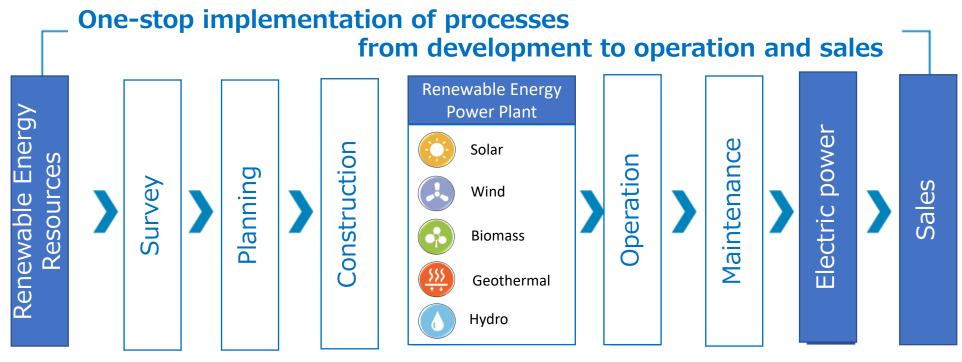
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Background of the establishment of Kyuden Mirai Energy

- Established in July 2014 by <u>consolidating the renewable energy divisions of the</u> <u>Kyuden Group</u> to provide a one-stop, speedy approach to renewable energy development.
- Started <u>retail electricity business in the Kanto and Kansai areas</u> in April 2016, in line with the total deregulation of electricity retailing.



- Conducting business based on <u>in-house development and long-term ownership of</u> renewable energy generation facilities.
- Conducting <u>research, operation</u>, and <u>sales</u> of <u>five major renewable energy sources</u> (solar, wind, biomass, geothermal, and hydro).
- Achieving <u>high efficiency</u> and <u>high operational rate</u> by leveraging the technical expertise the Kyuden Group has built up over 100 years in developing and operating power source facilities.

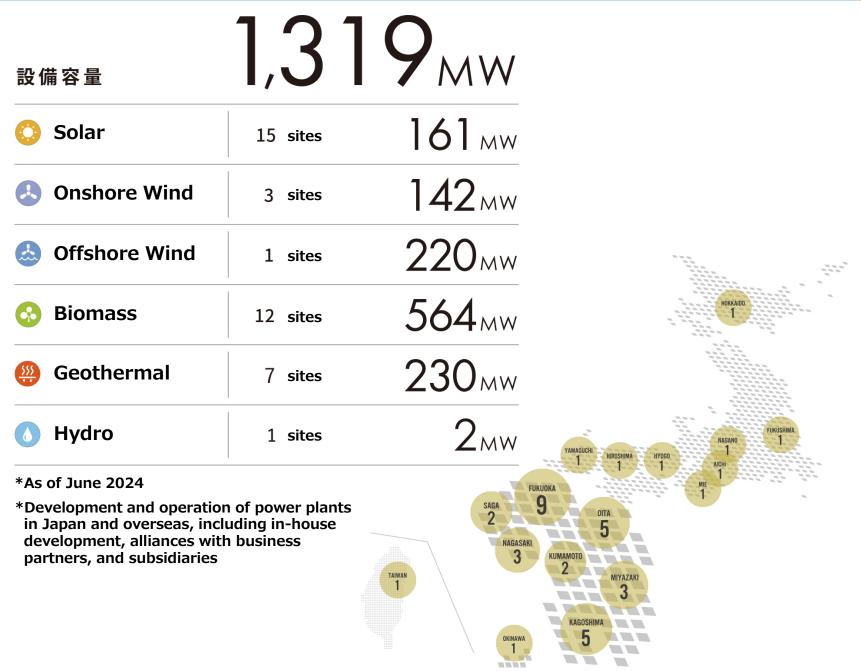


We also sell <u>RE100 electricity</u> using <u>non-fossil certificates derived from our</u> renewable energy sources.

Renewable Energy Development Status

(In operation + Under Construction + Planned) End of FY2025

4



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Hibikinada Offshore Wind Farm

- Kitakyushu City launched the Green Energy Port Hibiki concept in 2010 to promote the accumulation of wind power generation-related industries.
- The Ministry of Land, Infrastructure, Transport and Tourism (MLIT) revised the Port and Harbor Law in 2016, and Kitakyushu City became the first city in Japan to set up a public bid for occupancy of offshore areas for 20 years (the first project under the revised law).
- As a result of a public solicitation, the consortium led by Kyuden Mirai was selected as the business operator, and a basic agreement was signed with Kitakyushu City on January 10, 2018.



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Yamaguchi

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Kitakyushu

Fukuoka

- Project Summary
- SPC: Hibiki Wind Energy Corporation [Investors: Kyuden Mirai Energy, J Power, Hokutaku, Saibu Gas, Kyudenko]
- Power generation: 220MW (9.6MW x 25 units)
- Project scale: approx. 175 billion yen (plans under scrutiny)
- Start of construction: March 2023, Planned installation: FY2025
- Wind turbine model
- Japan's first large wind turbine with a single unit capacity of 9.6MW

Model	V174-9.6MW
Output	9.6MW
Blade layout	Upwind
Rotor diameter	174 m
Receiving air surface area	23,779 ^{m2}
Hub height	Approx. 110 m
The highest point	Approx. 200 m
Type certification	IEC-Class IB, T



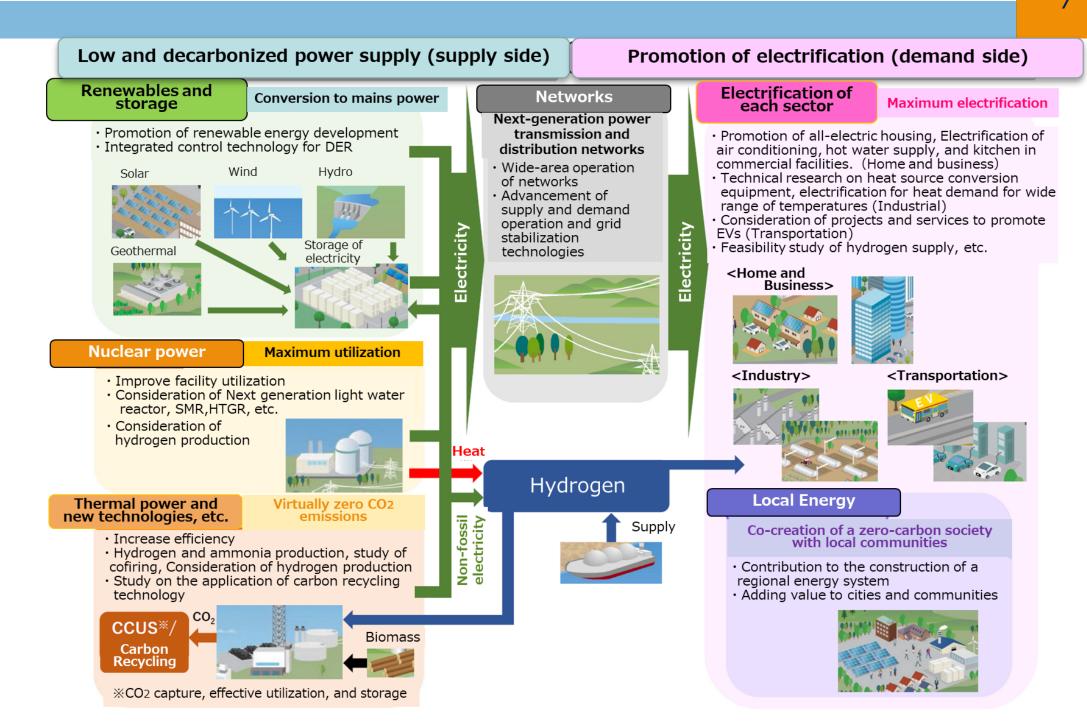
Image of wind turbine *Photo courtesy of Vestas Wind Systems A/S

Image of a pile-type jacket foundation

- Selection of wind turbine foundation type
- Pile-type jacket foundation, a technically safe and reliable foundation type, is adopted.
- This foundation type has been adopted in many port and marine structures in Japan and overseas.

Kyuden Group Carbon-Neutral Vision 2050





Our mission, our future



Brighten our future through renewables

The Kyuden Group takes on the challenge to achieve carbon neutrality by 2050 and plans to achieve "carbon negativity" as early as possible before 2050. We aim to create a sustainable society.



Higashi-Hiroshima Mega Solar Power Plant (Hiroshima Prf., 1,000 kW)



Karatsu Chinzei Wind Farm (Saga Prf., 27,200 kW)



Hatchobaru Geothermal Power Plant (Kagoshima Prf., 110,000 kW)

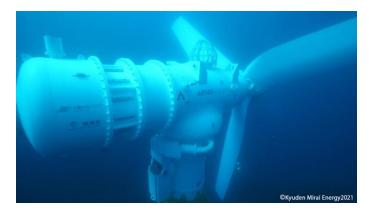


Fukuoka Woody Biomass Power Plant (Fukuoka Prf., 5,700 kW)



Kamoshishi Hydroelectric Power Plant (Kumamoto Prf., 1,990 kW)





Tidal power generation demonstration project with Ministry of the Environment (Nagasaki Prf., 500 kW)